Serving:

Anaheim

Brea

Buena Park

Cypress

Fountain Valley

Fullerton

Garden Grove

Huntington Beach

Irvine

La Habra

La Palma

Los Alamitos

Newport Beach

Orange

Placentia

Santa Ana

Seal Beach

Stanton

Tustin

Villa Park

County of Orange

Costa Mesa Sanitary District

Midway City Sanitary District

> Irvine Ranch Water District

Yorba Linda Water District



Orange County Sanitation District

10844 Ellis Avenue, Fountain Valley, CA 92708 714.962.2411 • www.ocsd.com

December 12, 2019

NOTICE OF REGULAR MEETING

BOARD OF DIRECTORS

ORANGE COUNTY SANITATION DISTRICT

Wednesday, December 18, 2019 - 6:00 P.M.

Administration Building 10844 Ellis Avenue Fountain Valley, California 92708

The Regular Meeting of the Board of Directors of the Orange County Sanitation District will be held at the above location, time, and date.

Clerk of the Board

Upcoming Meetings:

GWRS Steering Committee -Steering Committee -Board Meeting -

Monday, January 13, 2020 at 5:00 p.m. Wednesday, January 22, 2020 at 5:00 p.m. Wednesday, January 22, 2020 at 6:00 p.m.

Our Mission: To protect public health and the environment by providing effective wastewater collection, treatment, and recycling.

BOARD MEETING DATES

January 22, 2020

February 26, 2020

March 25, 2020

April 22, 2020

May 27, 2020

June 24, 2020

July 22, 2020

August 26, 2020

September 23, 2020

October 28, 2020

November 18, 2020 *

December 16, 2020 *

^{*} Meeting will be held on the third Wednesday of the month

ORANGE COUNTY SANITATION DISTRICT BOARD OF DIRECTORS Complete Roster

AGENCY/CITIES	ACTIVE DIRECTOR	ALTERNATE DIRECTOR
Anaheim	Lucille Kring	Denise Barnes
Brea	Glenn Parker	Steven Vargas
Buena Park	Fred Smith	Sunny Park
Cypress	Mariellen Yarc	Stacy Berry
Fountain Valley	Steve Nagel	Patrick Harper
Fullerton	Jesus J. Silva	Jan Flory
Garden Grove	Steve Jones	John O'Neill
Huntington Beach	Erik Peterson	Mike Posey
Irvine	Christina Shea	Anthony Kuo
La Habra	Tim Shaw	Tom Beamish
La Palma	Peter Kim	Marshall Goodman
Los Alamitos	Richard Murphy	Dean Grose
Newport Beach	Brad Avery	Joy Brenner
Orange	Mark Murphy	Kim Nichols
Placentia	Chad Wanke	Ward Smith
Santa Ana	Cecilia Iglesias	David Penaloza
Seal Beach	Sandra Massa-Lavitt	Schelly Sustarsic
Stanton	David Shawver	Carol Warren
Tustin	Allan Bernstein	Chuck Puckett
Villa Park	Robert Collacott	Chad Zimmerman
Sanitary/Water Districts		
Costa Mesa Sanitary District	James M. Ferryman	Bob Ooten
Midway City Sanitary District	Andrew Nguyen	Al Krippner
Irvine Ranch Water District	John Withers	Douglas Reinhart
Yorba Linda Water District	Phil Hawkins	Brooke Jones
County Areas		
Board of Supervisors	Doug Chaffee	Michelle Steel



Orange County Sanitation District BOARD OF DIRECTORS

Regular Meeting Agenda
Wednesday, December 18, 2019 - 6:00 PM
Board Room
Administration Building
10844 Ellis Avenue
Fountain Valley, CA 92708
(714) 593-7433

ACCOMMODATIONS FOR THE DISABLED: Meeting Rooms are wheelchair accessible. If you require any special disability related accommodations, please contact the Orange County Sanitation District Clerk of the Board's office at (714) 593-7433 at least 72 hours prior to the scheduled meeting. Requests must specify the nature of the disability and the type of accommodation requested.

AGENDA POSTING: In accordance with the requirements of California Government Code Section 54954.2, this agenda has been posted outside the main gate of the Sanitation District's Administration Building located at 10844 Ellis Avenue, Fountain Valley, California, and on the Sanitation District's website at www.ocsd.com not less than 72 hours prior to the meeting date and time above. All public records relating to each agenda item, including any public records distributed less than 72 hours prior to the meeting to all, or a majority of the Board of Directors, are available for public inspection in the office of the Clerk of the Board.

AGENDA DESCRIPTION: The agenda provides a brief general description of each item of business to be considered or discussed. The recommended action does not indicate what action will be taken. The Board of Directors may take any action which is deemed appropriate.

MEETING AUDIO: An audio recording of this meeting is available within 24 hours after adjournment of the meeting. Please contact the Clerk of the Board's office at (714) 593-7433 to request the audio file.

NOTICE TO DIRECTORS: To place items on the agenda for a Committee or Board Meeting, the item must be submitted in writing to the Clerk of the Board: Kelly A. Lore, MMC, (714) 593-7433 / klore@ocsd.com at least 14 days before the meeting.

FOR ANY QUESTIONS ON THE AGENDA, BOARD MEMBERS MAY CONTACT STAFF AT:

General Manager: Jim Herberg, jherberg@ocsd.com / (714) 593-7300
Asst. General Manager: Lorenzo Tyner, ltyner@ocsd.com / (714) 593-7550
Asst. General Manager: Rob Thompson, rthompson@ocsd.com / (714) 593-7310
Director of Human Resources: Celia Chandler, cchandler@ocsd.com / (714) 593-7202
Director of Engineering: Kathy Millea, kmillea@ocsd.com / (714) 593-7365
Director of Environmental Services: Lan Wiborg, lwiborg@ocsd.com / (714) 593-7450

CALL TO ORDER

(Board Chairman David Shawver)

INVOCATION AND PLEDGE OF ALLEGIANCE

Christina Shea, Irvine

ROLL CALL (Clerk of the Board)

1. APPOINTMENTS TO THE ORANGE COUNTY SANITATION DISTRICT BOARD OF DIRECTORS

2019-840

RECOMMENDATION:

Receive and file minute excerpts of member agencies relating to appointments to the Orange County Sanitation District Board of Directors effective January 1, 2020:

Agency Director Alternate Director

City of La Palma Peter Kim Nitesh Patel

Originator: Kelly Lore

DECLARATION OF QUORUM

PUBLIC COMMENTS:

If you wish to address the Board of Directors on any item, please complete a Speaker's Form (located at the table outside of the Board Room) and submit it to the Clerk of the Board or notify the Clerk of the Board the item number on which you wish to speak. Speakers will be recognized by the Chairperson and are requested to limit comments to three minutes.

SPECIAL PRESENTATIONS:

SP-1 ORANGE COUNTY BUSINESS COUNCIL PRESENTATION OF 2019 SUSTAINABLE AND GREEN DEVELOPMENT AWARD

SP-2 ANNUAL LEGISLATIVE AFFAIRS UPDATE FOR 2019

2019-792

RECOMMENDATION:

Information regarding the legislative affairs program will be provided to the Board of Directors. Orange County Sanitation District's Federal and State Lobbyists will provide an overview of the annual update for 2019.

Originator: Jim Herberg

Attachments: Agenda Report

REPORTS:

The Board Chairperson and the General Manager may present verbal reports on miscellaneous matters of general interest to the Directors. These reports are for information only and require no action by the Directors.

CONSENT CALENDAR:

Consent Calendar Items are considered to be routine and will be enacted, by the Board of Directors, after one motion, without discussion. Any items withdrawn from the Consent Calendar for separate discussion will be considered in the regular order of business.

2. APPROVAL OF MINUTES

2019-738

RECOMMENDATION:

Approve Minutes of the Regular Meeting of the Board of Directors held November 20, 2019.

Originator: Kelly Lore

Attachments: Agenda Report

11-20-2019 Board Meeting Minutes

3. PRIMARY SEDIMENTATION BASINS NO. 6-31 RELIABILITY IMPROVEMENTS AT PLANT NO. 1, PROJECT NO. P1-133

2019-842

RECOMMENDATION:

- A. Approve the Amended Professional Design Services Agreement with Carollo Engineers, Inc. to provide engineering services for Primary Sedimentation Basins No. 6-31 Reliability Improvements at Plant No. 1, Project No. P1-133, for an amount not to exceed \$1,219,667; and
- B. Approve a contingency of \$121,967 (10%).

Originator: Kathy Millea

Attachments: Agenda Report

Amended P1-133 Agreement

PPP 11-6-19 Ops Committee - P1-133

RECEIVE AND FILE:

4. REPORT OF THE INVESTMENT TRANSACTIONS FOR THE MONTH
OF NOVEMBER 2019

2019-681

<u>RECOMMENDATION:</u> Receive and file the following:

Report of the Investment Transactions for the month of November 2019.

Originator: Lorenzo Tyner

Investment Transactions for the Month of November 2019

5. COMMITTEE MEETING MINUTES

2019-736

RECOMMENDATION: Receive and file the following:

A. Minutes of the Steering Committee Meeting held October 23, 2019

- B. Minutes of the Legislative and Public Affairs Committee held November 4, 2019
- C. Minutes of the Operations Committee Meeting held November 6, 2019
- D. Minutes of the Administration Committee Meeting held November 13, 2019

Originator: Kelly Lore

Attachments: Agenda Report

10-23-2019 Steering Committee Minutes
11-04-2019 Legislative Committee Minutes
11-06-2019 Operations Committee Minutes
11-13-2019 Administration Committee Minutes

OPERATIONS COMMITTEE:

6. PROTEIN MATRIX DEMONSTRATION STUDY AT PLANT NO. 1, PROJECT NO. RE18-02

2019-820

RECOMMENDATION:

- A. Ratify the prior Sole Source Purchases to Protein Matrix LLC for the procurement of Protein Matrix Compound PM-4 for Protein Matrix Demonstration Study at Plant No. 1, Project No. RE 18-02, for a total amount of \$148,500; and
- B. Approve a Sole Source Purchase Order to Protein Matrix LLC for the procurement of Protein Matrix Compound PM-4 for Protein Matrix Demonstration Study at Plant No. 1, Project No. RE18-02, for a total amount not to exceed \$150,000.

Originator: Kathy Millea

Attachments: Agenda Report

7. 480 VOLT CABLE REPLACEMENT AT PLANT NO. 2 HEADWORKS, 2019-822 PROJECT NO. MP-509

RECOMMENDATION:

A. Receive and file Bid Tabulation and Recommendation for 480 Volt Cable Replacement at Plant No. 2 Headworks, Project No. MP-509;

- B. Award a Construction Contract to Mass. Electric Construction Co. for 480 Volt Cable Replacement at Plant No. 2, Project No. MP-509, for a total amount not to exceed \$434,327; and
- C. Approve a contingency of \$86,865 (20%).

Originator: Kathy Millea

Attachments: Agenda Report

MP-509 Contract Agreement

8. ACTIVATED SLUDGE PLANT CLARIFIER INLET GATE REPLACEMENT AT PLANT NO. 2, PROJECT NO. MP-638

2019-823

RECOMMENDATION:

- A. Receive and file Bid Tabulation and Recommendation for Activated Sludge Plant Clarifier Inlet Gate Replacement at Plant No. 2, Project No. MP-638;
- B. Award a Construction Contract to Innovative Construction Solutions for Activated Sludge Plant Clarifier Inlet Gate Replacement at Plant No. 2, Project No. MP-638, for a total amount not to exceed \$658,300; and
- C. Approve a contingency of \$65,830 (10%).

Originator: Kathy Millea

Attachments: Agenda Report

MP-638 Contract Agreement

9. AGREEMENT FOR THE PURCHASE OF LIQUID CATIONIC POLYMER, <u>2019-824</u> SPECIFICATION NO. C-2019-1087BD

RECOMMENDATION:

- A. Approve a Chemical Supplier Agreement with Polydyne, Inc. for the purchase of Cationic Polymer, Specification No. C-2019-1087BD, for the period beginning February 1, 2020 through January 31, 2021 for a unit price of \$2.548 per active pound plus freight and applicable sales tax, for a total estimated annual amount of \$3,866,280 with four (4) one-year renewal options; and
- B. Approve an annual unit price contingency of 15%.

Originator: Rob Thompson

Attachments: Agenda Report

C-2019-1087BD Final Chemical Supplier Agreement

10. SEAL BEACH PUMP STATION REPLACEMENT, PROJECT NO. 3-67 2019-825

RECOMMENDATION:

- A. Approve a Professional Design Services Agreement with Lee & Ro, Inc. to provide engineering services for Seal Beach Pump Station Replacement, Project No. 3-67, for an amount not to exceed \$5,947,850; and
- B. Approve a contingency of \$594,785 (10%).

Originator: Kathy Millea

Attachments: Agenda Report

3-67 Professional Design Services Agreement Package
Item 9 PPP 12-04-19 Operations - Seal Beach Pump Station

<u>3-67</u>

11. WESTMINSTER BOULEVARD FORCE MAIN REPLACEMENT, PROJECT NO. 3-62

2019-826

RECOMMENDATION:

- A. Approve a Professional Construction Services Agreement with Stantec Consulting, Inc. to provide construction support services for Westminster Boulevard Force Main Replacement, Project No. 3-62, for a total amount not to exceed \$1,183,000; and
- B. Approve a contingency of \$118,300 (10%).

Originator: Kathy Millea

Attachments: Agenda Report

<u>3-62 Professional Construction Services Agreement</u> Item 10 11 PPP 12-04-19 Operations - Westminster

Boulevard Force Main 3-62

12. WESTMINSTER BOULEVARD FORCE MAIN REPLACEMENT, PROJECT NO. 3-62

2019-827

RECOMMENDATION:

- A. Receive and file Bid Tabulation and Recommendation for Westminster Boulevard Force Main Replacement, Project No. 3-62;
- B. Award a Construction Contract to Teichert Energy & Utilities Group, Inc. for Westminster Boulevard Force Main Replacement, Project No. 3-62, for a total amount not to exceed \$27,743,000; and
- C. Approve a contingency of \$2,774,300.

Originator: Kathy Millea

3-62 Contract Agreement Package

Item 10 11 PPP 12-04-19 Operations - Westminster

Boulevard Force Main 3-62

ADMINISTRATION COMMITTEE:

13. PAYMENT OF ANNUAL NATIONAL POLLUTANT DISCHARGE AND ELIMINATION SYSTEM (NPDES) PERMIT FEES

2019-848

RECOMMENDATION:

Approve payment of \$653,081 for annual NPDES (ocean discharge) permit fees.

Originator: Lan Wiborg

Attachments: Agenda Report

14. INVEST AND/OR REINVEST ORANGE COUNTY SANITATION DISTRICT'S FUNDS AND ADOPT INVESTMENT POLICY STATEMENT

2019-849

RECOMMENDATION:

Adopt Resolution No. OCSD 19-21, entitled, "A Resolution of the Board of Directors of the Orange County Sanitation District, Authorizing the Orange County Sanitation District's Treasurer to Invest and/or Reinvest Orange County Sanitation District's Funds, Adopting the Orange County Sanitation District's Investment Policy Statement and Performance Benchmarks, and Repealing Resolution No. OCSD 18-23".

Originator: Lorenzo Tyner

Attachments: Agenda Report

OCSD Calendar Year 2020 Investment Policy Statement

(Clean)

OCSD Calendar Year 2019 Investment Policy Statement

(Redline)

Resolution No. OCSD 19-21

LEGISLATIVE AND PUBLIC AFFAIRS COMMITTEE:

15. PUBLIC AFFAIRS UPDATE FOR THE MONTH OF NOVEMBER 2019

2019-836

RECOMMENDATION:

Receive and file the Public Affairs Update for the month of November 2019.

Originator: Jim Herberg

Outreach Report November 2019 Media Clips November 2019

16. LEGISLATIVE AFFAIRS UPDATE FOR THE MONTH OF NOVEMBER

2019-837

2019

RECOMMENDATION:

Receive and file the Legislative Affairs Update for the month of November 2019.

Originator: Jim Herberg

Attachments: Agenda Report

Federal Update - ENS Resources.pdf

<u>Federal Legislative Matrix - ENS Resources.pdf</u> State Update - Townsend Public Affairs.pdf

State Legislative Matrix - Townsend Public Affairs.pdf

Grant Matrix

CASA Coalition Wipes Support Letter
PowerPoint 12-09-19 LaPA - ENS
PowerPoint 12-09-19 LaPA - TPA

17. 2020 LEGISLATIVE/REGULATORY PLAN

2019-838

RECOMMENDATION:

Approve the Orange County Sanitation District 2020 Legislative and Regulatory Plan.

Originator: Jim Herberg

Attachments: Agenda Report

2020 Legislative Regulatory Plan

STEERING COMMITTEE:

18. MEMORANDUM OF UNDERSTANDING WITH ORANGE COUNTY EMPLOYEES RETIREMENT SYSTEM REGARDING PAYMENT OF UNFUNDED ACTUARIAL ACCRUED LIABILITIES

2019-843

RECOMMENDATION:

Adopt Resolution No. OCSD 19-20 entitled, "A Resolution of the Board of Directors of the Orange County Sanitation District authorizing the Execution of the Memorandum of Understanding with the Orange County Employees Retirement System establishing the terms to recognize and apply the Orange County Sanitation District's satisfaction of its Unfunded Accrued Actuarial Liability and deferred Unfunded Accrued Actuarial Liability.

Originator: Lorenzo Tyner

Resolution No. OCSD 19-20

Exhibit "A" Memorandum of Understanding

NON-CONSENT:

None.

INFORMATION ITEMS:

None.

AB 1234 DISCLOSURE REPORTS:

This item allows Board members to provide a brief oral report regarding the disclosure of outside committees, conferences, training, seminars, etc. attended at the Agency's expense, per Government Code §53232.3(d).

CLOSED SESSION:

During the course of conducting the business set forth on this agenda as a regular meeting of the Board, the Chairperson may convene the Board in closed session to consider matters of pending real estate negotiations, pending or potential litigation, or personnel matters, pursuant to Government Code Sections 54956.8, 54956.9, 54957 or 54957.6, as noted.

Reports relating to (a) purchase and sale of real property; (b) matters of pending or potential litigation; (c) employment actions or negotiations with employee representatives; or which are exempt from public disclosure under the California Public Records Act, may be reviewed by the Board during a permitted closed session and are not available for public inspection. At such time the Board takes final action on any of these subjects, the minutes will reflect all required disclosures of information.

CONVENE IN CLOSED SESSION.

CS-1 CONFERENCE WITH LEGAL COUNSEL RE ANTICIPATED LITIGATION - GOVERNMENT CODE SECTION 54956.9(d)(4)

2019-844

RECOMMENDATION: Convene in Closed Session:

Number of Potential Cases: 1

Initiation of litigation regarding development fees and conditions at Project OCSD

Headquarters Building: City of Fountain Valley

Attachments: Agenda Report

Memo re Anticipated Litigation Headquaters Building

CS-2 CONFERENCE WITH LEGAL COUNSEL RE ANTICIPATED LITIGATION - GOVERNMENT CODE SECTION 54956.9(d)(4)

2019-845

RECOMMENDATION: Convene in Closed Session:

Number of Potential Cases: 1

Claim received from Shimmick Construction pertaining to Project No. J-117B - Outfall Low Pump Station Ocean Outfall System Rehabilitation

Attachments: Agenda Report

Memo re Anticipated Litigation Shimmick Construction

CS-3 CONFERENCE WITH LEGAL COUNSEL RE ANTICIPATED LITIGATION - GOVERNMENT CODE SECTION 54956.9(d)(4)

2019-846

RECOMMENDATION: Convene in Closed Session:

Number of Potential Cases: 1

Claim received from Terra Insurance Company pertaining to insurance requirements for Orange County Sanitation District Project No. PS17-03 - Active Fault Location Study at Plant No. 2

Attachments: Agenda Report

Memo re Anticipated Litigation Terra Insurance Company

CS-4 CONFERENCE WITH REAL PROPERTY NEGOTIATORS - GOVERNMENT CODE SECTION 54956.8

2019-847

RECOMMENDATION: Convene in Closed Session:

Property: 18475 Bandilier Cir. Fountain Valley, CA - APN No.156-163-15;

Agency negotiators: General Manager, Jim Herberg; Assistant General Manager, Lorenzo Tyner; Assistant General Manager, Rob Thompson; and Director of Engineering, Kathy Millea.

Negotiating parties: Sukut Real Properties II, LLC

Under negotiation: Price and terms of payment

Attachments: Agenda Report

Memo re Real Property

RECONVENE IN REGULAR SESSION.

CONSIDERATION OF ACTION, IF ANY, ON MATTERS CONSIDERED IN CLOSED SESSION:

OTHER BUSINESS AND COMMUNICATIONS OR SUPPLEMENTAL AGENDA ITEMS, IF ANY:

BOARD OF DIRECTORS INITIATED ITEMS FOR A FUTURE MEETING:

At this time Board members may request staff to place an item on a future agenda.

ADJOURNMENT:

Adjourn the Board meeting until the Regular Meeting of the Board of Directors on January 22, 2020 at 6:00 p.m.



Orange County Sanitation District

BOARD OF DIRECTORS

Administration Building 10844 Ellis Avenue Fountain Valley, CA 92708 (714) 593-7433

Agenda Report

FROM: James D. Herberg, General Manager

SUBJECT:

ANNUAL LEGISLATIVE AFFAIRS UPDATE FOR 2019

GENERAL MANAGER'S RECOMMENDATION

RECOMMENDATION:

Information regarding the legislative affairs program will be provided to the Board of Directors. Orange County Sanitation District's Federal and State Lobbyists will provide an overview of the annual update for 2019.

BACKGROUND

The Orange County Sanitation District's (Sanitation District) legislative affairs program includes advocating the Sanitation District's legislative interests, sponsoring legislation (where appropriate), and seeking Local, State, and Federal funding for projects and programs.

RELEVANT STANDARDS

- Maintain influential legislative advocacy and a public outreach program
- Build brand, trust, and support with policy makers and community leaders
- Maintain collaborative and cooperative relationships with regulators, stakeholders, and neighboring communities

ATTACHMENT

The following attachment(s) may be viewed on-line at the OCSD website (www.ocsd.com) with the complete agenda package:

N/A



Orange County Sanitation District

BOARD OF DIRECTORS

Administration Building 10844 Ellis Avenue Fountain Valley, CA 92708 (714) 593-7433

Agenda Report

File #: 2019-738 Agenda Date: 12/18/2019 Agenda Item No: 2.

FROM: James D. Herberg, General Manager

Originator: Kelly A. Lore, Clerk of the Board

SUBJECT:

APPROVAL OF MINUTES

GENERAL MANAGER'S RECOMMENDATION

RECOMMENDATION:

Approve Minutes of the Regular Meeting of the Board of Directors held November 20, 2019.

BACKGROUND

In accordance with the Board of Directors Rules of Procedure, an accurate record of each meeting will be provided to the Directors for subsequent approval at the following meeting.

RELEVANT STANDARDS

Resolution No. OCSD 19-19

ATTACHMENT

The following attachment(s) are included in hard copy and may also be viewed on-line at the OCSD website (www.ocsd.com) with the complete agenda package:

Minutes of the Board of Directors meeting held November 20, 2019

ORANGE COUNTY SANITATION DISTRICT

MINUTES

BOARD OF DIRECTORS

NOVEMBER 20, 2019



Board Room Administration Building 10844 Ellis Avenue Fountain Valley, CA 92708 (714) 593-7433

CALL TO ORDER

A regular meeting of the Board of Directors of the Orange County Sanitation District was called to order by Board Chairman David Shawver on November 20, 2019 at 6:08 p.m. in the Administration Building. Director Erik Peterson delivered the invocation and led the Pledge of Allegiance.

ROLL CALL AND DECLARATION OF QUORUM

The Clerk of the Board declared a quorum present as follows:

PRESENT: Brad Avery, Allan Bernstein, Doug Chaffee, Robert Collacott, James

Ferryman, Cecilia Iglesias, Peter Kim, Lucille Kring, Sandra Massa-Lavitt, Mark Murphy, Steve Nagel, Andrew Nguyen, Glenn Parker, Erik Peterson, David Shawver, Christina Shea, Jesus Silva, Fred Smith, Chad Wanke, John Withers, Tom Beamish (Alternate), Stacy Berry (Alternate), Dean Grose (Alternate) and John O'Neill

(Alternate)

ABSENT: Phil Hawkins

STAFF MEMBERS PRESENT: Jim Herberg, General Manager; Rob Thompson, Assistant General Manager; Lorenzo Tyner, Assistant General Manager; Kathy Millea, Director of Engineering; Kelly Lore, Clerk of the Board; Janine Aguilar; Daisy Covarrbias; Raul Cueller; Al Garcia; Tom Grant; Mark Kawamoto; Tina Knapp; Laura Maravilla; Jeff Mohr; Tyler Ramirez; Wally Ritchie; Mickey Whitney; and Mike Zedek.

OTHERS PRESENT: Brad Hogin (General Counsel); Roger Cerda and Peter Maisitis, Alston & Bird (Special Counsel); Bob Ooten, Alternate Director (CMSD) and Austin Mejia, Supervisor Chaffee's office.

PUBLIC COMMENTS:

Supervisor Chaffee presented a proclamation to Orange County Sanitation District to commemorate the groundbreaking of the final expansion of the GWRS.

Vice Chair Withers departed the meeting at 6:11 p.m.

SPECIAL PRESENTATIONS:

Chair Shawver presented a token of his appreciation to the Directors whose Alternate Directors attended the State of the District.

Engineering Supervisor Mark Kawamoto presented a 30-year Service Award to Engineer Mike Zedek - Division 620.

REPORTS:

Chair Shawver reported on the success of the recent GWRS Final Expansion Groundbreaking event and expressed appreciation to those who attended.

Chair Shawver also announced that as part of OCSD's branding efforts, the Board members were each given an OCSD polo shirt.

The Chairman announced that staff was in attendance at the Orange County Business Council Awards ceremony where OCSD was nominated for several awards including: <u>Odor and Corrosion Program</u>; <u>Converting Food Waste into Green Energy</u>; <u>Battery Energy Storage System Project</u>; and a joint entry with Orange County Health Care Agency and Public Works, South Orange County Wastewater Authority for our partnership on <u>"Beaches Open for Business - the OC Ocean Water Protection Program."</u>

General Manager Jim Herberg stated that based on direction and feedback received from the Board, and following the Steering Committee's approval this evening, the 2019 Strategic Plan was on the consent calendar for adoption by the Board. He thanked the Directors for their engagement and thoughtful discussion while setting the policy direction for the agency.

CONSENT CALENDAR:

1. APPROVAL OF MINUTES

2019-580

Originator: Kelly Lore

Chair Shawver announced that a correction was made to the Special Meeting minutes start time from 9:20 to 8:20 a.m.

MOVED, SECONDED, AND DULY CARRIED TO:

Approve Minutes of the Regular Meeting of the Board of Directors held October 23, 2019 and Minutes of the Special Meeting of the Board of Directors (State of the District) held October 25, 2019.

AYES: Brad Avery, Allan Bernstein, Doug Chaffee, Robert Collacott, James

Ferryman, Cecilia Iglesias, Peter Kim, Lucille Kring, Sandra Massa-Lavitt, Mark Murphy, Steve Nagel, Andrew Nguyen, Glenn Parker, Erik Peterson, David Shawver, Christina Shea, Jesus Silva, Fred Smith, Chad Wanke, Tom Beamish (Alternate), Stacy Berry (Alternate), Dean Grose (Alternate) and John O'Neill (Alternate)

NOES: None

ABSENT: Phil Hawkins and John Withers

ABSTENTIONS: None

2. REJECT CLAIM OF JAMES MICHAEL CHAVEZ

2019-704

Originator: Kelly Lore

MOVED, SECONDED, AND DULY CARRIED TO:

Receive and file letter of rejection in regard to claim of damage received from Mr. James Michael Chavez.

Ferryman, Cecilia Iglesias, Peter Kim, Lucille Kring, Sandra Massa-Lavitt, Mark Murphy, Steve Nagel, Andrew Nguyen, Glenn Parker, Erik Peterson, David Shawver, Christina Shea, Jesus Silva, Fred Smith, Chad Wanke, Tom Beamish (Alternate), Stacy Berry

(Alternate). Dean Grose (Alternate) and John O'Neill (Alternate)

NOES: None

ABSENT: Phil Hawkins and John Withers

ABSTENTIONS: None

RECEIVE AND FILE:

3. COMMITTEE MEETING MINUTES

2019-652

Originator: Kelly Lore

WITHOUT OBJECTION ACTION TAKEN TO: Receive and file:

- A. Minutes of the Administration Committee Meeting held September 11, 2019
- B. Minutes of the Steering Committee Meeting held September 25, 2019
- C. Minutes of the Operations Committee Meeting held October 2, 2019
- D. Minutes of the Legislative and Public Affairs Committee held October 14, 2019

4. REPORT OF THE INVESTMENT TRANSACTIONS FOR THE MONTH 2019-673 OF OCTOBER 2019

Originator: Lorenzo Tyner

WITHOUT OBJECTION ACTION TAKEN TO: Receive and file:

Report of the Investment Transactions for the month of October 2019.

OPERATIONS COMMITTEE:

5. PURCHASE OF THIRTY-SIX ELECTRIC CARTS

2019-727

Originator: Rob Thompson

- A. Award a Purchase Order to Southwest Material Handling for the purchase of 36 electric carts using US Communities Cooperative Contract EV2024-01 for a total amount not to exceed \$684,506; and
- B. Approve a contingency of \$34,226 (5%)

Ferryman, Cecilia Iglesias, Peter Kim, Lucille Kring, Sandra Massa-Lavitt, Mark Murphy, Steve Nagel, Andrew Nguyen, Glenn Parker, Erik Peterson, David Shawver, Christina Shea, Jesus Silva, Fred Smith, Chad Wanke, Tom Beamish (Alternate), Stacy Berry

(Alternate), Dean Grose (Alternate) and John O'Neill (Alternate)

NOES: None

ABSENT: Phil Hawkins and John Withers

ABSTENTIONS: None

6. LABORATORY BOILER BURNER REPLACEMENT AT PLANT NO. 1, <u>2019-728</u> PROJECT NO. MP-485

Originator: Kathy Millea

MOVED, SECONDED, AND DULY CARRIED TO:

- A. Receive and file Bid Tabulation and Recommendation for Laboratory Boiler Burner Replacement at Plant No. 1, Project No. MP-485;
- B. Award a contract agreement to ODC Engineering & Technology for Laboratory Boiler Burner Replacement at Plant No. 1, Project No. MP-485, for an amount not to exceed \$283,000; and
- C. Approve a contingency of \$28,300 (10%).

AYES: Brad Avery, Allan Bernstein, Doug Chaffee, Robert Collacott, James

Ferryman, Cecilia Iglesias, Peter Kim, Lucille Kring, Sandra Massa-Lavitt, Mark Murphy, Steve Nagel, Andrew Nguyen, Glenn Parker, Erik Peterson, David Shawver, Christina Shea, Jesus Silva, Fred Smith, Chad Wanke, Tom Beamish (Alternate), Stacy Berry

(Alternate), Dean Grose (Alternate) and John O'Neill (Alternate)

NOES: None

ABSENT: Phil Hawkins and John Withers

ABSTENTIONS: None

7. UNINTERRUPTIBLE POWER SUPPLY IMPROVEMENTS AT PLANT 2019-729
NO. 1, PROJECT NO. P1-132

Originator: Kathy Millea

- A. Approve a Professional Design Services Agreement with Tetra Tech, Inc. to provide engineering services for Uninterruptible Power Supply Improvements at Plant No. 1, Project No. P1-132, for an amount not to exceed \$784,680; and
- B. Approve a contingency of \$78,468 (10%).

Ferryman, Cecilia Iglesias, Peter Kim, Lucille Kring, Sandra Massa-Lavitt, Mark Murphy, Steve Nagel, Andrew Nguyen, Glenn Parker, Erik Peterson, David Shawver, Christina Shea, Jesus Silva, Fred Smith, Chad Wanke, Tom Beamish (Alternate), Stacy Berry

(Alternate). Dean Grose (Alternate) and John O'Neill (Alternate)

NOES: None

ABSENT: Phil Hawkins and John Withers

ABSTENTIONS: None

8. CAPITAL IMPROVEMENT PROGRAM CONTRACT PERFORMANCE <u>2019-730</u>

REPORT

Originator: Kathy Millea

MOVED, SECONDED, AND DULY CARRIED TO:

Receive and file the Capital Improvement Program Contract Performance Report for the period ending September 30, 2019.

AYES: Brad Avery, Allan Bernstein, Doug Chaffee, Robert Collacott, James

Ferryman, Cecilia Iglesias, Peter Kim, Lucille Kring, Sandra Massa-Lavitt, Mark Murphy, Steve Nagel, Andrew Nguyen, Glenn Parker, Erik Peterson, David Shawver, Christina Shea, Jesus Silva, Fred Smith, Chad Wanke, Tom Beamish (Alternate), Stacy Berry

(Alternate), Dean Grose (Alternate) and John O'Neill (Alternate)

NOES: None

ABSENT: Phil Hawkins and John Withers

ABSTENTIONS: None

9. PLANT NO. 2 MAIN SEWAGE PUMPS, VARIABLE FREQUENCY
DRIVE, 10 YEAR PREVENTATIVE MAINTENANCE

<u>2019-731</u>

Originator: Rob Thompson

- A. Approve Sole Source Purchase Order Contract with OneSource Distributors for performing the 10-year manufacturer recommended Preventative Maintenance (PM) on all seven of Plant No. 2 Main Sewage Pump Variable Frequency Drives for an amount not to exceed \$438,751, which includes the purchase of the full scope of supply, freight, and taxes; and
- B. Approve a contingency of \$43,876 (10%).

Ferryman, Cecilia Iglesias, Peter Kim, Lucille Kring, Sandra Massa-Lavitt, Mark Murphy, Steve Nagel, Andrew Nguyen, Glenn Parker, Erik Peterson, David Shawver, Christina Shea, Jesus Silva, Fred Smith, Chad Wanke, Tom Beamish (Alternate), Stacy Berry

(Alternate). Dean Grose (Alternate) and John O'Neill (Alternate)

NOES: None

ABSENT: Phil Hawkins and John Withers

ABSTENTIONS: None

10. PLANT NO. 2 MAIN SEWAGE PUMPS MOTOR OVERHAUL

2019-732

Originator: Rob Thompson

MOVED, SECONDED, AND DULY CARRIED TO:

- A. Award a service contract to R.A. Reed Electric Company to provide Plant No. 2 Main Sewage Pump Motor Overhaul, Specification No. S-2019-1089BD, for a total amount not to exceed \$430,680; and
- B. Approve a contingency of \$43,068 (10%).

AYES: Brad Avery, Allan Bernstein, Doug Chaffee, Robert Collacott, James

Ferryman, Cecilia Iglesias, Peter Kim, Lucille Kring, Sandra Massa-Lavitt, Mark Murphy, Steve Nagel, Andrew Nguyen, Glenn Parker, Erik Peterson, David Shawver, Christina Shea, Jesus Silva, Fred Smith, Chad Wanke, Tom Beamish (Alternate), Stacy Berry (Alternate), Dean Grose (Alternate) and John O'Neill (Alternate)

NOES: None

ABSENT: Phil Hawkins and John Withers

ABSTENTIONS: None

11. CARBON CANYON PIPELINE SAG REPAIRS, PROJECT NO. FE17-01 2019-733

Originator: Kathy Millea

Item pulled and heard separately. Staff responded to a question regarding possible odors from this project which were negated.

- A. Receive and file Bid Tabulation and Recommendation for Carbon Canyon Pipeline Sag Repairs, Project No. FE17-01;
- B. Reject low bid from Creative Home Corporation (CHI Construction) as non-responsive;
- C. Award a construction contract to Mike Prlich and Sons, Inc. for Carbon Canyon Pipeline Sag Repairs, Project No. FE17-01, for a total amount not to exceed \$510,000; and
- D. Approve a contingency amount of \$51,000 (10%).

Ferryman, Cecilia Iglesias, Peter Kim, Lucille Kring, Sandra Massa-Lavitt, Mark Murphy, Steve Nagel, Andrew Nguyen, Glenn Parker, Erik Peterson, David Shawver, Christina Shea, Jesus Silva, Fred Smith, Chad Wanke, Tom Beamish (Alternate), Stacy Berry

(Alternate), Dean Grose (Alternate) and John O'Neill (Alternate)

NOES: None

ABSENT: Phil Hawkins and John Withers

ABSTENTIONS: None

12. PRIMARY SEDIMENTATION BASINS NO. 6-31 RELIABILITY IMPROVEMENTS AT PLANT NO. 1, PROJECT NO. P1-133

2019-734

Originator: Kathy Millea

MOVED, SECONDED, AND DULY CARRIED TO:

- A. Approve a Professional Design Services Agreement with Carollo Engineers, Inc. to provide engineering services for Primary Sedimentation Basins No. 6-31 Reliability Improvements at Plant No. 1, Project No. P1-133, for an amount not to exceed \$1,219,667; and
- B. Approve a contingency of \$121,967 (10%).

AYES: Brad Avery, Allan Bernstein, Doug Chaffee, Robert Collacott, James

Ferryman, Cecilia Iglesias, Peter Kim, Lucille Kring, Sandra Massa-Lavitt, Mark Murphy, Steve Nagel, Andrew Nguyen, Glenn Parker, Erik Peterson, David Shawver, Christina Shea, Jesus Silva, Fred Smith, Chad Wanke, Tom Beamish (Alternate), Stacy Berry

(Alternate), Dean Grose (Alternate) and John O'Neill (Alternate)

NOES: None

ABSENT: Phil Hawkins and John Withers

ABSTENTIONS: None

ADMINISTRATION COMMITTEE:

13. 2019 CONFLICT OF INTEREST CODE

2019-746

Originator: Kelly Lore

MOVED, SECONDED, AND DULY CARRIED TO:

Adopt Resolution No. OCSD 19-18 entitled, "A Resolution of the Board of Directors of Orange County Sanitation District adopting a Conflict of Interest Code which supersedes all prior Conflict of Interest Codes and amendments previously adopted".

AYES: Brad Avery, Allan Bernstein, Doug Chaffee, Robert Collacott, James

Ferryman, Cecilia Iglesias, Peter Kim, Lucille Kring, Sandra Massa-Lavitt, Mark Murphy, Steve Nagel, Andrew Nguyen, Glenn Parker, Erik Peterson, David Shawver, Christina Shea, Jesus Silva, Fred Smith, Chad Wanke, Tom Beamish (Alternate), Stacy Berry

(Alternate), Dean Grose (Alternate) and John O'Neill (Alternate)

NOES: None

ABSENT: Phil Hawkins and John Withers

ABSTENTIONS: None

14. UPDATE TO THE ESTABLISHED RULES OF PROCEDURE FOR THE CONDUCT OF BUSINESS OF THE ORANGE COUNTY SANITATION

<u>2019-747</u>

DISTRICT

Originator: Kelly Lore

MOVED, SECONDED, AND DULY CARRIED TO:

Adopt Resolution No. OCSD 19-19 entitled, "A Resolution of the Board of Directors of Orange County Sanitation District establishing Rules of Procedure for the Conduct of Business of the Orange County Sanitation District; and repealing Resolution No. OCSD 18-12".

AYES: Brad Avery, Allan Bernstein, Doug Chaffee, Robert Collacott, James

Ferryman, Cecilia Iglesias, Peter Kim, Lucille Kring, Sandra Massa-Lavitt, Mark Murphy, Steve Nagel, Andrew Nguyen, Glenn Parker, Erik Peterson, David Shawver, Christina Shea, Jesus Silva, Fred Smith, Chad Wanke, Tom Beamish (Alternate), Stacy Berry

(Alternate), Dean Grose (Alternate) and John O'Neill (Alternate)

NOES: None

ABSENT: Phil Hawkins and John Withers

ABSTENTIONS: None

15. GENERAL MANAGER APPROVED PURCHASES AND ADDITIONS TO THE PRE-APPROVED OEM SOLE SOURCE LIST

2019-748

Originator: Lorenzo Tyner

MOVED, SECONDED, AND DULY CARRIED TO:

- Α. Receive and file Orange County Sanitation District purchases made under the General Manager's authority for the period of July 1, 2019 to September 30, 2019; and
- В. Approve the following additions to the pre-approved OEM Sole Source List for the period of July 1, 2019 to September 30, 2019:
 - ALLEN-BRADLEY Medium Voltage Variable Frequency Drive
 - CLEAVER-BROOKS Burner Elements
 - EATON Self-Cleaning Strainers
 - SONETICS Wireless headsets and system
 - TRM/Maximo Rules Manager SE and Lock out Tag Out (LOTO) Software
 - VAUGHAN Mixing Nozzles

AYES: Brad Avery, Allan Bernstein, Doug Chaffee, Robert Collacott, James

> Ferryman, Cecilia Iglesias, Peter Kim, Lucille Kring, Sandra Massa-Lavitt, Mark Murphy, Steve Nagel, Andrew Nguyen, Glenn Parker, Erik Peterson, David Shawver, Christina Shea, Jesus Silva, Fred Smith, Chad Wanke, Tom Beamish (Alternate), Stacy Berry

(Alternate), Dean Grose (Alternate) and John O'Neill (Alternate)

None NOES:

ABSENT: Phil Hawkins and John Withers

ABSTENTIONS: None

16. CONSOLIDATED FINANCIAL REPORT FOR THE FIRST QUARTER **ENDED SEPTEMBER 30, 2019**

2019-749

Originator: Lorenzo Tyner

MOVED, SECONDED, AND DULY CARRIED TO:

Receive and file the Orange County Sanitation District First Quarter Financial Report for the period ended September 30, 2019.

Brad Avery, Allan Bernstein, Doug Chaffee, Robert Collacott, James AYES:

> Ferryman, Cecilia Iglesias, Peter Kim, Lucille Kring, Sandra Massa-Lavitt, Mark Murphy, Steve Nagel, Andrew Nguyen, Glenn Parker, Erik Peterson, David Shawver, Christina Shea, Jesus Silva, Fred Smith, Chad Wanke, Tom Beamish (Alternate), Stacy Berry

(Alternate), Dean Grose (Alternate) and John O'Neill (Alternate)

None NOES:

ABSENT: Phil Hawkins and John Withers

ABSTENTIONS: None

17. LEASE AGREEMENT WITH MEGDAL GREEN, LLC PROVIDING ORANGE COUNTY SANITATION DISTRICT PARCEL FOR PARKING AND/OR RELATED ACTIVITIES

2019-750

Originator: Lorenzo Tyner

MOVED, SECONDED, AND DULY CARRIED TO:

Approve a five-year lease agreement with Megdal Green, LLC, a California limited liability company, to allow paving, striping, parking, and related improvements over a 4-foot wide portion of the Orange County Sanitation District's 50-foot wide utility corridor which abuts 21532 South Brookhurst Street in Huntington Beach owned by Megdal Green, LLC, at an annual cost of \$250, for a term of five-years.

AYES: Brad Avery, Allan Bernstein, Doug Chaffee, Robert Collacott, James

Ferryman, Cecilia Iglesias, Peter Kim, Lucille Kring, Sandra Massa-Lavitt, Mark Murphy, Steve Nagel, Andrew Nguyen, Glenn Parker, Erik Peterson, David Shawver, Christina Shea, Jesus Silva, Fred Smith, Chad Wanke, Tom Beamish (Alternate), Stacy Berry

(Alternate), Dean Grose (Alternate) and John O'Neill (Alternate)

NOES: None

ABSENT: Phil Hawkins and John Withers

ABSTENTIONS: None

18. ORANGE COUNTY SANITATION DISTRICT COMPREHENSIVE ANNUAL FINANCIAL REPORT (CAFR) FOR THE YEAR END JUNE 30, 2019

2019-751

Originator: Lorenzo Tyner

MOVED, SECONDED, AND DULY CARRIED TO:

Receive and file the Orange County Sanitation District's Comprehensive Annual Financial Report for the year ended June 30, 2019, prepared by staff and audited by Macias Gini & O'Connell LLP (MGO), Certified Public Accountants, along with the following reports prepared by MGO:

- 1. Report to the Board of Directors; and
- 2. Independent Accountants' Report on Agreed-Upon Procedures Applied to Appropriations Limit Worksheets.

Ferryman, Cecilia Iglesias, Peter Kim, Lucille Kring, Sandra Massa-Lavitt, Mark Murphy, Steve Nagel, Andrew Nguyen, Glenn Parker, Erik Peterson, David Shawver, Christina Shea, Jesus Silva, Fred Smith, Chad Wanke, Tom Beamish (Alternate), Stacy Berry

(Alternate), Dean Grose (Alternate) and John O'Neill (Alternate)

NOES: None

ABSENT: Phil Hawkins and John Withers

ABSTENTIONS: None

19. POSITION CHANGES FOR FISCAL YEAR 2019-20

2019-752

2019-722

Originator: Celia Chandler

MOVED, SECONDED, AND DULY CARRIED TO:

Approve a position exchange and corresponding salary upgrade from a vacant Senior Mechanic (Salary Grade LOC67) position to Maintenance Specialist (Salary Grade PRO80).

AYES: Brad Avery, Allan Bernstein, Doug Chaffee, Robert Collacott, James

Ferryman, Cecilia Iglesias, Peter Kim, Lucille Kring, Sandra Massa-Lavitt, Mark Murphy, Steve Nagel, Andrew Nguyen, Glenn Parker, Erik Peterson, David Shawver, Christina Shea, Jesus Silva, Fred Smith, Chad Wanke, Tom Beamish (Alternate), Stacy Berry

(Alternate), Dean Grose (Alternate) and John O'Neill (Alternate)

NOES: None

ABSENT: Phil Hawkins and John Withers

ABSTENTIONS: None

LEGISLATIVE AND PUBLIC AFFAIRS COMMITTEE:

20. PUBLIC AFFAIRS UPDATE FOR THE MONTH OF OCTOBER 2019 2019-721

Originator: Jim Herberg

WITHOUT OBJECTION ACTION TAKEN TO:

Receive and file the Public Affairs Update for the month of October 2019.

21. LEGISLATIVE AFFAIRS UPDATE FOR THE MONTH OF OCTOBER

2019

Originator: Jim Herberg

WITHOUT OBJECTION ACTION TAKEN TO:

Receive and file the Legislative Affairs Update for the month of October 2019.

STEERING COMMITTEE:

22. ORANGE COUNTY SANITATION DISTRICT'S STRATEGIC PLAN

2019-753

Originator: Rob Thompson

MOVED, SECONDED, AND DULY CARRIED TO:

A. Adopt the 2019 Strategic Plan; and

B. Direct staff to implement the goals contained in the Strategic Plan.

AYES: Brad Avery, Allan Bernstein, Doug Chaffee, Robert Collacott, James

Ferryman, Cecilia Iglesias, Peter Kim, Lucille Kring, Sandra Massa-Lavitt, Mark Murphy, Steve Nagel, Andrew Nguyen, Glenn Parker, Erik Peterson, David Shawver, Christina Shea, Jesus Silva, Fred Smith, Chad Wanke, Tom Beamish (Alternate), Stacy Berry

(Alternate), Dean Grose (Alternate) and John O'Neill (Alternate)

NOES: None

ABSENT: Phil Hawkins and John Withers

ABSTENTIONS: None

NON-CONSENT:

None.

INFORMATION ITEMS:

None.

AB 1234 DISCLOSURE REPORTS:

Director Ferryman provided information of upcoming meetings of the OCCOG and NWRI.

CLOSED SESSION:

CONVENED IN CLOSED SESSION PURSUANT TO GOVERNMENT CODE SECTIONS 54956.9(d)(4) & 54956.9(d)(1):

The Board convened in closed session at 6:37 p.m. to discuss three items. Item No. CS-3 was heard first followed by CS-1 & CS-2. Confidential minutes of the Closed Session have been prepared in accordance with the above Government Code Sections and are maintained by the Clerk of the Board in the Official Book of Confidential Minutes of Board and Committee Closed Session Meetings.

Director Wanke departed the meeting at 7:54 p.m. after CS-3 was heard.

CS-1 CONFERENCE WITH LEGAL COUNSEL RE ANTICIPATED LITIGATION - GOVERNMENT CODE SECTION 54956.9(d)(4)

2019-743

CONVENED IN CLOSED SESSION:

Number of Potential Cases: 1

Initiation of litigation regarding permittee: Aseptic Technology, LLC

CS-2 CONFERENCE WITH LEGAL COUNSEL RE ANTICIPATED LITIGATION - GOVERNMENT CODE SECTION 54956.9(d)(4)

2019-744

Director Nagel recused himself for Item No. CS-2 and departed the meeting at 7:04.

CONVENED IN CLOSED SESSION:

Number of Potential Cases: 1

Initiation of litigation regarding development fees and conditions at Project OCSD Headquarters Building: City of Fountain Valley

CS-3 CONFERENCE WITH LEGAL COUNSEL RE EXISTING LITIGATION - 2019-745 GOVERNMENT CODE SECTION 54956.9(d)(1)

CONVENED IN CLOSED SESSION:

Number of Cases: 1

Klean Waters, Inc. v. Orange County Sanitation District, United States District Court, Central District of California, Southern Division, Case No. 8:15-cv-00627.

The Board reconvened in regular session at 7:56 p.m.

<u>CONSIDERATION OF ACTION, IF ANY, ON MATTERS CONSIDERED IN CLOSED</u> SESSION:

General Counsel Brad Hogin reported on Item No. CS-1 stating that the Board voted unanimously to authorize staff and Counsel to file a lawsuit against Aseptic Technology, LLC to recover all past costs and to seize discharging to the Orange County Sanitation District.

Ayes: Brad Avery, Allan Bernstein, Doug Chaffee, Robert Collacott, James

Ferryman, Cecilia Iglesias, Peter Kim, Lucille Kring, Sandra Massa-Lavitt, Mark Murphy, Steve Nagel, Andrew Nguyen, Glenn Parker, Erik Peterson, David Shawver, Christina Shea, Jesus Silva, Fred Smith, Tom Beamish (Alternate), Stacy Berry (Alternate), Dean

Grose (Alternate) and John O'Neill (Alternate)

Noes: None

Absent: Phil Hawkins, Chad Wanke and John Withers

Abstentions: None

OTHER BUSINESS AND COMMUNICATIONS OR SUPPLEMENTAL AGENDA ITEMS, IF ANY:

Director Peterson reported on his recent trip to Washington D.C. on behalf of both the City of Huntington Beach and OCSD.

BOARD OF DIRECTORS INITIATED ITEMS FOR A FUTURE MEETING:

None.

ADJOURNMENT:

At 7:58 p.m., Chair Shawver adjourned the meeting until the Regular Meeting of the Board of Directors to be held on December 18, 2019 at 6:00 p.m.

Submitted by:

Kelly A. Lore, MMC Clerk of the Board



Orange County Sanitation District

Administration Building 10844 Ellis Avenue Fountain Valley, CA 92708 (714) 593-7433

BOARD OF DIRECTORS

Agenda Report

FROM: James D. Herberg, General Manager

Originator: Kathy Millea, Director of Engineering

SUBJECT:

PRIMARY SEDIMENTATION BASINS NO. 6-31 RELIABILITY IMPROVEMENTS AT PLANT NO. 1, PROJECT NO. P1-133

GENERAL MANAGER'S RECOMMENDATION

RECOMMENDATION:

- A. Approve the Amended Professional Design Services Agreement with Carollo Engineers, Inc. to provide engineering services for Primary Sedimentation Basins No. 6-31 Reliability Improvements at Plant No. 1, Project No. P1-133, for an amount not to exceed \$1,219,667; and
- B. Approve a contingency of \$121,967 (10%).

BACKGROUND

A Professional Design Services Agreement for Carollo Engineers, Inc. for the Primary Sedimentation Basins No. 6-31 Reliability Improvements at Plant No. 1, Project No. P1-133 was approved at the Operations Committee meeting of November 6, 2019 and at the Board of Directors meeting of November 20, 2019. Mutually agreed upon provisions to the agreement were inadvertently omitted in the version presented to the Board of Directors for approval. The amended agreement has been reviewed and approved by General Counsel.

RELEVANT STANDARDS

Comply with transparency and communication requirements, including the Brown Act

PRIOR COMMITTEE/BOARD ACTIONS

November 2019 - Approved the Professional Design Services Agreement with Carollo Engineers, Inc. to provide engineering services for Primary Sedimentation Basins No. 6-31 Reliability Improvements at Plant No. 1, Project No. P1-133, for an amount not to exceed \$1,219,667; and approved a contingency of \$121,967 (10%).

ATTACHMENT

The following attachment(s) may be viewed on-line at the OCSD website (www.ocsd.com) with the complete agenda package:

- Amended Professional Design Services Agreement
- PowerPoint Presentation Operations Committee 11/6/2019

KM:kl

PROFESSIONAL DESIGN SERVICES AGREEMENT

THIS AGREEMENT, is made and entered into to be effective the 20th day of November, 2019 by and between the ORANGE COUNTY SANITATION DISTRICT, hereinafter referred to as "SANITATION DISTRICT", and **CAROLLO ENGINEERS, INC.**, for purposes of this Agreement hereinafter referred to as "CONSULTANT".

WITNESSETH:

WHEREAS, the SANITATION DISTRICT desires to engage a CONSULTANT for **Primary Sedimentation Basins 6-31 Reliability Improvements at Plant No. 1, Project No. P1-133**; and to provide Design services for professional engineering services to prepare final specifications, plans, construction cost estimates, schedule and bid documents for the Primary Sedimentation Basins 6-31 Reliability Improvements at Plant 1, Project P1-133 as described under the Scope of Work (Attachment "A"). The Work consists of improving the scum collection system, replacing sludge pumps, replacing launders, and repairing underground foul air piping; and,

WHEREAS, CONSULTANT is qualified to provide the necessary services in connection with these requirements and has agreed to provide the necessary professional services; and,

WHEREAS, the SANITATION DISTRICT has adopted procedures for the selection of professional services and has proceeded in accordance with said procedures to select a CONSULTANT to perform this work; and,

WHEREAS, at its regular meeting on November 20, 2019 the Board of Directors, by Minute Order, accepted the recommendation of the Operations Committee to approve this Agreement between the SANITATION DISTRICT and CONSULTANT.

NOW, THEREFORE, in consideration of the promises and mutual benefits, which will result to the parties in carrying out the terms of this Agreement, it is mutually agreed as follows:

1. SCOPE OF WORK

CONSULTANT agrees to furnish necessary professional and technical services to accomplish those project elements outlined in the Scope of Work attached hereto as Attachment "A", and by this reference made a part of this Agreement.

A. The CONSULTANT shall be responsible for the professional quality, technical accuracy, completeness, and coordination of all design, drawings, specifications, and other services furnished by the CONSULTANT under this Agreement, including the work performed by its Subconsultants. Where approval by the SANITATION DISTRICT is indicated, it is understood to be conceptual approval only and does not relieve the CONSULTANT of responsibility for complying with all laws, codes, industry standards and liability for damages caused by errors, omissions, noncompliance with industry standards, and/or negligence on the part of the CONSULTANT or its Subconsultants.

- B. CONSULTANT is responsible for the quality of work prepared under this AGREEMENT and shall perform all work to the industry standards for clarify, uniformity, and completeness. CONSULTANT shall respond to all comments, suggestions, and recommendations on the SANITATION DISTRICT's review comment sheets (i.e. DS1, DS2 and DS3). All comments shall be incorporated into the design prior to the next submittal deadline or addressed, in writing, as to why the comment has not been incorporated. CONSULTANT shall ensure that each submittal is 100% accurate for the level of work submitted (i.e. correct references, terms, capitalization or equal status, spelling, punctuation, etc.)
- C. In the event that work is not performed to the satisfaction of the SANITATION DISTRICT and does not conform to the requirements of this Agreement or any applicable industry standards, the CONSULTANT shall, without additional compensation, promptly correct or revise any errors or deficiencies in its designs, drawings, specifications, or other services within the timeframe specified by the Project Engineer/Project Manager. The SANITATION DISTRICT may charge to CONSULTANT all costs, expenses and damages associated with any such corrections or revisions.
- D. All CAD drawings, figures, and other work shall be produced by CONSULTANTS and Subconsultants using the SANITATION DISTRICT CAD Manual. Conversion of CAD work from any other non-standard CAD format to the SANITATION DISTRICT format shall not be acceptable in lieu of this requirement.

Electronic files shall conform to the SANITATION DISTRICT specifications. Any changes to these specifications by the CONSULTANT are subject to review and approval of the SANITATION DISTRICT.

Electronic files shall be subject to an acceptance period of 30 calendar days during which the SANITATION DISTRICT shall perform appropriate reviews and including CAD Manual compliance. CONSULTANT shall correct any discrepancies or errors detected and reported within the acceptance period at no additional cost to the SANITATION DISTRICT.

E. The CONSULTANT shall ensure that all plans and specifications prepared, or recommended under this Agreement allow for competitive bidding. The CONSULTANT shall design such plans or specifications so that procurement of services, labor or materials are not available from only one source, and shall not design plans and specifications around a single or specific product, piece of major equipment or machinery, a specific patented design or a proprietary process, unless required by principles of sound engineering practice and supported by a written justification that has been approved in writing by the SANITATION DISTRICT. The CONSULTANT shall submit this written justification to the SANITATION DISTRICT prior to beginning work on such plans and specifications. Whenever the CONSULTANT recommends a specific product or equipment for competitive procurement, such recommendation shall include at least two brand names of products that are capable of meeting the functional requirements applicable to the project.

F. All professional services performed by the CONSULTANT, including but not limited to all drafts, data, correspondence, proposals, reports, and estimates compiled or composed by the CONSULTANT, pursuant to this Agreement, are for the sole use of the SANITATION DISTRICT, its agents and employees. Neither the documents nor their contents shall be released to any third party without the prior written consent of the SANITATION DISTRICT. This provision does not apply to information that (a) was publicly known, or otherwise known to the CONSULTANT, at the time that it was disclosed to the CONSULTANT by the SANITATION DISTRICT, (b) subsequently becomes publicly known to the CONSULTANT other than through disclosure by the SANITATION DISTRICT.

2. COMPENSATION

Total compensation shall be paid to CONSULTANT for services in accordance with the following provisions:

A. Total Compensation

Total compensation shall be in an amount not to exceed **One Million Two Hundred Nineteen Thousand Six Hundred Sixty-seven Dollars (\$1,219,667)**. Total compensation to CONSULTANT including burdened labor (salaries plus benefits), overhead, profit, direct costs, and Subconsultant(s) fees and costs shall not exceed the sum set forth in Attachment "E" - Fee Proposal.

B. Labor

As a portion of the total compensation to be paid to CONSULTANT, the SANITATION DISTRICT shall pay to CONSULTANT a sum equal to the burdened salaries (salaries plus benefits) actually paid by CONSULTANT charged on an hourly-rate basis to this project and paid to the personnel of CONSULTANT. Upon request of the SANITATION DISTRICT, CONSULTANT shall provide the SANITATION DISTRICT with certified payroll records of all employees' work that is charged to this project.

C. Overhead

As a portion of the total compensation to be paid to CONSULTANT, the SANITATION DISTRICT shall compensate CONSULTANT and Subconsultants for overhead at the rate equal to the percentage of burdened labor as specified in Attachment "E" - Fee Proposal.

D. Profit

Profit for CONSULTANT and Subconsultants shall be a percentage of consulting services fees (Burdened Labor and Overhead). When the consulting or subconsulting services amount is \$250,000 or less, the maximum Profit shall be 10%. Between \$250,000 and \$2,500,000, the maximum Profit shall be limited by a straight declining percentage between 10% and 5%. For consulting or subconsulting services fees with a value greater than \$2,500,000, the maximum

Profit shall be 5%. Addenda shall be governed by the same maximum Profit percentage after adding consulting services fees.

As a portion of the total compensation to be paid to CONSULTANT and Subconsultants, the SANITATION DISTRICT shall pay profit for all services rendered by CONSULTANT and Subconsultants for this project according to Attachment "E" - Fee Proposal.

E. Subconsultants

For any Subconsultant whose fees for services are greater than or equal to \$100,000 (excluding out-of-pocket costs), CONSULTANT shall pay to Subconsultant total compensation in accordance with the Subconsultant amount specified in Attachment "E" - Fee Proposal.

The SANITATION DISTRICT shall pay to CONSULTANT the actual costs of Subconsultant fees and charges in an amount not to exceed the sum set forth in Attachment "E" - Fee Proposal.

F. Direct Costs

The SANITATION DISTRICT shall pay to CONSULTANT and Subconsultants the actual costs of permits and associated fees, travel and licenses for an amount not to exceed the sum set forth in Attachment "E" - Fee Proposal. The SANITATION DISTRICT shall also pay to CONSULTANT actual costs for equipment rentals, leases or purchases with prior approval of the SANITATION DISTRICT. Upon request, CONSULTANT shall provide to the SANITATION DISTRICT receipts and other documentary records to support CONSULTANT's request for reimbursement of these amounts, see Attachment "D" - Allowable Direct Costs. All incidental expenses shall be included in overhead pursuant to Section 2 - COMPENSATION above.

G. Other Direct Costs

Other Direct Costs incurred by CONSULTANT and its Contractor due to modifications in scope of work resulting from field investigations and field work required by Contract. These items may include special equipment, test equipment and tooling and other materials and services not previously identified. Refer to attachment "D" Allowable Direct Costs for payment information.

H. Reimbursable Direct Costs

The SANITATION DISTRICT will reimburse the CONSULTANT for reasonable travel and business expenses as described in this section and further described in Attachment "D" - Allowable Direct Costs to this Agreement. The reimbursement of the above mentioned expenses will be based on an "accountable plan" as considered by Internal Revenue Service (IRS). The plan includes a combination of reimbursements based upon receipts and a "per diem" component approved by IRS. The most recent schedule of the per diem rates utilized by the SANITATION DISTRICT can be found on the U.S. General Service Administration website at http://www.gsa.gov/portal/category/104711#.

The CONSULTANT shall be responsible for the most economical and practical means of management of reimbursable costs inclusive but not limited to travel, lodging and meals arrangements. The SANITATION DISTRICT shall apply the most economic and practical method of reimbursement which may include reimbursements based upon receipts and/or "per diem" as deemed the most practical.

CONSULTANT shall be responsible for returning to the SANITATION DISTRICT any excess reimbursements after the reimbursement has been paid by the SANITATION DISTRICT.

Travel and travel arrangements – Any travel involving airfare, overnight stays or multiple day attendance must be approved by the SANITATION DISTRICT in advance.

Local Travel is considered travel by the CONSULTANT within the SANITATION DISTRICT general geographical area which includes Orange, Los Angeles, Ventura, San Bernardino, Riverside, San Diego, Imperial and Kern Counties. Automobile mileage is reimbursable if CONSULTANT is required to utilize personal vehicle for local travel.

Lodging – Overnight stays will not be approved by the SANITATION DISTRICT for local travel. However, under certain circumstances overnight stay may be allowed at the discretion of the SANITATION DISTRICT based on reasonableness of meeting schedules and the amount of time required for travel by the CONSULTANT. Such determination will be made on a case-by-case basis and at the discretion of the SANITATION DISTRICT.

Travel Meals – Per-diem rates as approved by IRS shall be utilized for travel meal reimbursements. Per diem rates shall be applied to meals that are appropriate for travel times. Receipts are not required for the approved meals.

Additional details related to the reimbursement of the allowable direct costs are provided in the Attachment "D" - Allowable Direct Costs of this Agreement.

I. Limitation of Costs

If, at any time, CONSULTANT estimates the cost of performing the services described in CONSULTANT's Proposal will exceed seventy-five percent (75%) of the not-to-exceed amount of the Agreement, including approved additional compensation, CONSULTANT shall notify the SANITATION DISTRICT immediately, and in writing. This written notice shall indicate the additional amount necessary to complete the services. Any cost incurred in excess of the approved not-to-exceed amount, without the express written consent of the SANITATION DISTRICT's authorized representative shall be at CONSULTANT's own risk. This written notice shall be provided separately from, and in addition to any notification requirements contained in the CONSULTANT's invoice and monthly progress report. Failure to notify the SANITATION DISTRICT that the services cannot be completed within the authorized not-to-exceed amount is a material breach of this Agreement.

3. REALLOCATION OF TOTAL COMPENSATION

The SANITATION DISTRICT, by its Director of Engineering, shall have the right to approve a reallocation of the incremental amounts constituting the total compensation, provided that the total compensation is not increased.

4. PAYMENT

- A. Monthly Invoice: CONSULTANT shall include in its monthly invoice, a detailed breakdown of costs associated with the performance of any corrections or revisions of the work for that invoicing period. CONSULTANT shall allocate costs in the same manner as it would for payment requests as described in this Section of the Agreement. CONSULTANT shall warrant and certify the accuracy of these costs and understand that submitted costs are subject to Section 11 AUDIT PROVISIONS.
- B. CONSULTANT may submit monthly or periodic statements requesting payment for those items included in Section 2 COMPENSATION hereof in the format as required by the SANITATION DISTRICT. Such requests shall be based upon the amount and value of the work and services performed by CONSULTANT under this Agreement and shall be prepared by CONSULTANT and accompanied by such supporting data, including a detailed breakdown of all costs incurred and project element work performed during the period covered by the statement, as may be required by the SANITATION DISTRICT.

Upon approval of such payment request by the SANITATION DISTRICT, payment shall be made to CONSULTANT as soon as practicable of one hundred percent (100%) of the invoiced amount on a per-project-element basis.

If the SANITATION DISTRICT determines that the work under this Agreement or any specified project element hereunder, is incomplete and that the amount of payment is in excess of:

- The amount considered by the SANITATION DISTRICT's Director of Engineering to be adequate for the protection of the SANITATION DISTRICT; or
- ii. The percentage of the work accomplished for each project element.

He may, at his discretion, retain an amount equal to that which insures that the total amount paid to that date does not exceed the percentage of the completed work for each project element or the project in its entirety.

C. CONSULTANT may submit periodic payment requests for each 30-day period of this Agreement for the profit as set forth in Section 2 - COMPENSATION above. Said profit payment request shall be proportionate to the work actually accomplished to date on a per-project-element basis. In the event the SANITATION DISTRICT's Director of Engineering determines that no satisfactory progress has been made since the prior payment, or in the event of a delay in the work progress for any reason, the SANITATION DISTRICT shall have the right to withhold any scheduled proportionate profit payment.

- D. Upon satisfactory completion by CONSULTANT of the work called for under the terms of this Agreement, and upon acceptance of such work by the SANITATION DISTRICT, CONSULTANT will be paid the unpaid balance of any money due for such work, including any retained percentages relating to this portion of the work.
- E. Upon satisfactory completion of the work performed hereunder and prior to final payment under this Agreement for such work, or prior settlement upon termination of this Agreement, and as a condition precedent thereto, CONSULTANT shall execute and deliver to the SANITATION DISTRICT a release of all claims against the SANITATION DISTRICT arising under or by virtue of this Agreement other than such claims, if any, as may be specifically exempted by CONSULTANT from the operation of the release in stated amounts to be set forth therein.
- F. Pursuant to the California False Claims Act (Government Code Sections 12650-12655), any CONSULTANT that knowingly submits a false claim to the SANITATION DISTRICT for compensation under the terms of this Agreement may be held liable for treble damages and up to a ten thousand dollars (\$10,000) civil penalty for each false claim submitted. This Section shall also be binding on all Subconsultants.

A CONSULTANT or Subconsultant shall be deemed to have submitted a false claim when the CONSULTANT or Subconsultant: a) knowingly presents or causes to be presented to an officer or employee of the SANITATION DISTRICT a false claim or request for payment or approval; b) knowingly makes, uses, or causes to be made or used a false record or statement to get a false claim paid or approved by the SANITATION DISTRICT; c) conspires to defraud the SANITATION DISTRICT; d) knowingly makes, uses, or causes to be made or used a false record or statement to conceal, avoid, or decrease an obligation to the SANITATION DISTRICT; or e) is a beneficiary of an inadvertent submission of a false claim to the SANITATION DISTRICT, and fails to disclose the false claim to the SANITATION DISTRICT within a reasonable time after discovery of the false claim.

5. CALIFORNIA DEPARTMENT OF INDUSTRIAL RELATIONS (DIR) REGISTRATION AND RECORD OF WAGES

- A. To the extent CONSULTANT's employees and/or Subconsultants who will perform Work during the design and preconstruction phases of a construction contract for which Prevailing Wage Determinations have been issued by the DIR and as more specifically defined under Labor Code Section 1720 et seq, CONSULTANT and Subconsultants shall comply with the registration requirements of Labor Code Section 1725.5. Pursuant to Labor Code Section 1771.4, the Work is subject to compliance monitoring and enforcement by the DIR.
- B. The CONSULTANT and Subconsultants shall maintain accurate payroll records and shall comply with all the provisions of Labor Code Section 1776, and shall submit payroll records to the Labor Commissioner pursuant to Labor Code Section 1771.4(a)(3). Penalties for non-compliance with the requirements of Section 1776 may be deducted from progress payments per Section 1776.

- C. Pursuant to Labor Code Section 1776, the CONSULTANT and Subconsultants shall furnish a copy of all certified payroll records to the SANITATION DISTRICT and/or general public upon request, provided the public request is made through the SANITATION DISTRICT, the Division of Apprenticeship Standards or the Division of Labor Enforcement of the Department of Industrial Relations.
- D. The CONSULTANT and Subconsultants shall comply with the job site notices posting requirements established by the Labor Commissioner per Title 8, California Code of Regulation Section 16461(e).

6. DOCUMENT OWNERSHIP – SUBSEQUENT CHANGES TO PLANS AND SPECIFICATIONS

A. Ownership of Documents for the Professional Services performed.

All documents, including but not limited to, original plans, studies, sketches, drawings, computer printouts and disk files, and specifications prepared in connection with or related to the Scope of Work or Professional Services, shall be the property of the SANITATION DISTRICT. The SANITATION DISTRICT's ownership of these documents includes use of, reproduction or reuse of and all incidental rights, whether or not the work for which they were prepared has been performed. The SANITATION DISTRICT ownership entitlement arises upon payment or any partial payment for work performed and includes ownership of any and all work product completed prior to that payment. This Section shall apply whether the CONSULTANT's Professional Services are terminated: a) by the completion of the Agreement, or b) in accordance with other provisions of this Agreement. Notwithstanding any other provision of this paragraph or Agreement, the CONSULTANT shall have the right to make copies of all such plans, studies, sketches, drawings, computer printouts and disk files, and specifications.

B. CONSULTANT shall not be responsible for damage caused by subsequent changes to or uses of the plans or specifications, where the subsequent changes or uses are not authorized or approved by CONSULTANT, provided that the service rendered by CONSULTANT was not a proximate cause of the damage.

The SANITATION DISTRICT shall furnish the CONSULTANT available studies, reports and other data pertinent to the CONSULTANT's services; obtain or authorize the CONSULTANT to obtain or provide additional reports and data as required; furnish to the CONSULTANT services of others required for the performance of the CONSULTANT's services hereunder, and the CONSULTANT shall be entitled to use and rely upon all such information and services provided by the SANITATION DISTRICT or others in performing the CONSULTANT's services under this AGREEMENT.

7. INSURANCE

A. General

i. Insurance shall be issued and underwritten by insurance companies acceptable to the SANITATION DISTRICT.

- ii. Insurers must have an "A-" Policyholder's Rating, or better, and Financial Rating of at least Class VIII, or better, in accordance with the most current A.M. Best's Guide Rating. However, the SANITATION DISTRICT will accept State Compensation Insurance Fund, for the required policy of Worker's Compensation Insurance subject to the SANITATION DISTRICT's option to require a change in insurer in the event the State Fund financial rating is decreased below "B". Further, the SANITATION DISTRICT will require CONSULTANT to substitute any insurer whose rating drops below the levels herein specified. Said substitution shall occur within twenty (20) days of written notice to CONSULTANT, by the SANITATION DISTRICT or its agent.
- iii. Coverage shall be in effect prior to the commencement of any work under this Agreement.

B. General Liability

The CONSULTANT shall maintain during the life of this Agreement, including the period of warranty, Commercial General Liability Insurance written on an occurrence basis providing the following minimum limits of liability coverage: Two Million Dollars (\$2,000,000) per occurrence with Two Million Dollars (\$2,000,000) aggregate. Said insurance shall include coverage for the following hazards: Premises-Operations, blanket contractual liability (for this Agreement), products liability/completed operations (including any product manufactured or assembled), broad form property damage, blanket contractual liability. independent contractors liability, personal and advertising injury, mobile equipment, owners and contractors protective liability, and cross liability and severability of interest clauses. A statement on an insurance certificate will not be accepted in lieu of the actual additional insured endorsement(s). If requested by SANITATION DISTRICT and applicable, XCU coverage (Explosion, Collapse and Underground) and Riggers/On Hook Liability must be included in the General Liability policy and coverage must be reflected on the submitted Certificate of Insurance.

C. Umbrella Excess Liability

The minimum limits of general liability and Automotive Liability Insurance required, as set forth herein, shall be provided for through either a single policy of primary insurance or a combination of policies of primary and umbrella excess coverage. Umbrella excess liability coverage shall be issued with limits of liability which, when combined with the primary insurance, will equal the minimum limits for general liability and automotive liability.

D. Automotive/Vehicle Liability Insurance

The CONSULTANT shall maintain a policy of Automotive Liability Insurance on a comprehensive form covering all owned, non-owned, and hired automobiles, trucks, and other vehicles providing the following minimum limits of liability coverage: Combined single limit of One Million Dollars (\$1,000,000) or alternatively, One Million Dollars (\$1,000,000) per person for bodily injury and

One Million Dollars (\$1,000,000) per accident for property damage. A statement on an insurance certificate will not be accepted in lieu of the actual additional insured endorsement.

E. Drone Liability Insurance

If a drone will be used, drone liability insurance must be maintained by CONSULTANT in the amount of one million dollars (\$1,000,000) in form acceptable to the SANITATION DISTRICT.

F. Worker's Compensation Insurance

The CONSULTANT shall provide such Workers' Compensation Insurance as required by the Labor Code of the State of California in the amount of the statutory limit, including Employer's Liability Insurance with a minimum limit of One Million Dollars (\$1,000,000) per occurrence. Such Worker's Compensation Insurance shall be endorsed to provide for a waiver of subrogation in favor of the SANITATION DISTRICT. A statement on an insurance certificate will not be accepted in lieu of the actual endorsements unless the insurance carrier is State of California Insurance Fund and the identifier "SCIF" and endorsement numbers 2570 and 2065 are referenced on the certificate of insurance. If an exposure to Jones Act liability may exist, the insurance required herein shall include coverage for Jones Act claims.

G. Errors and Omissions/Professional Liability

CONSULTANT shall maintain in full force and effect, throughout the term of this Agreement, standard industry form professional negligence errors and omissions insurance coverage in an amount of not less than One Million Dollars (\$1,000,000) with limits in accordance with the provisions of this Paragraph. If the policy of insurance is written on a "claims made" basis, said policy shall be continued in full force and effect at all times during the term of this Agreement, and for a period of five (5) years from the date of the completion of the services hereunder.

In the event of termination of said policy during this period, CONSULTANT shall obtain continuing insurance coverage for the prior acts or omissions of CONSULTANT during the course of performing services under the term of this Agreement. Said coverage shall be evidenced by either a new policy evidencing no gap in coverage or by separate extended "tail" coverage with the present or new carrier.

In the event the present policy of insurance is written on an "occurrence" basis, said policy shall be continued in full force and effect during the term of this Agreement or until completion of the services provided for in this Agreement, whichever is later. In the event of termination of said policy during this period, new coverage shall be obtained for the required period to insure for the prior acts of CONSULTANT during the course of performing services under the term of this Agreement.

CONSULTANT shall provide to the SANITATION DISTRICT a certificate of insurance in a form acceptable to the SANITATION DISTRICT indicating the deductible or self-retention amounts and the expiration date of said policy, and shall provide renewal certificates not less than ten (10) days prior to the expiration of each policy term.

H. Proof of Coverage

The CONSULTANT shall furnish the SANITATION DISTRICT with original certificates and amendatory endorsements effecting coverage. Said policies and endorsements shall conform to the requirements herein stated. All certificates and endorsements are to be received and approved by the SANITATION DISTRICT before work commences. The SANITATION DISTRICT reserves the right to require complete, certified copies of all required insurance policies, including endorsements, effecting the coverage required, at any time. The following are approved forms that must be submitted as proof of coverage:

•	Certificate of Insurance	ACORD Form 25	(5/2010)) or equivalent.
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•	Additional Insurance
	(General Liability)

(ISO Form) CG2010 11 85 or

The combination of (ISO Forms) CG 2010 10 01 and CG 2037 10 01

All other Additional Insured endorsements must be submitted for approval by the SANITATION DISTRICT, and the SANITATION DISTRICT may reject alternatives that provide different or less coverage to the SANITATION DISTRICT.

 Additional Insured (Auto Liability) Submit endorsement provided by carrier for the

SANITATION DISTRICT approval.

Waiver of Subrogation

State Compensation Insurance Fund Endorsement No. 2570 or equivalent.

Cancellation Notice

State Compensation Insurance Fund Endorsement No. 2065 or equivalent.

I. Cancellation Notice

Each insurance policy required herein shall be endorsed to state that coverage shall not be cancelled by either party, except after thirty (30) days' prior written notice. The Cancellation Section of ACORD Form 25 (5/2010) shall state the required thirty (30) days' written notification. The policy shall not terminate, nor shall it be cancelled, nor the coverage reduced until thirty (30) days after written notice is given to the SANITATION DISTRICT except for nonpayment of premium, which shall require not less than ten (10) days written notice to the SANITATION DISTRICT. Should there be changes in coverage or an increase in deductible or SIR amounts, the CONSULTANT and its insurance broker/agent shall send to the SANITATION DISTRICT a certified letter which includes a description of the changes in coverage and/or any increase in deductible or SIR amounts. The certified letter must be sent to the attention of Risk Management,

and shall be received by the SANITATION DISTRICT not less than thirty (30) days prior to the effective date of the change(s) if the change would reduce coverage or increase deductibles or SIR amounts or otherwise reduce or limit the scope of insurance coverage provided to the SANITATION DISTRICT.

J. Primary Insurance

All liability policies shall contain a Primary and Non Contributory Clause. Any other insurance maintained by the SANITATION DISTRICT shall be excess and not contributing with the insurance provided by CONSULTANT.

K. Separation of Insured

All liability policies shall contain a "Separation of Insureds" clause.

L. Non-Limiting (if applicable)

Nothing in this document shall be construed as limiting in any way, nor shall it limit the indemnification provision contained in this Agreement, or the extent to which CONSULTANT may be held responsible for payment of damages to persons or property.

M. Deductibles and Self-Insured Retentions

Any deductible and/or self-insured retention must be declared to the SANITATION DISTRICT on the Certificate of Insurance. All deductibles and/or self-insured retentions require approval by the SANITATION DISTRICT. At the option of the SANITATION DISTRICT, either: the insurer shall reduce or eliminate such deductible or self-insured retention as respects the SANITATION

DISTRICT; or the CONSULTANT shall provide a financial guarantee satisfactory to the SANITATION DISTRICT guaranteeing payment of losses and related investigations, claim administration and defense expenses.

N. Defense Costs

Liability policies shall have a provision that defense costs for all insureds and additional insureds are paid in addition to and do not deplete any policy limits.

O. Subconsultants

The CONSULTANT shall be responsible to establish insurance requirements for any Subconsultant hired by the CONSULTANT. The insurance shall be in amounts and types reasonably sufficient to deal with the risk of loss involving the Subconsultant's operations and work.

P. Limits Are Minimums

If the CONSULTANT maintains higher limits than any minimums shown above, the SANITATION DISTRICT requires and shall be entitled to coverage for the higher limits maintained by CONSULTANT.

8. SCOPE CHANGES

In the event of a change in the Scope of Work, requested by SANITATION DISTRICT, the parties hereto shall execute an amendment to this Agreement setting forth with particularity all terms of the new Agreement, including but not limited to any additional CONSULTANT's fees.

9. PROJECT TEAM AND SUBCONSULTANTS

CONSULTANT shall provide to SANITATION DISTRICT, prior to execution of this Agreement, the names and full description of all Subconsultants and CONSULTANT's project team members anticipated to be used on this project by CONSULTANT. CONSULTANT shall include a description of the scope of work to be done by each Subconsultant and each CONSULTANT's project team member. CONSULTANT shall include the respective compensation amounts for CONSULTANT and each Subconsultant on a per-project-element basis, broken down as indicated in Section 2 - COMPENSATION.

There shall be no substitution of the listed Subconsultants and CONSULTANT's project team members without prior written approval by the SANITATION DISTRICT.

10. ENGINEERING REGISTRATION

The CONSULTANT's personnel are comprised of registered engineers and a staff of specialists and draftsmen in each department. The firm itself is not a registered engineer but represents and agrees that wherever in the performance of this Agreement requires the services of a registered engineer, such services hereunder will be performed under the direct supervision of registered engineers.

11. AUDIT PROVISIONS

- A. SANITATION DISTRICT retains the reasonable right to access, review, examine, and audit, any and all books, records, documents and any other evidence of procedures and practices that the SANITATION DISTRICT determines are necessary to discover and verify that the CONSULTANT is in compliance with all requirements under this Agreement. The CONSULTANT shall include the SANITATION DISTRICT's right as described above, in any and all of their subcontracts, and shall ensure that these rights are binding upon all Subconsultants.
- B. SANITATION DISTRICT retains the right to examine CONSULTANT's books, records, documents and any other evidence of procedures and practices that the SANITATION DISTRICT determines are necessary to discover and verify all direct and indirect costs, of whatever nature, which are claimed to have been incurred, or anticipated to be incurred or to ensure CONSULTANT's compliance with all requirements under this Agreement during the term of this Agreement and for a period of three (3) years after its termination.
- C. CONSULTANT shall maintain complete and accurate records in accordance with generally accepted industry standard practices and the SANITATION DISTRICT's policy. The CONSULTANT shall make available to the

SANITATION DISTRICT for review and audit, all project related accounting records and documents, and any other financial data within 15 days after receipt of notice from the SANITATION DISTRICT. Upon SANITATION DISTRICT's request, the CONSULTANT shall submit exact duplicates of originals of all requested records to the SANITATION DISTRICT. If an audit is performed, CONSULTANT shall ensure that a qualified employee of the CONSULTANT will

be available to assist SANITATION DISTRICT's auditor in obtaining all project related accounting records and documents, and any other financial data.

12. LEGAL RELATIONSHIP BETWEEN PARTIES

The legal relationship between the parties hereto is that of an independent contractor and nothing herein shall be deemed to make CONSULTANT an employee of the SANITATION DISTRICT.

13. NOTICES

All notices hereunder and communications regarding the interpretation of the terms of this Agreement, or changes thereto, shall be effected by delivery of said notices in person or by depositing said notices in the U.S. mail, registered or certified mail, return receipt requested, postage prepaid.

Notices shall be mailed to the SANITATION DISTRICT at:

ORANGE COUNTY SANITATION DISTRICT 10844 Ellis Avenue Fountain Valley, CA 92708-7018 Attention: Clarice Marcin, Senior Contracts Administrator Copy: Victoria Pilko, Project Manager

Notices shall be mailed to CONSULTANT at:

Carollo Engineers, Inc. 3150 Bristol Street Suite 500 Costa Mesa, CA 92626 Attn: Rajesh Doppalapudi, PE

All communication regarding the Scope of Work, will be addressed to the Project Manager. Direction from other SANITATION DISTRICT's staff must be approved in writing by the SANITATION DISTRICT's Project Manager prior to action from the CONSULTANT.

14. TERMINATION

The SANITATION DISTRICT may terminate this Agreement at any time, without cause, upon giving thirty (30) days written notice to CONSULTANT. In the event of such termination, CONSULTANT shall be entitled to compensation for work performed on a prorated basis through and including the effective date of termination.

CONSULTANT shall be permitted to terminate this Agreement upon thirty (30) days written notice only if CONSULTANT is not compensated for billed amounts in accordance with the provisions of this Agreement, when the same are due.

Notice of termination shall be mailed to the SANITATION DISTRICT and/or CONSULTANT in accordance with Section 13 - NOTICES.

15. DOCUMENTS AND STUDY MATERIALS

The documents and study materials for this project shall become the property of the SANITATION DISTRICT upon the termination or completion of the work. CONSULTANT agrees to furnish to the SANITATION DISTRICT copies of all memoranda, correspondence, computation and study materials in its files pertaining to the work described in this Agreement, which is requested in writing by the SANITATION DISTRICT.

16. COMPLIANCE

CONSULTANT certifies by the execution of this Agreement that it pays employees not less than the minimum wage as defined by law, and that it does not discriminate in its employment with regard to race, color, religion, sex or national origin; that it is in compliance with all federal, state and local directives and executive orders regarding non-discrimination in employment; and that it agrees to demonstrate positively and aggressively the principle of equal opportunity in employment.

17. AGREEMENT EXECUTION AUTHORIZATION

Both the SANITATION DISTRICT and CONSULTANT do covenant that each individual executing this document by and on behalf of each party is a person duly authorized to execute agreements for that party.

18. DISPUTE RESOLUTION

In the event of a dispute arising between the parties regarding performance or interpretation of this Agreement, the dispute shall be resolved by binding arbitration under the auspices of the Judicial Arbitration and Mediation Service ("JAMS"), or similar organization or entity conducting alternate dispute resolution services.

19. ATTORNEY'S FEES, COSTS AND NECESSARY DISBURSEMENTS

If any action at law or in equity or if any proceeding in the form of an Alternative Dispute Resolution (ADR) is necessary to enforce or interpret the terms of this Agreement, the prevailing party shall be entitled to reasonable attorney's fees, costs and necessary disbursements in addition to any other relief to which it may be entitled.

20. PROGRESS REPORTS

Monthly progress reports shall be submitted for review by the tenth day of the following month and must include as a minimum: 1) current activities, 2) future activities, 3) potential items that are not included in the Scope of Work, 4) concerns and possible delays, 5) percentage of completion, and 6) budget status.

21. WARRANTY

CONSULTANT shall perform its services in accordance with generally accepted industry and professional standards. If, within the 12-month period following completion of its services, the SANITATION DISTRICT informs CONSULTANT that any part of the services fails to meet those standards, CONSULTANT shall, within the time prescribed

by the SANITATION DISTRICT, take all such actions as are necessary to correct or complete the noted deficiency(ies).

22. INDEMNIFICATION

To the fullest extent permitted by law, CONSULTANT shall indemnify, defend (at CONSULTANT's sole cost and expense and with legal counsel approved by the SANITATION DISTRICT, which approval shall not be unreasonably withheld), protect and hold harmless the SANITATION DISTRICT and all of SANITATION DISTRICT's officers, directors, employees, CONSULTANT's, and agents (collectively the "Indemnified Parties"), from and against any and all claims, damages, liabilities, causes of action, suits, arbitration awards, losses, judgments, fines, penalties, costs and expenses (including, without limitation, attorneys' fees, disbursements and court costs, and all other professional, expert or CONSULTANT's fees and costs and the SANITATION DISTRICT's general and administrative expenses; individually, a "Claim"; collectively, "Claims") which may arise from or are in any manner related, directly or indirectly, to any work performed, or any operations, activities, or services provided by CONSULTANT in carrying out its obligations under this Agreement to the extent of the negligent, recklessness and/or willful misconduct of CONSULTANT, its principals, officers, agents, employees, CONSULTANT's suppliers, CONSULTANT, Subconsultants, subcontractors, and/or anyone employed directly or indirectly by any of them, regardless of any contributing negligence or strict liability of an Indemnified Party. Notwithstanding the foregoing, nothing herein shall be construed to require CONSULTANT to indemnify the Indemnified Parties from any Claim arising solely from:

- (A) the active negligence or willful misconduct of the Indemnified Parties; or
- (B) a natural disaster or other act of God, such as an earthquake; or
- (C) the independent action of a third party who is neither one of the Indemnified Parties nor the CONSULTANT, nor its principal, officer, agent, employee, nor CONSULTANT's supplier, CONSULTANT, Subconsultant, subcontractor, nor anyone employed directly or indirectly by any of them.

Exceptions (A) through (B) above shall not apply, and CONSULTANT shall, to the fullest extent permitted by law, indemnify the Indemnified Parties, from Claims arising from more than one cause if any such cause taken alone would otherwise result in the obligation to indemnify hereunder.

CONSULTANT's liability for indemnification hereunder is in addition to any liability CONSULTANT may have to the SANITATION DISTRICT for a breach by CONSULTANT of any of the provisions of this Agreement. Under no circumstances shall the insurance requirements and limits set forth in this Agreement be construed to limit CONSULTANT's indemnification obligation or other liability hereunder. The terms

of this Agreement are contractual and the result of negotiation between the parties hereto. Accordingly, any rule of construction of contracts (including, without limitation, California Civil Code Section 1654) that ambiguities are to be construed against the drafting party, shall not be employed in the interpretation of this Agreement.

23. DUTY TO DEFEND

The duty to defend hereunder is wholly independent of and separate from the duty to indemnify and such duty to defend shall exist regardless of any ultimate liability of CONSULTANT and shall be consistent with Civil Code Section 2782.8. Such defense obligation shall arise immediately upon presentation of a Claim by any person if, without regard to the merit of the Claim, such Claim could potentially result in an obligation to indemnify one or more Indemnified Parties, and upon written notice of such Claim being provided to CONSULTANT. Payment to CONSULTANT by any Indemnified Party or the payment or advance of defense costs by any Indemnified Party shall not be a condition precedent to enforcing such Indemnified Party's rights to indemnification hereunder. In the event a final judgment, arbitration, award, order, settlement, or other final resolution expressly determines that the claim did not arise out of, pertain to, or relate to the negligence, recklessness, or willful misconduct of the CONSULTANT, to any extent, then the SANITATION DISTRICT will reimburse CONSULTANT for the reasonable costs of defending the Indemnified Parties against such claims.

CONSULTANT's indemnification obligation hereunder shall survive the expiration or earlier termination of this Agreement until such time as action against the Indemnified Parties for such matter indemnified hereunder is fully and finally barred by the applicable statute of limitations.

24. CONSULTANT PERFORMANCE

The CONSULTANT's performance shall be evaluated by the SANITATION DISTRICT. A copy of the evaluation shall be sent to the CONSULTANT for comment. The evaluation, together with the comments, shall be retained by the SANITATION DISTRICT and may be considered in future CONSULTANT selection processes.

25. COMPLIANCE WITH SANITATION DISTRICT POLICIES AND PROCEDURES

CONSULTANT shall comply with all SANITATION DISTRICT policies and procedures including the OCSD Safety Standards, as applicable, all of which may be amended from time to time.

26. CLOSEOUT

When the SANITATION DISTRICT determines that all Work authorized under the Agreement is fully complete and that the SANITATION DISTRICT requires no further work from CONSULTANT, or the Agreement is otherwise terminated or expires in accordance with the terms of the Agreement, the SANITATION DISTRICT shall give the Consultant written notice that the Agreement will be closed out. CONSULTANT shall submit all outstanding billings, work submittals, deliverables, reports or similarly related documents as required under the Agreement within thirty (30) days of receipt of notice of Agreement closeout.

Upon receipt of CONSULTANT's submittals, the SANITATION DISTRICT shall commence a closeout audit of the Agreement and will either:

- i. Give the CONSULTANT a final Agreement Acceptance: or
- ii. Advise the CONSULTANT in writing of any outstanding item or items which must be furnished, completed, or corrected at the CONSULTANT's cost.

CONSULTANT shall be required to provide adequate resources to fully support any administrative closeout efforts identified in this Agreement. Such support must be provided within the timeframe requested by the SANITATION DISTRICT.

Notwithstanding the final Agreement Acceptance the CONSULTANT will not be relieved of its obligations hereunder, nor will the CONSULTANT be relieved of its obligations to complete any portions of the work, the non-completion of which were not disclosed to the SANITATION DISTRICT (regardless of whether such nondisclosures were fraudulent, negligent, or otherwise); and the CONSULTANT shall remain obligated under all those provisions of the Agreement which expressly or by their nature extend beyond and survive final Agreement Acceptance.

Any failure by the SANITATION DISTRICT to reject the work or to reject the CONSULTANT's request for final Agreement Acceptance as set forth above shall not be deemed to be acceptance of the work by the SANITATION DISTRICT for any purpose nor imply acceptance of, or agreement with, the CONSULTANT's request for final Agreement Acceptance.

27. COST ESTIMATES

The CONSULTANT has no control over the cost of labor, materials, equipment or services furnished by others, or over the construction contractor's methods of determining prices, or other competitive bidding or market conditions, practices or bidding strategies. CONSULTANT shall use best engineering practices along with experience and judgment, utilizing current local costs of labor, materials, equipment or services to prepare cost estimates. CONSULTANT cannot and does not guarantee that proposals, bids, actual Project construction, operation and/or lifecycle costs wil not vary from cost estimates prepared by CONSULTANT.

28. THIRD PARTIES

This Agreement is entered into by and for the SANITATION DISTRICT and the CONSULTANT, and nothing herein is intended to establish rights or interests in individuals or entities not a party hereto.

29. ENTIRE AGREEMENT

This Agreement constitutes the entire understanding and agreement between the Parties and supersedes all previous negotiations between them pertaining to the subject matter thereof.

IN WITNESS WHEREOF, this Agreement has been executed in the name of the SANITATION DISTRICT, by its officers thereunto duly authorized, and CONSULTANT as of the day and year first above written.

CAROLLO ENGINEERS, INC.

	Ву		
	ŕ		Date
		Printed Name & Title	
	OR	ANGE COUNTY SANITATION DISTRICT	
	Ву		
	·	David John Shawver Board Chairman	Date
	Ву		
		Kelly A. Lore Clerk of the Board	Date
	Bv		
	·	Ruth Zintzun Purchasing & Contracts Manager	Date
Attachments:	Attachment "A" Attachment "B" Attachment "C" Attachment "D" Attachment "E" Attachment "F" Attachment "G" Attachment "H" Attachment "I" Attachment "J" Attachment "K" Attachment "K" Attachment "K"	Scope of Work Not Used Not Attached Allowable Direct Costs Fee Proposal Not Used Not Attached Not Used Cost Matrix & Summary Not Attached Not Used OCSD Safety Standards	
CMM		•	



Primary Sedimentation Basins No. 6-31 Reliability Improvements at Plant No. 1

Project No. P1-133

Victoria Pilko, Project Manager Operations Committee November 6, 2019





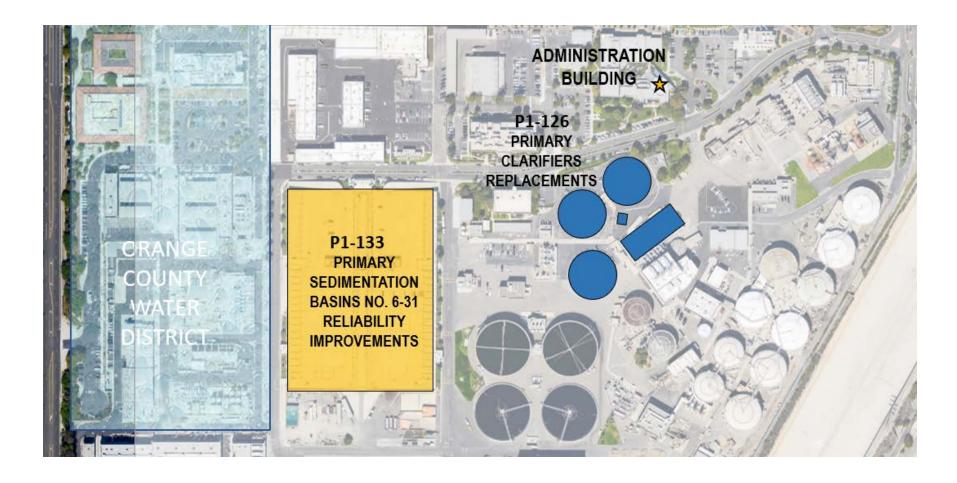
Project Site











Interdependent Projects

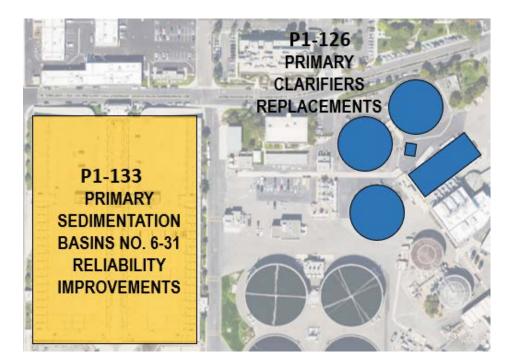








					Constr	uction Sc	hedule			
Project	Budget	2020	2021	2022	2023	2024	2025	2026	2027	2028
Primary Sedimentation Basins No. 6-31 Reliability Improvements (P1-133)	\$12 M									
Primary Clarifiers Replacements (P1-126)	\$106 M									



Project Elements









Foul Air Sump Pump



Splitter Box Launders Replacement

Primary Sludge Pump





Selection Process









- Five proposals received
- Interviews conducted with top two firms
- Carollo Engineers, Inc. selected

Negotiations









	Original Proposal	Negotiated
Total Hours	11,898	6,256
Total Fee	\$2,781,286	\$1,219,667

- Considered proposed project enhancements but not incorporated
- Clarified scope of project elements and design assumptions
- Ensured scope and level of effort are appropriate for the work

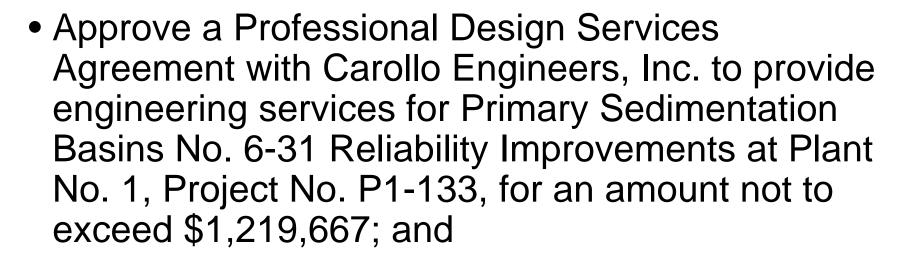
Recommendation











Approve a contingency of \$121,967 (10%).









Questions?



Orange County Sanitation District

BOARD OF DIRECTORS

Administration Building 10844 Ellis Avenue Fountain Valley, CA 92708 (714) 593-7433

Agenda Report

FROM: James D. Herberg, General Manager

Originator: Lorenzo Tyner, Assistant General Manager

SUBJECT:

REPORT OF THE INVESTMENT TRANSACTIONS FOR THE MONTH OF NOVEMBER 2019

GENERAL MANAGER'S RECOMMENDATION

RECOMMENDATION: Receive and file the following:

Report of the Investment Transactions for the month of November 2019.

BACKGROUND

The CA Government Code requires that a monthly report of investment transactions be provided to the legislative body. Attached is the monthly report of investment transactions for the month ended November 30, 2019.

RELEVANT STANDARDS

CA Government Code Section 53607

PRIOR COMMITTEE/BOARD ACTIONS

N/A

FINANCIAL CONSIDERATIONS

N/A

ATTACHMENT

The following attachment(s) are included in hard copy and may also be viewed on-line at the OCSD website (www.ocsd.com) with the complete agenda package:

Report of the Investment Transactions for the Month of November 2019

U.S. Bank Transaction History November 2019

Entry Date ACQUISITIONS	CUSIP Id	Explanation	Units	Price	Net Cash Amt	Cost	Gain/Loss
11/01/2019	31846V567	PURCHASED UNITS OF FIRST AM GOVT OB FD CL Z	28,525.0000	1.000000	-28,525.00	28,525.00	0.00
11/04/2019	31846V567	PURCHASED UNITS OF FIRST AM GOVT OB FD CL Z	4,798.7000	1.000000	-4,798.70	4,798.70	0.00
11/04/2019	31846V567	PURCHASED UNITS OF FIRST AM GOVT OB FD CL Z	76,406.8500	1.000000	-76,406.85	76,406.85	0.00
11/12/2019	31846V567	PURCHASED UNITS OF FIRST AM GOVT OB FD CL Z	28,750.0000	1.000000	-28,750.00	28,750.00	0.00
11/12/2019	31846V567	PURCHASED UNITS OF FIRST AM GOVT OB FD CL Z	186,684.3800	1.000000	-186,684.38	186,684.38	0.00
11/15/2019	31846V567	PURCHASED UNITS OF FIRST AM GOVT OB FD CL Z	1,520,600.8300	1.000000	-1,520,600.83	1,520,600.83	0.00
11/15/2019	31846V567	PURCHASED UNITS OF FIRST AM GOVT OB FD CL Z	13,785.3100	1.000000	-13,785.31	13,785.31	0.00
11/18/2019	31846V567	PURCHASED UNITS OF FIRST AM GOVT OB FD CL Z	729,199.9400	1.000000	-729,199.94	729,199.94	0.00
11/19/2019	62479LDQ5	PURCHASED PAR VALUE OF MUFG BANK LTD NY BRAN C P 4/24/20 /MUFG UNION BK NA/MMI/PIMS/IPA/1,365,000 PAR VALUE AT 99.17138901 %	1,365,000.0000	0.991714	-1,353,689.46	1,353,689.46	0.00
11/19/2019	62479LDQ5	PURCHASED PAR VALUE OF MUFG BANK LTD NY BRAN C P 4/24/20 /MUFG UNION BK NA/MMI/PIMS/IPA/10,000,000 PAR VALUE AT 99.1713889 %	10,000,000.0000	0.991714	-9,917,138.89	9,917,138.89	0.00
11/19/2019	31846V567	PURCHASED UNITS OF FIRST AM GOVT OB FD CL Z	1,860,000.0000	1.000000	-1,860,000.00	1,860,000.00	0.00
11/19/2019	31846V567	PURCHASED UNITS OF FIRST AM GOVT OB FD CL Z	11,255,000.0000	1.000000	-11,255,000.00	11,255,000.00	0.00
11/20/2019	31846V567	PURCHASED UNITS OF FIRST AM GOVT OB FD CL Z	22,500.0000	1.000000	-22,500.00	22,500.00	0.00
11/20/2019	31846V567	PURCHASED UNITS OF FIRST AM GOVT OB FD CL Z	61,084.4200	1.000000	-61,084.42	61,084.42	0.00
11/21/2019	31846V567	PURCHASED UNITS OF FIRST AM GOVT OB FD CL Z	9,759.5800	1.000000	-9,759.58	9,759.58	0.00
11/25/2019	31846V567	PURCHASED UNITS OF FIRST AM GOVT OB FD CL Z	25,993.2100	1.000000	-25,993.21	25,993.21	0.00
11/25/2019	31846V567	PURCHASED UNITS OF FIRST AM GOVT OB FD CL Z	215,210.7500	1.000000	-215,210.75	215,210.75	0.00
11/27/2019	31846V567	PURCHASED UNITS OF FIRST AM GOVT OB FD CL Z	10,000,000.0000	1.000000	-10,000,000.00	10,000,000.00	0.00
11/27/2019	31846V567	PURCHASED UNITS OF FIRST AM GOVT OB FD CL Z	6,000,000.0000	1.000000	-6,000,000.00	6,000,000.00	0.00
11/29/2019	912796RY7	PURCHASED PAR VALUE OF U S TREASURY BILL 1/30/20 /BOFA SECURITIES, INC./FXD INC/11,000,000 PAR VALUE AT 99.7303 %	11,000,000.0000	0.997303	-10,970,333.00	10,970,333.00	0.00
TOTAL ACQUIS	ITIONS		54,403,298.9700		-54,279,460.32	54,279,460.32	0.00
DISPOSITIONS							
11/15/2019	31348SWZ3	PAID DOWN PAR VALUE OF F H L M C #786064 4.678% 1/01/28 OCTOBER FHLMC DUE 11/15/19	-17.7400	0.000000	17.74	-17.31	0.43
11/15/2019	3133TCE95	PAID DOWN PAR VALUE OF F H L M C MLTCL MTG 4.016% 8/15/32	-386.6000	1,163.993792	386.60	-387.00	-0.40
11/15/2019	47788BAD6	PAID DOWN PAR VALUE OF JOHN DEERE OWNER 1.820% 10/15/21	-46,876.0500	8.844008	46,876.05	-46,872.62	3.43
11/15/2019	47788CAB8	PAID DOWN PAR VALUE OF JOHN DEERE OWNER 2.420% 10/15/20 CMO FINAL PAYDOWN	-1,489.7400	0.000000	1,489.74	-1,486.71	3.03
11/15/2019	47788CAC6	PAID DOWN PAR VALUE OF JOHN DEERE OWNER 2.660% 4/18/22	-137,727.6800	3.010086	137,727.68	-137,717.78	9.90
11/15/2019	47789JAB2	PAID DOWN PAR VALUE OF JOHN DEERE OWNER 2.850% 12/15/21	-249,117.1200	1.664166	249,117.12	-249,105.76	11.36
11/15/2019	65478VAD9	PAID DOWN PAR VALUE OF NISSAN AUTO 1.320% 1/15/21	-75,420.5600	5.496806	75,420.56	-74,816.61	603.95
11/15/2019	65478GAD2	PAID DOWN PAR VALUE OF NISSAN AUTO 1.750% 10/15/21	-171,609.4500	2.415789	171,609.45	-168,948.16	2,661.29

U.S. Bank Transaction History November 2019

Entry Date	CUSIP Id	Explanation			Units	Price	Net Cash Amt	Cost	Gain/Loss
11/15/2019	89238BAB8	PAID DOWN PAR VALUE OF TOYOTA AUTO	2.100% 10/15/20		-326,607.1000	1.269330	326,607.10	-326,573.72	33.38
11/15/2019	89239AAB9	PAID DOWN PAR VALUE OF TOYOTA AUTO	2.830% 10/15/21		-297,889.1200	1.391700	297,889.12	-297,862.07	27.05
11/18/2019	43814RAC0	PAID DOWN PAR VALUE OF HONDA AUTO	1.210% 12/18/20		-113,371.9700	0.000000	113,371.97	-112,127.53	1,244.44
11/18/2019	43814PAC4	PAID DOWN PAR VALUE OF HONDA AUTO	1.790% 9/20/21		-173,527.6900	0.000000	173,527.69	-170,775.65	2,752.04
11/18/2019	43814WAB1	PAID DOWN PAR VALUE OF HONDA AUTO	2.750% 9/20/21		-255,971.3900	0.000000	255,971.39	-255,954.91	16.48
11/19/2019	62479MYK3	MATURED PAR VALUE OF MUFG BANK LTD NY VALUE AT 100 %	Y BRAN C P 11/19/19 1,860,00	0 PAR	-1,860,000.0000	1.000000	1,850,032.47	-1,850,032.47	0.00
11/19/2019	62479MYK3	MATURED PAR VALUE OF MUFG BANK LTD NY VALUE AT 100 %	/ BRAN C P 11/19/19 11,255,0	00 PAR	-11,255,000.0000	1.000000	11,194,685.71	-11,194,685.71	0.00
11/19/2019	31846V567	SOLD UNITS OF FIRST AM GOVT OB FD CL Z			-1,353,689.4600	1.000000	1,353,689.46	-1,353,689.46	0.00
11/19/2019	31846V567	SOLD UNITS OF FIRST AM GOVT OB FD CL Z			-9,917,138.8900	1.000000	9,917,138.89	-9,917,138.89	0.00
11/20/2019	36225CAZ9	PAID DOWN PAR VALUE OF G N M A 11#08002 DUE 11/20/19	23 4.125% 12/20/26 OCTOBER	GNMA	-566.7000	0.000000	566.70	-576.06	-9.36
11/20/2019	36225CC20	PAID DOWN PAR VALUE OF G N M A 11#08008 DUE 11/20/19	88 3.875% 6/20/27 OCTOBER	GNMA	-2,399.0700	0.000000	2,399.07	-2,451.55	-52.48
11/20/2019	36225CNM4	PAID DOWN PAR VALUE OF G N M A 11#08039 DUE 11/20/19	95 3.875% 4/20/30 OCTOBER	GNMA	-42.4600	0.000000	42.46	-42.08	0.38
11/20/2019	36225CN28	PAID DOWN PAR VALUE OF G N M A 11#08040 DUE 11/20/19	08 3.875% 5/20/30 OCTOBER	GNMA	-1,091.5100	0.000000	1,091.51	-1,080.42	11.09
11/20/2019	36225DCB8	PAID DOWN PAR VALUE OF G N M A 11#08096 DUE 11/20/19	65 3.250% 7/20/34 OCTOBER	GNMA	-333.2900	0.000000	333.29	-333.08	0.21
11/25/2019	31398VJ98	PAID DOWN PAR VALUE OF F H L M C MLTCL N	MTG 4.251% 1/25/20		-213,700.1600	0.084664	213,700.16	-225,820.97	-12,120.81
11/25/2019	31394JY35	PAID DOWN PAR VALUE OF F H L M C MLTCL N	MTG 6.500% 9/25/43		-469.7300	0.000000	469.73	-531.97	-62.24
11/25/2019	31371NUC7	PAID DOWN PAR VALUE OF F N M A #257179 DUE 11/25/19	4.500% 4/01/28 OCTOBER	FNMA	-135.4500	0.000000	135.45	-143.25	-7.80
11/25/2019	31376KT22	PAID DOWN PAR VALUE OF F N M A #357969 DUE 11/25/19	5.000% 9/01/35 OCTOBER	FNMA	-2,206.6400	0.000000	2,206.64	-2,372.14	-165.50
11/25/2019	31381PDA3	PAID DOWN PAR VALUE OF F N M A #466397 DUE 11/25/19	3.400% 11/01/20 OCTOBER	FNMA	-706.3800	0.000000	706.38	-691.09	15.29
11/25/2019	31403DJZ3	PAID DOWN PAR VALUE OF F N M A #745580 DUE 11/25/19	5.000% 6/01/36 OCTOBER	FNMA	-1,601.3200	0.000000	1,601.32	-1,721.42	-120.10
11/25/2019	31403GXF4	PAID DOWN PAR VALUE OF F N M A #748678 DUE 11/25/19	5.000% 10/01/33 OCTOBER	FNMA	-9.0200	0.000000	9.02	-9.70	-0.68
11/25/2019	31406PQY8	PAID DOWN PAR VALUE OF F N M A #815971 DUE 11/25/19	5.000% 3/01/35 OCTOBER	FNMA	-4,574.2200	0.000000	4,574.22	-4,917.29	-343.07
11/25/2019	31406XWT5	PAID DOWN PAR VALUE OF F N M A #823358 DUE 11/25/19	4.722% 2/01/35 OCTOBER	FNMA	-442.5600	0.000000	442.56	-439.10	3.46
11/25/2019	31407BXH7	PAID DOWN PAR VALUE OF F N M A #826080 DUE 11/25/19	5.000% 7/01/35 OCTOBER	FNMA	-836.8200	0.000000	836.82	-899.58	-62.76

U.S. Bank Transaction History November 2019

Entry Date	CUSIP Id	Explanation	Units	Price	Net Cash Amt	Cost	Gain/Loss
11/25/2019	31410F4V4	PAID DOWN PAR VALUE OF F N M A #888336 5.000% 7/01/36 OCTOBER FNMA DUE 11/25/19	-3,099.1200	0.000000	3,099.12	-3,331.55	-232.43
11/25/2019	3138EG6F6	PAID DOWN PAR VALUE OF F N M A #AL0869 4.500% 6/01/29 OCTOBER FNMA DUE 11/25/19	-180.2600	0.000000	180.26	-190.64	-10.38
11/25/2019	31417YAY3	PAID DOWN PAR VALUE OF F N M A #MA0022 4.500% 4/01/29 OCTOBER FNMA DUE 11/25/19	-229.0300	0.000000	229.03	-242.22	-13.19
11/25/2019	31397QRE0	PAID DOWN PAR VALUE OF F N M A GTD REMIC 2.825% 2/25/41	-3,329.2300	0.000000	3,329.23	-3,328.19	1.04
11/29/2019	31846V567	SOLD UNITS OF FIRST AM GOVT OB FD CL Z	-10,970,333.0000	1.000000	10,970,333.00	-10,970,333.00	0.00
TOTAL DISPO	SITIONS		-37,442,126.5300		37,371,844.71	-37,377,647.66	-5,802.95
OTHER TRANS	SACTIONS						
11/01/2019	31846V567	INTEREST EARNED ON FIRST AM GOVT OB FD CL Z UNIT ON 0.0000 SHARES DUE 10/31/2019 INTEREST FROM 10/1/19 TO 10/31/19	0.0000	0.000000	4,798.70	0.00	0.00
11/01/2019	31846V567	INTEREST EARNED ON FIRST AM GOVT OB FD CL Z UNIT ON 0.0000 SHARES DUE 10/31/2019 INTEREST FROM 10/1/19 TO 10/31/19	0.0000	0.000000	16,477.47	0.00	0.00
11/01/2019	64971M5E8	INTEREST EARNED ON NEW YORK CITY NY 4.075% 11/01/20 \$1 PV ON 1400000.0000 SHARES DUE 11/1/2019	0.0000	0.000000	28,525.00	0.00	0.00
11/04/2019	00440EAU1	INTEREST EARNED ON ACE INA HOLDINGS 2.875% 11/03/22 \$1 PV ON 4169000.0000 SHARES DUE 11/3/2019	0.0000	0.000000	59,929.38	0.00	0.00
11/12/2019	037833CU2	INTEREST EARNED ON APPLE INC 2.850% 5/11/24 \$1 PV ON 3000000.0000 SHARES DUE 11/11/2019	0.0000	0.000000	42,750.00	0.00	0.00
11/12/2019	369550BA5	INTEREST EARNED ON GENERAL DYNAMICS 2.875% 5/11/20 \$1 PV ON 2000000.0000 SHARES DUE 11/11/2019	0.0000	0.000000	28,750.00	0.00	0.00
11/12/2019	369550BE7	INTEREST EARNED ON GENERAL DYNAMICS 3.000% 5/11/21 \$1 PV ON 3160000.0000 SHARES DUE 11/11/2019	0.0000	0.000000	47,400.00	0.00	0.00
11/12/2019	458140BD1	INTEREST EARNED ON INTEL CORP 2.875% 5/11/24 \$1 PV ON 5000000.0000 SHARES DUE 11/11/2019	0.0000	0.000000	71,875.00	0.00	0.00
11/12/2019	4581X0CX4	INTEREST EARNED ON INTER AMER DEV BK 1.625% 5/12/20 \$1 PV ON 3035000.0000 SHARES DUE 11/12/2019	0.0000	0.000000	24,659.38	0.00	0.00
11/13/2019	912828WU0	BOOK VALUE OF U S TREASURY I P S 0.125% 7/15/24 ADJUSTED BY 4160.00 UNITS INCREASE TO ADJUST FOR CHANGE IN CPI	0.0000	0.000000	0.00	0.00	0.00
11/13/2019	912828WU0	FED BASIS OF U S TREASURY I P S 0.125% 7/15/24 ADJUSTED BY 4160.00 UNITS INCREASE TO ADJUST FOR CHANGE IN CPI	0.0000	0.000000	0.00	4,160.00	0.00
11/13/2019	912828WU0	PAR VALUE OF U S TREASURY I P S 0.125% 7/15/24 ADJUSTED BY 4160.0000 UNITS INCREASE TO ADJUST FOR CHANGE IN CPI	4,160.0000	0.000000	0.00	0.00	0.00
11/13/2019	912828WU0	STATE COST OF U S TREASURY I P S 0.125% 7/15/24 ADJUSTED BY 4160.00 UNITS INCREASE TO ADJUST FOR CHANGE IN CPI	0.0000	0.000000	0.00	0.00	0.00
11/15/2019	02587AAJ3	INTEREST EARNED ON AMERICAN EXPRESS 1.930% 9/15/22 \$1 PV ON 10084.2300 SHARES DUE 11/15/2019 \$0.00161/PV ON 6,270,000.00 PV DUE 11/15/19	0.0000	0.000000	10,084.23	0.00	0.00

U.S. Bank Transaction History November 2019

Entry Date	CUSIP Id	Explanation	Units	Price	Net Cash Amt	Cost	Gain/Loss
11/15/2019	084664BT7	INTEREST EARNED ON BERKSHIRE HATHAWAY 3.000% 5/15/22 \$1 PV ON 4000000.0000 SHARES DUE 11/15/2019	0.0000	0.000000	60,000.00	0.00	0.00
11/15/2019	31348SWZ3	INTEREST EARNED ON F H L M C #786064	0.0000	0.000000	7.10	0.00	0.00
11/15/2019	3133TCE95	INTEREST EARNED ON F H L M C MLTCL MTG 4.016% 8/15/32 \$1 PV ON 25.2900 SHARES DUE 11/15/2019 \$0.00335/PV ON 7,541.85 PV DUE 11/15/19	0.0000	0.000000	25.29	0.00	0.00
11/15/2019	43815NAB0	INTEREST EARNED ON HONDA AUTO 1.900% 4/15/22 \$1 PV ON 5589.1500 SHARES DUE 11/15/2019 \$0.00158/PV ON 3,530,000.00 PV DUE 11/15/19	0.0000	0.000000	5,589.15	0.00	0.00
11/15/2019	47788BAD6	INTEREST EARNED ON JOHN DEERE OWNER 1.820% 10/15/21 \$1 PV ON 605.4500 SHARES DUE 11/15/2019 \$0.00152/PV ON 399,197.59 PV DUE 11/15/19	0.0000	0.000000	605.45	0.00	0.00
11/15/2019	477870AB5	INTEREST EARNED ON JOHN DEERE OWNER 2.280% 5/16/22 \$1 PV ON 5320.0000 SHARES DUE 11/15/2019 \$0.00190/PV ON 2,800,000.00 PV DUE 11/15/19	0.0000	0.000000	5,320.00	0.00	0.00
11/15/2019	47788CAB8	INTEREST EARNED ON JOHN DEERE OWNER 2.420% 10/15/20 \$1 PV ON 3.0000 SHARES DUE 11/15/2019 \$0.00202/PV ON 1,489.74 PV DUE 11/15/19	0.0000	0.000000	3.00	0.00	0.00
11/15/2019	47788CAC6	INTEREST EARNED ON JOHN DEERE OWNER 2.660% 4/18/22 \$1 PV ON 2970.3400 SHARES DUE 11/15/2019 \$0.00222/PV ON 1,340,000.00 PV DUE 11/15/19	0.0000	0.000000	2,970.34	0.00	0.00
11/15/2019	47789JAB2	INTEREST EARNED ON JOHN DEERE OWNER 2.850% 12/15/21 \$1 PV ON 7754.3800 SHARES DUE 11/15/2019 \$0.00238/PV ON 3,265,000.00 PV DUE 11/15/19	0.0000	0.000000	7,754.38	0.00	0.00
11/15/2019	47788EAC2	INTEREST EARNED ON JOHN DEERE OWNER 3.080% 11/15/22 \$1 PV ON 11883.6800 SHARES DUE 11/15/2019 \$0.00257/PV ON 4,630,000.00 PV DUE 11/15/19	0.0000	0.000000	11,883.68	0.00	0.00
11/15/2019	65478VAD9	INTEREST EARNED ON NISSAN AUTO 1.320% 1/15/21 \$1 PV ON 194.8700 SHARES DUE 11/15/2019 \$0.00110/PV ON 177,157.48 PV DUE 11/15/19	0.0000	0.000000	194.87	0.00	0.00
11/15/2019	65478GAD2	INTEREST EARNED ON NISSAN AUTO 1.750% 10/15/21 \$1 PV ON 2753.7800 SHARES DUE 11/15/2019 \$0.00146/PV ON 1,888,313.25 PV DUE 11/15/19	0.0000	0.000000	2,753.78	0.00	0.00
11/15/2019	65479JAD5	INTEREST EARNED ON NISSAN AUTO 1.940% 7/15/24 \$1 PV ON 4935.9600 SHARES DUE 11/15/2019 \$0.00118/PV ON 4,185,000.00 PV DUE 11/15/19	0.0000	0.000000	4,935.96	0.00	0.00
11/15/2019	65479GAD1	INTEREST EARNED ON NISSAN AUTO 3.060% 3/15/23 \$1 PV ON 9078.0000 SHARES DUE 11/15/2019 \$0.00255/PV ON 3,560,000.00 PV DUE 11/15/19	0.0000	0.000000	9,078.00	0.00	0.00
11/15/2019	89238BAB8	INTEREST EARNED ON TOYOTA AUTO 2.100% 10/15/20 \$1 PV ON 626.2200 SHARES DUE 11/15/2019 \$0.00175/PV ON 357,840.10 PV DUE 11/15/19	0.0000	0.000000	626.22	0.00	0.00
11/15/2019	89239AAB9	INTEREST EARNED ON TOYOTA AUTO 2.830% 10/15/21 \$1 PV ON 7843.5300 SHARES DUE 11/15/2019 \$0.00236/PV ON 3,325,884.92 PV DUE 11/15/19	0.0000	0.000000	7,843.53	0.00	0.00
11/15/2019	912828WJ5	INTEREST EARNED ON U S TREASURY NT 2.500% 5/15/24 \$1 PV ON 7000000.0000 SHARES DUE 11/15/2019	0.0000	0.000000	87,500.00	0.00	0.00
11/15/2019	913366EJ5	INTEREST EARNED ON UNIV OF CALIFORNIA 5.035% 5/15/21 \$1 PV ON 400000.0000 SHARES DUE 11/15/2019	0.0000	0.000000	10,070.00	0.00	0.00
11/18/2019	166764BG4	INTEREST EARNED ON CHEVRON CORP 2.100% 5/16/21 \$1 PV ON 2500000.0000 SHARES DUE 11/16/2019	0.0000	0.000000	26,250.00	0.00	0.00
11/18/2019	3137EAEK1	INTEREST EARNED ON F H L M C M T N 1.875% 11/17/20 \$1 PV ON 5000000.0000 SHARES DUE 11/17/2019	0.0000	0.000000	46,875.00	0.00	0.00

U.S. Bank Transaction History November 2019

Entry Date	CUSIP Id	Explanation	Units	Price	Net Cash Amt	Cost Ga	in/Loss
11/18/2019	43814RAC0	INTEREST EARNED ON HONDA AUTO 1.210% 12/18/20 \$1 PV ON 452.2600 SHARES DUE 11/18/2019 \$0.00101/PV ON 448,520.90 PV DUE 11/18/19	0.0000	0.000000	452.26	0.00	0.00
11/18/2019	43814PAC4	INTEREST EARNED ON HONDA AUTO 1.790% 9/20/21 \$1 PV ON 2890.5000 SHARES DUE 11/18/2019 \$0.00149/PV ON 1,937,764.12 PV DUE 11/18/19	0.0000	0.000000	2,890.50	0.00	0.00
11/18/2019	43814WAB1	INTEREST EARNED ON HONDA AUTO 2.750% 9/20/21 \$1 PV ON 10071.8800 SHARES DUE 11/18/2019 \$0.00229/PV ON 4,395,000.00 PV DUE 11/18/19	0.0000	0.000000	10,071.88	0.00	0.00
11/18/2019	43814UAG4	INTEREST EARNED ON HONDA AUTO 3.010% 5/18/22 \$1 PV ON 4289.2500 SHARES DUE 11/18/2019 \$0.00251/PV ON 1,710,000.00 PV DUE 11/18/19	0.0000	0.000000	4,289.25	0.00	0.00
11/18/2019	46625HRL6	INTEREST EARNED ON JP MORGAN CHASE CO 2.700% 5/18/23 \$1 PV ON 5000000.0000 SHARES DUE 11/18/2019	0.0000	0.000000	67,500.00	0.00	0.00
11/18/2019	58933YAF2	INTEREST EARNED ON MERCK CO INC 2.800% 5/18/23 \$1 PV ON 2000000.0000 SHARES DUE 11/18/2019	0.0000	0.000000	28,000.00	0.00	0.00
11/19/2019	62479MYK3	INTEREST EARNED ON MUFG BANK LTD NY BRAN C P 11/19/19 \$1 PV ON 11255000.0000 SHARES DUE 11/19/2019 11,255,000 PAR VALUE AT 100 %	0.0000	0.000000	60,314.29	0.00	0.00
11/19/2019	62479MYK3	INTEREST EARNED ON MUFG BANK LTD NY BRAN C P 11/19/19 \$1 PV ON 1860000.0000 SHARES DUE 11/19/2019 1,860,000 PAR VALUE AT 100 %	0.0000	0.000000	9,967.53	0.00	0.00
11/20/2019	36225CAZ9	INTEREST EARNED ON G N M A 11 #080023 4.125% 12/20/26 \$1 PV ON 52.1500 SHARES DUE 11/20/2019 OCTOBER GNMA DUE 11/20/19	0.0000	0.000000	52.15	0.00	0.00
11/20/2019	36225CC20	INTEREST EARNED ON G N M A 11#080088 3.875% 6/20/27 \$1 PV ON 48.1500 SHARES DUE 11/20/2019 OCTOBER GNMA DUE 11/20/19	0.0000	0.000000	48.15	0.00	0.00
11/20/2019	36225CNM4	INTEREST EARNED ON G N M A 11#080395 3.875% 4/20/30 \$1 PV ON 20.7300 SHARES DUE 11/20/2019 OCTOBER GNMA DUE 11/20/19	0.0000	0.000000	20.73	0.00	0.00
11/20/2019	36225CN28	INTEREST EARNED ON G N M A 11#080408 3.875% 5/20/30 \$1 PV ON 159.5800 SHARES DUE 11/20/2019 OCTOBER GNMA DUE 11/20/19	0.0000	0.000000	159.58	0.00	0.00
11/20/2019	36225DCB8	INTEREST EARNED ON G N M A 11#080965 3.250% 7/20/34 \$1 PV ON 120.7800 SHARES DUE 11/20/2019 OCTOBER GNMA DUE 11/20/19	0.0000	0.000000	120.78	0.00	0.00
11/20/2019	747525AD5	INTEREST EARNED ON QUALCOMM INC 2.250% 5/20/20 \$1 PV ON 2000000.0000 SHARES DUE 11/20/2019	0.0000	0.000000	22,500.00	0.00	0.00
11/20/2019	747525AD5	INTEREST EARNED ON QUALCOMM INC 2.250% 5/20/20 \$1 PV ON 5000000.0000 SHARES DUE 11/20/2019	0.0000	0.000000	56,250.00	0.00	0.00
11/21/2019	43815HAC1	INTEREST EARNED ON HONDA AUTO 2.950% 8/22/22 \$1 PV ON 9759.5800 SHARES DUE 11/21/2019 \$0.00246/PV ON 3,970,000.00 PV DUE 11/21/19	0.0000	0.000000	9,759.58	0.00	0.00
11/25/2019	03215PFN4	INTEREST EARNED ON AMRESCO 2.85486% 6/25/29 \$1 PV ON 283.1600 SHARES DUE 11/25/2019 \$0.00238/PV ON 119,021.64 PV DUE 11/25/19	0.0000	0.000000	283.16	0.00	0.00
11/25/2019	31398VJ98	INTEREST EARNED ON F H L M C MLTCL MTG 4.251% 1/25/20 \$1 PV ON 1510.5900 SHARES DUE 11/25/2019 \$0.00354/PV ON 426,420.49 PV DUE 11/25/19	0.0000	0.000000	1,510.59	0.00	0.00
11/25/2019	31394JY35	INTEREST EARNED ON F H L M C MLTCL MTG 6.500% 9/25/43 \$1 PV ON 3679.9700 SHARES DUE 11/25/2019 \$0.00542/PV ON 679,378.90 PV DUE 11/25/19	0.0000	0.000000	3,679.97	0.00	0.00
11/25/2019	31371NUC7	INTEREST EARNED ON F N M A #257179	0.0000	0.000000	54.69	0.00	0.00

U.S. Bank Transaction History November 2019

Entry Date	CUSIP Id	Explanation	Units	Price	Net Cash Amt	Cost	Gain/Loss
11/25/2019	31376KT22	INTEREST EARNED ON F N M A #357969 5.000% 9/01/35 \$1 PV ON 405.4400 SHARES DUE 11/25/2019 OCTOBER FNMA DUE 11/25/19	0.0000	0.000000	405.44	0.00	0.00
11/25/2019	31381PDA3	INTEREST EARNED ON F N M A #466397 3.400% 11/01/20 \$1 PV ON 985.5200 SHARES DUE 11/25/2019 OCTOBER FNMA DUE 11/25/19	0.0000	0.000000	985.52	0.00	0.00
11/25/2019	31403DJZ3	INTEREST EARNED ON F N M A #745580 5.000% 6/01/36 \$1 PV ON 379.2800 SHARES DUE 11/25/2019 OCTOBER FNMA DUE 11/25/19	0.0000	0.000000	379.28	0.00	0.00
11/25/2019	31403GXF4	INTEREST EARNED ON F N M A #748678 5.000% 10/01/33 \$1 PV ON 7.3800 SHARES DUE 11/25/2019 OCTOBER FNMA DUE 11/25/19	0.0000	0.000000	7.38	0.00	0.00
11/25/2019	31406PQY8	INTEREST EARNED ON F N M A #815971 5.000% 3/01/35 \$1 PV ON 651.8100 SHARES DUE 11/25/2019 OCTOBER FNMA DUE 11/25/19	0.0000	0.000000	651.81	0.00	0.00
11/25/2019	31406XWT5	INTEREST EARNED ON F N M A #823358	0.0000	0.000000	428.24	0.00	0.00
11/25/2019	31407BXH7	INTEREST EARNED ON F N M A #826080 5.000% 7/01/35 \$1 PV ON 77.4900 SHARES DUE 11/25/2019 OCTOBER FNMA DUE 11/25/19	0.0000	0.000000	77.49	0.00	0.00
11/25/2019	31410F4V4	INTEREST EARNED ON F N M A #888336 5.000% 7/01/36 \$1 PV ON 739.4700 SHARES DUE 11/25/2019 OCTOBER FNMA DUE 11/25/19	0.0000	0.000000	739.47	0.00	0.00
11/25/2019	3138EG6F6	INTEREST EARNED ON F N M A #AL0869	0.0000	0.000000	36.82	0.00	0.00
11/25/2019	31417YAY3	INTEREST EARNED ON F N M A #MA0022	0.0000	0.000000	60.53	0.00	0.00
11/25/2019	31397QRE0	INTEREST EARNED ON F N M A GTD REMIC 2.825% 2/25/41 \$1 PV ON 383.6300 SHARES DUE 11/25/2019 \$0.00209/PV ON 183,940.22 PV DUE 11/25/19	0.0000	0.000000	383.63	0.00	0.00
11/26/2019	912828WU0	BOOK VALUE OF U S TREASURY I P S 0.125% 7/15/24 ADJUSTED BY 4368.00 UNITS INCREASE TO ADJUST FOR CHANGE IN CPI	0.0000	0.000000	0.00	0.00	0.00
11/26/2019	912828WU0	FED BASIS OF U S TREASURY I P S 0.125% 7/15/24 ADJUSTED BY 4368.00 UNITS INCREASE TO ADJUST FOR CHANGE IN CPI	0.0000	0.000000	0.00	4,368.00	0.00
11/26/2019	912828WU0	PAR VALUE OF U S TREASURY I P S 0.125% 7/15/24 ADJUSTED BY 4368.0000 UNITS INCREASE TO ADJUST FOR CHANGE IN CPI	4,368.0000	0.000000	0.00	0.00	0.00
11/26/2019	912828WU0	STATE COST OF U S TREASURY I P S 0.125% 7/15/24 ADJUSTED BY 4368.00 UNITS INCREASE TO ADJUST FOR CHANGE IN CPI	0.0000	0.000000	0.00	0.00	0.00
11/27/2019		CASH RECEIPT INCOMING WIRES RECEIVED FROM BANC OF CALIF 11/27/19	0.0000	0.000000	10,000,000.00	0.00	0.00
11/27/2019		CASH RECEIPT INCOMING WIRES RECEIVED FROM BANC OF CALIF 11/27/19	0.0000	0.000000	6,000,000.00	0.00	0.00
TOTAL OTHER	R TRANSACTIO	NS	8,528.0000		16,907,615.61	8,528.00	0.00



Orange County Sanitation District

Administration Building 10844 Ellis Avenue Fountain Valley, CA 92708 (714) 593-7433

BOARD OF DIRECTORS

Agenda Report

File #: 2019-736 Agenda Date: 12/18/2019 Agenda Item No: 5.

FROM: James D. Herberg, General Manager

Originator: Kelly A. Lore, Clerk of the Board

SUBJECT:

COMMITTEE MEETING MINUTES

GENERAL MANAGER'S RECOMMENDATION

RECOMMENDATION: Receive and file the following:

- A. Minutes of the Steering Committee Meeting held October 23, 2019
- B. Minutes of the Legislative and Public Affairs Committee held November 4, 2019
- C. Minutes of the Operations Committee Meeting held November 6, 2019
- D. Minutes of the Administration Committee Meeting held November 13, 2019

BACKGROUND

In accordance with the Board of Directors Rules of Procedure, an accurate record of each meeting will be provided to the Directors for subsequent approval at the following meeting.

RELEVANT STANDARDS

Resolution No. OCSD 18-12

ADDITIONAL INFORMATION

The minutes of the Committee meeting are approved at their respective Committees and brought forth to the Board of Directors for receive and file only.

ATTACHMENT

The following attachment(s) are included in hard copy and may also be viewed on-line at the OCSD website (www.ocsd.com) with the complete agenda package:

Minutes of the Monthly Committee Meetings

Orange County Sanitation District Minutes for the STEERING COMMITTEE



Wednesday, October 23, 2019
5:00 PM
Conference Room A
Administration Building
10844 Ellis Avenue
Fountain Valley, CA 92708
(714) 593-7433

CALL TO ORDER

A regular meeting of the Steering Committee of the Orange County Sanitation District was called to order by Board Chairman David Shawver on Wednesday, October 23, 2019 at 5:01 p.m. in the Administration Building of the Orange County Sanitation District. Brad Hogin, General Counsel, led the Pledge of Allegiance.

DECLARATION OF QUORUM:

A quorum was declared present, as follows:

Present:

David Shawver, John Withers, Robert Collacott, Peter Kim, Chad

Wanke, Glenn Parker and Tim Shaw

Absent:

None

STAFF PRESENT:

Jim Herberg, General Manager; Rob Thompson, Assistant General Manager; Lorenzo Tyner, Assistant General Manager; Celia Chandler, Director of Human Resources; Kathy Millea, Director of Engineering; Lan Wiborg, Director of Environmental Services; Kelly Lore, Clerk of the Board; Jennifer Cabral; Rod Collins; Al Garcia; Derek Harp; Tina Knapp; Cortney Light; Laura Maravilla; and Josh Martinez.

OTHERS PRESENT:

Brad Hogin, General Counsel.

PUBLIC COMMENTS:

None.

REPORTS:

None.

CONSENT CALENDAR:

1. APPROVAL OF MINUTES

2019-664

Originator:

Kelly Lore

MOVED, SECONDED, AND DULY CARRIED TO:

Approve Minutes of the Regular Meeting of the Steering Committee held September 25, 2019.

Ayes:

David Shawver, John Withers, Robert Collacott, Peter Kim, Chad

Wanke, Glenn Parker and Tim Shaw

Noes:

None

Absent:

None

Abstentions:

None

NON-CONSENT:

2. COOPERATIVE PROCUREMENT AGREEMENTS

2019-582

Originator:

Lorenzo Tyner

MOVED, SECONDED, AND DULY CARRIED TO: Recommend to the Board of Directors to:

Authorize the purchasing of information technology products, services, and solutions utilizing Cooperative Procurement Agreements (CPA) from U.S. General Services Administration (GSA) IT Schedule 70, National Association of State Procurement Officials ValuePoint Cooperative Purchasing Organization, and OMNIA Partners, Public Sector (formerly U.S. Communities) for the period January 1, 2020 through December 31, 2020 for a total amount not to exceed \$2,000,000, in accordance with Ordinance No. OCSD-52, Section 2.03(B) Cooperative Purchases, with two (2) one-year renewal options.

Ayes:

David Shawver, John Withers, Robert Collacott, Peter Kim, Chad

Wanke, Glenn Parker and Tim Shaw

Noes:

None

Absent:

None

Abstentions:

None

3. CONTRACT SECURITY SERVICES

2019-637

Originator:

Celia Chandler

Safety and Health Supervisor Rod Collins provided a PowerPoint presentation regarding this item. Mr. Collins and Director of Human Resources Celia Chandler provided additional information and responded to questions regarding the evaluation and selection process of this contract and information regarding the existing security coverage at OCWD.

MOVED, SECONDED, AND DULY CARRIED TO: Recommend to the Board of Directors to:

- A. Approve a Service Contract for Allied Universal to provide security services, Specification No. S-2019-1079BD, for a total annual amount not to exceed \$1,588,195 for a one-year period beginning December 1, 2019 through November 30, 2020, with up to four (4) one-year renewal options; and
- B. Approve an annual contingency of \$158,819 (10%).

Ayes:

David Shawver, John Withers, Robert Collacott, Peter Kim, Chad

Wanke, Glenn Parker and Tim Shaw

Noes:

None

Absent:

None

Abstentions:

None

INFORMATION ITEMS:

None.

CLOSED SESSION:

CONVENED IN CLOSED SESSION PURSUANT TO GOVERNMENT CODE SECTIONS 54956.9(d)(1) & 54956.9(d)(2):

The Committee convened in closed session at 5:22 p.m. to discuss two items. Item No. CS-3 was not heard. Confidential minutes of the Closed Sessions have been prepared in accordance with the above Government Code Sections and are maintained by the Clerk of the Board in the Official Book of Confidential Minutes of Board and Committee Closed Session Meetings.

CS-1 CONFERENCE WITH LEGAL COUNSEL RE ANTICIPATED LITIGATION - GOVERNMENT CODE SECTION 54956.9(d)(2)

2019-684

CONVENED IN CLOSED SESSION:

Number of Potential Cases: 1

Significant exposure to litigation: Claim of James Chavez

CS-2 CONFERENCE WITH LEGAL COUNSEL RE EXISTING LITIGATION - 2019-686
GOVERNMENT CODE SECTION 54956.9(d)(1)

CONVENED IN CLOSED SESSION:

Number of Cases: 1

Jose O. Cruz v. Orange County Sanitation District Financing Corporation, a California corporation; and Does 1-50, inclusive, Superior Court of California, County of Orange, Case No. 30-2019-01100180-CU-WT-CJC.

CS-3 CONFERENCE WITH LEGAL COUNSEL RE EXISTING LITIGATION -2019-691 **GOVERNMENT CODE SECTION 54956.9(d)(1)**

ITEM NOT HEARD.

Number of Cases: 1

Klean Waters, Inc. v. Orange County Sanitation District, United States District Court, Central District of California, Southern Division, Case No. 8:15-cv-00627

The Committee reconvened in regular session at 5:34 p.m.

CONSIDERATION OF ACTION, IF ANY, ON MATTERS CONSIDERED IN CLOSED **SESSION:**

General Counsel Brad Hogin did not provide a report.

OTHER BUSINESS AND COMMUNICATIONS OR SUPPLEMENTAL AGENDA ITEMS, IF ANY:

None.

BOARD OF DIRECTORS INITIATED ITEMS FOR A FUTURE MEETING:

None.

ADJOURNMENT:

Chair Shawver declared the meeting adjourned at 5:35 p.m. to the next Steering Committee meeting to be held on Wednesday, November 20, 2019 at 5:00 p.m.

Submitted by:

Clerk of the Board

Orange County Sanitation District Minutes for the LEGISLATIVE AND PUBLIC AFFAIRS COMMITTEE



Monday, November 4, 2019
12:00 PM
Board Room
Administration Building
10844 Ellis Avenue
Fountain Valley, CA 92708
(714) 593-7433

CALL TO ORDER

A meeting of the Legislative and Public Affairs Committee was called to order by Committee Chair Peter Kim on Monday, November 4, 2019 at 12:01 p.m. in the Administration Building of the Orange County Sanitation District. Chair Kim led the pledge of allegiance.

DECLARATION OF QUORUM:

A quorum was declared present, as follows:

rum was acciared present, as follows

Peter Kim, Allan Bernstein, Lucille Kring, Christina Shea, David

Shawver and John Withers

Absent: Erik Peterson

STAFF PRESENT:

Present:

Jim Herberg, General Manager; Robert Thompson, Assistant General Manager; Lorenzo Tyner, Assistant General Manager; Kathy Millea, Director of Engineering; Tina Knapp, Assistant Clerk of the Board; Jennifer Cabral; Daisy Covarrubias; Lisa Frigo; Al Garcia; Rebecca Long; Kelly Lore; Kelly Newell; Tyler Ramirez; and Wally Ritchie.

OTHERS PRESENT:

Brad Hogin, General Counsel; Eric Sapirstein, ENS Resources (via teleconference); Eric O'Donnell, Townsend Public Affairs (TPA); Cori Williams, Townsend Public Affairs (TPA); Jessica Gauger, California Association of Sanitation Agencies; and Bruce Channing, Association of California Cities-Orange County.

PUBLIC COMMENTS:

None.

REPORTS:

Chair Kim reminded the Committee about the GWRS Final Expansion Groundbreaking event taking place on Friday, November 8 at the Orange County Water District. He also reminded the Committee that, due to upcoming holidays, the Board of Directors meetings will take place one week earlier than usual in November and December - November 20 and December 18.

General Manager Jim Herberg did not provide a report.

CONSENT CALENDAR:

APPROVAL OF MINUTES

2019-697

Originator: Kelly Lore

MOVED, SECONDED, AND DULY CARRIED TO:

Approve Minutes of the Regular Meeting of the Legislative and Public Affairs Committee held October 14, 2019.

Ayes: Peter Kim, Allan Bernstein, Lucille Kring, Christina Shea, David

Shawver and John Withers

Noes: None

Absent: Erik Peterson

Abstentions: None

NON-CONSENT:

2. PUBLIC AFFAIRS UPDATE FOR THE MONTH OF OCTOBER 2019

2019-696

Originator: Jim Herberg

Administration Manager Jennifer Cabral introduced Daisy Covarrubia who was recently promoted to Principal Public Affairs Specialist who, in turn, provided an update on recent public affairs activities and upcoming activities.

Chair Kim thanked staff for an outstanding State of the District event and Annual Report.

WITHOUT OBJECTION ACTION TAKEN TO: Recommend to the Board of Directors to:

Receive and file the Public Affairs Update for the month of October 2019.

3. LEGISLATIVE AFFAIRS UPDATE FOR THE MONTH OF OCTOBER

2019-698

2019

Originator: Jim Herberg

Rebecca Long, Senior Public Affairs Specialist, provided a brief recap on the State of the District event and indicated that OCSD is in the process of applying for a \$3 million grant from CalRecycle.

Eric Sapirstein, ENS Resources, provided a PowerPoint presentation and a brief overview of key legislative activities for the month including: FY 2020 Appropriation

Status, Extended NPDES Permit Terms and WOTUS, and PFAS/PFOA: National Defense Authorization Act.

Eric O'Donnell and Cori Williams, TPA, provided a PowerPoint presentation recapping the legislative schedule and looking ahead, update to priority two-year bills, and legislative proposals for 2020, specifically OCSD-led legislative concepts.

WITHOUT OBJECTION ACTION TAKEN TO: Recommend to the Board of Directors to:

Receive and file the Legislative Affairs Update for the month of October 2019.

INFORMATION ITEMS:

4. CALIFORNIA ASSOCIATION OF SANITATION AGENCIES AND ASSOCIATION OF CALIFORNIA CITIES-ORANGE COUNTY

2019-549

Originator:

Jim Herberg

Ms. Long introduced Jessica Gauger, Director of Legislative Advocacy for the California Association of Sanitation Agencies (CASA), who provided a PowerPoint presentation that overviewed the 2019 legislative priorities that included SB 332 (Hertzberg): Ocean Discharge, AB 1672 (Bloom): Wet wipe labeling, SB 69 (Wiener): Ocean Resiliency Act, and housing related bills. Ms. Gauger's presentation also provided an outlook for legislative interests for 2020.

Ms. Long introduced Bruce Channing, Executive Director for the Association of California Agencies-Orange County (ACC-OC), who provided a PowerPoint presentation that overviewed the recent infrastructure tour; ACC-OC committees; the ACC-OC Legislative and Regulatory Committee; legislative platform issues; the ACC-OC Energy, Environment, and Water Committee; the ACC-OC Housing Committee; and a look-forward on ACC-OC positioning and activities.

WITHOUT OBJECTION THIS ITEM WAS:

Information Item.

DRAFT 2020 LEGISLATIVE/REGULATORY PLAN

2019-550

Originator:

Jim Herberg

Ms. Long provided a PowerPoint presentation on this item that reviewed guiding priciples of the legislative plan, how the plan is developed, new portions of the plan focusing on PFAS/PFOA, and the legislative team. Board Chair Shawver asked that the Legislative and Public Affairs Committee be added to the legislative team list.

Chair Kim indicated that the Committee is in agreement with the plan and to move forward with Board approval. Using the concepts presented in the State legislative

update (Bill Concept 1 - Bid Advertising Requirements, Bill Concept 2 - Job Order Contracting, Bill Concept 3 - Video Surveillance, and Bill Concept 4 - Raising the Contract/Bid Threshold), Chair Kim summarized the interests of the Committee by indicating that there is interest to move forward with Bill Concepts 1, 2, and 4; and asked that these items be presented to the Committee in December (draft Bill language and prioritization of each Bill Concept).

WITHOUT OBJECTION THIS ITEM WAS:

Information Item.

DEPARTMENT HEAD REPORTS:

None.

CLOSED SESSION:

None.

OTHER BUSINESS AND COMMUNICATIONS OR SUPPLEMENTAL AGENDA ITEMS, IF ANY:

None.

BOARD OF DIRECTORS INITIATED ITEMS FOR A FUTURE MEETING:

None.

ADJOURNMENT:

Committee Chair Kim declared the meeting adjourned at 1:25 p.m. to the next Legislative and Public Affairs Committee meeting, Monday, December 9, 2019 at 12:00 p.m.

Submitted by:

Tina Knapp, MMC

Assistant Clerk of the Board

Tun Knop

Orange County Sanitation District Minutes for the OPERATIONS COMMITTEE



Wednesday, November 6, 2019 5:00 PM Board Room Administration Building 10844 Ellis Avenue Fountain Valley, CA 92708 (714) 593-7433

CALL TO ORDER

A regular meeting of the Operations Committee was called to order by Committee Chair Bob Collacott on Wednesday, November 6, 2019 at 5:01 p.m. in the Administration Building. Director Massa-Lavitt led the Flag Salute.

DECLARATION OF QUORUM:

Present:

A quorum was declared present, as follows:

Robert Collacott, Mariellen Yarc, Brad Avery, Allan Bernstein, Doug

Chaffee, Lucille Kring, Sandra Massa-Lavitt, Tim Shaw, Jesus Silva,

Fred Smith, David Shawver and John Withers

Phil Hawkins and Steve Jones Absent:

Staff Present: Jim Herberg, General Manager; Rob Thompson, Assistant General Manager; Lorenzo Tyner, Assistant General Manager; Celia Chandler, Director of Human Resources; Kathy Millea, Director of Engineering; Lan Wiborg, Director of Environmental Services; Kelly Lore, Clerk of the Board; Jennifer Cabral; Raul Cuellar; Don Cutler; Mike Dorman; Dean Fisher: Al Garcia: Hardat Khublall: Cortney Light: Jeff Mohr: Riaz Moinuddin: Adam Nazaroff: Nasrin Nasrollahi; Victoria Pilko; Tyler Ramirez; Don Stokes; and Eros Yong.

Others Present: Brad Hogin, General Counsel; Bob Ooten, Alternate Director (CMSD); Dan Bunce, Brown and Caldwell; and Austin Mejia, Supervisor Chaffee's office.

PUBLIC COMMENTS:

None.

REPORTS:

Chair Collacott announced that a revised agenda and late communication was provided to the Directors. He reminded the Committee of the upcoming GWRS Final Expansion Groundbreaking event on November 8, 2019 at noon. He also reminded the Committee of the upcoming holiday schedule for Board meetings.

Mr. Herberg did not provide a report.

CONSENT CALENDAR:

APPROVAL OF MINUTES

2019-641

Originator: Kelly Lore

MOVED, SECONDED, AND DULY CARRIED TO:

Approve Minutes of the Regular Meeting of the Operations Committee held October 2, 2019.

Ayes: Robert Collacott, Mariellen Yarc, Brad Avery, Allan Bernstein, Doug

Chaffee, Lucille Kring, Sandra Massa-Lavitt, Tim Shaw, Jesus Silva,

Fred Smith, David Shawver and John Withers

Noes: None

Absent: Phil Hawkins and Steve Jones

Abstentions: None

2. QUARTERLY ODOR COMPLAINT REPORT

2019-528

Originator: Rob Thompson

MOVED, SECONDED, AND DULY CARRIED TO:

Receive and file the Fiscal Year 2019/20 First Quarter Odor Complaint Report.

Ayes: Robert Collacott, Mariellen Yarc, Brad Avery, Allan Bernstein, Doug

Chaffee, Lucille Kring, Sandra Massa-Lavitt, Tim Shaw, Jesus Silva,

Fred Smith, David Shawver and John Withers

Noes: None

Absent: Phil Hawkins and Steve Jones

Abstentions: None

3. ANNUAL LANDSCAPE MAINTENANCE SERVICES CONTRACT

2019-672

Originator: Rob Thompson

MOVED, SECONDED, AND DULY CARRIED TO:

- A. Award a Service Contract to Tropical Plaza Nursery, Inc., for landscape maintenance services per Specification No. S-2019-1100BD, for the period of January 1, 2020 through December 31, 2020, for a total annual amount not to exceed \$152,420, with four one-year renewal options; and
- B. Approve an annual contingency of \$15,242 (10%).

Ayes: Robert Collacott, Mariellen Yarc, Brad Avery, Allan Bernstein, Doug

Chaffee, Lucille Kring, Sandra Massa-Lavitt, Tim Shaw, Jesus Silva,

Fred Smith. David Shawver and John Withers

Noes:

None

Absent:

Phil Hawkins and Steve Jones

Abstentions:

None

4. PURCHASE OF THIRTY-SIX ELECTRIC CARTS

2019-676

Originator:

Rob Thompson

MOVED, SECONDED, AND DULY CARRIED TO: Recommend to the Board of Directors to:

- A. Award a Purchase Order to Southwest Material Handling for the purchase of 36 electric carts using US Communities Cooperative Contract EV2024-01 for a total amount not to exceed \$684,506; and
- B. Approve a contingency of \$34,226 (5%)

Ayes:

Robert Collacott, Mariellen Yarc, Brad Avery, Allan Bernstein, Doug

Chaffee, Lucille Kring, Sandra Massa-Lavitt, Tim Shaw, Jesus Silva,

Fred Smith. David Shawver and John Withers

Noes:

None

Absent:

Phil Hawkins and Steve Jones

Abstentions:

None

5. LABORATORY BOILER BURNER REPLACEMENT AT PLANT NO. 1, PROJECT NO. MP-485

Originator:

Kathy Millea

MOVED, SECONDED, AND DULY CARRIED TO: Recommend to the Board of Directors to:

- A. Receive and file Bid Tabulation and Recommendation for Laboratory Boiler Burner Replacement at Plant No. 1, Project No. MP-485;
- B. Award a contract agreement to ODC Engineering & Technology for Laboratory Boiler Burner Replacement at Plant No. 1, Project No. MP-485, for an amount not to exceed \$283,000; and
- C. Approve a contingency of \$28,300 (10%).

Ayes: Robert Collacott, Mariellen Yarc, Brad Avery, Allan Bernstein, Doug

Chaffee, Lucille Kring, Sandra Massa-Lavitt, Tim Shaw, Jesus Silva,

Fred Smith, David Shawver and John Withers

Noes:

None

Absent:

Phil Hawkins and Steve Jones

Abstentions: None

6. UNINTERRUPTIBLE POWER SUPPLY IMPROVEMENTS AT PLANT

2019-552

NO. 1, PROJECT NO. P1-132

Originator:

Kathy Millea

MOVED, SECONDED, AND DULY CARRIED TO: Recommend to the Board of Directors to:

- A. Approve a Professional Design Services Agreement with Tetra Tech, Inc. to provide engineering services for Uninterruptible Power Supply Improvements at Plant No. 1, Project No. P1-132, for an amount not to exceed \$784,680; and
- B. Approve a contingency of \$78,468 (10%).

Ayes:

Robert Collacott, Mariellen Yarc, Brad Avery, Allan Bernstein, Doug Chaffee, Lucille Kring, Sandra Massa-Lavitt, Tim Shaw, Jesus Silva,

Fred Smith, David Shawver and John Withers

Noes:

None

Absent:

Phil Hawkins and Steve Jones

Abstentions: None

7. CAPITAL IMPROVEMENT PROGRAM CONTRACT PERFORMANCE

2019-668

REPORT

Originator:

Kathy Millea

MOVED, SECONDED, AND DULY CARRIED TO: Recommend to the Board of Directors to:

Receive and file the Capital Improvement Program Contract Performance Report for the period ending September 30, 2019.

Ayes:

Robert Collacott, Mariellen Yarc, Brad Avery, Allan Bernstein, Doug Chaffee, Lucille Kring, Sandra Massa-Lavitt, Tim Shaw, Jesus Silva,

Fred Smith, David Shawver and John Withers

Noes:

None

Absent:

Phil Hawkins and Steve Jones

Abstentions:

None

NON-CONSENT:

8. PLANT NO. 2 MAIN SEWAGE PUMPS, VARIABLE FREQUENCY DRIVE, 10 YEAR PREVENTATIVE MAINTENANCE

2019-535

Originator:

Rob Thompson

Assistant General Manager Rob Thompson introduced Engineering Manager Riaz Moinuddin who provided a brief introduction to and information regarding Item No. 8.

MOVED, SECONDED, AND DULY CARRIED TO: Recommend to the Board of Directors to:

- A. Approve Sole Source Purchase Order Contract with OneSource Distributors for performing the 10-year manufacturer recommended Preventative Maintenance (PM) on all seven of Plant No. 2 Main Sewage Pump Variable Frequency Drives for an amount not to exceed \$438,751, which includes the purchase of the full scope of supply, freight, and taxes; and
- B. Approve a contingency of \$43,876 (10%).

Ayes:

Robert Collacott, Mariellen Yarc, Brad Avery, Allan Bernstein, Doug

Chaffee, Lucille Kring, Sandra Massa-Lavitt, Tim Shaw, Jesus Silva,

Fred Smith, David Shawver and John Withers

Noes:

None

Absent:

Phil Hawkins and Steve Jones

Abstentions:

None

PLANT NO. 2 MAIN SEWAGE PUMPS MOTOR OVERHAUL

2019-553

Originator:

Rob Thompson

Engineering Manager Riaz Moinuddin provided a brief introduction to and information regarding Item No. 9.

MOVED, SECONDED, AND DULY CARRIED TO: Recommend to the Board of Directors to:

- A. Award a service contract to R.A. Reed Electric Company to provide Plant No. 2 Main Sewage Pump Motor Overhaul, Specification No. S-2019-1089BD, for a total amount not to exceed \$430,680; and
- B. Approve a contingency of \$43,068 (10%).

Ayes:

Robert Collacott, Mariellen Yarc, Brad Avery, Allan Bernstein, Doug Chaffee, Lucille Kring, Sandra Massa-Lavitt, Tim Shaw, Jesus Silva,

Fred Smith. David Shawver and John Withers

Noes: None

Absent: Phil Hawkins and Steve Jones

Abstentions: None

10. CARBON CANYON PIPELINE SAG REPAIRS, PROJECT NO. FE17-01 2019-515

Originator: Kathy Millea

Director of Engineering Kathy Millea introduced CIP Project Manager Hardat Khublall who provided a PowerPoint presentation regarding the project.

MOVED, SECONDED, AND DULY CARRIED TO: Recommend to the Board of Directors to:

- A. Receive and file Bid Tabulation and Recommendation for Carbon Canyon Pipeline Sag Repairs, Project No. FE17-01;
- B. Reject low bid from Creative Home Corporation (CHI Construction) as non-responsive;
- C. Award a construction contract to Mike Prlich and Sons, Inc. for Carbon Canyon Pipeline Sag Repairs, Project No. FE17-01, for a total amount not to exceed \$510,000; and
- D. Approve a contingency amount of \$51,000 (10%).

Ayes: Robert Collacott, Mariellen Yarc, Brad Avery, Allan Bernstein, Doug

Chaffee, Lucille Kring, Sandra Massa-Lavitt, Tim Shaw, Jesus Silva,

Fred Smith, David Shawver and John Withers

Noes: None

Absent: Phil Hawkins and Steve Jones

Abstentions: None

11. PRIMARY SEDIMENTATION BASINS NO. 6-31 RELIABILITY IMPROVEMENTS AT PLANT NO. 1, PROJECT NO. P1-133

2019-521

Originator: Kathy Millea

Director of Engineering Kathy Millea introduced CIP Project Manager Victoria Pilko who provided a PowerPoint presentation.

MOVED, SECONDED, AND DULY CARRIED TO: Recommend to the Board of Directors to:

- A. Approve a Professional Design Services Agreement with Carollo Engineers, Inc. to provide engineering services for Primary Sedimentation Basins No. 6-31 Reliability Improvements at Plant No. 1, Project No. P1-133, for an amount not to exceed \$1,219,667; and
- B. Approve a contingency of \$121,967 (10%).

Ayes: Robert Collacott, Mariellen Yarc, Brad Avery, Allan Bernstein, Doug

Chaffee, Lucille Kring, Sandra Massa-Lavitt, Tim Shaw, Jesus Silva,

Fred Smith, David Shawver and John Withers

Noes: None

Absent: Phil Hawkins and Steve Jones

Abstentions: None

INFORMATION ITEMS:

12. CLIMATE RESILIENCY STUDY, PROJECT NO. SP-152

2019-682

Originator: Kathy Millea

Director of Engineering Kathy Millea introduced Senior Engineer Nasrin Nasrollahi who provided an informative PowerPoint presentation on the Climate Resiliency Study including: Greenhouse Gas Emission Goals, climate science and forces, flooding and extreme heat, flow events, sea level rise, tsunami runup elevations, and recommendations to protect the treatment plants.

NO ACTION TAKEN AS ITEM WAS AN:

Information Item.

DEPARTMENT HEAD REPORTS:

CLOSED SESSION:

None.

OTHER BUSINESS AND COMMUNICATIONS OR SUPPLEMENTAL AGENDA ITEMS, IF ANY:

Board Chair Shawver thanked staff for the evening's presentations.

BOARD OF DIRECTORS INITIATED ITEMS FOR A FUTURE MEETING:

None.

ADJOURNMENT:

Chair Collacott declared the meeting adjourned at 5:49 p.m. to the meeting to be held on Wednesday, December 4, 2019 at 5:00 p.m.

Submitted by:

Kelly A. Lore, MMC

Clerk of the Board

Orange County Sanitation District Minutes for the

ADMINISTRATION COMMITTEE



Wednesday, November 13, 2019
5:00 PM
Board Room
Administration Building
10844 Ellis Avenue
Fountain Valley, CA 92708
(714) 593-7433

CALL TO ORDER

A regular meeting of the Administration Committee of the Orange County Sanitation District was called to order by Committee Chairman Chad Wanke on November 13, 2019 at 5:04 p.m. in the Administration Building of the Orange County Sanitation District. Director Erik Peterson led the Flag Salute.

DECLARATION OF QUORUM:

A quorum was declared present as follows:

Present:

Chad Wanke, James Ferryman, Cecilia Iglesias, Peter Kim, Steve Nagel, Andrew Nguyen, Glenn Parker, Erik Peterson, Christina Shea, David Shawver, John Withers, Kim Nichols (Alternate) and Dean

Grose (Alternate)

Absent:

None

STAFF PRESENT:

Jim Herberg, General Manager; Rob Thompson, Assistant General Manager; Lorenzo Tyner, Assistant General Manager; Celia Chandler, Director of Human Resources; Kathy Millea, Director of Engineering; Lan Wiborg, Director of Environmental Services; Tina Knapp, Assistant Clerk of the Board; Janine Aguilar; Kim Cardenas; Daisy Covarrubias; Rhea de Guzman; Al Garcia; Bryce Hockensmith; Laura Maravilla; Riaz Moinuddin; Nasrin Nasrollahi; Adam Nazaroff; Ddaze Phuong; Tyler Ramirez; Kevin Schuler; Eros Yong; and Ruth Zintzun.

OTHERS PRESENT:

Brad Hogin, General Counsel; Amanda Eom and Peter George, Macias Gini & O'Connell (MGO).

PUBLIC COMMENTS:

None.

REPORTS:

Chair Wanke and General Manager Jim Herberg did not provide reports.

Lorenzo Tyner, Assistant General Manager, reported that a firm was recently selected to conduct internal audit services for the next fiscal year.

CONSENT CALENDAR:

1 APPROVAL OF MINUTES

2019-640

Originator:

Kelly Lore

MOVED, SECONDED, AND DULY CARRIED TO:

Approve Minutes of the Regular Meeting of the Administration Committee held September 11, 2019.

Aves:

Chad Wanke, James Ferryman, Peter Kim, Steve Nagel, Andrew

Nguyen, Glenn Parker, Erik Peterson, Christina Shea, David Shawver

and John Withers

Noes:

None

Absent:

Cecilia Iglesias, Kim Nichols (Alternate) and Dean Grose (Alternate)

Abstentions:

None

2. 2019 CONFLICT OF INTEREST CODE

2019-666

Originator:

Kelly Lore

MOVED, SECONDED, AND DULY CARRIED TO: Recommend to the Board of Directors to:

Adopt Resolution No. OCSD 19-XX entitled, "A Resolution of the Board of Directors of Orange County Sanitation District adopting a Conflict of Interest Code which supersedes all prior Conflict of Interest Codes and amendments previously adopted".

Ayes:

Chad Wanke, James Ferryman, Peter Kim, Steve Nagel, Andrew

Nguyen, Glenn Parker, Erik Peterson, Christina Shea, David Shawver

and John Withers

Noes:

None

Absent:

Cecilia Iglesias, Kim Nichols (Alternate) and Dean Grose (Alternate)

Abstentions:

None

UPDATE TO THE ESTABLISHED RULES OF PROCEDURE FOR THE 3. CONDUCT OF BUSINESS OF THE ORANGE COUNTY SANITATION DISTRICT

2019-699

Originator:

Kelly Lore

MOVED, SECONDED, AND DULY CARRIED TO: Recommend to the Board of Directors to:

Adopt Resolution No. OCSD 19-XX entitled, "A Resolution of the Board of Directors of Orange County Sanitation District establishing Rules of Procedure for the Conduct of Business of the Orange County Sanitation District; and repealing Resolution No. OCSD 18-12".

Ayes:

Chad Wanke, James Ferryman, Peter Kim, Steve Nagel, Andrew Nguyen. Glenn Parker, Erik Peterson, Christina Shea, David Shawver

and John Withers

Noes:

None

Absent:

Cecilia Iglesias, Kim Nichols (Alternate) and Dean Grose (Alternate)

Abstentions:

None

4. GENERAL MANAGER APPROVED PURCHASES AND ADDITIONS TO THE PRE-APPROVED OEM SOLE SOURCE LIST

2019-709

Originator:

Lorenzo Tyner

MOVED, SECONDED, AND DULY CARRIED TO: Recommend to the Board of Directors to:

- A. Receive and file Orange County Sanitation District purchases made under the General Manager's authority for the period of July 1, 2019 to September 30, 2019; and
- B. Approve the following additions to the pre-approved OEM Sole Source List for the period of July 1, 2019 to September 30, 2019:
 - ALLEN-BRADLEY Medium Voltage Variable Frequency Drive
 - CLEAVER-BROOKS Burner Elements
 - EATON Self-Cleaning Strainers
 - SONETICS Wireless headsets and system
 - TRM/Maximo Rules Manager SE and Lock out Tag Out (LOTO) Software
 - VAUGHAN Mixing Nozzles

Ayes:

Chad Wanke, James Ferryman, Peter Kim, Steve Nagel, Andrew Nguyen, Glenn Parker, Erik Peterson, Christina Shea, David Shawver

and John Withers

Noes:

None

Absent:

Cecilia Iglesias, Kim Nichols (Alternate) and Dean Grose (Alternate)

Abstentions:

None

CONSOLIDATED FINANCIAL REPORT FOR THE FIRST QUARTER ENDED SEPTEMBER 30, 2019

2019-707

Originator:

Lorenzo Tyner

MOVED, SECONDED, AND DULY CARRIED TO: Recommend to the Board of

Directors to:

Receive and file the Orange County Sanitation District First Quarter Financial Report for the period ended September 30, 2019.

Ayes:

Chad Wanke, James Ferryman, Peter Kim, Steve Nagel, Andrew

Nguyen, Glenn Parker, Erik Peterson, Christina Shea, David Shawver

and John Withers

Noes:

None

Absent:

Cecilia Iglesias, Kim Nichols (Alternate) and Dean Grose (Alternate)

Abstentions:

None

6. LEASE AGREEMENT WITH MEGDAL GREEN, LLC PROVIDING ORANGE COUNTY SANITATION DISTRICT PARCEL FOR PARKING AND/OR RELATED ACTIVITIES

2019-702

Originator:

Lorenzo Tyner

MOVED, SECONDED, AND DULY CARRIED TO: Recommend to the Board of Directors to:

Approve a five-year lease agreement with Megdal Green, LLC, a California limited liability company, to allow paving, striping, parking, and related improvements over a 4-foot wide portion of the Orange County Sanitation District's 50-foot wide utility corridor which abuts 21532 South Brookhurst Street in Huntington Beach owned by Megdal Green, LLC, at an annual cost of \$250, for a term of five-years.

Ayes:

Chad Wanke, James Ferryman, Peter Kim, Steve Nagel, Andrew

Nguyen, Glenn Parker, Erik Peterson, Christina Shea, David Shawver

and John Withers

Noes:

None

Absent:

Cecilia Iglesias, Kim Nichols (Alternate) and Dean Grose (Alternate)

Abstentions:

None

NON-CONSENT:

Director Cecilia Iglesias arrived at 5:08 p.m., at the start of the presentations for Item No. 7.

7. ORANGE COUNTY SANITATION DISTRICT COMPREHENSIVE ANNUAL FINANCIAL REPORT (CAFR) FOR THE YEAR END JUNE 30, 2019

2019-705

Originator: Lorenzo Tyner

Mr. Tyner introduced Wally Ritchie, Controller, who introduced various staff members and outside auditors that contributed to the preparation of the audit and provided a PowerPoint presentation on this item. The presentation included information on the purpose of the Consolidated Annual Financial Report (CAFR), an overview of the CAFR and three areas of review, financial position, capital assets, available resources, and financial performance - debt service and operations.

In response to a request from the Board Chair, staff committed to providing the Board with a summary of the amount the Sanitation District has potentially saved by paying off unfunded pension liability.

Mr. Ritchie introduced Peter George, MGO, who provided a PowerPoint presentation that included the responsibilities and deliverables of MGO and required communications to the Administration Committee.

MOVED, SECONDED, AND DULY CARRIED TO: Recommend to the Board of Directors to:

Receive and file the Orange County Sanitation District's Comprehensive Annual Financial Report for the year ended June 30, 2019, prepared by staff and audited by Macias Gini & O'Connell LLP (MGO), Certified Public Accountants, along with the following reports prepared by MGO:

- Report to the Board of Directors; and
- 2. Independent Accountants' Report on Agreed-Upon Procedures Applied to Appropriations Limit Worksheets.

Ayes: Chad Wanke, James Ferryman, Cecilia Iglesias, Peter Kim, Steve

Nagel, Andrew Nguyen, Glenn Parker, Erik Peterson, Christina Shea,

David Shawver and John Withers

Noes: None

Absent: Kim Nichols (Alternate) and Dean Grose (Alternate)

Abstentions: None

8. PROFESSIONAL RISK MANAGEMENT CONSULTANT AGREEMENT

2019-708

Originator:

Lorenzo Tyner

Mr. Tyner provided a verbal report on this item including providing background on how this individual was selected.

MOVED, SECONDED, AND DULY CARRIED TO:

Approve a sole source Professional Consultant Services Agreement with John J. Preston, Specification No. SSJ 2174, to perform professional risk management consulting services for the Orange County Sanitation District, which includes overseeing property and general liability loss control and setting loss control requirements on public bids and contracts, risk transfer, loss prevention, and risk reduction in an amount not to exceed \$150,000 per year, for a term of one year beginning December 1, 2019 - November 30, 2020; with a one-year renewal option.

Aves:

Chad Wanke, James Ferryman, Cecilia Iglesias, Peter Kim, Steve

Nagel, Andrew Nguyen, Glenn Parker, Erik Peterson, Christina Shea,

David Shawver and John Withers

Noes:

None

Absent:

Kim Nichols (Alternate) and Dean Grose (Alternate)

Abstentions:

None

Alternate Director Kim Nichols arrived at 5:23 p.m., prior to the verbal report on Item No. 9.

9. POSITION CHANGES FOR FISCAL YEAR 2019-20

2019-711

Originator:

Celia Chandler

Celia Chandler, Director of Human Resources, provided a verbal report on this item. Ms. Chandler and Rob Thompson, Assistant General Manager, responded to questions from the Committee regarding this item. Staff agreed to provide milestone reports on preventative maintenance optimization on some recurring basis to be determined, perhaps quarterly.

MOVED, SECONDED, AND DULY CARRIED TO: Recommend to the Board of Directors to:

Approve a position exchange and corresponding salary upgrade from a vacant Senior Mechanic (Salary Grade LOC67) position to Maintenance Specialist (Salary Grade PRO80).

Ayes:

Chad Wanke, James Ferryman, Cecilia Iglesias, Peter Kim, Steve

Nagel, Andrew Nguyen, Glenn Parker, Erik Peterson, Christina Shea,

David Shawver, John Withers and Kim Nichols (Alternate)

Noes:

None

Absent:

Dean Grose (Alternate)

Abstentions:

None

INFORMATION ITEMS:

Board Vice-Chair Withers departed the meeting at 5:36 p.m., prior to Item No. 10.

Alternate Director Dean Grose arrived at 5:50 p.m., during the presentation on Item No. 10.

10. CLIMATE RESILIENCY STUDY, PROJECT NO. SP-152

2019-713

Originator:

Kathy Millea

Kathy Millea, Director of Engineering, introduced Nasrin Nasrollahi, Senior Engineer, who provided a PowerPoint presentation on this item. The presentation included information on reducing greenhouse gas emissions, regulatory drivers, recent climate science references, planning horizons for vulnerability assessment, climate forces, extreme flow events, sea level rise, adaptation example, protecting the treatment plant, summary of impacted facilities, study recommendations, and OCSD policy. Ms. Nasrollahi and Mr. Thompson responded to questions from the Committee. Staff committed to researching the reduction of insurance costs in relationship to the expense of recommended protective efforts.

THIS ITEM WAS RECEIVED AS AN:

Information Item.

OTHER BUSINESS AND COMMUNICATIONS OR SUPPLEMENTAL AGENDA ITEMS, IF ANY:

None.

BOARD OF DIRECTORS INITIATED ITEMS FOR A FUTURE MEETING:

None.

ADJOURNMENT:

Chair Wanke declared the meeting adjourned at 6:11 p.m. to the Regular meeting to be held on Wednesday, December 11, 2019 at 5:00 p.m.

Submitted by:

T Makn opp Tina Knapp, MMC

Tina Knapp, MMC Assistant Clerk of the Board



Orange County Sanitation District

Administration Building 10844 Ellis Avenue Fountain Valley, CA 92708 (714) 593-7433

OPERATIONS COMMITTEE

Agenda Report

File #: 2019-820 Agenda Date: 12/18/2019 Agenda Item No: 6.

FROM: James D. Herberg, General Manager

Originator: Kathy Millea, Director of Engineering

SUBJECT:

PROTEIN MATRIX DEMONSTRATION STUDY AT PLANT NO. 1, PROJECT NO. RE18-02

GENERAL MANAGER'S RECOMMENDATION

RECOMMENDATION:

- A. Ratify the prior Sole Source Purchases to Protein Matrix LLC for the procurement of Protein Matrix Compound PM-4 for Protein Matrix Demonstration Study at Plant No. 1, Project No. RE 18-02, for a total amount of \$148,500; and
- B. Approve a Sole Source Purchase Order to Protein Matrix LLC for the procurement of Protein Matrix Compound PM-4 for Protein Matrix Demonstration Study at Plant No. 1, Project No. RE18-02, for a total amount not to exceed \$150,000.

BACKGROUND

The Board-approved budget for the capital improvement program includes a master budget for the Research Program, Project No. M-RESEARCH. Research projects are used to demonstrate technologies, equipment, configurations, and control strategies to improve operational efficiency, reduce costs, improve safety, or fill important information gaps. The results support operations and maintenance and provide information needed for future planning and design work.

Two deliveries of the product have been sole source purchased to date as reported to the Board of Directors in November 2019, Agenda Item No. 15, General Manager Approved Purchases. In July 2019, \$74,250 in Protein Matrix Compound PM-4 was purchased. In September 2019, an additional \$74,250 of the same chemical was purchased to continue testing. Since the two prior purchases total more than the General Manager's purchasing authority of \$100,000, staff is seeking Board ratification of \$148,500 in addition to the proposed \$150,000 purchase.

RELEVANT STANDARDS

- 24/7/365 treatment plant reliability
- Comply with OCSD Policy Purchasing Ordinance No. OCSD-52, Section 1.07.A Sole Source Procurement

File #: 2019-820 Agenda Date: 12/18/2019 Agenda Item No: 6.

PROBLEM

Fats, oils, and grease present in raw wastewater accumulate in flow channels, flow distribution structures, and primary clarifiers requiring significant operational and maintenance efforts for removal and significant wear and tear on the equipment.

PROPOSED SOLUTION

Protein Matrix Demonstration Study at Plant No. 1, Project No. RE18-02, was created to evaluate whether a particular proprietary product has the potential to reduce the accumulation of fats, oil, and grease. This product was chosen for testing because it is the only identified product on the market that claims to modify fats, oils, and grease so that they cannot reform. This product, manufactured by Protein Matrix, LLC, can be easily fed into the Headworks facilities using existing unused storage or feed equipment.

The testing has demonstrated a notable reduction of accumulation in the primary clarifiers where most of the problems have been experienced. Staff proposes purchasing enough additional product to identify the optimum dosage. When the optimum dosage is determined, a conclusion can be made about whether the product is a cost-effective solution.

TIMING CONCERNS

Delaying this work would extend the time to determine if this is a viable solution for the accumulation of fats, oils, and grease in plant facilities.

RAMIFICATIONS OF NOT TAKING ACTION

Not approving this request will prevent the research study from optimizing the dosage of Protein Matrix to determine if this is a viable solution. Since the cost of this material, optimizing the dosage is important to prepare a representative life cycle analysis. Furthermore, implementing the permanent addition of this chemical will require an accurate estimate of dosing for determining operational costs and budgets.

CEQA

N/A

FINANCIAL CONSIDERATIONS

This request complies with authority levels of the Sanitation District's Purchasing Ordinance. This item has been budgeted (Fiscal Year 2019-20 Budget Update, Appendix A, Page A-9, Line Item: Research Program, M-RESEARCH), and the budget is sufficient for the recommended action.

ATTACHMENT

The following attachment(s) may be viewed on-line at the OCSD website (www.ocsd.com) with the complete agenda package:

N/A



Orange County Sanitation District

Administration Building 10844 Ellis Avenue Fountain Valley, CA 92708 (714) 593-7433

OPERATIONS COMMITTEE

Agenda Report

FROM: James D. Herberg, General Manager

Originator: Kathy Millea, Director of Engineering

SUBJECT:

480 VOLT CABLE REPLACEMENT AT PLANT NO. 2 HEADWORKS, PROJECT NO. MP-509

GENERAL MANAGER'S RECOMMENDATION

RECOMMENDATION:

- A. Receive and file Bid Tabulation and Recommendation for 480 Volt Cable Replacement at Plant No. 2 Headworks, Project No. MP-509;
- B. Award a Construction Contract to Mass. Electric Construction Co. for 480 Volt Cable Replacement at Plant No. 2, Project No. MP-509, for a total amount not to exceed \$434,327; and
- C. Approve a contingency of \$86,865 (20%).

BACKGROUND

The Orange County Sanitation District (Sanitation District) Headworks lifts sewage from the collections system into the Treatment Plant and provides vital preliminary treatment to all incoming wastewater by removing trash and debris that would otherwise damage downstream treatment equipment.

Electrical cables provide the energy to pumps, fans, augers, meters, and other equipment to make this process function correctly. These cables are routed through underground ducts to connect the motor control centers to devices. These cables are subject to wet conditions. Any deterioration of the cable insulation can result in short circuit or ground fault conditions, which puts the associated equipment out of service.

RELEVANT STANDARDS

- Comply with California Public Contract Code Section 20103.8, award construction contract to lowest responsive, responsible bidder
- 24/7/365 treatment plant reliability

File #: 2019-822 Agenda Date: 12/18/2019 Agenda Item No: 7.

PROBLEM

Recently, electrical cables to some critical Headworks process equipment have failed which resulted in equipment being out of service.

PROPOSED SOLUTION

Award a construction contract for 480 Volt Cable Replacement at Plant No. 2 Headworks, Project No. MP-509, to install new power and control cables in existing spare conduits to repower 13 affected pieces of equipment. Staff is requesting a contingency of 20% for this project to accommodate additional work that may arise if additional cables are found to be defective. The bid prices included unit prices for additional work that might be needed.

TIMING CONCERNS

Critical Headworks equipment, currently out of service, needs to be in operation for reliable wastewater treatment.

RAMIFICATIONS OF NOT TAKING ACTION

The failed equipment would remain out of service which would greatly reduce treatment reliability.

PRIOR COMMITTEE/BOARD ACTIONS

N/A

ADDITIONAL INFORMATION

The Sanitation District advertised Project No. MP-509 for bids on September 12, 2019 and September 19, 2019, and five sealed bids were received on October 15, 2019. A summary of the bid opening follows:

Engineer's Estimate \$ 700,000

Bidder Amount of Bid
Mass. Electric Construction Co. \$ 528,838
Inter-Pacific, Inc. \$ 548,394
GA Technical Services, Inc. \$ 686,946
Leed Electric, Inc. \$ 829,732
CSI Electrical Contractors, Inc. \$ 850,600

The bid prices listed above include additive bid items with unit prices. The intent of the additive bid items is to provide competitive prices upfront for potential required changes. The actual award value does not include the additive bid items.

File #: 2019-822 Agenda Date: 12/18/2019 Agenda Item No: 7.

The bids were evaluated in accordance with the Sanitation District's policies and procedures. A notice was sent to all bidders on November 13, 2019, informing them of the intent of the Sanitation District to recommend award of the Construction Contract to Mass. Electric Construction Co.

Staff recommends awarding a Construction Contract to the lowest responsive bidder, Mass. Electric Construction Co., for a total amount not to exceed \$434,327.

CEQA

The project is exempt from CEQA under the Class 1 categorical exemptions set forth in California Code of Regulations sections 15301 because the project involves minor replacement of existing facilities involving no expansion of use or capacity. A Notice of Exemption will be filed with the OC Clerk-Recorder after the Sanitation District's Board of Directors approval of the construction contract.

FINANCIAL CONSIDERATIONS

This request complies with authority levels of the Sanitation District's Purchasing Ordinance. This recommendation will be funded under the Repairs and Maintenance line item for the Operations and Maintenance Department (Budget Update, Fiscal Year 2019-20, Page 47). The budget is sufficient for the recommended action.

ATTACHMENT

The following attachment(s) may be viewed on-line at the OCSD website (www.ocsd.com) with the complete agenda package:

Construction Contract

SP:dm:sa:gc

PART A CONTRACT AGREEMENT

TABLE OF CONTENTS CONTRACT AGREEMENT

SECTION – 1	GENERAL CONDITIONS	1
SECTION - 2	MATERIALS AND LABOR	4
SECTION - 3	PROJECT	4
SECTION - 4	PLANS AND SPECIFICATONS	5
SECTION - 5	TIME OF COMMENCEMENT AND COMPLETION	5
SECTION - 6	TIME IS OF THE ESSENCE	5
SECTION - 7	EXCUSABLE DELAYS	6
SECTION - 8	EXTRA WORK	6
SECTION - 9	CHANGES IN PROJECT	7
SECTION - 10	LIQUIDATED DAMAGES FOR DELAY	7
SECTION - 11	CONTRACT PRICE AND METHOD OF PAYMENT	7
SECTION – 12	SUBSTITUTION OF SECURITIES IN LIEU OF RETENTION OF FUNDS	9
SECTION - 13	COMPLETION	9
SECTION - 14	CONTRACTOR'S EMPLOYEES COMPENSATION	. 10
SECTION - 15	SURETY BONDS	. 12
SECTION - 16	INSURANCE	. 13
SECTION - 17	RISK AND INDEMNIFICATION	.21
SECTION - 18	TERMINATION	.21
SECTION - 19	WARRANTY	.21
SECTION - 20	ASSIGNMENT	. 22
SECTION - 21	RESOLUTION OF DISPUTES	. 22
SECTION - 22	SAFETY & HEALTH	. 22
SECTION - 23	NOTICES	. 23

CONTRACT AGREEMENT

ORANGE COUNTY SANITATION DISTRICT

PROJECT NO. MP-509

480 VOLTS CABLE REPLACEMENT AT PLANT NO. 2 HEADWORKS

THIS AGREEMENT is made and entered into, to be effective, this December 18, 2019, by and

between Mass. Electric Construction Co., hereinafter referred to as "CONTRACTOR" and the

Orange County Sanitation District, hereinafter referred to as "OCSD".

<u>WITNESSETH</u>

That for and in consideration of the promises and agreements hereinafter made and exchanged,

OCSD and CONTRACTOR agree as follows:

SECTION – 1 GENERAL CONDITIONS

CONTRACTOR certifies and agrees that all the terms, conditions and obligations of the

Contract Documents as hereinafter defined, the location of the job site, and the conditions under

which the Work is to be performed have been thoroughly reviewed, and enters into this Contract

based upon CONTRACTOR's investigation of all such matters and is in no way relying upon

any opinions or representations of OCSD. It is agreed that this Contract represents the entire

agreement. It is further agreed that the Contract Documents are each incorporated into this

Contract by reference, with the same force and effect as if the same were set forth at length

herein, and that CONTRACTOR and its Subcontractors, if any, will be and are bound by any

and all of said Contract Documents insofar as they relate in any part or in any way, directly or

indirectly, to the Work covered by this Contract.

A. Contract Documents Order of Precedence

"Contract Documents" refers to those documents identified in the definition of "Contract

Documents" in the General Conditions – Definitions.

- In the event of a conflict between one Contract Document and any of the other Contract Documents, the provisions in the document highest in precedence shall be controlling. The order of precedence of the Contract Documents is as follows:
 - a. Supplemental Agreements the last in time being the first in precedence
 - b. Addenda issued prior to opening of Bids the last in time being the first in precedence
 - c. Contract Agreement
 - d. Permits and other regulatory requirements
 - e. Special Provisions
 - f. General Conditions (GC)
 - g. Notice Inviting Bids and Instruction to Bidders
 - h. Geotechnical Baseline Report (GBR), if attached as a Contract Document
 - Plans and Specifications in these documents the order of precedence shall be:
 - i. Specifications (Divisions 01-17)
 - ii. Plans
 - iii. General Requirements (GR)
 - iv. Standard Drawings and Typical Details
 - i. CONTRACTOR's Bid
- 2. In the event of a conflict between terms within an individual Contract Document, the conflict shall be resolved by applying the following principles as appears applicable:
 - a. Figured dimensions on the Contract Documents shall govern. Dimensions not specified shall be as directed by the ENGINEER. Details not shown or specified shall be the same as similar parts that are shown or specified, or as directed. Full-size details shall take precedence over scale Drawings as to

- shape and details of construction. Specifications shall govern as to material and workmanship.
- b. The Contract Documents calling for the higher quality material or workmanship shall prevail. Materials or Work described in words, which so applied, have a well known technical or trade meaning shall be deemed to refer to such recognized standards. In the event of any discrepancy between any Drawings and the figures thereon, the figures shall be taken as correct.
- c. Scale Drawings, full-size details, and Specifications are intended to be fully complementary and to agree. Should any discrepancy between Contract Documents come to the CONTRACTOR's attention, or should an error occur in the efforts of others, which affect the Work, the CONTRACTOR shall notify the ENGINEER, in writing, at once. In the event any doubts or questions arise with respect to the true meaning of the Contract Documents, reference shall be made to the ENGINEER whose written decision shall be final. If the CONTRACTOR proceeds with the Work affected without written instructions from the ENGINEER, the CONTRACTOR shall be fully responsible for any resultant damage or defect.
- d. Anything mentioned in the Specifications and not indicated in the Plans, or indicated in the Plans and not mentioned in the Specifications, shall be of like effect as if indicated and mentioned in both. In case of discrepancy in the Plans or Specifications, the matter shall be immediately submitted to OCSD's ENGINEER, without whose decision CONTRACTOR shall not adjust said discrepancy save only at CONTRACTOR's own risk and expense. The decision of the ENGINEER shall be final.

In all matters relating to the acceptability of material, machinery or plant equipment;

classifications of material or Work; the proper execution, progress or sequence of the

Work; and quantities interpretation of the Contract Documents, the decision of the

ENGINEER shall be final and binding, and shall be a condition precedent to any payment

under the Contract, unless otherwise ordered by the Board of Directors.

B. Definitions

Capitalized terms used in this Contract are defined in the General Conditions, Definitions.

Additional terms may be defined in the Special Provisions.

SECTION - 2 **MATERIALS AND LABOR**

CONTRACTOR shall furnish, under the conditions expressed in the Plans and Specifications, at

CONTRACTOR'S own expense, all labor and materials necessary, except such as are

mentioned in the Specifications to be furnished by OCSD, to construct and complete the

Project, in good workmanlike and substantial order. If CONTRACTOR fails to pay for labor or

materials when due, OCSD may settle such claims by making demand upon the Surety to this

Contract. In the event of the failure or refusal of the Surety to satisfy said claims, OCSD may

settle them directly and deduct the amount of payments from the Contract Price and any

amounts due to CONTRACTOR. In the event OCSD receives a stop payment notice from any

laborer or material supplier alleging non-payment by CONTRACTOR, OCSD shall be entitled to

deduct all of its costs and expenses incurred relating thereto, including but not limited to

administrative and legal fees.

SECTION - 3 **PROJECT**

The Project is described as:

PROJECT NO. MP-509

480 VOLTS CABLE REPLACEMENT AT PLANT NO. 2 HEADWORKS

C-CA-072619 PROJECT NO. MP-509

SECTION – 4 PLANS AND SPECIFICATIONS

The Work to be done is shown in a set of Plans and Specifications entitled:

PROJECT NO. MP-509

480 VOLTS CABLE REPLACEMENT AT PLANT NO. 2 HEADWORKS

Said Plans and Specifications and any revision, amendments and addenda thereto are attached hereto and incorporated herein as part of this Contract and referred to by reference.

SECTION – 5 TIME OF COMMENCEMENT AND COMPLETION

CONTRACTOR agrees to commence the Project within 15 calendar days from the date set forth in the "Notice to Proceed" sent by OCSD, unless otherwise specified therein and shall diligently prosecute the Work to completion within three hundred sixty five (365) calendar days from the date of the "Notice to Proceed" issued by OCSD, excluding delays caused or authorized by OCSD as set forth in Sections 7, 8, and 9 hereof, and applicable provisions in the General Conditions. The time for completion includes three (3) calendar days determined by OCSD likely to be inclement weather when CONTRACTOR will be unable to work.

SECTION – 6 TIME IS OF THE ESSENCE

Time is of the essence of this Contract. As required by the Contract Documents, CONTRACTOR shall prepare and obtain approval of all shop drawings, details and samples, and do all other things necessary and incidental to the prosecution of CONTRACTOR's Work in conformance with an approved construction progress schedule. CONTRACTOR shall coordinate the Work covered by this Contract with that of all other contractors, subcontractors and of OCSD, in a manner that will facilitate the efficient completion of the entire Work and accomplish the required milestone(s), if any, by the applicable deadline(s) in accordance with Section 5 herein. OCSD shall have the right to assert complete control of the premises on which the Work is to be performed and shall have the right to decide the time or order in which the various portions of the Work shall be installed or the priority of the work of subcontractors,

and, in general, all matters representing the timely and orderly conduct of the Work of

CONTRACTOR on the premises.

EXCUSABLE DELAYS SECTION - 7

CONTRACTOR shall only be excused for any delay in the prosecution or completion of the

Project as specifically provided in General Conditions, "Extensions for Delay", and the General

Requirements, "By CONTRACTOR or Others – Unknown Utilities during Contract Work".

Extensions of time and extra compensation arising from such excusable delays will be

determined in accordance with the General Conditions, "Extension of Time for Delay" and

"Contract Price Adjustments and Payments", and extensions of time and extra compensation as

a result of incurring undisclosed utilities will be determined in accordance with General

Requirements, "By CONTRACTOR or Others – Unknown Utilities during Contract Work".

OCSD's decision will be conclusive on all parties to this Contract.

EXTRA WORK SECTION - 8

The Contract Price as set forth in Section 11, includes compensation for all Work performed by

CONTRACTOR, unless CONTRACTOR obtains a Change Order signed by a designated

representative of OCSD specifying the exact nature of the Extra Work and the amount of extra

compensation to be paid all as more particularly set forth in Section 9 hereof and the General

Conditions, "Request for Change (Changes at CONTRACTOR's Request)", "OWNER Initiated

Changes", and "Contract Price Adjustments and Payments".

In the event a Change Order is issued by OCSD pursuant to the Contract Documents, OCSD

shall extend the time fixed in Section 5 for completion of the Project by the number of days, if

any, reasonably required for CONTRACTOR to perform the Extra Work, as determined by

OCSD's ENGINEER. The decision of the ENGINEER shall be final.

C-CA-072619

SECTION – 9 CHANGES IN PROJECT

OCSD may at any time, without notice to any Surety, by Change Order, make any changes in

the Work within the general scope of the Contract Document, including but not limited to

changes:

1. In the Specifications (including Drawings and designs);

2. In the time, method or manner of performance of the Work;

3. In OCSD-furnished facilities, equipment, materials, services or site; or

4. Directing acceleration in the performance of the Work.

No change of period of performance or Contract Price, or any other change in the Contract

Documents, shall be binding until the Contract is modified by a fully executed Change Order.

All Change Orders shall be issued in accordance with the requirements set forth in the General

Conditions, "Request for Change (Changes at CONTRACTOR's Request)" and "OWNER

Initiated Changes".

SECTION - 10 LIQUIDATED DAMAGES FOR DELAY

Liquidated Damages shall be payable in the amounts and upon the occurrence of such events

or failure to meet such requirements or deadlines as provided in the Special Provisions,

"Liquidated Damages and Incentives."

SECTION – 11 CONTRACT PRICE AND METHOD OF PAYMENT

A. OCSD agrees to pay and the CONTRACTOR agrees to accept as full consideration for the

faithful performance of this Contract, subject to any additions or deductions as provided in

approved Change Orders, the sum of Four Hundred Thirty-Four Thousand Three Hundred

Twenty-Seven Dollars (\$434,327) as itemized on the Attached Exhibit "A".

Upon satisfaction of the conditions precedent to payment set forth in the General

Requirements, Additional General Requirements and General Conditions (including but

C-CA-072619

not limited to Sections entitled "Mobilization Payment Requirements" and "Payment

Itemized Breakdown of Contract Lump Sum Prices"), there shall be paid to the

CONTRACTOR an initial Net Progress Payment for mobilization. OCSD shall issue at the

commencement of the job a schedule which shows:

1. A minimum of one payment to be made to the CONTRACTOR for each successive

four (4) week period as the Work progresses, and

2. The due dates for the CONTRACTOR to submit requests for payment to meet the

payment schedule.

After the initial Net Progress Payment, and provided the CONTRACTOR submits the

request for payment prior to the end of the day required to meet the payment schedule,

the CONTRACTOR shall be paid a Net Progress Payment on the corresponding monthly

payment date set forth in the schedule.

Payments shall be made on demands drawn in the manner required by law, accompanied

by a certificate signed by the ENGINEER, stating that the Work for which payment is

demanded has been performed in accordance with the terms of the Contract Documents,

and that the amount stated in the certificate is due under the terms of the Contract.

Payment applications shall also be accompanied with all documentation, records, and

releases as required by the Contract, Exhibit A, Schedule of Prices, and General

Conditions, "Payment for Work – General". The Total amount of Progress Payments shall

not exceed the actual value of the Work completed as certified by OCSD's ENGINEER.

The processing of payments shall not be considered as an acceptance of any part of the

Work.

B. As used in this Section, the following defined terms shall have the following meanings:

1. "Net Progress Payment" means a sum equal to the Progress Payment less the

C-CA-072619

Retention Amount and other qualified deductions (Liquidated Damages, stop

payment notices, etc.).

2. "Progress Payment" means a sum equal to:

a. the value of the actual Work completed since the commencement of the Work

as determined by OCSD;

b. plus the value of material suitably stored at the worksite, treatment plant or

approved storage yards subject to or under the control of OCSD since the

commencement of the Work as determined by OCSD;

c. less all previous Net Progress Payments;

d. less all amounts of previously qualified deductions;

e. less all amounts previously retained as Retention Amounts.

3. "Retention Amount" for each Progress Payment means the percentage of each

Progress Payment to be retained by OCSD to assure satisfactory completion of the

Contract. The amount to be retained from each Progress Payment shall be

determined as provided in the General Conditions - "Retained Funds; Substitution of

Securities."

SECTION – 12 SUBSTITUTION OF SECURITIES IN LIEU OF RETENTION OF FUNDS

Pursuant to Public Contract Code Section 22300 et seg., the CONTRACTOR may, at its sole

expense, substitute securities as provided in General Conditions – "Retained Funds;

Substitution of Securities."

SECTION – 13 COMPLETION

Final Completion and Final Acceptance shall occur at the time and in the manner specified in the

General Conditions, "Final Acceptance and Final Completion", "Final Payment" and Exhibit A -

Schedule of Prices.

Upon receipt of all documentation, records, and releases as required by the Contract from the CONTRACTOR, OCSD shall proceed with the Final Acceptance as specified in General Conditions.

SECTION – 14 CONTRACTOR'S EMPLOYEES COMPENSATION

A. Davis-Bacon Act:

CONTRACTOR will pay and will require all Subcontractors to pay all employees on said Project a salary or wage at least equal to the prevailing rate of per diem wages as determined by the Secretary of Labor in accordance with the Davis-Bacon Act for each craft or type of worker needed to perform the Contract. The provisions of the Davis-Bacon Act shall apply only if the Contract is in excess of Two Thousand Dollars (\$2,000.00) and when twenty-five percent (25%) or more of the Contract is funded by federal assistance. If the aforesaid conditions are met, a copy of the provisions of the Davis-Bacon Act to be complied with are incorporated herein as a part of this Contract and referred to by reference.

B. General Prevailing Rate:

OCSD has been advised by the State of California Director of Industrial Relations of its determination of the general prevailing rate of per diem wages and the general prevailing rate for legal holiday and overtime Work in the locality in which the Work is to be performed for each craft or type of Work needed to execute this Contract, and copies of the same are on file in the Office of the ENGINEER of OCSD. The CONTRACTOR agrees that not less than said prevailing rates shall be paid to workers employed on this public works Contract as required by Labor Code Section 1774 of the State of California. Per California Labor Code 1773.2, OCSD will have on file copies of the prevailing rate of per diem wages at its principal office and at each job site, which shall be made available to any interested party upon request.

C-CA-072619
PROJECT NO. MP-509
480 VOLTS CABLE REPLACEMENT AT PLANT NO. 2 HEADWORKS
CONFORMED

C. Forfeiture for Violation:

CONTRACTOR shall, as a penalty to OCSD, forfeit Two Hundred Dollars (\$200.00) for each calendar day or portion thereof for each worker paid (either by the CONTRACTOR or any Subcontractor under it) less than the prevailing rate of per diem wages as set by the Director of Industrial Relations, in accordance with Sections 1770-1780 of the California Labor Code for the Work provided for in this Contract, all in accordance with Section 1775 of the Labor Code of the State of California.

D. Apprentices:

Sections 1777.5, 1777.6, 1777.7 of the Labor Code of the State of California, regarding the employment of apprentices are applicable to this Contract and the CONTRACTOR shall comply therewith if the prime contract involves Thirty Thousand Dollars (\$30,000.00) or more.

E. Workday:

In the performance of this Contract, not more than eight (8) hours shall constitute a day's work, and the CONTRACTOR shall not require more than eight (8) hours of labor in a day from any person employed by him hereunder except as provided in paragraph (B) above. CONTRACTOR shall conform to Article 3, Chapter 1, Part 7 (Section 1810 et seq.) of the Labor Code of the State of California and shall forfeit to OCSD as a penalty, the sum of Twenty-five Dollars (\$25.00) for each worker employed in the execution of this Contract by CONTRACTOR or any Subcontractor for each calendar day during which any worker is required or permitted to labor more than eight (8) hours in any one calendar day and forty (40) hours in any one week in violation of said Article. CONTRACTOR shall keep an accurate record showing the name and actual hours worked each calendar day and each calendar week by each worker employed by CONTRACTOR in connection with the Project.

F. Registration; Record of Wages; Inspection:

CONTRACTOR shall comply with the registration requirements of Labor Code Section 1725.5. Pursuant to Labor Code Section 1771.4, the Work is subject to compliance monitoring by the California Department of Industrial Relations. CONTRACTOR shall maintain accurate payroll records and shall submit payroll records to the Labor Commissioner pursuant to Labor Code Section 1771.4(a)(3). Penalties for non-compliance with the requirements of Section 1776 may be deducted from progress payments per Section 1776.

CONTRACTOR shall comply with the job site notices posting requirements established by the Labor Commissioner per Title 8, California Code of Regulations Section 16461(e).

SECTION – 15 SURETY BONDS

CONTRACTOR shall, before entering upon the performance of this Contract, furnish Bonds approved by OCSD's General Counsel – one in the amount of one hundred percent (100%) of the Contract amount, to guarantee the faithful performance of the Work, and the other in the amount of one hundred percent (100%) of the Contract amount to guarantee payment of all claims for labor and materials furnished. As changes to the Contract occur via approved Change Orders, the CONTRACTOR shall assure that the amounts of the Bonds are adjusted to maintain 100% of the Contract Price. This Contract shall not become effective until such Bonds are supplied to and approved by OCSD. Bonds must be issued by a Surety authorized by the State Insurance Commissioner to do business in California. The Performance Bond shall remain in full force and effect through the warranty period, as specified in Section 19 below. All Bonds required to be submitted relating to this Contract must comply with California Code of Civil Procedure Section 995.630. Each Bond shall be executed in the name of the Surety insurer under penalty of perjury, or the fact of execution of each Bond shall be duly acknowledged before an officer authorized to take and certify acknowledgments, and either one of the following conditions shall be satisfied:

CONFORMED

- A. A copy of the transcript or record of the unrevoked appointment, power of attorney, bylaws, or other instrument, duly certified by the proper authority and attested by the seal of
 the insurer entitling or authorizing the person who executed the Bond to do so for and on
 behalf of the insurer, is on file in the Office of the County Clerk of the County of Orange; or
- B. A copy of a valid power of attorney is attached to the Bond.

SECTION – 16 INSURANCE

CONTRACTOR shall purchase and maintain, for the duration of the Contract, insurance against claims for injuries to persons, or damages to property which may arise from or in connection with the performance of the Work hereunder, and the results of that Work by CONTRACTOR, its agents, representatives, employees, or Subcontractors, in amounts equal to the requirements set forth below. CONTRACTOR shall not commence Work under this Contract until all insurance required under this Section is obtained in a form acceptable to OCSD, nor shall CONTRACTOR allow any Subcontractor to commence Work on a subcontract until all insurance required of the Subcontractor has been obtained. CONTRACTOR shall maintain all of the foregoing insurance coverages in force through the point at which the Work under this Contract is fully completed and accepted by OCSD pursuant to the provisions of the General Conditions, "Final Acceptance and Final Completion". Furthermore, CONTRACTOR shall maintain all of the foregoing insurance coverages in full force and effect throughout the warranty period, commencing on the date of Final Acceptance. The requirement for carrying the foregoing insurance shall not derogate from the provisions for indemnification of OCSD by CONTRACTOR under Section 17 of this Contract. Notwithstanding nor diminishing the obligations of CONTRACTOR with respect to the foregoing, CONTRACTOR shall subscribe for and maintain in full force and effect during the life of this Contract, inclusive of all changes to the Contract Documents made in accordance with the provisions of the General Conditions, "Request for Change (Changes at CONTRACTOR's Request)" and/or "OWNER Initiated

Changes", the following insurance in amounts not less than the amounts specified. OCSD reserves the right to amend the required limits of insurance commensurate with the CONTRACTOR's risk at any time during the course of the Project. No vehicles may enter OCSD premises/worksite without possessing the required insurance coverage.

CONTRACTOR's insurance shall also comply with all insurance requirements prescribed by agencies from whom permits shall be obtained for the Work and any other third parties from whom third party agreements are necessary to perform the Work (collectively, the "Third Parties"), The Special Provisions may list such requirements and sample forms and requirements from such Third Parties may be included in an attachment to the General Requirements. CONTRACTOR bears the responsibility to discover and comply with all requirements of Third Parties, including meeting specific insurance requirements, that are necessary for the complete performance of the Work. To the extent there is a conflict between the Third Parties' insurance requirements and those set forth by OCSD herein, the requirement(s) providing the more protective coverage for both OSCD and the Third Parties shall control and be purchased and maintained by CONTRACTOR.

A. Limits of Insurance

- 1. <u>General Liability</u>: One Million Dollars (\$1,000,000) per occurrence and a general aggregate limit of Two Million Dollars (\$2,000,000) for bodily injury, personal injury and property damage. Coverage shall include each of the following:
 - a. Premises-Operations.
 - b. Products and Completed Operations, with limits of at least One Million Dollars (\$1,000,000) per occurrence and a general aggregate limit of Two Million Dollars (\$2,000,000) which shall be in effect at all times during the warranty period set forth in the Warranty section herein, and as set forth in the General Conditions, "Warranty (CONTRACTOR's Guarantee)", plus any additional

C-CA-072619
PROJECT NO. MP-509
480 VOLTS CABLE REPLACEMENT AT PLANT NO. 2 HEADWORKS
CONFORMED

extension or continuation of time to said warranty period that may be required

or authorized by said provisions.

c. Broad Form Property Damage, expressly including damage arising out of

explosion, collapse, or underground damage.

d. Contractual Liability, expressly including the indemnity provisions assumed

under this Contract.

e. Separation of Insured Clause, providing that coverage applies separately to

each insured, except with respect to the limits of liability.

f. Independent CONTRACTOR's Liability.

To the extent first dollar coverage, including defense of any claim, is not

available to OCSD or any other additional insured because of any SIR,

deductible, or any other form of self insurance, CONTRACTOR is obligated to

assume responsibility of insurer until the deductible, SIR or other condition of

insurer assuming its defense and/or indemnity has been satisfied.

CONTRACTOR shall be responsible to pay any deductible or SIR.

g. If a crane will be used, the General Liability insurance will be endorsed to add

Riggers Liability coverage or its equivalent to cover the usage of the crane and

exposures with regard to the crane operators, riggers and others involved in

using the crane.

If divers will be used, the General Liability insurance will be endorsed to cover

marine liability or its equivalent to cover the usage of divers.

2. <u>Automobile Liability</u>: The CONTRACTOR shall maintain a policy of Automobile

Liability Insurance on a comprehensive form covering all owned, non-owned, and

hired automobiles, trucks, and other vehicles providing the following minimum limits

of liability coverage:

C-CA-072619

Either (1) a combined single limit of One Million Dollars (\$1,000,000) and a general

aggregate limit of One Million Dollars (\$1,000,000) for bodily injury, personal injury

and property damage;

Or alternatively, (2) One Million Dollars (\$1,000,000) per person for bodily injury and

One Million Dollars (\$1,000,000) per accident for property damage.

3. <u>Umbrella Excess Liability</u>: The minimum limits of general liability and automobile

liability insurance required, as set forth above, shall be provided for either in a single

policy of primary insurance or a combination of policies of primary and umbrella

excess coverage. Excess liability coverage shall be issued with limits of liability

which, when combined with the primary insurance, will equal the minimum limits for

general liability and automobile liability.

4. <u>Drone Liability Insurance</u>: If a drone will be used, drone liability insurance must be

maintained by CONTRACTOR in the amount of One Million Dollars (\$1,000,000) in a

form acceptable by OCSD.

5. <u>Worker's Compensation/Employer's Liability</u>: CONTRACTOR shall provide such

Worker's Compensation Insurance as required by the Labor Code of the State of

California, including employer's liability with a minimum limit of One Million Dollars

(\$1,000,000) per accident for bodily injury or disease. If an exposure to Jones Act

liability may exist, the insurance required herein shall include coverage with regard to

Jones Act claims.

Where permitted by law, CONTRACTOR hereby waives all rights of recovery by

subrogation because of deductible clauses, inadequacy of limits of any insurance

policy, limitations or exclusions of coverage, or any other reason against OCSD, its

or their officers, agents, or employees, and any other contractor or subcontractor

performing Work or rendering services on behalf of OCSD in connection with the

C-CA-072619 PROJECT NO. MP-509 planning, development and construction of the Project. In all its insurance coverages

related to the Work, CONTRACTOR shall include clauses providing that each insurer

shall waive all of its rights of recovery by subrogation against OCSD, its or their

officers, agents, or employees, or any other contractor or subcontractor performing

Work or rendering services at the Project. Where permitted by law, CONTRACTOR

shall require similar written express waivers and insurance clauses from each of its

Subcontractors of every tier. A waiver of subrogation shall be effective as to any

individual or entity, even if such individual or entity (a) would otherwise have a duty

of indemnification, contractual or otherwise, (b) did not pay the insurance premium,

directly or indirectly, and (c) whether or not such individual or entity has an insurable

interest in the property damaged.

6. <u>Limits are Minimums</u>: If CONTRACTOR maintains higher limits than the minimums

shown in this Section, OCSD requires and shall be entitled to coverage for the higher

limits maintained by the CONTRACTOR.

B. Deductibles and Self-Insured Retentions

Any deductibles or self-insured retentions must be declared to and approved by OCSD. At

the option of OCSD, either: the Insurer shall reduce or eliminate such deductibles or self-

insured retentions as respects OCSD, its Directors, officers, agents, CONSULTANTS, and

employees; or CONTRACTOR shall provide a financial guarantee satisfactory to OCSD

guaranteeing payment of losses and related investigations, claim administration, and

defense expenses.

C. Other Insurance Provisions

1. Each such policy of General Liability Insurance and Automobile Liability Insurance

shall be endorsed to contain, the following provisions:

C-CA-072619

- a. OCSD, its Directors, officers, agents, CONSULTANTS, and employees, and all public agencies from whom permits will be obtained, and their Directors, officers, agents, and employees are hereby declared to be additional insureds under the terms of this policy, but only with respect to the operations of CONTRACTOR at or from any of the sites of OCSD in connection with this Contract, or acts and omissions of the additional insured in connection with its general supervision or inspection of said operations related to this Contract.
- b. Insurance afforded by the additional insured endorsement shall apply as primary insurance, and other insurance maintained by OCSD shall be excess only and not contributing with insurance provided under this policy.
- 2. Each insurance policy required herein shall be endorsed to state that coverage shall not be cancelled by either party, except after thirty (30) days prior written notice by certified mail, return receipt requested, and that coverage shall not be cancelled for non-payment of premium except after ten (10) days prior written notice by certified mail, return receipt requested. Should there be changes in coverage or an increase in deductible or SIR amounts, CONTRACTOR undertakes to procure a manuscript endorsement from its insurer giving 30 days prior notice of such an event to OCSD, or to have its insurance broker/agent send to OCSD a certified letter describing the changes in coverage and any increase in deductible or SIR amounts. The certified letter must be sent Attention: Risk Management and shall be received not less than twenty (20) days prior to the effective date of the change(s). The letter must be signed by a Director or Officer of the broker/agent and must be on company letterhead, and may be sent via e-mail in pdf format.

- Coverage shall not extend to any indemnity coverage for the active negligence of any additional insured in any case where an agreement to indemnify the additional insured would be invalid under California Civil Code Section 2782(b).
- 4. If required by a public agency from whom permit(s) will be obtained, each policy of General Liability Insurance and Automobile Liability Insurance shall be endorsed to specify by name the public agency and its legislative members, officers, agents, CONSULTANTS, and employees, to be additional insureds.

D. Acceptability of Insurers

Insurers must have an "A-", or better, Policyholder's Rating, and a Financial Rating of at least Class VIII, or better, in accordance with the most current A.M. Best Rating Guide. OCSD recognizes that State Compensation Insurance Fund has withdrawn from participation in the A.M. Best Rating Guide process. Nevertheless, OCSD will accept State Compensation Insurance Fund for the required policy of worker's compensation insurance, subject to OCSD's option, at any time during the term of this Contract, to require a change in insurer upon twenty (20) days written notice. Further, OCSD will require CONTRACTOR to substitute any insurer whose rating drops below the levels herein specified. Said substitution shall occur within twenty (20) days of written notice to CONTRACTOR by OCSD or its agent.

E. <u>Verification of Coverage</u>

CONTRACTOR shall furnish OCSD with original certificates and mandatory endorsements affecting coverage. Said policies and endorsements shall conform to the requirements herein stated. All certificates and endorsements are to be received and approved by OCSD before Work commences. OCSD reserves the right to require complete, certified copies of all required insurance policies, including endorsements, affecting the coverage required by these Specifications at any time.

F. Subcontractors

CONTRACTOR shall be responsible to establish insurance requirements for any Subcontractors hired by CONTRACTOR. The insurance shall be in amounts and types reasonably sufficient to deal with the risk of loss involving the Subcontractor's operations and work. OCSD and any public agency issuing permits for the Project must be named as "Additional Insured" on any General Liability or Automobile Liability policy obtained by a Subcontractor. The CONTRACTOR must obtain copies and maintain current versions of all Subcontractors' policies, Certificate of Liability and mandatory endorsements effecting coverage. Upon request, CONTRACTOR must furnish OCSD with the above referenced required documents.

G. Required Forms and Endorsements

1. Required ACORD Form

a. Certificate of Liability Form 25

2. Required Insurance Services Office, Inc. Endorsements (when alternative forms are shown, they are listed in order of preference)

In the event any of the following forms are cancelled by Insurance Services Office, Inc. (ISO), or are updated, the ISO replacement form or equivalent must be supplied.

a. Commercial General Liability Form CG-0001 10 01

b. Additional Insured Including Form CG-2010 10 01 **and**Products-Completed Operations Form CG-2037 10 01

c. Waiver of Transfer of Rights of Recovery Against Others to Us/ Form CG-2404 11 85; **or** Waiver of Subrogation

3. Required State Compensation Insurance Fund Endorsements

a. Waiver of Subrogation Endorsement No. 2570

b. Cancellation Notice Endorsement No. 2065

4. <u>Additional Required Endorsements</u>

a. Notice of Policy Termination

Manuscript Endorsement

SECTION – 17 RISK AND INDEMNIFICATION

All Work covered by this Contract done at the site of construction or in preparing or delivering

materials to the site shall be at the risk of CONTRACTOR alone. CONTRACTOR shall save,

indemnify, defend, and keep OCSD and others harmless as more specifically set forth in

General Conditions, "General Indemnification".

SECTION – 18 TERMINATION

This Contract may be terminated in whole or in part in writing by OCSD in the event of

substantial failure by the CONTRACTOR to fulfill its obligations under this Agreement, or it may

be terminated by OCSD for its convenience provided that such termination is effectuated in a

manner and upon such conditions set forth more particularly in General Conditions,

"Termination for Default" and/or "Termination for Convenience", provided that no termination

may be effected unless proper notice is provided to CONTRACTOR at the time and in the

manner provided in said General Conditions. If termination for default or convenience is

effected by OCSD, an equitable adjustment in the price provided for in this Contract shall be

made at the time and in the manner provided in the General Conditions, "Termination for

Default" and "Termination for Convenience".

SECTION - 19 WARRANTY

The CONTRACTOR agrees to perform all Work under this Contract in accordance with the

Contract Documents, including OCSD's designs, Drawings and Specifications.

The CONTRACTOR guarantees for a period of at least one (1) year from the date of Final

Acceptance of the Work, pursuant to the General Conditions, "Final Acceptance and Final

Completion" that the completed Work is free from all defects due to faulty materials, equipment

or workmanship and that it shall promptly make whatever adjustments or corrections which may

C-CA-072619

be necessary to cure any defects, including repairs of any damage to other parts of the system

resulting from such defects. OCSD shall promptly give notice to the CONTRACTOR of

observed defects. In the event that the CONTRACTOR fails to make adjustments, repairs,

corrections or other work made necessary by such defects, OCSD may do so and charge the

CONTRACTOR the cost incurred. The CONTRACTOR's warranty shall continue as to any

corrected deficiency until the later of (1) the remainder of the original one-year warranty period;

or (2) one year after acceptance by OCSD of the corrected Work. The Performance Bond and

the Payment Bond shall remain in full force and effect through the guarantee period.

The CONTRACTOR's obligations under this clause are in addition to the CONTRACTOR's

other express or implied assurances under this Contract, including but not limited to specific

manufacturer or other extended warranties specified in the Plans and Specifications, or state

law and in no way diminish any other rights that OCSD may have against the CONTRACTOR

for faulty materials, equipment or Work.

SECTION - 20 ASSIGNMENT

No assignment by the CONTRACTOR of this Contract or any part hereof, or of funds to be

received hereunder, will be recognized by OCSD unless such assignment has had prior written

approval and consent of OCSD and the Surety.

SECTION – 21 RESOLUTION OF DISPUTES

OCSD and the CONTRACTOR shall comply with the provisions of California Public Contract

Code Section 20104 et. seq., regarding resolution of construction claims for any Claims which

arise between the CONTRACTOR and OCSD, as well as all applicable dispute and Claims

provisions as set forth in the General Conditions and as otherwise required by law.

SECTION - 22 SAFETY & HEALTH

CONTRACTOR shall comply with all applicable safety and health requirements mandated by

federal, state, city and/or public agency codes, permits, ordinances, regulations, and laws, as

C-CA-072619

PROJECT NO. MP-509

480 VOLTS CABLE REPLACEMENT AT PLANT NO. 2 HEADWORKS

well as these Contract Documents, including but not limited to the General Requirements, Section entitled "Safety" and Exhibit B OCSD Safety Standards.

SECTION – 23 NOTICES

Any notice required or permitted under this Contract shall be sent by certified mail, return receipt requested, at the address set forth below. Any party whose address changes shall notify the other party in writing.

TO OCSD: Orange County Sanitation District

10844 Ellis Avenue

Fountain Valley, California 92708-7018

Attn: Clerk of the Board

Copy to: Orange County Sanitation District

10844 Ellis Avenue

Fountain Valley, California 92708-7018

Attn: Construction Manager

Bradley R. Hogin, Esquire Woodruff, Spradlin & Smart

555 Anton Boulevard

Suite 1200

Costa Mesa, California 92626

TO CONTRACTOR: Mass. Electric Construction Co.

1925 Wright Avenue, Suite C

La Verne, CA 91750

Copy to: Michael P. Rinehart, Executive Vice President

Mass. Electric Construction Co. 1925 Wright Avenue, Suite C

La Verne, CA 91750

CONTRACTOR: Mass. Electric Construction Co. 1925 Wright Avenue, Suite C La Verne, CA 91750 By_____ Printed Name CONTRACTOR's State License No. 819912 (Expiration Date – 05/31/2021) OCSD: **Orange County Sanitation District** Ву____ David John Shawver **Board Chairman** Kelly A. Lore Clerk of the Board Ruth Zintzun Purchasing & Contracts Manager

IN WITNESS WHEREOF, the parties hereto have executed this Contract Agreement as the

date first hereinabove written.

EXHIBIT A SCHEDULE OF PRICES

TABLE OF CONTENTS EXHIBIT A SCHEDULE OF PRICES

EXA-1	BASIS OF COMPENSATION	1
EXA-2	PROGRESS PAYMENTS	1
EXA-3	RETENTION AND ESCROW ACCOUNTS	1
EXA-4	STOP PAYMENT NOTICE	3
EXA-5	PAYMENT TO SUBCONTRACTORS	3
EXA-6	PAYMENT OF TAXES	3
EXA-7	FINAL PAYMENT	4
EXA-8	DISCOVERY OF DEFICIENCIES BEFORE AND AFTER FINAL PAYMENT	5
ATTACH	HMENT 1 – CERTIFICATION FOR REQUEST FOR PAYMENT	7
ATTACH	HMENT 2 – SCHEDULE OF PRICES	8

EXHIBIT A SCHEDULE OF PRICES

EXA-1 BASIS OF COMPENSATION

CONTRACTOR will be paid the Contract Price according to the Schedule of Prices, and all other applicable terms and conditions of the Contract Documents.

EXA-2 PROGRESS PAYMENTS

Progress payments will be made in accordance with all applicable terms and conditions of the Contract Documents, including, but not limited to:

- 1. Contract Agreement Section 11 "Contract Price and Method of Payment;"
- 2. General Conditions "Payment General";
- 3. General Conditions "Payment Applications for Payment";
- 4. General Conditions "Payment Mobilization Payment Requirements;"
- 5. General Conditions "Payment Itemized Breakdown of Contract Lump Sum Prices";
- 6. General Conditions "Contract Price Adjustments and Payments";
- 7. General Conditions "Suspension of Payments";
- 8. General Conditions "OCSD's Right to Withhold Certain Amounts and Make Application Thereof"; and
- 9. General Conditions "Final Payment."

EXA-3 RETENTION AND ESCROW ACCOUNTS

A. Retention:

OCSD shall retain a percentage of each progress payment to assure satisfactory completion of the Work. The amount to be retained from each progress payment shall be determined as provided in General Conditions – "Retained Funds; Substitution of Securities". In all contracts between CONTRACTOR and its Subcontractors and/or Suppliers, the retention may not exceed the percentage specified in the Contract Documents.

B. Substitution of Securities:

CONTRACTOR may, at its sole expense, substitute securities as provided in General Conditions – "Retained Funds; Substitution of Securities." Payment of Escrow Agent:

In lieu of substitution of securities as provided above, the CONTRACTOR may request and OCSD shall make payment of retention earned directly to the escrow agent at the expense of the CONTRACTOR. At the expense of the CONTRACTOR, the CONTRACTOR may direct the investment of the payments into securities consistent with Government Code §16430 and the CONTRACTOR shall receive the interest earned on the investments upon the same terms provided for in this article for securities deposited by the CONTRACTOR. Upon satisfactory completion of the Contract, the CONTRACTOR shall receive from the escrow agent all securities, interest and payments received by the escrow agent from OCSD, pursuant to the terms of this article. The CONTRACTOR shall pay to each Subcontractor, not later than twenty (20) calendar days after receipt of the payment, the respective amount of interest earned, net of costs attributed to retention withheld from each Subcontractor, on the amount of retention withheld to ensure the performance of the Subcontractor. The escrow agreement used by the escrow agent pursuant to this article shall be substantially similar to the form set forth in §22300 of the California Public Contract Code.

C. Release of Retention:

Upon Final Acceptance of the Work, the CONTRACTOR shall submit an invoice for release of retention in accordance with the terms of the Contract.

D. Additional Deductibles:

In addition to the retentions described above, OCSD may deduct from each progress payment any or all of the following:

- 1. Liquidated Damages that have occurred as of the date of the application for progress payment;
- Deductions from previous progress payments already paid, due to OCSD's discovery of deficiencies in the Work or non-compliance with the Specifications or any other requirement of the Contract;
- Sums expended by OCSD in performing any of the CONTRACTOR'S obligations under the Contract that the CONTRACTOR has failed to perform, and;
- 4. Other sums that OCSD is entitled to recover from the CONTRACTOR under the terms of the Contract, including without limitation insurance deductibles and assessments.

The failure of OCSD to deduct any of the above-identified sums from a progress payment shall not constitute a waiver of OCSD's right to such sums or to deduct them from a later progress payment.

EXA-4 STOP PAYMENT NOTICE

In addition to other amounts properly withheld under this article or under other provisions of the Contract, OCSD shall retain from progress payments otherwise due the CONTRACTOR an amount equal to one hundred twenty-five percent (125%) of the amount claimed under any stop payment notice under Civil Code §9350 et. seq. or other lien filed against the CONTRACTOR for labor, materials, supplies, equipment, and any other thing of value claimed to have been furnished to and/or incorporated into the Work; or for any other alleged contribution thereto. In addition to the foregoing and in accordance with Civil Code §9358 OCSD may also satisfy its duty to withhold funds for stop payment notices by refusing to release funds held in escrow pursuant to public receipt of a release of stop payment notice executed by a stop payment notice claimant, a stop payment notice release bond, an order of a court of competent jurisdiction, or other evidence satisfactory to OCSD that the CONTRACTOR has resolved such claim by settlement.

EXA-5 PAYMENT TO SUBCONTRACTORS

Requirements

- The CONTRACTOR shall pay all Subcontractors for and on account of Work performed by such Subcontractors, not later than seven (7) days after receipt of each progress payment as required by the California Business and Professions Code §7108.5. Such payments to Subcontractors shall be based on the measurements and estimates made pursuant to article progress payments provided herein.
- Except as specifically provided by law, the CONTRACTOR shall pay all Subcontractors any and all retention due and owing for and on account of Work performed by such Subcontractors not later than seven (7) days after CONTRACTOR'S receipt of said retention proceeds from OCSD as required by the California Public Contract Code §7107.

EXA-6 PAYMENT OF TAXES

Unless otherwise specifically provided in this Contract, the Contract Price includes full compensation to the CONTRACTOR for all taxes. The CONTRACTOR shall pay all federal, state, and local taxes, and duties applicable to and assessable against any Work, including but not limited to retail sales and use, transportation, export, import, business, and special taxes. The CONTRACTOR shall ascertain and pay the taxes when due. The CONTRACTOR will maintain auditable records, subject to OCSD reviews, confirming that tax payments are current at all times.

EXA-7 FINAL PAYMENT

After Final Acceptance of the Work, as more particularly set forth in the General Conditions, "Final Acceptance and Final Completion", and after Resolution of the Board authorizing final payment and satisfaction of the requirements as more particularly set forth in General Conditions – "Final Payment", a final payment will be made as follows:

- 1. Prior to Final Acceptance, the CONTRACTOR shall prepare and submit an application for Final Payment to OCSD, including:
 - The proposed total amount due the CONTRACTOR, segregated by items on the payment schedule, amendments, Change Orders, and other bases for payment;
 - b. Deductions for prior progress payments;
 - c. Amounts retained;
 - d. A conditional waiver and release on final payment for each Subcontractor (per Civil Code Section 8136);
 - e. A conditional waiver and release on final payment on behalf of the CONTRACTOR (per Civil Code Section 8136);
 - f. List of Claims the CONTRACTOR intends to file at that time or a statement that no Claims will be filed.
 - g. List of pending unsettled claims, stating claimed amounts, and copies of any and all complaints and/or demands for arbitration received by the CONTRACTOR; and
 - h. For each and every claim that resulted in litigation or arbitration which the CONTRACTOR has settled, a conformed copy of the Request for Dismissal with prejudice or other satisfactory evidence the arbitration is resolved.
- 2. The application for Final Payment shall include complete and legally effective releases or waivers of liens and stop payment notices satisfactory to OCSD, arising out of or filed in connection with the Work. Prior progress payments shall be subject to correction in OCSD's review of the application for Final Payment. Claims filed with the application for Final Payment must be otherwise timely under the Contract and applicable law.
- 3. Within a reasonable time, OCSD will review the CONTRACTOR'S application for Final Payment. Any recommended changes or corrections will then be forwarded to the CONTRACTOR. Within ten (10) calendar days after receipt of recommended changes from OCSD, the CONTRACTOR will make the changes, or list Claims that will be filed as a result of the changes, and shall submit the revised application for Final Payment. Upon

- acceptance by OCSD, the revised application for Final Payment will become the approved application for Final Payment.
- 4. If no Claims have been filed with the initial or any revised application for Final Payment, and no Claims remain unsettled within thirty-five (35) calendar days after Final Acceptance of the Work by OCSD, and agreements are reached on all issues regarding the application for Final Payment, OCSD, in exchange for an executed release, satisfactory in form and substance to OCSD, will pay the entire sum found due on the approved application for Final Payment, including the amount, if any, allowed on settled Claims.
- 5. The release from the CONTRACTOR shall be from any and all Claims arising under the Contract, except for Claims that with the concurrence of OCSD are specifically reserved, and shall release and waive all unreserved Claims against OCSD and its officers, directors, employees and authorized representatives. The release shall be accompanied by a certification by the CONTRACTOR that:
 - a. It has resolved all Subcontractors, Suppliers and other Claims that are related to the settled Claims included in the Final Payment;
 - b. It has no reason to believe that any party has a valid claim against the CONTRACTOR or OCSD which has not been communicated in writing by the CONTRACTOR to OCSD as of the date of the certificate;
 - c. All warranties are in full force and effect, and;
 - d. The releases and the warranties shall survive Final Payment.
- 6. If any claims remain open, OCSD may make Final Payment subject to resolution of those claims. OCSD may withhold from the Final Payment an amount not to exceed one hundred fifty percent (150%) of the sum of the amounts of the open claims, and one hundred twenty-five percent (125%) of the amounts of open stop payment notices referred to in article entitled stop payment notices herein.
- 7. The CONTRACTOR shall provide an unconditional waiver and release on final payment from each Subcontractor and Supplier providing Work under the Contract (per Civil Code Section 8138) and an unconditional waiver and release on final payment on behalf of the CONTRACTOR (per Civil Code Section 8138) within thirty (30) days of receipt of Final Payment.

EXA-8 DISCOVERY OF DEFICIENCIES BEFORE AND AFTER FINAL PAYMENT

Notwithstanding OCSD's acceptance of the application for Final Payment and irrespective of whether it is before or after Final Payment has been made, OCSD shall not be precluded from subsequently showing that:

1. The true and correct amount payable for the Work is different from that previously accepted;

- 2. The previously-accepted Work did not in fact conform to the Contract requirements, or;
- 3. A previous payment or portion thereof for Work was improperly made.

OCSD also shall not be stopped from demanding and recovering damages from the CONTRACTOR, as appropriate, under any of the foregoing circumstances as permitted under the Contract or applicable law.

ATTACHMENT 1 - CERTIFICATION FOR REQUEST FOR PAYMENT

I hereby certify under penalty of perjury as follows:

That the claim for payment is in all respects true, correct; that the services mentioned herein were actually rendered and/or supplies delivered to OCSD in accordance with the Contract.

I understand that it is a violation of both the federal and California False Claims Acts to knowingly present or cause to be presented to OCSD a false claim for payment or approval.

A claim includes a demand or request for money. It is also a violation of the False Claims Acts to knowingly make use of a false record or statement to get a false claim paid. The term "knowingly" includes either actual knowledge of the information, deliberate ignorance of the truth or falsity of the information, or reckless disregard for the truth or falsity of the information. Proof of specific intent to defraud is not necessary under the False Claims Acts. I understand that the penalties under the Federal False Claims Act and State of California False Claims Act are non-exclusive, and are in addition to any other remedies which OCSD may have either under contract or law.

I hereby further certify, to the best of my knowledge and belief, that:

- 1. The amounts requested are only for performance in accordance with the Specifications, terms, and conditions of the Contract;
- 2. Payments to Subcontractors and Suppliers have been made from previous payments received under the Contract, and timely payments will be made from the proceeds of the payment covered by this certification;
- 3. This request for progress payments does not include any amounts which the prime CONTRACTOR intends to withhold or retain from a Subcontractor or Supplier in accordance with the terms and conditions of the subcontract; and

4.	This certification is not to be construed as Final Acceptance of a Subcontractor's performance.
Na	me
Titl	e

Date

ATTACHMENT 2 – SCHEDULE OF PRICES

See next pages for Bid Submittal Forms (Mass. Electric Construction Co.)

BF-14 SCHEDULE OF PRICES, Page 1 - 5

Bid Submitted By:	Mass. Electric Construction Co.	
-		(Name of Firm)

BF-14 SCHEDULE OF PRICES

INSTRUCTIONS

Α. General

For Unit Prices, it is understood that the following quantities are approximate only and are solely for the purpose of estimating the comparison of Bids, and that the actual value of Work will be computed based upon the actual quantities in the completed Work, whether they be more or less than those shown. CONTRACTOR's compensation for the Work under the Contract Documents will be computed based upon the lump sum amount of the Contract at time of award, plus any additional or deleted costs approved by OCSD via approved Change Orders, pursuant to the Contract Documents.

Bidder shall separately price and accurately reflect costs associated with each line item, leaving no blanks. Any and all modifications to the Bid must be initialed by an authorized representative of the Bidder in accordance with the Instructions to Bidders. Preparation of Bid.

Bidders are reminded of Instruction to Bidders, Discrepancy in Bid Items, which, in summary, provides that the total price for each item shall be based on the Unit Price listed for each item multiplied by the quantity; and the correct Total Price for each item shall be totaled to determine the Total Amount of Bid.

All applicable costs including overhead and profit shall be reflected in the respective unit costs and the TOTAL AMOUNT OF BID. The Bid price shall include all costs to complete the Work, including profit, overhead, etc., unless otherwise specified in the Contract Documents. All applicable sales taxes, state and/or federal, and any other special taxes, patent rights or royalties shall be included in the prices quoted in this Bid.

Basis of Award B.

AWARD OF THE CONTRACT WILL BE MADE ON THE BASIS OF THE LOWEST RESPONSIVE AND RESPONSIBLE BID.

Note 1: Base Bid. Includes all costs necessary to furnish all labor, materials, equipment and services for the construction of the Project per the Contract Documents.

Note 2: Additive Bid Items will be used to determine the lowest Responsive, Responsible Bidder, Additive items will not be included as part of the initial award amount. In the event that OCSD elects to add any or all of the Additive Bid Items, it will do so via change order(s). Refer to Part C - SPECIAL PROVISIONS.

All Work in the Contract Documents shall be included in Base Bid Items. The Additive Bid Items are for Work either not specifically shown or in excess of quantities shown in the Contract Documents. The Contractor shall provide a unit price and extended total price for each Additive Bid Item.

Bidders shall accurately reflect the cost to perform the Work. OCSD may reject unbalanced Bids. Refer to Part 2 - INSTRUCTIONS TO BIDDERS.

Submitted By:	Mass. Electric Construction Co.
i Subililiteu Dv.	

(Name of Firm)

EXHIBIT A SCHEDULE OF PRICES

BASE BID ITEMS (Refer to Note 1 in the Instructions):

Item No.	Description	Unit of Measurement	Approx Qty	Unit Price		Extended Price
1.	Mobilization: The amount for this Bid Item shall not exceed specified amount and shall include all work not included in other items and shall be in conformance with the Contract Documents for the lump sum price of	Not Applicable	Lump Sum		=	\$ 15,000.00
2.	Test circuits, install new conductors, and commission MCC PTA TUB 431 screen loading fan loop tag # 20DTUB641	Not Applicable	Lump Sum		=	\$ 27,726.00
3.	Test circuits, install new conductors, and commission MCC PTA TUB 422 Washer comp. inlet gate #1A	Not Applicable	Lump Sum		=	\$ 19,462.00
4.	Test circuits, install new conductors, and commission MCC PTB TUB 428 bar screen supply fan loop tag#20DTUB633.	Not Applicable	Lump Sum		=	\$ 36,162.00
5.	Test circuits, install new conductors, and commission MCC PTB TUB 453 inlet gate 7; tag # 20DFBK232.	Not Applicable	Lump Sum		=	\$ 29,143.00
6.	Test circuits, install new conductors, and commission MCC PTB TUB 419 bar screen roll up door #20DFBK053	Not Applicable	Lump Sum		=	\$ 38,651.00
7.	Test circuits, install new conductors, and commission MCC PTB TUB 423 bar screen supply fan #20DTUB617	Not Applicable	Lump Sum		=	\$ 70,253.00
8.	Test circuits, install new conductors, and commission MCC PTD TUB 426 GATE C3 WEIR ISO LOOP TAG #20EFBK333	Not Applicable	Lump Sum		=	\$ 48,684.00
9.	Test circuits, install new conductors, and commission MCC PTD TUB410 grit basin inlet #20EFBK152	Not Applicable	Lump Sum		=	\$ 15,538.00

BF-14 SCHEDULE OF PRICES

Bid Submitted By:	Mass. Electric Construction Co.
	(Name of Firm)

EXHIBIT A SCHEDULE OF PRICES (continued)

Item No.	Description	Unit of Measurement	Approx Qty	Unit Price		Extended Price
10.	Test circuits, install new conductors, and commission MCC PTD TUB412 grit basin inlet #6 #20EFBK162	Not Applicable	Lump Sum		=	\$ 12,190.00
11.	Test circuits, install new conductors, and commission MCC PTD TUB 417 grit pmp. STA. smp/pmp 1&2 #20EFBK171	Not Applicable	Lump Sum		=	\$ 6,430.00
12.	Test circuits, install new conductors, and commission MCC PTE TUB 405 IN. PMP STN. XFAN LOOP TAG #20DTUB739	Not Applicable	Lump Sum		=	\$ 39,484.00
13.	Test circuits, install new conductors, and commission MCC PTK TUB 421 HW BIO TOWER 13 FAN LOOP TAG #20FFBK465.	Not Applicable	Lump Sum		=	\$ 32,913.00
14.	Remove existing control circuits, install and commission new control conductors for MCC STH 402 (at DC-J) – Waste Sludge Pump # 3; tag # 22MPMP230 at Trickling Filters Area.	Not Applicable	Lump Sum	2.110	=	\$ 25,004.00
15.	Test circuits, install and commission new conductors for MCC PTA 410 – Bar Screen # 1, tag # 20DBSR110 at Bar Screen Facility.	Not Applicable	Lump Sum			17,687.00

SUBTOTAL BASE BID ITEMS NO. 1 THROUGH NO. 15 (INITIAL AWARD AMOUNT)

\$ 434,327.00

Bid Submitted By: Mass. Electric Construction Co

(Name of Firm)

EXHIBIT A SCHEDULE OF PRICES (continued)

ADDITIVE BID ITEMS (Refer to Note 2 in the Instructions):

Item No.	Description	Unit of Measurement	Approx Qty	Unit Price		Extended Price
16.	Install, splice with existing conductors, and commission 500 linear feet of 4/C#12 machine tray power cable (Southwire Spec 45043 or equal).	Linear Foot	500	2.78	=	\$ 1,390.00
17.	Install, splice with existing conductors, and commission 500 linear feet of 4/C#10 machine tray power cable (Southwire Spec 45043 or equal).	Linear Foot	500	3.18	=	\$ 1,590.00
18.	Install, splice with existing conductors, and commission 500 linear feet of 12/C#12 control cable (Southwire Spec 45055 or equal).	Linear Foot	500	5.40	=	\$ 2,700.00
19.	Coordination Meetings	Each	20	124.20	=	\$ 2,484.00
20.	Stand-by Hourly/Out of Scope Hourly Bill Rate for Contractor's Project Manager	Hourly Bill Rate per hour	60	124.20	=	\$ 7,452.00
21.	Stand-by Hourly/Out of Scope Hourly Bill Rate for Master Electrician (Licensed)	Hourly Bill Rate per hour	300	95.17	=	\$ 28,551.00
22.	Stand-by Hourly/Out of Scope Hourly Bill Rate for Journeyman Electrician (Licensed)	Hourly Bill Rate per hour	350	88.38	=	\$ 30,933.00
23.	Stand-by Hourly/Out of Scope Hourly Bill Rate for Apprentice Electrician	Hourly Bill Rate per hour	350	55.46	=	\$ 19,411.00

SUBTOTAL ADDITIVE BID ITEMS NO. 16 THROUGH NO. 23

\$ 94,511.00

TOTAL AMOUNT OF BID (BASIS OF AWARD)

\$ 528,838.00

BF-14 SCHEDULE OF PRICES

C-BF-053119 PROJECT NO. MP-509

480 VOLTS CABLE REPLACEMENT AT PLANT NO. 2 HEADWORKS

ADDENDUM NO. 2

Bid Submitted By:	Mass. Electric Construction Co.
· —	(Name of Firm)

EXHIBIT A
SCHEDULE OF PRICES
(continued)

NOTICE TO BIDDERS:

Bid items 1 through 15 together with Additive Bid Items 16 through 23 will be used to determine the lowest, responsive, and responsible bidder. Additive Bid Items will not be included as part of the initial award amount. In the event OCSD elects to add any or all of the Additive Bid Items, it will do so via change order(s). Refer to Special Provisions.



Orange County Sanitation District

Administration Building 10844 Ellis Avenue Fountain Valley, CA 92708 (714) 593-7433

OPERATIONS COMMITTEE

Agenda Report

FROM: James D. Herberg, General Manager

Originator: Kathy Millea, Director of Engineering

SUBJECT:

ACTIVATED SLUDGE PLANT CLARIFIER INLET GATE REPLACEMENT AT PLANT NO. 2, PROJECT NO. MP-638

GENERAL MANAGER'S RECOMMENDATION

RECOMMENDATION:

- A. Receive and file Bid Tabulation and Recommendation for Activated Sludge Plant Clarifier Inlet Gate Replacement at Plant No. 2, Project No. MP-638;
- B. Award a Construction Contract to Innovative Construction Solutions for Activated Sludge Plant Clarifier Inlet Gate Replacement at Plant No. 2, Project No. MP-638, for a total amount not to exceed \$658,300; and
- C. Approve a contingency of \$65,830 (10%).

BACKGROUND

The Activated Sludge Plant at Orange County Sanitation District (Sanitation District) Plant No. 2 has 12 rectangular clarifiers that are a key part of the biological secondary treatment process. Each clarifier has three inlet gates that allow water to enter the clarifier for the final sludge settling process and protect workers from being engulfed during maintenance activities in the clarifier. These gates are subject to wear and corrosion and have been in service for over 40 years.

RELEVANT STANDARDS

- Comply with California Public Contract Code Section 20103.8: Award construction to lowest responsive, responsible bidder
- Maintain a proactive asset management program
- Provide a safe and collegial workplace

PROBLEM

Several gates have become inoperable due to corrosion and deterioration. An inoperable gate prevents a clarifier from being taken out of or put into service. Staff has determined that all 36 gates are corroded to some degree and have reached the end of their useful life.

PROPOSED SOLUTION

Award a construction contract for Activated Sludge Plant Clarifier Inlet Gate Replacement at Plant No. 2, Project No. MP-638, to replace the inlet gates.

TIMING CONCERNS

The inlet gates need to be reliable so that individual clarifiers can be isolated to accommodate upcoming construction work, including Return Activated Sludge Piping Replacement at Plant No. 2, Project No. P2-123, and P2 Secondary Clarifier Repairs, Project No. MP-248.

RAMIFICATIONS OF NOT TAKING ACTION

Gates that are not replaced could fail, preventing the clarifiers from operating at its hydraulic capacity, which could impact wet weather performance.

PRIOR COMMITTEE/BOARD ACTIONS

N/A

ADDITIONAL INFORMATION

Staff is also working on P2 Secondary Clarifier Repairs, Project No. MP-248, to replace the clarifier sludge collection mechanisms for six clarifiers. Completing these two projects will allow a much larger capital improvement program rehabilitation project to be postponed.

Bid Evaluation

The Sanitation District advertised Project No. MP-638 for bids on September 4, 2019 and nine sealed bids were received on October 15, 2019. A summary of the bid opening follows:

Engineer's Estimate \$600,00	Engineer's	s Estimate	\$ 686	.000
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<u>Bidder</u>	Amount of Bid
Innovative Construction Solutions	\$ 658,300
Tharsos, Inc.	\$ 696,000
J.R. Filanc Construction Co., Inc.	\$ 696,177
Myers & Sons Construction, LLC	\$ 699,995
Environmental Construction, Inc.	\$ 727,560
Mehta Mechanical Company, Inc. dba	\$ 764,000
MMC, Inc.	
Abhe & Svoboda, Inc.	\$ 774,565
W.M. Lyles Co.	\$ 829,000
Innovative Engineering & Maintenance	\$ 1,385,000

The bids were evaluated in accordance with the Sanitation District's policies and procedures. A notice was sent to all bidders on November 19, 2019 informing them of the intent of Sanitation District staff to recommend award of the Construction Contract to Innovative Construction Solutions.

Staff recommends awarding a Construction Contract to the lowest responsive bidder, Innovative Construction Solutions, for a total amount not to exceed \$658,300.

CEQA

This project is exempt from CEQA under the Class 1 categorical exemptions set forth in California Code of Regulations sections 15301 because the project involves repairs, replacement, and/or minor alteration of the existing facilities involving no expansion of use or capacity. A Notice of Exemption will be filed with the OC Clerk-Recorder after the Sanitation District's Board of Directors approval of the Activated Sludge Plant Clarifier Inlet Gate Replacement at Plant No. 2, Project No. MP-638.

FINANCIAL CONSIDERATIONS

This request complies with authority levels of the Sanitation District's Purchasing Ordinance. This recommendation would be funded under the Operations and Maintenance Department budget for Repairs & Maintenance, (FY 2019-20 Budget Update, Page 47). The budget is sufficient for the recommended action.

ATTACHMENT

The following attachment(s) may be viewed on-line at the OCSD website (www.ocsd.com) with the complete agenda package:

Construction Contract

SS:dm:sa

PART A CONTRACT AGREEMENT

TABLE OF CONTENTS CONTRACT AGREEMENT

SECTION - 1	GENERAL CONDITIONS	1
SECTION - 2	MATERIALS AND LABOR	4
SECTION - 3	PROJECT	4
SECTION - 4	PLANS AND SPECIFICATONS	4
SECTION - 5	TIME OF COMMENCEMENT AND COMPLETION	5
SECTION - 6	TIME IS OF THE ESSENCE	5
SECTION - 7	EXCUSABLE DELAYS	6
SECTION - 8	EXTRA WORK	6
SECTION - 9	CHANGES IN PROJECT	6
SECTION - 10	LIQUIDATED DAMAGES FOR DELAY	7
SECTION - 11	CONTRACT PRICE AND METHOD OF PAYMENT	7
SECTION - 12	SUBSTITUTION OF SECURITIES IN LIEU OF RETENTION OF FUNDS	
SECTION - 13	COMPLETION	9
SECTION - 14	CONTRACTOR'S EMPLOYEES COMPENSATION	10
SECTION - 15	SURETY BONDS	12
SECTION - 16	INSURANCE	13
SECTION - 17	RISK AND INDEMNIFICATION	22
SECTION - 18	TERMINATION	22
SECTION - 19	WARRANTY	22
SECTION - 20	ASSIGNMENT	23
SECTION - 21	RESOLUTION OF DISPUTES	23
SECTION - 22	SAFETY & HEALTH	24
SECTION - 23	NOTICES	24

CONTRACT AGREEMENT

ORANGE COUNTY SANITATION DISTRICT

PROJECT NO. MP-638

ACTIVATED SLUDGE PLANT CLARIFIER INLET GATE REPLACEMENT AT PLANT NO. 2

THIS AGREEMENT is made and entered into, to be effective, this December 18, 2019, by and

between Innovative Construction Solutions, hereinafter referred to as "CONTRACTOR" and the

Orange County Sanitation District, hereinafter referred to as "OCSD".

<u>WITNESSETH</u>

That for and in consideration of the promises and agreements hereinafter made and exchanged,

OCSD and CONTRACTOR agree as follows:

SECTION – 1 GENERAL CONDITIONS

CONTRACTOR certifies and agrees that all the terms, conditions and obligations of the

Contract Documents as hereinafter defined, the location of the job site, and the conditions under

which the Work is to be performed have been thoroughly reviewed, and enters into this Contract

based upon CONTRACTOR's investigation of all such matters and is in no way relying upon

any opinions or representations of OCSD. It is agreed that this Contract represents the entire

agreement. It is further agreed that the Contract Documents are each incorporated into this

Contract by reference, with the same force and effect as if the same were set forth at length

herein, and that CONTRACTOR and its Subcontractors, if any, will be and are bound by any

and all of said Contract Documents insofar as they relate in any part or in any way, directly or

indirectly, to the Work covered by this Contract.

A. Contract Documents Order of Precedence

"Contract Documents" refers to those documents identified in the definition of "Contract

Documents" in the General Conditions – Definitions.

C-CA-072619

- In the event of a conflict between one Contract Document and any of the other Contract Documents, the provisions in the document highest in precedence shall be controlling. The order of precedence of the Contract Documents is as follows:
 - a. Supplemental Agreements the last in time being the first in precedence
 - b. Addenda issued prior to opening of Bids the last in time being the first in precedence
 - c. Contract Agreement
 - d. Permits and other regulatory requirements
 - e. Special Provisions
 - f. General Conditions (GC)
 - g. Notice Inviting Bids and Instruction to Bidders
 - h. Geotechnical Baseline Report (GBR), if attached as a Contract Document
 - i. Plans and Specifications in these documents the order of precedence shall be:
 - i. Specifications (Divisions 01-17)
 - ii. Plans
 - iii. General Requirements (GR)
 - iv. Standard Drawings and Typical Details
 - j. CONTRACTOR's Bid
- 2. In the event of a conflict between terms within an individual Contract Document, the conflict shall be resolved by applying the following principles as appears applicable:
 - a. Figured dimensions on the Contract Documents shall govern. Dimensions not specified shall be as directed by the ENGINEER. Details not shown or specified shall be the same as similar parts that are shown or specified, or as directed. Full-size details shall take precedence over scale Drawings as to shape and details of construction. Specifications shall govern as to material and workmanship.

- b. The Contract Documents calling for the higher quality material or workmanship shall prevail. Materials or Work described in words, which so applied, have a well known technical or trade meaning shall be deemed to refer to such recognized standards. In the event of any discrepancy between any Drawings and the figures thereon, the figures shall be taken as correct.
- c. Scale Drawings, full-size details, and Specifications are intended to be fully complementary and to agree. Should any discrepancy between Contract Documents come to the CONTRACTOR's attention, or should an error occur in the efforts of others, which affect the Work, the CONTRACTOR shall notify the ENGINEER, in writing, at once. In the event any doubts or questions arise with respect to the true meaning of the Contract Documents, reference shall be made to the ENGINEER whose written decision shall be final. If the CONTRACTOR proceeds with the Work affected without written instructions from the ENGINEER, the CONTRACTOR shall be fully responsible for any resultant damage or defect.
- d. Anything mentioned in the Specifications and not indicated in the Plans, or indicated in the Plans and not mentioned in the Specifications, shall be of like effect as if indicated and mentioned in both. In case of discrepancy in the Plans or Specifications, the matter shall be immediately submitted to OCSD's ENGINEER, without whose decision CONTRACTOR shall not adjust said discrepancy save only at CONTRACTOR's own risk and expense. The decision of the ENGINEER shall be final.

In all matters relating to the acceptability of material, machinery or plant equipment; classifications of material or Work; the proper execution, progress or sequence of the Work; and quantities interpretation of the Contract Documents, the decision of the

ENGINEER shall be final and binding, and shall be a condition precedent to any payment

under the Contract, unless otherwise ordered by the Board of Directors.

B. Definitions

Capitalized terms used in this Contract are defined in the General Conditions, Definitions.

Additional terms may be defined in the Special Provisions.

SECTION – 2 MATERIALS AND LABOR

CONTRACTOR shall furnish, under the conditions expressed in the Plans and Specifications, at

CONTRACTOR'S own expense, all labor and materials necessary, except such as are

mentioned in the Specifications to be furnished by OCSD, to construct and complete the

Project, in good workmanlike and substantial order. If CONTRACTOR fails to pay for labor or

materials when due, OCSD may settle such claims by making demand upon the Surety to this

Contract. In the event of the failure or refusal of the Surety to satisfy said claims, OCSD may

settle them directly and deduct the amount of payments from the Contract Price and any

amounts due to CONTRACTOR. In the event OCSD receives a stop payment notice from any

laborer or material supplier alleging non-payment by CONTRACTOR, OCSD shall be entitled to

deduct all of its costs and expenses incurred relating thereto, including but not limited to

administrative and legal fees.

SECTION – 3 PROJECT

The Project is described as:

PROJECT NO. MP-638

ACTIVATED SLUDGE PLANT CLARIFIER INLET GATE REPLACEMENT AT PLANT NO. 2

SECTION – 4 PLANS AND SPECIFICATIONS

The Work to be done is shown in a set of Plans and Specifications entitled:

PROJECT NO. MP-638

ACTIVATED SLUDGE PLANT CLARIFIER INLET GATE REPLACEMENT AT PLANT NO. 2

C-CA-072619

PROJECT NO. MP-638

ACTIVATED SLUDGE PLANT CLARIFIER INLET GATE REPLACEMENT AT PLANT NO. 2

Said Plans and Specifications and any revision, amendments and addenda thereto are attached hereto and incorporated herein as part of this Contract and referred to by reference.

SECTION – 5 TIME OF COMMENCEMENT AND COMPLETION

CONTRACTOR agrees to commence the Project within 15 calendar days from the date set forth in the "Notice to Proceed" sent by OCSD, unless otherwise specified therein and shall diligently prosecute the Work to completion within three hundred sixty-five (365) calendar days from the date of the "Notice to Proceed" issued by OCSD, excluding delays caused or authorized by OCSD as set forth in Sections 7, 8, and 9 hereof, and applicable provisions in the General Conditions. The time for completion includes ten (10) calendar days determined by OCSD likely to be inclement weather when CONTRACTOR will be unable to work.

SECTION - 6 TIME IS OF THE ESSENCE

Time is of the essence of this Contract. As required by the Contract Documents, CONTRACTOR shall prepare and obtain approval of all shop drawings, details and samples, and do all other things necessary and incidental to the prosecution of CONTRACTOR's Work in conformance with an approved construction progress schedule. CONTRACTOR shall coordinate the Work covered by this Contract with that of all other contractors, subcontractors and of OCSD, in a manner that will facilitate the efficient completion of the entire Work and accomplish the required milestone(s), if any, by the applicable deadline(s) in accordance with Section 5 herein. OCSD shall have the right to assert complete control of the premises on which the Work is to be performed and shall have the right to decide the time or order in which the various portions of the Work shall be installed or the priority of the work of subcontractors, and, in general, all matters representing the timely and orderly conduct of the Work of CONTRACTOR on the premises.

SECTION - 7 EXCUSABLE DELAYS

CONTRACTOR shall only be excused for any delay in the prosecution or completion of the

Project as specifically provided in General Conditions, "Extensions for Delay", and the General

Requirements, "By CONTRACTOR or Others – Unknown Utilities during Contract Work".

Extensions of time and extra compensation arising from such excusable delays will be

determined in accordance with the General Conditions, "Extension of Time for Delay" and

"Contract Price Adjustments and Payments", and extensions of time and extra compensation as

a result of incurring undisclosed utilities will be determined in accordance with General

Requirements, "By CONTRACTOR or Others – Unknown Utilities during Contract Work".

OCSD's decision will be conclusive on all parties to this Contract.

SECTION – 8 EXTRA WORK

The Contract Price as set forth in Section 11, includes compensation for all Work performed by

CONTRACTOR, unless CONTRACTOR obtains a Change Order signed by a designated

representative of OCSD specifying the exact nature of the Extra Work and the amount of extra

compensation to be paid all as more particularly set forth in Section 9 hereof and the General

Conditions, "Request for Change (Changes at CONTRACTOR's Request)", "OWNER Initiated

Changes", and "Contract Price Adjustments and Payments".

In the event a Change Order is issued by OCSD pursuant to the Contract Documents, OCSD

shall extend the time fixed in Section 5 for completion of the Project by the number of days, if

any, reasonably required for CONTRACTOR to perform the Extra Work, as determined by

OCSD's ENGINEER. The decision of the ENGINEER shall be final.

SECTION – 9 CHANGES IN PROJECT

OCSD may at any time, without notice to any Surety, by Change Order, make any changes in

the Work within the general scope of the Contract Document, including but not limited to

changes:

C-CA-072619

PROJECT NO. MP-638

ACTIVATED SLUDGE PLANT CLARIFIER INLET GATE REPLACEMENT AT PLANT NO. 2

CONFORMED

Page 6 of 25

- 1. In the Specifications (including Drawings and designs);
- 2. In the time, method or manner of performance of the Work;
- 3. In OCSD-furnished facilities, equipment, materials, services or site; or
- 4. Directing acceleration in the performance of the Work.

No change of period of performance or Contract Price, or any other change in the Contract Documents, shall be binding until the Contract is modified by a fully executed Change Order.

All Change Orders shall be issued in accordance with the requirements set forth in the General Conditions, "Request for Change (Changes at CONTRACTOR's Request)" and "OWNER Initiated Changes".

SECTION – 10 LIQUIDATED DAMAGES FOR DELAY

Liquidated Damages shall be payable in the amounts and upon the occurrence of such events or failure to meet such requirements or deadlines as provided in the Special Provisions, "Liquidated Damages and Incentives."

SECTION – 11 CONTRACT PRICE AND METHOD OF PAYMENT

A. OCSD agrees to pay and the CONTRACTOR agrees to accept as full consideration for the faithful performance of this Contract, subject to any additions or deductions as provided in approved Change Orders, the sum of Six Hundred Fifty Eight Thousand Three Hundred Dollars (\$658,300) as itemized on the Attached Exhibit "A".

Upon satisfaction of the conditions precedent to payment set forth in the General Requirements, Additional General Requirements and General Conditions (including but not limited to Sections entitled "Mobilization Payment Requirements" and "Payment Itemized Breakdown of Contract Lump Sum Prices"), there shall be paid to the CONTRACTOR an initial Net Progress Payment for mobilization. OCSD shall issue at the commencement of the job a schedule which shows:

1. A minimum of one payment to be made to the CONTRACTOR for each successive

four (4) week period as the Work progresses, and

2. The due dates for the CONTRACTOR to submit requests for payment to meet the

payment schedule.

After the initial Net Progress Payment, and provided the CONTRACTOR submits the

request for payment prior to the end of the day required to meet the payment schedule,

the CONTRACTOR shall be paid a Net Progress Payment on the corresponding monthly

payment date set forth in the schedule.

Payments shall be made on demands drawn in the manner required by law, accompanied

by a certificate signed by the ENGINEER, stating that the Work for which payment is

demanded has been performed in accordance with the terms of the Contract Documents,

and that the amount stated in the certificate is due under the terms of the Contract.

Payment applications shall also be accompanied with all documentation, records, and

releases as required by the Contract, Exhibit A, Schedule of Prices, and General

Conditions, "Payment for Work – General". The Total amount of Progress Payments shall

not exceed the actual value of the Work completed as certified by OCSD's ENGINEER.

The processing of payments shall not be considered as an acceptance of any part of the

Work.

B. As used in this Section, the following defined terms shall have the following meanings:

1. "Net Progress Payment" means a sum equal to the Progress Payment less the

Retention Amount and other qualified deductions (Liquidated Damages, stop

payment notices, etc.).

2. "Progress Payment" means a sum equal to:

C-CA-072619

PROJECT NO. MP-638

- a. the value of the actual Work completed since the commencement of the Work
 - as determined by OCSD;
- b. plus the value of material suitably stored at the worksite, treatment plant or
- approved storage yards subject to or under the control of OCSD since the
 - commencement of the Work as determined by OCSD;
- c. less all previous Net Progress Payments;
- d. less all amounts of previously qualified deductions;
- e. less all amounts previously retained as Retention Amounts.
- 3. **"Retention Amount"** for each Progress Payment means the percentage of each

Progress Payment to be retained by OCSD to assure satisfactory completion of the

Contract. The amount to be retained from each Progress Payment shall be

determined as provided in the General Conditions – "Retained Funds; Substitution of

Securities."

SECTION – 12 SUBSTITUTION OF SECURITIES IN LIEU OF RETENTION OF FUNDS

Pursuant to Public Contract Code Section 22300 et seq., the CONTRACTOR may, at its sole

expense, substitute securities as provided in General Conditions – "Retained Funds;

Substitution of Securities."

SECTION – 13 COMPLETION

Final Completion and Final Acceptance shall occur at the time and in the manner specified in the

General Conditions, "Final Acceptance and Final Completion", "Final Payment" and Exhibit A -

Schedule of Prices.

Upon receipt of all documentation, records, and releases as required by the Contract from the

CONTRACTOR, OCSD shall proceed with the Final Acceptance as specified in General

Conditions.

SECTION – 14 CONTRACTOR'S EMPLOYEES COMPENSATION

A. Davis-Bacon Act:

CONTRACTOR will pay and will require all Subcontractors to pay all employees on said

Project a salary or wage at least equal to the prevailing rate of per diem wages as

determined by the Secretary of Labor in accordance with the Davis-Bacon Act for each

craft or type of worker needed to perform the Contract. The provisions of the Davis-Bacon

Act shall apply only if the Contract is in excess of Two Thousand Dollars (\$2,000.00) and

when twenty-five percent (25%) or more of the Contract is funded by federal assistance. If

the aforesaid conditions are met, a copy of the provisions of the Davis-Bacon Act to be

complied with are incorporated herein as a part of this Contract and referred to by

reference.

B. <u>General Prevailing Rate:</u>

OCSD has been advised by the State of California Director of Industrial Relations of its

determination of the general prevailing rate of per diem wages and the general prevailing

rate for legal holiday and overtime Work in the locality in which the Work is to be

performed for each craft or type of Work needed to execute this Contract, and copies of

the same are on file in the Office of the ENGINEER of OCSD. The CONTRACTOR

agrees that not less than said prevailing rates shall be paid to workers employed on this

public works Contract as required by Labor Code Section 1774 of the State of California.

Per California Labor Code 1773.2, OCSD will have on file copies of the prevailing rate of

per diem wages at its principal office and at each job site, which shall be made available to

any interested party upon request.

C. <u>Forfeiture for Violation:</u>

CONTRACTOR shall, as a penalty to OCSD, forfeit Two Hundred Dollars (\$200.00) for

each calendar day or portion thereof for each worker paid (either by the CONTRACTOR or

C-CA-072619

any Subcontractor under it) less than the prevailing rate of per diem wages as set by the Director of Industrial Relations, in accordance with Sections 1770-1780 of the California Labor Code for the Work provided for in this Contract, all in accordance with Section 1775 of the Labor Code of the State of California.

D. Apprentices:

Sections 1777.5, 1777.6, 1777.7 of the Labor Code of the State of California, regarding the employment of apprentices are applicable to this Contract and the CONTRACTOR shall comply therewith if the prime contract involves Thirty Thousand Dollars (\$30,000.00) or more.

E. Workday:

In the performance of this Contract, not more than eight (8) hours shall constitute a day's work, and the CONTRACTOR shall not require more than eight (8) hours of labor in a day from any person employed by him hereunder except as provided in paragraph (B) above. CONTRACTOR shall conform to Article 3, Chapter 1, Part 7 (Section 1810 et seq.) of the Labor Code of the State of California and shall forfeit to OCSD as a penalty, the sum of Twenty-five Dollars (\$25.00) for each worker employed in the execution of this Contract by CONTRACTOR or any Subcontractor for each calendar day during which any worker is required or permitted to labor more than eight (8) hours in any one calendar day and forty (40) hours in any one week in violation of said Article. CONTRACTOR shall keep an accurate record showing the name and actual hours worked each calendar day and each calendar week by each worker employed by CONTRACTOR in connection with the Project.

F. Registration; Record of Wages; Inspection:

CONTRACTOR shall comply with the registration requirements of Labor Code Section 1725.5.

Pursuant to Labor Code Section 1771.4, the Work is subject to compliance monitoring by the

California Department of Industrial Relations. CONTRACTOR shall maintain accurate payroll

records and shall submit payroll records to the Labor Commissioner pursuant to Labor Code

Section 1771.4(a)(3). Penalties for non-compliance with the requirements of Section 1776 may

be deducted from progress payments per Section 1776.

CONTRACTOR shall comply with the job site notices posting requirements established by

the Labor Commissioner per Title 8, California Code of Regulations Section 16461(e).

SECTION – 15 SURETY BONDS

CONTRACTOR shall, before entering upon the performance of this Contract, furnish Bonds

approved by OCSD's General Counsel - one in the amount of one hundred percent (100%) of

the Contract amount, to guarantee the faithful performance of the Work, and the other in the

amount of one hundred percent (100%) of the Contract amount to guarantee payment of all

claims for labor and materials furnished. As changes to the Contract occur via approved

Change Orders, the CONTRACTOR shall assure that the amounts of the Bonds are adjusted to

maintain 100% of the Contract Price. This Contract shall not become effective until such Bonds

are supplied to and approved by OCSD. Bonds must be issued by a Surety authorized by the

State Insurance Commissioner to do business in California. The Performance Bond shall

remain in full force and effect through the warranty period, as specified in Section 19 below. All

Bonds required to be submitted relating to this Contract must comply with California Code of

Civil Procedure Section 995.630. Each Bond shall be executed in the name of the Surety

insurer under penalty of perjury, or the fact of execution of each Bond shall be duly

acknowledged before an officer authorized to take and certify acknowledgments, and either one

of the following conditions shall be satisfied:

A. A copy of the transcript or record of the unrevoked appointment, power of attorney, by-

laws, or other instrument, duly certified by the proper authority and attested by the seal of

the insurer entitling or authorizing the person who executed the Bond to do so for and on

C-CA-072619

PROJECT NO. MP-638

behalf of the insurer, is on file in the Office of the County Clerk of the County of Orange; or A copy of a valid power of attorney is attached to the Bond.

SECTION – 16 INSURANCE

B.

CONTRACTOR shall purchase and maintain, for the duration of the Contract, insurance against claims for injuries to persons, or damages to property which may arise from or in connection with the performance of the Work hereunder, and the results of that Work by CONTRACTOR, its agents, representatives, employees, or Subcontractors, in amounts equal to the requirements set forth below. CONTRACTOR shall not commence Work under this Contract until all insurance required under this Section is obtained in a form acceptable to OCSD, nor shall CONTRACTOR allow any Subcontractor to commence Work on a subcontract until all insurance required of the Subcontractor has been obtained. CONTRACTOR shall maintain all of the foregoing insurance coverages in force through the point at which the Work under this Contract is fully completed and accepted by OCSD pursuant to the provisions of the General Conditions, "Final Acceptance and Final Completion". Furthermore, CONTRACTOR shall maintain all of the foregoing insurance coverages in full force and effect throughout the warranty period, commencing on the date of Final Acceptance. The requirement for carrying the foregoing insurance shall not derogate from the provisions for indemnification of OCSD by CONTRACTOR under Section 17 of this Contract. Notwithstanding nor diminishing the obligations of CONTRACTOR with respect to the foregoing, CONTRACTOR shall subscribe for and maintain in full force and effect during the life of this Contract, inclusive of all changes to the Contract Documents made in accordance with the provisions of the General Conditions, "Request for Change (Changes at CONTRACTOR's Request)" and/or "OWNER Initiated Changes", the following insurance in amounts not less than the amounts specified. OCSD reserves the right to amend the required limits of insurance commensurate with the CONTRACTOR's risk at any time during the course of the Project. No vehicles may enter

OCSD premises/worksite without possessing the required insurance coverage.

CONTRACTOR's insurance shall also comply with all insurance requirements prescribed by agencies from whom permits shall be obtained for the Work and any other third parties from whom third party agreements are necessary to perform the Work (collectively, the "Third Parties"), The Special Provisions may list such requirements and sample forms and requirements from such Third Parties may be included in an attachment to the General Requirements. CONTRACTOR bears the responsibility to discover and comply with all requirements of Third Parties, including meeting specific insurance requirements, that are necessary for the complete performance of the Work. To the extent there is a conflict between the Third Parties' insurance requirements and those set forth by OCSD herein, the requirement(s) providing the more protective coverage for both OSCD and the Third Parties shall control and be purchased and maintained by CONTRACTOR.

A. <u>Limits of Insurance</u>

- 1. <u>General Liability</u>: Three Million Dollars (\$3,000,000) per occurrence and a general aggregate limit of Three Million Dollars (\$3,000,000) for bodily injury, personal injury and property damage. Coverage shall include each of the following:
 - a. Premises-Operations.
 - b. Products and Completed Operations, with limits of at least Three Million Dollars (\$3,000,000) per occurrence and a general aggregate limit of Three Million Dollars (\$3,000,000) which shall be in effect at all times during the warranty period set forth in the Warranty section herein, and as set forth in the General Conditions, "Warranty (CONTRACTOR's Guarantee)", plus any additional extension or continuation of time to said warranty period that may be required or authorized by said provisions.

- c. Broad Form Property Damage, expressly including damage arising out of explosion, collapse, or underground damage.
- d. Contractual Liability, expressly including the indemnity provisions assumed under this Contract.
- Separation of Insured Clause, providing that coverage applies separately to each insured, except with respect to the limits of liability.
- f. Independent CONTRACTOR's Liability.
 - To the extent first dollar coverage, including defense of any claim, is not available to OCSD or any other additional insured because of any SIR, deductible, or any other form of self insurance, CONTRACTOR is obligated to assume responsibility of insurer until the deductible, SIR or other condition of insurer assuming its defense and/or indemnity has been satisfied.
- g. If a crane will be used, the General Liability insurance will be endorsed to add Riggers Liability coverage or its equivalent to cover the usage of the crane and exposures with regard to the crane operators, riggers and others involved in using the crane.

CONTRACTOR shall be responsible to pay any deductible or SIR.

- h. If divers will be used, the General Liability insurance will be endorsed to cover marine liability or its equivalent to cover the usage of divers.
- 2. <u>Automobile Liability</u>: The CONTRACTOR shall maintain a policy of Automobile Liability Insurance on a comprehensive form covering all owned, non-owned, and hired automobiles, trucks, and other vehicles providing the following minimum limits of liability coverage:

Either (1) a combined single limit of Two Million Dollars (\$2,000,000) and a general aggregate limit of Two Million Dollars (\$2,000,000) for bodily injury, personal injury

and property damage;

Or alternatively, (2) One Million Dollars (\$1,000,000) per person for bodily injury and

One Million Dollars (\$1,000,000) per accident for property damage.

3. <u>Umbrella Excess Liability</u>: The minimum limits of general liability and automobile

liability insurance required, as set forth above, shall be provided for either in a single

policy of primary insurance or a combination of policies of primary and umbrella

excess coverage. Excess liability coverage shall be issued with limits of liability

which, when combined with the primary insurance, will equal the minimum limits for

general liability and automobile liability.

4. <u>Drone Liability Insurance</u>: If a drone will be used, drone liability insurance must be

maintained by CONTRACTOR in the amount of One Million Dollars (\$1,000,000) in a

form acceptable by OCSD.

5. <u>Worker's Compensation/Employer's Liability</u>: CONTRACTOR shall provide such

Worker's Compensation Insurance as required by the Labor Code of the State of

California, including employer's liability with a minimum limit of One Million Dollars

(\$1,000,000) per accident for bodily injury or disease. If an exposure to Jones Act

liability may exist, the insurance required herein shall include coverage with regard to

Jones Act claims.

Where permitted by law, CONTRACTOR hereby waives all rights of recovery by

subrogation because of deductible clauses, inadequacy of limits of any insurance

policy, limitations or exclusions of coverage, or any other reason against OCSD, its

or their officers, agents, or employees, and any other contractor or subcontractor

performing Work or rendering services on behalf of OCSD in connection with the

C-CA-072619

planning, development and construction of the Project. In all its insurance coverages related to the Work, CONTRACTOR shall include clauses providing that each insurer shall waive all of its rights of recovery by subrogation against OCSD, its or their officers, agents, or employees, or any other contractor or subcontractor performing Work or rendering services at the Project. Where permitted by law, CONTRACTOR shall require similar written express waivers and insurance clauses from each of its Subcontractors of every tier. A waiver of subrogation shall be effective as to any individual or entity, even if such individual or entity (a) would otherwise have a duty of indemnification, contractual or otherwise, (b) did not pay the insurance premium, directly or indirectly, and (c) whether or not such individual or entity has an insurable interest in the property damaged.

6. Pollution Liability Insurance: CONTRACTOR shall purchase and maintain insurance for pollution liability covering bodily injury, property damage (including loss of use of damaged property or property that has not been physically injured or destroyed), cleanup costs, and defense costs (including costs and expenses for investigation, defense, or settlement of claims). Coverage shall carry limits of at least One Million Dollars (\$1,000,000) and shall apply to sudden and non-sudden pollution conditions (including sewage spills), both at the site or needed due to migration of pollutants from the site, resulting from the escape or release of smoke, vapors, fumes, acids, alkalis, toxic chemicals, liquids or gases, waste materials, or other irritants, contaminants or pollutants.

If CONTRACTOR provides coverage written on a claims-made basis, OCSD has the right to approve or reject such coverage in its own discretion. If written on a claims-made basis, the CONTRACTOR warrants that any retroactive date applicable to coverage under the policy precedes the effective date of this Contract, and that

continuous coverage will be maintained, or an extended discovery period will be exercised, for a period of two years beginning from the time that the Project under this Contract is completed.

7. <u>Limits are Minimums</u>: If CONTRACTOR maintains higher limits than the minimums shown in this Section, OCSD requires and shall be entitled to coverage for the higher limits maintained by the CONTRACTOR.

B. <u>Deductibles and Self-Insured Retentions</u>

Any deductibles or self-insured retentions must be declared to and approved by OCSD. At the option of OCSD, either: the Insurer shall reduce or eliminate such deductibles or self-insured retentions as respects OCSD, its Directors, officers, agents, CONSULTANTS, and employees; or CONTRACTOR shall provide a financial guarantee satisfactory to OCSD guaranteeing payment of losses and related investigations, claim administration, and defense expenses.

C. Other Insurance Provisions

- Each such policy of General Liability Insurance and Automobile Liability Insurance shall be endorsed to contain, the following provisions:
 - a. OCSD, its Directors, officers, agents, CONSULTANTS, and employees, and all public agencies from whom permits will be obtained, and their Directors, officers, agents, and employees are hereby declared to be additional insureds under the terms of this policy, but only with respect to the operations of CONTRACTOR at or from any of the sites of OCSD in connection with this Contract, or acts and omissions of the additional insured in connection with its general supervision or inspection of said operations related to this Contract.
 - Insurance afforded by the additional insured endorsement shall apply as
 primary insurance, and other insurance maintained by OCSD shall be excess

only and not contributing with insurance provided under this policy.

- 2. Each insurance policy required herein shall be endorsed to state that coverage shall not be cancelled by either party, except after thirty (30) days prior written notice by certified mail, return receipt requested, and that coverage shall not be cancelled for non-payment of premium except after ten (10) days prior written notice by certified mail, return receipt requested. Should there be changes in coverage or an increase in deductible or SIR amounts, CONTRACTOR undertakes to procure a manuscript endorsement from its insurer giving 30 days prior notice of such an event to OCSD, or to have its insurance broker/agent send to OCSD a certified letter describing the changes in coverage and any increase in deductible or SIR amounts. The certified letter must be sent Attention: Risk Management and shall be received not less than twenty (20) days prior to the effective date of the change(s). The letter must be signed by a Director or Officer of the broker/agent and must be on company letterhead, and may be sent via e-mail in pdf format.
- Coverage shall not extend to any indemnity coverage for the active negligence of any additional insured in any case where an agreement to indemnify the additional insured would be invalid under California Civil Code Section 2782(b).
- 4. If required by a public agency from whom permit(s) will be obtained, each policy of General Liability Insurance and Automobile Liability Insurance shall be endorsed to specify by name the public agency and its legislative members, officers, agents, CONSULTANTS, and employees, to be additional insureds.

D. <u>Acceptability of Insurers</u>

Insurers must have an "A-", or better, Policyholder's Rating, and a Financial Rating of at least Class VIII, or better, in accordance with the most current A.M. Best Rating Guide.

OCSD recognizes that State Compensation Insurance Fund has withdrawn from

participation in the A.M. Best Rating Guide process. Nevertheless, OCSD will accept

State Compensation Insurance Fund for the required policy of worker's compensation

insurance, subject to OCSD's option, at any time during the term of this Contract, to

require a change in insurer upon twenty (20) days written notice. Further, OCSD will

require CONTRACTOR to substitute any insurer whose rating drops below the levels

herein specified. Said substitution shall occur within twenty (20) days of written notice to

CONTRACTOR by OCSD or its agent.

E. <u>Verification of Coverage</u>

CONTRACTOR shall furnish OCSD with original certificates and mandatory endorsements

affecting coverage. Said policies and endorsements shall conform to the requirements

herein stated. All certificates and endorsements are to be received and approved by

OCSD before Work commences. OCSD reserves the right to require complete, certified

copies of all required insurance policies, including endorsements, affecting the coverage

required by these Specifications at any time.

F. Subcontractors

CONTRACTOR shall be responsible to establish insurance requirements for any

Subcontractors hired by CONTRACTOR. The insurance shall be in amounts and types

reasonably sufficient to deal with the risk of loss involving the Subcontractor's operations

and work. OCSD and any public agency issuing permits for the Project must be named as

"Additional Insured" on any General Liability or Automobile Liability policy obtained by a

Subcontractor. The CONTRACTOR must obtain copies and maintain current versions of

all Subcontractors' policies, Certificate of Liability and mandatory endorsements effecting

coverage. Upon request, CONTRACTOR must furnish OCSD with the above referenced

required documents.

C-CA-072619

PROJECT NO. MP-638

G. Required Forms and Endorsements

1. Required ACORD Form

a. Certificate of Liability Form 25

2. <u>Required Insurance Services Office, Inc. Endorsements</u> (when alternative forms are shown, they are listed in order of preference)

In the event any of the following forms are cancelled by Insurance Services Office, Inc. (ISO), or are updated, the ISO replacement form or equivalent must be supplied.

a. Commercial General Liability Form CG-0001 10 01

b. Additional Insured Including Form CG-2010 10 01 **and**Products-Completed Operations Form CG-2037 10 01

c. Waiver of Transfer of Rights of Form CG-2404 11 85; **or** Recovery Against Others to Us/ Form CG-2404 10 93 Waiver of Subrogation

3. Required State Compensation Insurance Fund Endorsements

a. Waiver of Subrogation Endorsement No. 2570

b. Cancellation Notice Endorsement No. 2065

4. <u>Additional Required Endorsements</u>

a. Notice of Policy Termination Manuscript Endorsement

5. Pollution Liability Endorsements

There shall be a Separation of Insured Clause or endorsement, providing that coverage applies separately to each insured, except with respect to the limits of liability. There shall also be an endorsement or policy language containing a waiver of subrogation rights on the part of the insurer.

OCSD, its directors, officers, agents, CONSULTANTS and employees and all public agencies from whom permits will be obtained as well as their directors, officers, agents, and employees shall be included as insureds under the policy. Any

additional insured endorsement shall contain language at least as broad as the

coverage language contained in ISO form CG 20 10 11 85 or alternatively in both

CG 20 10 10 01 and CG 20 37 10 01 together.

SECTION – 17 RISK AND INDEMNIFICATION

All Work covered by this Contract done at the site of construction or in preparing or delivering

materials to the site shall be at the risk of CONTRACTOR alone. CONTRACTOR shall save,

indemnify, defend, and keep OCSD and others harmless as more specifically set forth in

General Conditions, "General Indemnification".

SECTION – 18 TERMINATION

This Contract may be terminated in whole or in part in writing by OCSD in the event of

substantial failure by the CONTRACTOR to fulfill its obligations under this Agreement, or it may

be terminated by OCSD for its convenience provided that such termination is effectuated in a

manner and upon such conditions set forth more particularly in General Conditions,

"Termination for Default" and/or "Termination for Convenience", provided that no termination

may be effected unless proper notice is provided to CONTRACTOR at the time and in the

manner provided in said General Conditions. If termination for default or convenience is

effected by OCSD, an equitable adjustment in the price provided for in this Contract shall be

made at the time and in the manner provided in the General Conditions, "Termination for

Default" and "Termination for Convenience".

SECTION - 19 WARRANTY

The CONTRACTOR agrees to perform all Work under this Contract in accordance with the

Contract Documents, including OCSD's designs, Drawings and Specifications.

The CONTRACTOR guarantees for a period of at least one (1) year from the date of Final

Acceptance of the Work, pursuant to the General Conditions, "Final Acceptance and Final

Completion" that the completed Work is free from all defects due to faulty materials, equipment

C-CA-072619

PROJECT NO. MP-638

ACTIVATED SLUDGE PLANT CLARIFIER INLET GATE REPLACEMENT AT PLANT NO. 2

CONFORMED

Page 22 of 25

or workmanship and that it shall promptly make whatever adjustments or corrections which may be necessary to cure any defects, including repairs of any damage to other parts of the system resulting from such defects. OCSD shall promptly give notice to the CONTRACTOR of observed defects. In the event that the CONTRACTOR fails to make adjustments, repairs, corrections or other work made necessary by such defects, OCSD may do so and charge the CONTRACTOR the cost incurred. The CONTRACTOR's warranty shall continue as to any corrected deficiency until the later of (1) the remainder of the original one-year warranty period; or (2) one year after acceptance by OCSD of the corrected Work. The Performance Bond and the Payment Bond shall remain in full force and effect through the guarantee period.

The CONTRACTOR's obligations under this clause are in addition to the CONTRACTOR's other express or implied assurances under this Contract, including but not limited to specific manufacturer or other extended warranties specified in the Plans and Specifications, or state law and in no way diminish any other rights that OCSD may have against the CONTRACTOR for faulty materials, equipment or Work.

SECTION - 20 ASSIGNMENT

No assignment by the CONTRACTOR of this Contract or any part hereof, or of funds to be received hereunder, will be recognized by OCSD unless such assignment has had prior written approval and consent of OCSD and the Surety.

SECTION – 21 RESOLUTION OF DISPUTES

OCSD and the CONTRACTOR shall comply with the provisions of California Public Contract Code Section 20104 et. seq., regarding resolution of construction claims for any Claims which arise between the CONTRACTOR and OCSD, as well as all applicable dispute and Claims provisions as set forth in the General Conditions and as otherwise required by law.

SECTION - 22 SAFETY & HEALTH

CONTRACTOR shall comply with all applicable safety and health requirements mandated by

federal, state, city and/or public agency codes, permits, ordinances, regulations, and laws, as

well as these Contract Documents, including but not limited to the General Requirements,

Section entitled "Safety" and Exhibit B OCSD Safety Standards.

SECTION - 23 NOTICES

Any notice required or permitted under this Contract shall be sent by certified mail, return receipt

requested, at the address set forth below. Any party whose address changes shall notify the

other party in writing.

TO OCSD: Orange County Sanitation District

10844 Ellis Avenue

Fountain Valley, California 92708-7018

Attn: Clerk of the Board

Copy to: Orange County Sanitation District

10844 Ellis Avenue

Fountain Valley, California 92708-7018

Attn: Construction Manager

Bradley R. Hogin, Esquire Woodruff, Spradlin & Smart

555 Anton Boulevard

Suite 1200

Costa Mesa, California 92626

TO CONTRACTOR: Innovative Construction Solutions

575 Anton Blvd, Suite 850 Costa Mesa, CA 92626

Copy to: Hirad Emadi, President

Innovative Construction Solutions

575 Anton Blvd, Suite 850 Costa Mesa, CA 92626

C-CA-072619

date first hereinal	pove written.
CONTRACTOR:	Innovative Construction Solutions 575 Anton Blvd, Suite 850 Costa Mesa, CA 92626
	By
	Printed Name
	lts
	CONTRACTOR's State License No. 764815 (Expiration Date – 06/30/2021)
OCSD:	Orange County Sanitation District
	By David John Shawver Board Chairman
	By Kelly A. Lore Clerk of the Board
	By Ruth Zintzun Purchasing & Contracts Manager

IN WITNESS WHEREOF, the parties hereto have executed this Contract Agreement as the

EXHIBIT A SCHEDULE OF PRICES

TABLE OF CONTENTS EXHIBIT A SCHEDULE OF PRICES

EXA-1	BASIS OF COMPENSATION	1
EXA-2	PROGRESS PAYMENTS	1
EXA-3	RETENTION AND ESCROW ACCOUNTS	1
EXA-4	STOP PAYMENT NOTICE	3
EXA-5	PAYMENT TO SUBCONTRACTORS	3
EXA-6	PAYMENT OF TAXES	3
EXA-7	FINAL PAYMENT	4
EXA-8	DISCOVERY OF DEFICIENCIES BEFORE AND AFTER FINAL PAYMENT	5
ATTACH	HMENT 1 – CERTIFICATION FOR REQUEST FOR PAYMENT	7
ATTACH	HMENT 2 – SCHEDULE OF PRICES	8

EXHIBIT A SCHEDULE OF PRICES

EXA-1 BASIS OF COMPENSATION

CONTRACTOR will be paid the Contract Price according to the Schedule of Prices, and all other applicable terms and conditions of the Contract Documents.

EXA-2 PROGRESS PAYMENTS

Progress payments will be made in accordance with all applicable terms and conditions of the Contract Documents, including, but not limited to:

- 1. Contract Agreement Section 11 "Contract Price and Method of Payment;"
- 2. General Conditions "Payment General";
- 3. General Conditions "Payment Applications for Payment";
- 4. General Conditions "Payment Mobilization Payment Requirements;"
- 5. General Conditions "Payment Itemized Breakdown of Contract Lump Sum Prices";
- 6. General Conditions "Contract Price Adjustments and Payments";
- 7. General Conditions "Suspension of Payments";
- 8. General Conditions "OCSD's Right to Withhold Certain Amounts and Make Application Thereof"; and
- 9. General Conditions "Final Payment."

EXA-3 RETENTION AND ESCROW ACCOUNTS

A. Retention:

OCSD shall retain a percentage of each progress payment to assure satisfactory completion of the Work. The amount to be retained from each progress payment shall be determined as provided in General Conditions – "Retained Funds; Substitution of Securities". In all contracts between CONTRACTOR and its Subcontractors and/or Suppliers, the retention may not exceed the percentage specified in the Contract Documents.

B. Substitution of Securities:

CONTRACTOR may, at its sole expense, substitute securities as provided in General Conditions – "Retained Funds; Substitution of Securities." Payment of Escrow Agent:

In lieu of substitution of securities as provided above, the CONTRACTOR may request and OCSD shall make payment of retention earned directly to the escrow agent at the expense of the CONTRACTOR. At the expense of the CONTRACTOR, the CONTRACTOR may direct the investment of the payments into securities consistent with Government Code §16430 and the CONTRACTOR shall receive the interest earned on the investments upon the same terms provided for in this article for securities deposited by the CONTRACTOR. Upon satisfactory completion of the Contract, the CONTRACTOR shall receive from the escrow agent all securities, interest and payments received by the escrow agent from OCSD, pursuant to the terms of this article. The CONTRACTOR shall pay to each Subcontractor, not later than twenty (20) calendar days after receipt of the payment, the respective amount of interest earned, net of costs attributed to retention withheld from each Subcontractor, on the amount of retention withheld to ensure the performance of the Subcontractor. The escrow agreement used by the escrow agent pursuant to this article shall be substantially similar to the form set forth in §22300 of the California Public Contract Code.

C. Release of Retention:

Upon Final Acceptance of the Work, the CONTRACTOR shall submit an invoice for release of retention in accordance with the terms of the Contract.

D. Additional Deductibles:

In addition to the retentions described above, OCSD may deduct from each progress payment any or all of the following:

- 1. Liquidated Damages that have occurred as of the date of the application for progress payment;
- Deductions from previous progress payments already paid, due to OCSD's discovery of deficiencies in the Work or non-compliance with the Specifications or any other requirement of the Contract;
- Sums expended by OCSD in performing any of the CONTRACTOR'S obligations under the Contract that the CONTRACTOR has failed to perform, and;
- 4. Other sums that OCSD is entitled to recover from the CONTRACTOR under the terms of the Contract, including without limitation insurance deductibles and assessments.

The failure of OCSD to deduct any of the above-identified sums from a progress payment shall not constitute a waiver of OCSD's right to such sums or to deduct them from a later progress payment.

EXA-4 STOP PAYMENT NOTICE

In addition to other amounts properly withheld under this article or under other provisions of the Contract, OCSD shall retain from progress payments otherwise due the CONTRACTOR an amount equal to one hundred twenty-five percent (125%) of the amount claimed under any stop payment notice under Civil Code §9350 et. seq. or other lien filed against the CONTRACTOR for labor, materials, supplies, equipment, and any other thing of value claimed to have been furnished to and/or incorporated into the Work; or for any other alleged contribution thereto. In addition to the foregoing and in accordance with Civil Code §9358 OCSD may also satisfy its duty to withhold funds for stop payment notices by refusing to release funds held in escrow pursuant to public receipt of a release of stop payment notice executed by a stop payment notice claimant, a stop payment notice release bond, an order of a court of competent jurisdiction, or other evidence satisfactory to OCSD that the CONTRACTOR has resolved such claim by settlement.

EXA-5 PAYMENT TO SUBCONTRACTORS

Requirements

- The CONTRACTOR shall pay all Subcontractors for and on account of Work performed by such Subcontractors, not later than seven (7) days after receipt of each progress payment as required by the California Business and Professions Code §7108.5. Such payments to Subcontractors shall be based on the measurements and estimates made pursuant to article progress payments provided herein.
- Except as specifically provided by law, the CONTRACTOR shall pay all Subcontractors any and all retention due and owing for and on account of Work performed by such Subcontractors not later than seven (7) days after CONTRACTOR'S receipt of said retention proceeds from OCSD as required by the California Public Contract Code §7107.

EXA-6 PAYMENT OF TAXES

Unless otherwise specifically provided in this Contract, the Contract Price includes full compensation to the CONTRACTOR for all taxes. The CONTRACTOR shall pay all federal, state, and local taxes, and duties applicable to and assessable against any Work, including but not limited to retail sales and use, transportation, export, import, business, and special taxes. The CONTRACTOR shall ascertain and pay the taxes when due. The CONTRACTOR will maintain auditable records, subject to OCSD reviews, confirming that tax payments are current at all times.

EXA-7 FINAL PAYMENT

After Final Acceptance of the Work, as more particularly set forth in the General Conditions, "Final Acceptance and Final Completion", and after Resolution of the Board authorizing final payment and satisfaction of the requirements as more particularly set forth in General Conditions – "Final Payment", a final payment will be made as follows:

- 1. Prior to Final Acceptance, the CONTRACTOR shall prepare and submit an application for Final Payment to OCSD, including:
 - The proposed total amount due the CONTRACTOR, segregated by items on the payment schedule, amendments, Change Orders, and other bases for payment;
 - b. Deductions for prior progress payments;
 - c. Amounts retained;
 - d. A conditional waiver and release on final payment for each Subcontractor (per Civil Code Section 8136);
 - e. A conditional waiver and release on final payment on behalf of the CONTRACTOR (per Civil Code Section 8136);
 - f. List of Claims the CONTRACTOR intends to file at that time or a statement that no Claims will be filed.
 - g. List of pending unsettled claims, stating claimed amounts, and copies of any and all complaints and/or demands for arbitration received by the CONTRACTOR; and
 - h. For each and every claim that resulted in litigation or arbitration which the CONTRACTOR has settled, a conformed copy of the Request for Dismissal with prejudice or other satisfactory evidence the arbitration is resolved.
- 2. The application for Final Payment shall include complete and legally effective releases or waivers of liens and stop payment notices satisfactory to OCSD, arising out of or filed in connection with the Work. Prior progress payments shall be subject to correction in OCSD's review of the application for Final Payment. Claims filed with the application for Final Payment must be otherwise timely under the Contract and applicable law.
- 3. Within a reasonable time, OCSD will review the CONTRACTOR'S application for Final Payment. Any recommended changes or corrections will then be forwarded to the CONTRACTOR. Within ten (10) calendar days after receipt of recommended changes from OCSD, the CONTRACTOR will make the changes, or list Claims that will be filed as a result of the changes, and shall submit the revised application for Final Payment. Upon

- acceptance by OCSD, the revised application for Final Payment will become the approved application for Final Payment.
- 4. If no Claims have been filed with the initial or any revised application for Final Payment, and no Claims remain unsettled within thirty-five (35) calendar days after Final Acceptance of the Work by OCSD, and agreements are reached on all issues regarding the application for Final Payment, OCSD, in exchange for an executed release, satisfactory in form and substance to OCSD, will pay the entire sum found due on the approved application for Final Payment, including the amount, if any, allowed on settled Claims.
- 5. The release from the CONTRACTOR shall be from any and all Claims arising under the Contract, except for Claims that with the concurrence of OCSD are specifically reserved, and shall release and waive all unreserved Claims against OCSD and its officers, directors, employees and authorized representatives. The release shall be accompanied by a certification by the CONTRACTOR that:
 - a. It has resolved all Subcontractors, Suppliers and other Claims that are related to the settled Claims included in the Final Payment;
 - b. It has no reason to believe that any party has a valid claim against the CONTRACTOR or OCSD which has not been communicated in writing by the CONTRACTOR to OCSD as of the date of the certificate;
 - c. All warranties are in full force and effect, and;
 - d. The releases and the warranties shall survive Final Payment.
- 6. If any claims remain open, OCSD may make Final Payment subject to resolution of those claims. OCSD may withhold from the Final Payment an amount not to exceed one hundred fifty percent (150%) of the sum of the amounts of the open claims, and one hundred twenty-five percent (125%) of the amounts of open stop payment notices referred to in article entitled stop payment notices herein.
- 7. The CONTRACTOR shall provide an unconditional waiver and release on final payment from each Subcontractor and Supplier providing Work under the Contract (per Civil Code Section 8138) and an unconditional waiver and release on final payment on behalf of the CONTRACTOR (per Civil Code Section 8138) within thirty (30) days of receipt of Final Payment.

EXA-8 DISCOVERY OF DEFICIENCIES BEFORE AND AFTER FINAL PAYMENT

Notwithstanding OCSD's acceptance of the application for Final Payment and irrespective of whether it is before or after Final Payment has been made, OCSD shall not be precluded from subsequently showing that:

1. The true and correct amount payable for the Work is different from that previously accepted;

- 2. The previously-accepted Work did not in fact conform to the Contract requirements, or;
- 3. A previous payment or portion thereof for Work was improperly made.

OCSD also shall not be stopped from demanding and recovering damages from the CONTRACTOR, as appropriate, under any of the foregoing circumstances as permitted under the Contract or applicable law.

ATTACHMENT 1 - CERTIFICATION FOR REQUEST FOR PAYMENT

I hereby certify under penalty of perjury as follows:

That the claim for payment is in all respects true, correct; that the services mentioned herein were actually rendered and/or supplies delivered to OCSD in accordance with the Contract.

I understand that it is a violation of both the federal and California False Claims Acts to knowingly present or cause to be presented to OCSD a false claim for payment or approval.

A claim includes a demand or request for money. It is also a violation of the False Claims Acts to knowingly make use of a false record or statement to get a false claim paid. The term "knowingly" includes either actual knowledge of the information, deliberate ignorance of the truth or falsity of the information, or reckless disregard for the truth or falsity of the information. Proof of specific intent to defraud is not necessary under the False Claims Acts. I understand that the penalties under the Federal False Claims Act and State of California False Claims Act are non-exclusive, and are in addition to any other remedies which OCSD may have either under contract or law.

I hereby further certify, to the best of my knowledge and belief, that:

- 1. The amounts requested are only for performance in accordance with the Specifications, terms, and conditions of the Contract;
- 2. Payments to Subcontractors and Suppliers have been made from previous payments received under the Contract, and timely payments will be made from the proceeds of the payment covered by this certification;
- 3. This request for progress payments does not include any amounts which the prime CONTRACTOR intends to withhold or retain from a Subcontractor or Supplier in accordance with the terms and conditions of the subcontract; and

	performance.	
 Na	ame	

Name			
Title			
 Date			

ATTACHMENT 2 – SCHEDULE OF PRICES

See next pages for Bid Submittal Forms (Innovative Construction Solutions) BF-14 SCHEDULE OF PRICES, Page 1 - 2

(Name of Firm)

BF-14 SCHEDULE OF PRICES

INSTRUCTIONS

A. General

For Unit Prices, it is understood that the following quantities are approximate only and are solely for the purpose of estimating the comparison of Bids, and that the actual value of Work will be computed based upon the actual quantities in the completed Work, whether they be more or less than those shown. CONTRACTOR's compensation for the Work under the Contract Documents will be computed based upon the lump sum amount of the Contract at time of award, plus any additional or deleted costs approved by OCSD via approved Change Orders, pursuant to the Contract Documents.

Bidder shall separately price and accurately reflect costs associated with each line item, leaving no blanks. Any and all modifications to the Bid must be initialed by an authorized representative of the Bidder in accordance with the Instructions to Bidders, Preparation of Bid.

Bidders are reminded of Instruction to Bidders, Discrepancy in Bid Items, which, in summary, provides that the total price for each item shall be based on the Unit Price listed for each item multiplied by the quantity; and the correct Total Price for each item shall be totaled to determine the Total Amount of Bid.

All applicable costs including overhead and profit shall be reflected in the respective unit costs and the TOTAL AMOUNT OF BID. The Bid price shall include all costs to complete the Work, including profit, overhead, etc., unless otherwise specified in the Contract Documents. All applicable sales taxes, state and/or federal, and any other special taxes, patent rights or royalties shall be included in the prices quoted in this Bid.

B. Basis of Award

AWARD OF THE CONTRACT WILL BE MADE ON THE BASIS OF THE LOWEST RESPONSIVE AND RESPONSIBLE BID.

Note 1: Base Bid. Includes all costs necessary to furnish all labor, materials, equipment and services for the construction of the Project per the Contract Documents.

Bid Submitted By: <u>Innovative Construction Solutions</u>

(Name of Firm)

EXHIBIT A SCHEDULE OF PRICES

BASE BID ITEMS (Refer to Note 1 in the Instructions):

Item No.	Description	Unit of Measurement	Approx Qty	Unit Price		Extended Price
1.	Mobilization	Lump Sum			=	\$40,000
2.	Inlet Gates and Remaining Work	Lump Sum			=	\$ 618,300

TOTAL AMOUNT OF BID (BASIS OF AWARD)

s 658,300



Orange County Sanitation District

Administration Building 10844 Ellis Avenue Fountain Valley, CA 92708 (714) 593-7433

OPERATIONS COMMITTEE

Agenda Report

FROM: James D. Herberg, General Manager

Originator: Rob Thompson, Assistant General Manager

SUBJECT:

AGREEMENT FOR THE PURCHASE OF LIQUID CATIONIC POLYMER, SPECIFICATION NO. C-2019-1087BD

GENERAL MANAGER'S RECOMMENDATION

RECOMMENDATION:

- A. Approve a Chemical Supplier Agreement with Polydyne, Inc. for the purchase of Cationic Polymer, Specification No. C-2019-1087BD, for the period beginning February 1, 2020 through January 31, 2021 for a unit price of \$2.548 per active pound plus freight and applicable sales tax, for a total estimated annual amount of \$3,866,280 with four (4) one-year renewal options; and
- B. Approve an annual unit price contingency of 15%.

BACKGROUND

The cationic polymer is a crucial chemical in the thickening and dewatering processes. The Orange County Sanitation District (Sanitation District) currently uses cationic polymer to dewater digested sludge in the centrifuges at both Plant Nos. 1 and 2. It is mixed into the digested biosolids prior to the dewatering centrifuge process to induce coagulation and to improve dewaterability. Cationic polymer is also used to thicken primary and secondary solids at both Plant Nos. 1 and 2. The thickening process increases the concentration of solids introduced to the digesters which is necessary to maintain regulatory standards for digester detention time and volatile solids reduction.

The unit cost of \$2.548 per active pound is a 13% savings from the current unit cost of \$2.947 per active pound in the current contract.

RELEVANT STANDARDS

- Safe, beneficial reuse of Biosolids
- Use all practical and effective means for resource recovery
- Sustain 1, 5, 20-year planning horizons

File #: 2019-824 Agenda Date: 12/18/2019 Agenda Item No: 9.

PROBLEM

The current cationic polymer contract with Polydyne, Inc. will end on January 31, 2019 with no renewals remaining.

PROPOSED SOLUTION

Develop cationic polymer specifications for new and existing thickening processes and conduct the standard competitive bid process to award the agreement to the lowest responsive and responsible bidder.

TIMING CONCERNS

A new agreement needs to be in place prior to the expiration of the current agreement on January 31, 2019.

RAMIFICATIONS OF NOT TAKING ACTION

A shortage in cationic polymer would result in an inability for the Sanitation District's thickening processes to operate correctly which would reduce digester operating volume, reduce biosolids production, and increase offsite biosolids hauling.

PRIOR COMMITTEE/BOARD ACTIONS

November 2018 - Awarded sole source chemical agreement to SNF Polydyne, Inc.

ADDITIONAL INFORMATION

In accordance with Purchasing Ordinance No. OCSD-52, the Sanitation District selected a two-step bidding process which included a Request for Qualifications (RFQ) and a Notice Inviting Bids (NIB). Of the two companies that submitted their samples for testing, only one, Polydyne, Inc., was deemed responsive. The other prospective bidder, Univar, provided a sample, however they did not provide a complete bid and was deemed non-responsive.

Polydyne, Inc. submitted a bid for one polymer type, WE-1233, that had successfully passed the testing process. Staff recommends awarding to the lowest responsive and responsible bidder, Polydyne, Inc., for the purchase of cationic polymer, type WE-1233.

CEQA

N/A

FINANCIAL CONSIDERATIONS

This request complies with authority levels of the Sanitation District's Purchasing Ordinance. This item has been budgeted in the Proposed Budget Fiscal Years 2018-19 and 2019-20 Division 830 and 840 operating budgets (Line item: Section 6, Pages 84 and 88).

File #: 2019-824 **Agenda Date:** 12/18/2019 **Agenda Item No:** 9.

Date of Approval	Contract Amount	Contingency
12/18/2019	\$3,866,280	-
12/18/2019	Future Unit Price	15%

ATTACHMENT

The following attachment(s) may be viewed on-line at the OCSD website (www.ocsd.com) with the complete agenda package:

• Chemical Supplier Agreement

JS:MPV:cf:gc

CHEMICAL SUPPLIER AGREEMENT Purchase of Liquid Cationic Polymer Specification No. C-2019-1087BD

THIS AGREEMENT is made and entered into as of the date fully executed below, by and between Orange County Sanitation District, with a principal place of business at 10844 Ellis Avenue, Fountain Valley, CA 92708 (hereinafter referred to as "OCSD") and Polydyne, Inc. with a principal place of business at 1 Chemical Plant Road, Riceboro, GA 31323 (hereinafter referred to as "Supplier") collectively referred to as the "Parties".

WITNESSETH

WHEREAS, OCSD desires to temporarily engage Supplier to provide Cationic Polymer as described in Exhibit "A"; and

WHEREAS, Supplier submitted its Bid dated October 3, 2019; and

WHEREAS, on December 18, 2019, the Board of Directors of OCSD, by minute order, authorized execution of this Agreement between OCSD and Supplier; and

WHEREAS, OCSD has chosen Supplier to provide Cationic Polymer in accordance with Ordinance No. OCSD-52; and

NOW, THEREFORE, in consideration of the mutual promises and mutual benefits exchanged between the Parties, the Parties mutually agreed as follows:

1. Introduction

- 1.1 This Agreement and all exhibits hereto (called the "Agreement") is made by OCSD and the Supplier. The terms and conditions herein exclusively govern the purchase of Cationic Polymer as described in Exhibit "A".
- 1.2 Exhibits to this Agreement are incorporated by reference and made a part of this Agreement as though fully set forth at length herein.

Exhibit "A" Scope of Work

Exhibit "B" Bid

Exhibit "C" Acknowledgement of Insurance Requirements

Exhibit "D" OCSD Safety Standards

Exhibit "E" Human Resources Policies

Exhibit "F" Not Used

- 1.3 In the event of any conflict or inconsistency between the provisions of this Agreement and any of the provisions of the exhibits hereto, the provisions of this Agreement shall in all respects govern and control.
- 1.4 This Agreement may not be modified, changed, or supplemented, nor may any obligations hereunder be waived or extensions of time for performance granted, except by written instrument signed by both Parties.
- 1.5 The various headings in this Agreement are inserted for convenience only and shall not affect the meaning or interpretation of this Agreement or any section or provision hereof.

- 1.6 The term "days", when used in the Agreement, shall mean calendar days, unless otherwise noted as workdays.
- 1.7 The term "workday". Workdays are defined as all days that are not Saturday, Sunday, or OCSD observed holidays. Meetings with OCSD staff shall be scheduled from Monday through Thursday between the hours of 8 a.m. and 4 p.m. (exception is Operations staff who maintain plant operations 24 hours per day 7 days per week and work a rotated 12-hour shift) and shall conform to OCSD work schedules.
- 1.8 OCSD holidays (non-working days) are as follows: New Year's Day, Lincoln's Birthday, Presidents Day, Memorial Day, Independence Day, Labor Day, Veterans Day, Thanksgiving Day, Day after Thanksgiving, Christmas Eve, and Christmas Day.
- 1.9 Work Hours: The work required under this Agreement may include normal business hours, evenings, and weekends.
- 1.10 Supplier shall provide OCSD with all required premiums and/or overtime work at no charge beyond the total amount of the Agreement.
- 1.11 Except as expressly provided otherwise, OCSD accepts no liability for any expenses, losses, or action incurred or undertaken by Supplier as a result of work performed in anticipation of purchases of said services by OCSD.

2. Delivery

- 2.1 LOCATIONS: Deliveries shall be made in accordance with the Scope of Work, Exhibit "A".
- 2.2 OCSD will pay only for the actual quantity of Cationic Polymer delivered, based upon certified tare weight and net weight. The quantity invoiced by Supplier and payable by OCSD will be for the total net weight of Cationic Polymer delivered (loaded gross weight minus the tare weight). Tare weight shall be determined immediately after each delivery and prior to cleaning, emptying, or clearing the delivery tank.
- 2.3 A bill of lading shall accompany all shipments in accordance with Exhibit "A".
- **?.. Possession** Ownership and control of all Cationic Polymer delivered pursuant to this Agreement shall remain solely and exclusively with Supplier, until complete transfer of possession by delivery to OCSD at the designated locations is made by Supplier.

4. Quantity

- 4.1 OCSD makes no guarantee to actual use or quantity of Cationic Polymer purchased. Use may be sporadic based on the wastewater treatment requirements unique to each treatment plant.
- 4.2 OCSD will, through the term of this Agreement, purchase Cationic Polymer from Supplier exclusively, except when OCSD determines Supplier cannot make delivery within the time specified, with the quality and quantity specified, at the Agreement price, the level of Service is inadequate, OCSD unapproved increase in active dry pound rate or for any other default or breach of this Agreement. In such event, OCSD may purchase Cationic Polymer elsewhere and charge Supplier any difference in the delivered price to OCSD from that provided in this Agreement, or alternatively, OCSD may terminate the Agreement based on said breach or failure to deliver the specified product. Quality control tests will be performed

by OCSD on the delivered Cationic Polymer to ensure it is consistent with the requirements specified in Exhibit "A".

5. Pricing and Invoicing

- 5.1 Supplier will invoice for Cationic Polymer delivered in accordance with Exhibit "A", and in accordance with the unit price(s) listed in Exhibit "B". Prices shall include all cartage and taxes except California State Sales Tax. The sales tax will be paid by OCSD.
- 5.2 OCSD shall pay, net thirty (30) days, upon receipt and approval by OCSD of itemized invoices, submitted in a form acceptable to OCSD to enable audit of the charges thereon. Supplier shall email invoices to OCSD Accounts Payable at APStaff@OCSD.com and "INVOICE" with the Purchase Order Number and Cationic Polymer shall be referenced in the subject line. All invoices shall include a description of the delivery location, the delivery date and the unit price(s).

6. Modifications

- 6.1 This Agreement may be modified or changed only by written instrument in the form of an amendment to this Agreement signed by both Parties.
- 6.2 Pricing modifications: The prices established in this Agreement shall remain firm for the oneyear Agreement term. Quarterly pricing will not be accepted. Any adjustments made will allow for increases or decreases in the manufactured cost of the Cationic Polymer and will be based upon OCSD validated information furnished by Supplier and OCSD sources. Adjustments will only be reviewed on an annual basis. OCSD reserves the right to agree with or reject the proposed unit price increase or decrease.
- 6.3 Price changes may be made through the OCSD Purchase Order Process.
- 7. <u>Agreement Term</u> The Services provided under this Agreement shall be for the period of one (1) year commencing on February 1, 2020 and continuing through January 31, 2021.

8. Renewals

- 8.1 OCSD may exercise the option to renew the Agreement for up to four (4) one-year periods based upon the criteria set forth in Exhibit "A", if mutually acceptable terms can be negotiated. OCSD shall make no obligation to renew nor give reason if it elects not to renew.
- 8.1.1 Renewals may be made through the OCSD Purchase Order Process.
- 8.2 The prices established in the original Agreement may be adjusted. The adjustment will allow for any increase or decrease in the manufactured cost of the Cationic Polymer and will be based upon OCSD validated information furnished by Supplier and OCSD sources. Adjustments will only be reviewed on an annual basis. OCSD reserves the right to agree with or reject the proposed unit price increase or decrease.
- 8.2.1 Price adjustments shall be made through the Amendment process.

9. Termination

9.1 OCSD reserves the right to terminate this Agreement for its convenience, with or without cause, in whole or in part, at any time, by written notice from OCSD. Upon receipt of a termination notice, Supplier shall immediately discontinue all work under this Agreement (unless the notice directs otherwise). OCSD shall thereafter, within thirty (30) days, pay Supplier for work performed (cost and fee) to the date of termination. Supplier expressly

- waives any claim to receive anticipated profits to be earned during the uncompleted portion of this Agreement. Such notice of termination shall terminate this Agreement and release OCSD from any further fee, cost or claim hereunder by Supplier other than for work performed to the date of termination.
- 9.2 OCSD reserves the right to terminate this Agreement immediately upon OCSD's determination that Supplier is not meeting specification requirements for delivery of quantities needed, the level of service is inadequate, for poor quality of product, for OCSD unapproved increase in unit price(s), or any other default or breach of this Agreement.
- 9.3 OCSD may also immediately terminate for default of this Agreement in whole or in part by written notice to Supplier:
 - if Supplier becomes insolvent or files a petition under the Bankruptcy Act; or
 - if Supplier sells its business; or
 - if Supplier breaches any of the terms of this Agreement; or
 - if total amount of compensation exceeds the amount authorized under this Agreement.
- 9.4 All OCSD property in the possession or control of Supplier shall be returned by Supplier to OCSD upon demand, or at the termination of this Agreement, whichever occurs first.
- 10. <u>Indemnification and Hold Harmless</u> Supplier shall assume all responsibility for damages to property and/or injuries to persons, including accidental death, which may arise out of or be caused by Supplier's services under this Agreement, or by its subcontractor or by anyone directly or indirectly employed by Supplier, and whether such damage or injury shall accrue or be discovered before or after the termination of the Agreement. Except as to the sole active negligence of or willful misconduct of OCSD, Supplier shall indemnify, protect, defend and hold harmless OCSD, its elected and appointed officials, officers, agents and employees, from and against any and all claims, liabilities, damages or expenses of any nature, including attorneys' fees: (a) for injury to or death of any person or damage to property or interference with the use of property, arising out of or in connection with Supplier's performance under this Agreement, and/or (b) on account of any goods and services provided under this Agreement. This indemnification provision shall apply to any acts or omissions, willful misconduct, or negligent misconduct, whether active or passive, on the part of Supplier of or anyone employed by or working under Supplier. To the maximum extent permitted by law, Supplier's duty to defend shall apply whether or not such claims, allegations, lawsuits, or proceedings have merit or are meritless, or which involve claims or allegations that any of the parties to be defended were actively, passively, or concurrently negligent, or which otherwise assert that the parties to be defended are responsible, in whole or in part, for any loss, damage, or injury. Supplier agrees to provide this defense immediately upon written notice from OCSD, and with well qualified, adequately insured, and experienced legal counsel acceptable to OCSD. This section shall survive the expiration or early termination of the Agreement.
- 11. <u>Insurance</u> Supplier shall purchase and maintain, throughout the life of this Agreement and any periods of warranty or extensions, insurance in amounts equal to the requirements set forth in the signed Acknowledgement of Insurance Requirements, Exhibit "C". Supplier shall not commence work under this Agreement until all required insurance is obtained in a form acceptable to OCSD, nor shall Supplier allow any subcontractor to commence service pursuant to a subcontract until all insurance required of the subcontractor has been obtained. Failure to maintain required insurance coverage shall result in termination of this

Agreement.

- **12. Equipment Loss** OCSD will be responsible for any loss or damage to Supplier-owned equipment, when OCSD determines OCSD is at fault, only to the extent of OCSD's fault, and will reimburse Supplier for such loss or damage upon receipt of invoices, minus a deduction for any amount determined to be the fault of Supplier or its subcontractor or a third party.
- **13.** <u>Conflict of Interest and Reporting</u> Supplier shall at all times avoid conflict of interest or appearance of conflict of interest in performance of this Agreement.
- 14. <u>Supplier's Relationship to OCSD</u> Supplier's relationship to OCSD in the performance of this Agreement is that of an independent contractor. The personnel performing Services under this Agreement shall, at all times, be under Supplier's exclusive direction and control, and shall be employees of Supplier and not employees of OCSD. Supplier shall pay all wages, salaries and other amounts due its employees in connection with this Agreement, and shall be responsible for all legal reports and obligations respecting them, such as social security, income tax withholding, unemployment compensation, worker's compensation and similar matters.

15. OCSD Safety Standards

- 15.1 In addition to the requirements set forth in Exhibit "A", Supplier shall meet with personnel from OCSD'S Risk Management Division prior to providing Services to OCSD to review safety and accident prevention policies and procedures. All subcontractors should be present at this meeting. Supplier is responsible to inform all subcontractors of the items discussed at this meeting. Supplier shall not be permitted to provide Services to OCSD prior to this meeting.
- 15.2 OCSD requires Supplier and its subcontractor(s)to follow and ensure their employees follow all Federal, State, and local regulations as well as OCSD Safety Standards while working at OCSD locations. If during the course of the Agreement it is discovered that OCSD Safety Standards do not comply with Federal, State, or local regulations, then the Supplier is required to follow the most stringent regulatory requirement at no additional cost to OCSD. Supplier and all of its employees and subcontractors, shall adhere to all applicable OCSD Safety Standards attached hereto in Exhibit "D" and the Human Resources Policies attached hereto in Exhibit "E".
- 16. <u>Drug-Free Workplace</u> All employees of Supplier who will perform work under this Agreement must adhere to the California Drug-Free Workplace Act, Government Code Sections 8350 through 8357.
- **17.** <u>Assignments</u> Neither this Agreement nor any interest herein or any claim hereunder may be assigned by Supplier either voluntarily or by operation of law, nor may all or substantially all of this Agreement be further subcontracted by Supplier without the prior written consent of OCSD.
- 18. <u>Attorney's Fees</u> If any action at law or in equity is necessary to enforce or interpret the terms of this Agreement, the prevailing party shall be entitled to reasonable attorney's fees, costs and necessary disbursements, in addition to any other relief to which it may be entitled.

- 19. <u>Permits, Ordinances and Regulations</u> Any and all fees required by Federal, State, County, City and/or municipal laws, codes and/or tariffs that pertain to work performed under the terms of this Agreement shall be paid by Supplier. Fees demanded for obtaining certificates, including associated inspection fees and expenses of regulatory inspectors shall be paid by Supplier.
- **20.** <u>Training Certification</u> When required by regulation, certificates of training shall be maintained on-site for the duration of the activity that requires an employee of Supplier to be certified. Certificates shall be current. Lack of certificates when required will be cause for removal of offending personnel from the site, termination of the Agreement, or both.
- 21. <u>Compliance with Law</u> Supplier warrants that under the performance of this Agreement, it shall comply with all applicable Federal, State and local laws, and all lawful orders rules and regulations thereunder. In connection with the execution of this Agreement, Supplier shall not discriminate against employees or an applicant for employment because of race, religion, color, sex or national origin. Supplier shall take affirmative action to ensure that applicants are employed and employees are treated during their employment without regard to their race, religion, color, sex or national origin. Such action shall include, but not be limited to, the following: employment, upgrading, demotion or transfer; recruitment or recruitment advertising; lay-off or termination; rate of pay, or other forms of compensation; and selection for training, including apprenticeship.

22. Disputes

- 22.1 This Agreement shall be governed by and interpreted under the laws of the State of California and the Parties submit to jurisdiction in Orange County, in the event any action is brought in connection with this Agreement or the performance thereof. Pending final resolution of a dispute hereunder, Supplier shall proceed diligently with the performance of this Agreement and in accordance with OCSD'S decision.
- 22.2 In the event of a dispute as to the construction or interpretation of this Agreement, or any rights or obligations hereunder, the Parties shall first attempt, in good faith, to resolve the dispute by mediation. The Parties shall mutually select a mediator to facilitate the resolution of the dispute. If the Parties are unable to agree on a mediator, the mediation shall be conducted in accordance with the Commercial Mediation Rules of the American Arbitration Agreement, through the alternate dispute resolution procedures of Judicial Arbitration through Mediation Services of Orange County ("JAMS"), or any similar organization or entity conducting an alternate dispute resolution process.
- 22.3 In the event the Parties are unable to timely resolve the dispute through mediation, the issues in dispute shall be submitted to arbitration pursuant to California Code of Civil Procedure, Part 3, Title 9, Sections 1280 et seq. For such purpose, an agreed arbitrator shall be selected, or in the absence of Agreement, each party shall select an arbitrator, and those two (2) arbitrators shall select a third. Discovery may be conducted in connection with the arbitration proceeding pursuant to California Code of Civil Procedure Section 1283.05. The arbitrator, or three (3) arbitrators acting as a board, shall take such evidence and make such investigation as deemed appropriate and shall render a written decision on the matter in question. The arbitrator shall decide each and every dispute in accordance with the laws of the State of California. The arbitrator's decision and award shall be subject to review for errors of fact or law in the Superior Court for the County of Orange, with a right of appeal from any judgment issued therein.

23. Right to Review Services, Facilities, and Records

- 23.1 OCSD reserves the right to review any portion of the Services performed by Supplier under this Agreement, and Supplier agrees to cooperate to the fullest extent possible. Supplier shall furnish to OCSD such reports, statistical data, and other information pertaining to Supplier's Services as shall be reasonably required by OCSD to carry out its rights and responsibilities under its agreements with its bondholders or noteholders an in connection with the issuance of its official statements and other prospectuses with respect to the offering, sale, and issuance of its bond and other obligations.
- 23.2 The right of OCSD to review or approve specifications, procedures, instructions, reports, test results, calculations, schedules, or other data that are developed by Supplier shall not relieve Supplier of any obligation set forth herein.

24. Incorporated Documents

- 24.1 The Scope of Work, Bid, Acknowledgement of Insurance Requirements, OCSD Safety Standards, and Human Resources Policies are hereby incorporated into and made a part of this Agreement, and unless modified or changed hereinabove, are controlling for all matters pertaining to the supply of Cationic Polymer and the manner of performance thereof.
- 24.2 In the event of any conflict or inconsistency between the provisions of this Agreement and any of the provisions of the other incorporated documents, the provisions of this Agreement shall in all respects govern and control.
- **25. Severability** Any provision of this Agreement which is found to be invalid or unenforceable shall be ineffective to the extent of such invalidity or unenforceability, and the invalidity or unenforceability of such provision shall not affect the validity or enforceability of the remaining provisions hereof.
- **26.** <u>Waiver</u> The waiver of either party of any breach or violation of, or default under, any provision of this Agreement, shall not be deemed a continuing waiver by such party of any other provision or of any subsequent breach or violation of this Agreement or default thereunder.
- **27.** <u>Breach</u> Any breach by Supplier to which OCSD does not object shall not operate as a waiver of OCSD to seek remedies available to it for any subsequent breach.
- **28.** Public Contracts Law OCSD is subject to the provisions listed in the prevailing wage determination made by the Director of the Department of Industrial Relations pursuant to California Labor Code Part 7, Chapter 1, Article 2, Sections 1770, 1773 and 1773.1. It is agreed that all provisions of law applicable to public contracts are part of this Agreement to the same extent as though set forth herein and will be complied with by Supplier. Supplier shall not pay less than the prevailing wage.
- 29. South Coast Air Quality Management District's (SCAQMD) Requirements
 Supplier's responsibility that all equipment furnished and installed be in accordance with the latest rules and regulations of the South Coast Air Quality Management District (SCAQMD).
 All work practices, which may have associated emissions such as sandblasting, open field spray painting or demolition of asbestos containing components or structures, shall comply with the appropriate rules and regulations of the SCAQMD.
- **30. Performance** Time is of the essence in the performance of the provisions hereof.

- 31. <u>Familiarity with Work</u> By executing this Agreement, Supplier warrants that: 1) it has investigated the work to be performed; 2) it has investigated the site of the work and is aware of all conditions there; and 3) it understands the facilities, difficulties and restrictions of the work under this Agreement. Should Supplier discover any latent or unknown conditions materially differing from those inherent in the work or as represented by OCSD, it shall immediately inform OCSD of this and shall not proceed, except at Supplier's risk, until written instructions are received from OCSD.
- **32.** <u>Damage to OCSD'S Property</u> Any OCSD property damaged by Supplier, its subcontractor(s), or by the personnel of either will be subject to repair or replacement by Supplier at no cost to OCSD.
- **33.** <u>Third Party Rights</u> Nothing in this Agreement shall be construed to give any rights or benefits to anyone other than OCSD and Supplier.
- **34.** <u>Authority to Execute</u> The persons executing this Agreement on behalf of the Parties warrant that they are duly authorized to execute this Agreement and that by executing this Agreement, the Parties are formally bound.
- **35.** <u>Read and Understood</u> By signing this Agreement, Supplier represents that it has read and understood the terms and conditions of the Agreement.
- **36.** <u>Entire Agreement</u> This Agreement constitutes the entire agreement of the Parties and supersedes all prior written or oral and all contemporaneous oral agreements, understandings, and negotiations between the Parties with respect to the subject matter hereof.
- **37. Notices** All notices under this Agreement must be in writing. Written notice shall be sent by registered or certified mail, postage prepaid, return receipt requested, or by any other overnight delivery service which delivers to the noticed destination and provides proof of delivery to the sender. Any facsimile notice must be followed within three (3) days by written notice. All notices shall be effective when first received at the following addresses:

OCSD: Jackie Lagade

Senior Buyer

Orange County Sanitation District

10844 Ellis Avenue

Fountain Valley, CA 92708

Supplier: Boyd Stanley

Vice President Polydyne, Inc.

1 Chemical Plant Road Riceboro, GA 31323 *IN WITNESS WHEREOF*, intending to be legally bound, the Parties hereto have caused this Agreement to be signed by the duly authorized representatives.

ORANGE COUNTY SANITATION DISTRICT

Dated:	Bv:	
	, –	David John Shawver Board Chairman
Dated:	Ву: _	Kelly A. Lore
		Clerk of the Board
Dated:	By: _	
	, –	Ruth Zintzun Purchasing and Contracts Manager
	POLYI	DYNE, INC.
Dated:	Ву:	
		Print Name and Title of Officer
		IRS Employer's I.D. Number

Exhibit A

SCOPE OF WORK

For

Purchase of Liquid Cationic Polymer

EXHIBIT A SCOPE OF WORK PURCHASE OF LIQUID CATIONIC POLYMER Specification No. C-2019-1087BD

1. General

The purpose of this Scope of Work is to identify the criteria to provide cationic polymer (polymer) to the Orange County Sanitation District's (OCSD) wastewater treatment facilities at Plant 1, located at 10844 Ellis Avenue, Fountain Valley, California 92708 and Plant 2, located at 22212 Brookhurst Street, Huntington Beach, California 92646. The polymer will be used to dewater anaerobically digested sludge in dewatering centrifuges (DWC). The polymer will be also used in the thickening centrifuges (THC) at Plant 1 to thicken the sludge mixture from primary sludge, trickling filter sludge, surface wasting and secondary waste activated sludge (WAS). In addition to chemical supply, the Supplier shall remotely monitor and manage the polymer bulk inventory at both Plant 1 and Plant 2 by installing a telemetering system.

In thickening, blended sludge from the primary and secondary clarifiers, and trickling filters is pumped to the thickening centrifuges at a concentration of 3~4% total solids (TS) and thickened to 7% TS. In dewatering, digested sludge overflow is pumped to dewatering centrifuges at an average TS concentration of 3~4% and produce biosolids cake at an average 28% TS content.

Table 1 below identifies the criteria, including minimum performance targets, that polymers shall meet in the digested sludge dewatering unit.

Table 1. Cationic Polymers for Dewatering Processes at OCSD

Dewatering Unit	Cake %TS	TSS % Capture	Polymer Type	Polymer Usage* (active Ibs./year)	Minimum % Active	Current % Active
Plant 1 Centrifuge	24%	95%	Emulsion	790,000	35%	42.0%
Plant 2 Centrifuge	28%	95%	Emulsion	300,000	35%	42.0%

^{*} Estimated quantity. OCSD makes no guarantee to the actual quantity used or quantity of polymer purchased.

Table 2 below provides the criteria, including minimum performance targets, for polymers to meet in sludge thickening unit.

Table 2. Cationic Polymers for Thickening Processes at OCSD

Thickening Unit	Thick ened %TS	TSS % Capture	Polymer Type	Polymer Usage* (active Ibs/year)	Minimum % Active	Current % Active
Plant 2 DAFT	5%	95%	Emulsion	32,000	35%	42.0%
Plant 1 Centrifuge	7%	95%	Emulsion	250,000	35%	42.0%

^{*} Estimated quantity. OCSD makes no guarantee to the actual quantity used or quantity of polymer purchased.

If during the term of the Agreement OCSD determines that the polymers do not meet any of the minimum performance requirements above, the Supplier will be given one (1) month to optimize the system to meet the requirements. If after one (1) month of Supplier field testing the polymer still does not meet the minimum performance requirements, OCSD may, at its sole discretion, terminate the Agreement.

2. Polymer

The polymers will be used in digested sludge dewatering and sludge thickening.

2.1 Plant 1 Dewatering

Emulsion polymer is currently being used at Plant 1 Dewatering Centrifuge process to condition sludge for the dewatering centrifuges. In process, neat emulsion polymer is diluted down to a concentration of 0.5% active polymer concentration (5,000 mg/L) and injected into digested sludge through a static mixer, an upstream of the dewatering centrifuges.

The estimated polymer dosage rate is 25 active lb. polymer per ton of dry solids (lb/dt). The centrifuge is designed to handle a varied polymer dosage that can range from 20 active lb. polymer per ton of dry solids (lb/dt) to 30 lb/dt. The Supplier field testing is expected during the start-up period for chemical optimization. If the emulsion polymer used for the centrifuge does not meet minimum performance requirements within the estimated dosage rate, the Supplier must provide another polymer at the same polymer bid price.

Emulsion polymers submitted with a minimum % active concentration less than 35% will not be accepted. Polymers submitted for the Plant 1 dewatering must be accepted by OCSD. Polymers may be rejected if excessive nitrosodimethylamine (NDMA) is detected in the submitted sample.

2.2 Plant 2 Dewatering

Emulsion polymer is currently being used at Plant 2 Dewatering Centrifuge process to condition sludge for the dewatering centrifuges. In this process, neat emulsion polymer is diluted through a makedown unit to a concentration of 0.5% active polymer, and then further diluted down to a concentration of 0.10% - 0.25% before being fed to the centrifuges.

The estimated polymer dosage rate is 25 active lb. polymer per ton of dry solids (lb/dt). The centrifuge is designed to handle a varied polymer dosage that can range from 20 active lb. polymer per ton of dry solids (lb/dt) to 30 lb/dt. The Supplier field testing is expected during the start-up period for chemical optimization. If the emulsion polymer used for the centrifuge does not meet minimum performance requirements within the estimated dosage rate, the Supplier must provide another polymer at the same polymer Bid price.

Emulsion polymers submitted with a minimum % active concentration less than 35% will not be accepted. Polymers submitted for the Plant 2 dewatering must be accepted by OCSD. Polymers may be rejected if excessive NDMA is detected in the submitted sample.

2.3 Plant 1 Thickening

Emulsion polymer is currently being used at Plant 1 Thickening Centrifuge process to thicken blended primary and secondary WAS. In this process, neat emulsion polymer is fed through a makedown unit at 0.5% active polymer concentration and injected into the blended primary sludge and WAS through a static mixer, an upstream of the dewatering centrifuges.

The estimated polymer dosage rate is 10 active lb. polymer per ton of dry solids (lb/dt), and the centrifuge shall be designed to handle a varied polymer dosage that can range from 5 active lb. polymer per ton of dry solids (lb./dt) to 15 lb/dt. The Supplier field testing is expected during the start-up period for chemical optimization. If the emulsion polymer used for the centrifuge does not meet minimum performance requirements within the estimated dosage rate, the Supplier must provide another polymer at the same polymer bid price.

Emulsion polymers submitted with a minimum % active concentration less than 35% will not be accepted. Polymers submitted for the Plant 1 thickening process must be accepted by OCSD. Polymers may be rejected if excessive NDMA is detected in the submitted sample.

2.4 Plant 2 Thickening

Emulsion polymer is currently used at the Plant 2 thickening process to thicken WAS and Waste Secondary Sludge (WSS) for the Dissolved Air Floatation Thickener (DAFT). No other type of polymer will be accepted for this process unit. Neat emulsion polymer is diluted in a mix tank to a concentration of 0.2% to 0.4% before the polymer is fed to the WAS at the influent to the DAFT.

Emulsion polymers submitted with a minimum % active concentration less than 35% will not be accepted. Polymers submitted for the Plant 2 thickening process must be accepted by OCSD. Polymers may be rejected if excessive NDMA is detected in the submitted sample.

3. Quality Control

A 250mL sample will accompany every polymer delivery with the following data printed clearly on the label:

- > The minimum % total solids to be delivered
- > The % volatile solids
- ➤ The % active polymer
- > The viscosity (cp) range
- > The molecular weight
- > The charge density

The above analysis information must be accompanied by a reference test procedure. The analysis procedure must be in accordance with Standard Methods and be acceptable to OCSD. The minimum % total solids, as stated above, will be the minimum specification to be used for billing and product quality determinations.

Failure to provide any of the above requested information may cause OCSD to reject the load. the disqualification of that polymer from bench tests and bidding.

4. Quantity

OCSD estimates annual polymer usage as follows:

Plant 1 Centrifuge = 250,000 active pounds of emulsion cationic polymer Plant 2 DAFT = 32,000 active pounds of emulsion cationic polymer

Plant 1 Centrifuge = 790,000 active pounds of emulsion cationic polymer Plant 2 Centrifuge = 300,000 active pounds of emulsion cationic polymer

The net quantity of each Supplier's polymer may vary due to the difference in performance as determined by OCSD. OCSD makes no guarantee to the actual quantity used or quantity of polymer purchased. Use may be sporadic and is based on treatment requirements unique to each plant.

5. Delivery Requirements

- a. Chemical delivery Procedures can be found in Appendix A-1. It is the responsibility of the Supplier to view the document and understand it.
- b. OCSD reserves the right to request polymer on a schedule convenient to the needs of the treatment plants. Deliveries shall typically be made within three (3) days of request and only received Monday through Friday between the hours of 7:00 a.m. to 4:00 p.m. OCSD also reserves the right to request twenty-four (24) hour deliveries in case of plant emergencies. Such expedited deliveries will be provided at no additional cost to OCSD. Supplier will follow chemical delivery procedures described in Appendix A-1.
- c. Periodic quality control tests will be performed by OCSD on the delivered polymer to assure that minimum specifications are attained, and that supplier-reported quality is accurate. All billings will be for no more than the actual polymer delivered. Polymer will be paid for on a corrected weight basis. All polymer delivered under the minimum product specifications shall be discounted proportionately. A discount formula as shown shall be utilized.

Cost per Active Pound * Active Pounds Delivered = Delivered Cost

- d. <u>Bills of Lading</u> must be labeled with the information listed below in order to be accepted:
 - Approved name/number of product
 - Specify "Cationic"
 - For Dewatering/WAS Thickening
 - Deliver and place into Cationic Tank

If the above information is not on the Bill of Lading, off-loading will not take place without confirmation from OCSD's supervision and/or Supplier that it is the product ordered.

- e. OCSD will not accept what might be considered typographical errors. Supplier may have many products with similar product numbers.
- f. A sample is required with each load. An OCSD operator will smell the sample and look at it for color, consistency, and odor. If the sample indicates that the selected cationic polymer has not been supplied, Do Not Off-Load the Product.
- g. The cationic polymer connections will be 4-inch flange PVC connections with eight (8) bolts. Suppliers must adjust delivery hoses to fit OCSD connections. All connections are to be made by the truck driver with unloading in accordance with these instructions.
- h. The chemical delivery shall conform to the following requirements:

- OCSD staff shall notify Supplier when to provide the delivery. A method of communication for subsequent deliveries shall be clarified.
- j. Supplier shall deliver the product to either Plant 1 or Plant 2 as ordered.
- k. At time of delivery, supplier shall provide all necessary, fully trained and qualified personnel to be in continuous attendance during the transfer of product.
- I. Supplier shall allow a two (2) to three (3) hours unloading time for each delivery. Chemical shall not be off-loaded at a rate greater than 30 gpm. Supplier's personnel shall provide one (1) copy of the delivery statement and product sample to OCSD's operator prior to connection. Supplier shall provide all necessary safety equipment required by OCSD.
- m. Supplier shall provide a 24-hour phone number where qualified personnel can be contacted in the event of an emergency. It will be Supplier's responsibility to update any changes or phone numbers.
- n. OCSD's plant gates are equipped with intercoms for the purpose of announcing arrivals. Please follow instructions DO NOT USE HORNS.
- o. Supplier shall provide OCSD with the name of the product hauling company and safety related provisions set forth between the Supplier and the hauling company. OCSD requires personal protective equipment be worn on plant premises. Refer to this Scope of Work for additional safety requirements. Supplier shall provide OCSD with written procedures concerning compliance with these rules and prior to commencement of the Agreement by OCSD.
- p. Chemical delivery drivers must sign in at the Control Center at Plant 1 or at the Operations Center at Plant 2.
- q. Each delivery of polymer requires a written certified analysis of the % total solids and % active polymer for that shipment. A certified analysis is defined as a statement signed by Supplier's representative declaring the analysis information is true and accurate.
- r. Chemical deliveries will be refused for the following:
 - i. Incorrect chemical sample color, appearance or smell.
 - ii. Incorrect documentation
 - iii. Unsafe delivery vehicle off-loading equipment
- s. The driver is responsible for clean-up of spilled material. Clean-up must be in conformance with OCSD's safety procedures, EPA, regional and local regulations and ordinances, and the product manufacturer's recommended clean-up procedures. OCSD only has plant water available for use by the driver. Solvents, special equipment, or chemicals required for clean-up must be provided by Supplier.
- **Rejection of Shipment** OCSD may reject any delivery of polymer which does not meet this Scope of Work. Supplier shall remove the rejected material immediately following telephone notification. Supplier shall replace the volume of removed material immediately. OCSD may purchase polymer from other sources in an emergency caused by Supplier. Supplier will pay any additional costs.

Supplier shall maintain OCSD's operation by providing, if necessary, temporary facilities in the event any Supplier's polymer is rejected by OCSD. Temporary facilities include polymer storage tankage, pumps, piping, and miscellaneous appurtenances. Costs for removal and replacement of rejected polymer and temporary facilities shall be the responsibility of Supplier.

Appendix A-1

CHEMICAL DELIVERY PROCEDURES

For

Purchase of Liquid Cationic Polymer

	Orange County Sanitation District	Chemical SOP Number: CHEM SOP-001-P1-P2
	Samtation district	Rev. 4 Final Plant 1 and Plant 2 Chemical Delivery Procedures
Subject:	Plant No.1 and No.2 Chemical Delivery Procedures for Contract Drivers	Effective Date: June 10, 2015

POLICY

Orange County Sanitation District (OCSD) Operations Division 830/840 has outlined their standard operating procedure (SOP) for delivery of designated bulk chemicals delivered to the Fountain Valley and Huntington Beach treatment plants. Chemical drivers are permitted to connect and disconnect their deliveries without OCSD operator assistance for all bleach, ferric, bisulfite, anionic polymer, and cationic polymer deliveries.

This unloading procedure has a built in safeguard which eliminates the chance of deliveries being offloaded into incorrect chemical bulk tanks. All Chemical delivery lines will have a lock on each cam-lock cap to ensure the chemical is being delivered to the correct chemical tank. Each lock will be keyed differently which will eliminate the possibility of the chemical driver mistakenly hooking up to the wrong tank in the field.

- A phone is available at or near the chemical containment area for the drivers.
 Emergency contact numbers will be provided for the driver by the OCSD Operator.
- All chemical tanks and delivery lines are clearly marked.

Chemical Drivers' Responsibilities:

- Under this procedure, all drivers shall review this "Bulk Chemical SOP for Contract Drivers" and sign, print, and date the acknowledgment of training sheet prior to completing their initial delivery. An OCSD representative shall accompany each driver for his/her initial delivery.
 - NOTE: OCSD has the discretion to require additional assistance for subsequent deliveries, if warranted, and it will be noted on the acknowledgement sheet if it is necessary.
- All drivers shall comply with the above requirements and must provide a contact phone number to the Control Center or Operations Center Operator which will be recorded on the signature acknowledgement sheet.
- The driver must sign in the visitors log book and obtain pre-delivery signatures from the control center operator located in the Control Center or Operations Center. The driver must also receive clear instructions as to which tank is to receive the delivery.

- If required, chemical samples may be left on the designated chemical containment wall or handed to the OCSD operations staff prior to off loading their delivery.
- The driver must wear the appropriate personal protective equipment while on site at OCSD. OCSD requires all personnel who enter our process areas to wear hard hats, safety glasses, Class 2 Safety Vest, and steel toed shoes at a minimum while in the process areas.
- At the chemical tank, prior to offloading the delivery the driver will need to remove cam-lock caps with the key provided.
- For added safety, the driver agrees to use a safety strap on all cam-lock connections during the transfer of chemicals. The safety strap must be applied at the tank connection and the truck connection. NOTE: Chemical suppliers are responsible to supply their drivers with safety straps.
- The Driver is permitted to use OCSD plant air to offload their delivery. If OCSD plant air is not available, the driver is responsible to supply their own. (Driver will ensure air hose is neatly coiled after use).
- Prior to opening delivery valves, the driver shall verify correct tank and tank level, and ensure that cam-lock safety straps are secured on all cam-lock connections.
- Driver must report all spills larger than a quart to the Control Center before they leave the facility. If a large spill (greater than 5 gallons) is occurring during their delivery, the driver shall immediately call the Control Center and report the spill.
- In the event of an **emergency**, immediately call the Control Center or Operations Center for assistance at the following numbers:

If using the OCSD phone call extension 2222

If using a cell phone call: Plant 1: 714-593-7133

Plant 2: 714-593-7677

- If non-emergency assistance is needed at Plant 1, call extension 7025 using an OCSD phone. If at Plant 2, call extension 7625 using an OCSD phone.
- After the delivery is complete, the driver shall ensure the delivery valve is closed and the cam-lock cap and lock have been re-connected.
- The driver shall then return to the Control Center or Operations Center and receive post-delivery signatures on all documents pertaining to the delivery and return the key to the Control Center Operator.

Example of how the procedure is designed to work:

- 1. Chemical driver checks into either Plant 1 Control Center or Plant 2 Operations Center and signs the visitor log book.
- 2. At that time the Control Center or Operations Center Operator will assign the driver a chemical tank and give the driver a key for that specific tank.
- 3. Pre-delivery paperwork will be signed by OCSD and the start tank level will be recorded.
- 4. Chemical driver will drive to assigned chemical tank, unlock cam-lock cap for assigned tank, hook up his hose, apply cam-lock safety straps to all cam-lock connections, open the delivery valve for the assigned tank, and unload chemical.
- 5. Once the driver has finished unloading he/she will close the delivery valve, put the cam-lock cap back on delivery fitting, and lock it.
- 6. Driver will return to the Control Center or Operations Center to return the key, report any problems encounter during their delivery, receive post-delivery signatures, and sign out on the visitor log book.
- 7. Operations staff will be responsible to record start and stop tank levels.

Chemical SOP Number: CHEM SOP-001-P1-P2

(Acknowledgement Signatures)

Driver's
Signature:
Driver's Printed
Name:
Driver's Contact
Number:
Date:
Operations Division Depresentative
Operations Division Representative
Name/Signature:
Date:
Comments:
Comments.



EXHIBIT B BID PRICE FORM PURCHASE OF CATIONIC POLYMER SPECIFICATION NO. C-2019-1087BD

PLANT NO. 2

PRODUCT NAME: C	larifloc	PROD	UCT NUMBER: WE-1233	
Unit Price per Active LB.	Active LBs Required (for the product to be bid on)	Freight	Total Cost Delivered	
\$ 2.548/Act. Lb.	x	+ \$ 121,920.00	<u> </u>	
Area: Dewatering P	rocess			
PRODUCT NAME: C	larifloc	PROD	UCT NUMBER: WE-1233	
Unit Price per Active LB	Active LBs Required (for the product to be bid on)	Freight	Total Cost Delivered	
\$ 2.548/Act. Lb.	x40,000 Active Lbs.	+ \$ 15,240.00	= \$ 117,160.00	
				1
				011
Polydyne Inc.	Boyd Stanley,		President	el Sta
Name of Firm		Authorized Agent	Signature	



EXHIBIT B BID PRICE FORM PURCHASE OF CATIONIC POLYMER SPECIFICATION NO. C-2019-1087BD

Due Date for Online Bid Submittal: October 3, 2019 at 2:00 P.M. PST.

The undersigned does hereby propose to provide goods or services in accordance with all provisions of the Notice Inviting Bid and the Scope of Work for the following price. Incomplete submittal of requested information as called out in the bid specification requirements may deem the bid as non-responsive. Submit total amount as follows:

Area: Dewatering Process PRODUCT NAME: Clarifloc Unit Price per Active LBs Required (for the product to be bid on) \$\frac{1}{2}\frac{310,000 \text{ Active Lbs.}}{2.548/\text{ Act. Lb.}}\$ \text{ \$\frac{118,110.00}{2}\$ = \$\frac{907,990.00}{2}\$		WE-1233		5 5 5 5 5		C1		
Active LB (for the product to be bid on) \$ 2.548/Act. Lb.		Total Cost Delivered				Clarifloc		
Area: Dewatering Process PRODUCT NAME: Clarifloc Unit Price per Active LBs Required (for the product to be bid on) Freight Total Cost Delivered				Freight				
PRODUCT NAME: Clarifloc Unit Price per Active LBs Required (for the product to be bid on) \$\frac{2.548/Act. Lb.}{x} \frac{310,000 \text{ Active Lbs.}}{x} + \frac{118,110.00}{x} = \frac{907,990.00}{x}		1,903,850.00	= \$	\$ 247,650.00	+	\$ 2.548/Act. Lb. X 650,000 Active Lbs.		
Unit Price per Active LBs Required (for the product to be bid on) \$\frac{2.548/\text{Act. Lb.}}{2.548/\text{Act. Lb.}} \text{ X} \frac{310,000 \text{ Active Lbs.}}{2.548/\text{Act. Lb.}} \text{ + \$\$\frac{118,110.00}{2.548/\text{Act. Lb.}}} = \$\frac{907,990.00}{2.548/\text{Act. Lb.}}		WE-1323	CL VII WELL	No		g Process	Area: Dewaterin	
* 2.548/Act. Lb. X 310,000 Active Lbs. + \$ 118,110.00 = \$ 907,990.00		R: WE-1233	DUCT NUMBE	PRO		Clarifloc	PRODUCT NAME:	
Skopnici innie: - Clarinos - Charles (VET-1975)		Total Cost Delivered)	Freight				
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Will Dayle Services -		in-me	rie: virwees	baop		Clamboc	MARTINEA STATES	
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Polydyne Inc. Boyd Stanley, Vice-President Authorized Agent Signature	Tor	Just	-President	Boyd Stanley, Vice		Polydyne Inc.		



Orange County Sanitation District

Administration Building 10844 Ellis Avenue Fountain Valley, CA 92708 (714) 593-7433

OPERATIONS COMMITTEE

Agenda Report

File #: 2019-825 Agenda Date: 12/18/2019 Agenda Item No: 10.

FROM: James D. Herberg, General Manager

Originator: Kathy Millea, Director of Engineering

SUBJECT:

SEAL BEACH PUMP STATION REPLACEMENT, PROJECT NO. 3-67

GENERAL MANAGER'S RECOMMENDATION

RECOMMENDATION:

- A. Approve a Professional Design Services Agreement with Lee & Ro, Inc. to provide engineering services for Seal Beach Pump Station Replacement, Project No. 3-67, for an amount not to exceed \$5,947,850; and
- B. Approve a contingency of \$594,785 (10%).

BACKGROUND

The Seal Beach Pump Station, located at the intersection of Seal Beach Boulevard and Westminster Boulevard in the City of Seal Beach, was constructed in 1970 and must handle up to 34 million gallons per day during peak wet weather flows.

Staff had initiated Seal Beach Pump Station Rehabilitation, Project No. 3-62, in 2015 with the intention of designing for a rehabilitation. During the design of the rehabilitation, however, it was determined that the pump station should be replaced, rather than rehabilitated. Replacement with a deeper pump station allows for construction of a gravity sewer between the Seal Beach Pump Station and the upstream West Side Pump Station. This would allow the West Side Pump Station to be abandoned, which would reduce maintenance costs and spill risks. This decision was presented at the March 2018 Operations Committee. As such, the Seal Beach Pump Station rehabilitation work was cancelled and replaced with two new projects, Seal Beach Pump Station Replacement, Project No. 3-67, and Los Alamitos Sub-Trunk Extension, Project No. 3-68, as part of the Fiscal Year 2018-19 Budget.

RELEVANT STANDARDS

- Operate and maintain facilities to minimize impacts on surrounding communities, including odor, noise, and lighting
- Comply with Government Code Section 4526: Select the "best qualified firm" and "negotiate fair and equitable fees"

File #: 2019-825 Agenda Date: 12/18/2019 Agenda Item No: 10.

PROBLEM

The existing Seal Beach Pump Station is approaching the end of its useful life and equipment is beginning to fail. In addition, the pump station is too shallow causing the upstream trunk sewer to flow nearly full which blocks foul air and creates fugitive odor emissions in upstream manholes.

PROPOSED SOLUTION

Replace the existing Seal Beach Pump Station with a new pump station that will provide long-term, reliable service; improved hydraulic characteristics; improved odor control; and allow for the future abandonment of the West Side Pump Station.

TIMING CONCERNS

If the project is delayed, assets could fail more often resulting in unexpected facility downtime. Such failures could result in sanitary sewer overflows, significant repair costs, and increased operation and maintenance resources.

RAMIFICATIONS OF NOT TAKING ACTION

Multiple repair and rehabilitation projects would be required to maintain operation of the Seal Beach Pump Station. The future abandonment of the West Side Pump Station would not be feasible.

PRIOR COMMITTEE/BOARD ACTIONS

March 2018 - In an Informational Presentation to the Operations Committee, staff presented the reasons for replacing the Seal Beach Pump Station with a new deeper facility rather than rehabilitating the existing, as had previously been the plan.

ADDITIONAL INFORMATION

Consultant Selection:

The Orange County Sanitation District (Sanitation District) requested and advertised for proposals for Seal Beach Pump Station Replacement, Project No. 3-67, on July 9, 2019. The following evaluation criterion were described in the Request for Proposals (RFP) and used to determine the most qualified Consultant.

CRITERION	WEIGHT	
Project Understanding and Approach	40%	
Related Project Experience	30%	
Project Team and Staff Qualifications	30%	

Six proposals were received on August 27, 2019 and evaluated in accordance with the evaluation process set forth in the Sanitation District's Purchasing Ordinance by a pre-selected Evaluation Team

File #: 2019-825 Agenda Date: 12/18/2019 Agenda Item No: 10.

consisting of the following Sanitation District staff; Senior Engineer (Project Manager), Engineer (Project Engineer), Engineering Supervisor, Maintenance Manager, Engineering Manager, Engineering Supervisor (Non-voting member), and Senior Engineer (Non-voting member).

The Evaluation Team also included one non-voting representative from the Contracts Administration Division.

The Evaluation Team scored the proposals based on the established criteria as summarized in the table below.

	Firm	Approach (Max 40)	Related Experience (Max 30)	Team (Max 30)	Total Score (Max 100)
1	LEE & RO, Inc.	34	22	23	79
2	Brown and Caldwell	32	22	23	77
3	CDM Smith	22	20	19	61
4	Arcadis U.S., Inc.	23	19	18	60
5	HDR Engineering, Inc.	26	14	16	56
6	Stantec Consulting Services	20	14	17	51

Based on this scoring, two Consultants were shortlisted for interviews that were held on September 25, 2019. Following the interviews, each member of the Evaluation Team scored the Consultants based on both the proposals and interviews using the evaluation criterion and weighting described above. Based on the scoring shown below, Lee & Ro, Inc. was selected as the most qualified Consultant.

		(Max 40)	Related Experience (Max 30)		Total Score (Max 100)
1	LEE & RO, Inc.	34	21	23	78
2	Brown and Caldwell	30	20	22	72

The selected firm presented a clear understanding of the project's risks and associated approaches to address them. In particular, their proposal stood out in terms of identifying and addressing construction-phase geotechnical and groundwater risks. The proposed team's experience, qualifications, and staff utilization best matched the Sanitation District's needs for this project

Review of Fee Proposal and Negotiations:

Proposals were accompanied by sealed fee proposals. In accordance with Sanitation District's Purchasing Ordinance, the fee proposal of only the highest-ranked firm was opened after approval by the Director of Engineering of the Evaluation Committee's recommendation.

Meetings were held with Lee & Ro to review the required project elements, clarify components of the Scope of Work, discuss any assumptions made for the estimated level of effort, and ensure a thorough understanding of the proposed approach to meet the goals and objectives for the project.

File #: 2019-825 Agenda Date: 12/18/2019 Agenda Item No: 10.

These negotiations resulted in modifications to the level of effort for various project tasks and modified the original scope of work to include a prescriptive shoring and groundwater monitoring design, physical modeling of the new upstream junction structure, and an updated surge analysis.

The negotiated hours and price are appropriate for the effort required to complete the design of a replacement pump station of this size and complexity.

	Total Hours	Total Fee
Original Fee Proposal	26,684	\$5,496,714
Negotiated Fee Proposal	29,456	\$5,947,850

The Consultant's fringe and overhead costs, which factor into the billing rate, have been substantiated. The contract profit is 5%, which is based on an established formula included in the Sanitation District's standard design agreements.

Based on the above, staff has determined that the final negotiated fee is fair and reasonable for the level of effort required for this project and recommends award of the Professional Design Services Agreement to Lee & Ro.

CEQA

This project is included in the Sanitation District's Facility Master Plan, Program Environmental Impact Report, which is scheduled to be certified in August 2020.

FINANCIAL CONSIDERATIONS

This request complies with authority levels of the Sanitation District's Purchasing Ordinance. This item has been budgeted, (Budget Update FY2019-20, Appendix A, Page A-7) and the project budget is sufficient for the recommended action.

ATTACHMENT

The following attachment(s) may be viewed on-line at the OCSD website (www.ocsd.com) with the complete agenda package:

- Professional Design Services Agreement
- 12/4/19 Operations Committee Meeting Presentation

JMF:dm:sa:gc

PROFESSIONAL DESIGN SERVICES AGREEMENT

THIS AGREEMENT, is made and entered into to be effective the 18th day of December, 2019 by and between the ORANGE COUNTY SANITATION DISTRICT, hereinafter referred to as "SANITATION DISTRICT", and LEE & RO, INC., for purposes of this Agreement hereinafter referred to as "CONSULTANT".

WITNESSETH:

WHEREAS, the SANITATION DISTRICT desires to engage a CONSULTANT for **Seal Beach Pump Station Replacement**, **Project No. 3-67**; and to provide Design services for the replacement of the existing Seal Beach Pump Station with a deeper wet well on the existing site and demolish the old pump station when the new one is complete. The project will also include odor control improvements of vapor-phase and liquid-phase treatment at the pump station and,

WHEREAS, CONSULTANT is qualified to provide the necessary services in connection with these requirements and has agreed to provide the necessary professional services; and,

WHEREAS, the SANITATION DISTRICT has adopted procedures for the selection of professional services and has proceeded in accordance with said procedures to select a CONSULTANT to perform this work; and,

WHEREAS, at its regular meeting on December 18, 2019 the Board of Directors, by Minute Order, accepted the recommendation of the Operations Committee pursuant to SANITATION DISTRICT's Purchasing Ordinance to approve this Agreement between the SANITATION DISTRICT and CONSULTANT.

NOW, THEREFORE, in consideration of the promises and mutual benefits, which will result to the parties in carrying out the terms of this Agreement, it is mutually agreed as follows:

1. SCOPE OF WORK

CONSULTANT agrees to furnish necessary professional and technical services to accomplish those project elements outlined in the Scope of Work attached hereto as Attachment "A", and by this reference made a part of this Agreement.

- A. The CONSULTANT shall be responsible for the professional quality, technical accuracy, completeness, and coordination of all design, drawings, specifications, and other services furnished by the CONSULTANT under this Agreement, including the work performed by its Subconsultants. Where approval by the SANITATION DISTRICT is indicated, it is understood to be conceptual approval only and does not relieve the CONSULTANT of responsibility for complying with all laws, codes, industry standards and liability for damages caused by errors, omissions, noncompliance with industry standards, and/or negligence on the part of the CONSULTANT or its Subconsultants.
- B. CONSULTANT is responsible for the quality of work prepared under this Agreement and shall ensure that all work is performed to the standards of best engineering practice for clarity, uniformity, and completeness. CONSULTANT

PDSA Revised 050719 shall respond to all comments, suggestions, and recommendations on the SANITATION DISTRICT's review comment sheets (i.e. DS1, DS2 and DS3). All comments shall be incorporated into the design prior to the next submittal deadline or addressed, in writing, as to why the comment has not been incorporated. CONSULTANT shall ensure that each submittal is 100% accurate for the level of work submitted (i.e. correct references, terms, capitalization or equal status, spelling, punctuation, etc.)

- C. In the event that work is not performed to the satisfaction of the SANITATION DISTRICT and does not conform to the requirements of this Agreement or any applicable industry standards, the CONSULTANT shall, without additional compensation, promptly correct or revise any errors or deficiencies in its designs, drawings, specifications, or other services within the timeframe specified by the Project Engineer/Project Manager. The SANITATION DISTRICT may charge to CONSULTANT all costs, expenses and damages associated with any such corrections or revisions.
- D. All CAD drawings, figures, and other work shall be produced by CONSULTANTS and Subconsultants using the SANITATION DISTRICT CAD Manual. Conversion of CAD work from any other non-standard CAD format to the SANITATION DISTRICT format shall not be acceptable in lieu of this requirement.

Electronic files shall conform to the SANITATION DISTRICT specifications. Any changes to these specifications by the CONSULTANT are subject to review and approval of the SANITATION DISTRICT.

Electronic files shall be subject to an acceptance period of thirty (30) calendar days during which the SANITATION DISTRICT shall perform appropriate reviews and including CAD Manual compliance. CONSULTANT shall correct any discrepancies or errors detected and reported within the acceptance period at no additional cost to the SANITATION DISTRICT.

E. The CONSULTANT shall ensure that all plans and specifications prepared, or recommended under this Agreement allow for competitive bidding. The CONSULTANT shall design such plans or specifications so that procurement of services, labor or materials are not available from only one source, and shall not design plans and specifications around a single or specific product, piece of major equipment or machinery, a specific patented design or a proprietary process, unless required by principles of sound engineering practice and supported by a written justification that has been approved in writing by the SANITATION DISTRICT. The CONSULTANT shall submit this written justification to the SANITATION DISTRICT prior to beginning work on such plans and specifications. Whenever the CONSULTANT recommends a specific product or equipment for competitive procurement, such recommendation shall include at least two brand names of products that are capable of meeting the functional requirements applicable to the project.

F. All professional services performed by the CONSULTANT, including but not limited to all drafts, data, correspondence, proposals, reports, and estimates compiled or composed by the CONSULTANT, pursuant to this Agreement, are for the sole use of the SANITATION DISTRICT, its agents and employees. Neither the documents nor their contents shall be released to any third party without the prior written consent of the SANITATION DISTRICT. This provision does not apply to information that (a) was publicly known, or otherwise known to the CONSULTANT, at the time that it was disclosed to the CONSULTANT by the SANITATION DISTRICT, (b) subsequently becomes publicly known to the CONSULTANT other than through disclosure by the SANITATION DISTRICT.

2. COMPENSATION

Total compensation shall be paid to CONSULTANT for services in accordance with the following provisions:

A. Total Compensation

Total compensation shall be in an amount not to exceed Five Million Nine Hundred Forty-Seven Thousand Eight Hundred Fifty Dollars (\$5,947,850.00). Total compensation to CONSULTANT including burdened labor (salaries plus benefits), overhead, profit, direct costs, and Subconsultant(s) fees and costs shall not exceed the sum set forth in Attachment "E" - Fee Proposal.

B. Labor

As a portion of the total compensation to be paid to CONSULTANT, the SANITATION DISTRICT shall pay to CONSULTANT a sum equal to the burdened salaries (salaries plus benefits) actually paid by CONSULTANT charged on an hourly-rate basis to this project and paid to the personnel of CONSULTANT. Upon request of the SANITATION DISTRICT, CONSULTANT shall provide the SANITATION DISTRICT with certified payroll records of all employees' work that is charged to this project.

C. Overhead

As a portion of the total compensation to be paid to CONSULTANT, the SANITATION DISTRICT shall compensate CONSULTANT and Subconsultants for overhead at the rate equal to the percentage of burdened labor as specified in Attachment "E" - Fee Proposal.

D. Profit

Profit for CONSULTANT and Subconsultants shall be a percentage of consulting services fees (Burdened Labor and Overhead). When the consulting or subconsulting services amount is \$250,000 or less, the maximum Profit shall be 10%. Between \$250,000 and \$2,500,000, the maximum Profit shall be limited by a straight declining percentage between 10% and 5%. For consulting or

subconsulting services fees with a value greater than \$2,500,000, the maximum Profit shall be 5%. Addenda shall be governed by the same maximum Profit percentage after adding consulting services fees.

As a portion of the total compensation to be paid to CONSULTANT and Subconsultants, the SANITATION DISTRICT shall pay profit for all services rendered by CONSULTANT and Subconsultants for this project according to Attachment "E" - Fee Proposal.

E. Subconsultants

For any Subconsultant whose fees for services are greater than or equal to \$100,000 (excluding out-of-pocket costs), CONSULTANT shall pay to Subconsultant total compensation in accordance with the Subconsultant amount specified in Attachment "E" - Fee Proposal.

For any Subconsultant whose fees for services are less than \$100,000, CONSULTANT may pay to Subconsultant total compensation on an hourly-rate basis per the attached hourly rate Schedule and as specified in the Scope of Work. The SANITATION DISTRICT shall pay to CONSULTANT the actual costs of Subconsultant fees and charges in an amount not to exceed the sum set forth in Attachment "E" - Fee Proposal.

F. Direct Costs

The SANITATION DISTRICT shall pay to CONSULTANT and Subconsultants the actual costs of permits and associated fees, travel and licenses for an amount not to exceed the sum set forth in Attachment "E" - Fee Proposal. The SANITATION DISTRICT shall also pay to CONSULTANT actual costs for equipment rentals, leases or purchases with prior approval of the SANITATION DISTRICT. Upon request, CONSULTANT shall provide to the SANITATION DISTRICT receipts and other documentary records to support CONSULTANT's request for reimbursement of these amounts, see Attachment "D" - Allowable Direct Costs. All incidental expenses shall be included in overhead pursuant to Section 2 - COMPENSATION above.

G. Other Direct Costs

Other Direct Costs incurred by CONSULTANT and its Contractor due to modifications in scope of work resulting from field investigations and field work required by Contract. These items may include special equipment, test equipment and tooling and other materials and services not previously identified. Refer to attachment "D" Allowable Direct Costs for payment information.

H. Reimbursable Direct Costs

The SANITATION DISTRICT will reimburse the CONSULTANT for reasonable travel and business expenses as described in this section and further described in Attachment "D" - Allowable Direct Costs to this Agreement. The reimbursement of

the above-mentioned expenses will be based on an "accountable plan" as considered by Internal Revenue Service (IRS). The plan includes a combination of reimbursements based upon receipts and a "per diem" component approved by IRS. The most recent schedule of the per diem rates utilized by the SANITATION DISTRICT can be found on the U.S. General Service Administration website at http://www.gsa.gov/portal/category/104711#.

The CONSULTANT shall be responsible for the most economical and practical means of management of reimbursable costs inclusive but not limited to travel, lodging and meals arrangements. The SANITATION DISTRICT shall apply the most economic and practical method of reimbursement which may include reimbursements based upon receipts and/or "per diem" as deemed the most practical.

CONSULTANT shall be responsible for returning to the SANITATION DISTRICT any excess reimbursements after the reimbursement has been paid by the SANITATION DISTRICT.

Travel and travel arrangements – Any travel involving airfare, overnight stays or multiple day attendance must be approved by the SANITATION DISTRICT in advance.

Local Travel is considered travel by the CONSULTANT within the SANITATION DISTRICT general geographical area which includes Orange, Los Angeles, Ventura, San Bernardino, Riverside, San Diego, Imperial and Kern Counties. Automobile mileage is reimbursable if CONSULTANT is required to utilize personal vehicle for local travel.

Lodging – Overnight stays will not be approved by the SANITATION DISTRICT for local travel. However, under certain circumstances overnight stay may be allowed at the discretion of the SANITATION DISTRICT based on reasonableness of meeting schedules and the amount of time required for travel by the CONSULTANT. Such determination will be made on a case-by-case basis and at the discretion of the SANITATION DISTRICT.

Travel Meals – Per-diem rates as approved by IRS shall be utilized for travel meals reimbursements. Per diem rates shall be applied to meals that are appropriate for travel times. Receipts are not required for the approved meals.

Additional details related to the reimbursement of the allowable direct costs are provided in the Attachment "D" - Allowable Direct Costs of this Agreement.

Limitation of Costs

If, at any time, CONSULTANT estimates the cost of performing the services described in CONSULTANT's Proposal will exceed seventy-five percent (75%) of the not-to-exceed amount of the Agreement, including approved additional compensation, CONSULTANT shall notify the SANITATION DISTRICT immediately, and in writing. This written notice shall indicate the additional amount necessary to complete the services. Any cost incurred in excess of the

approved not-to-exceed amount, without the express written consent of the SANITATION DISTRICT's authorized representative shall be at CONSULTANT's own risk. This written notice shall be provided separately from, and in addition to any notification requirements contained in the CONSULTANT's invoice and monthly progress report. Failure to notify the SANITATION DISTRICT that the services cannot be completed within the authorized not-to-exceed amount is a material breach of this Agreement.

3. REALLOCATION OF TOTAL COMPENSATION

The SANITATION DISTRICT, by its Director of Engineering, shall have the right to approve a reallocation of the incremental amounts constituting the total compensation, provided that the total compensation is not increased.

4. PAYMENT

- A. Monthly Invoice: CONSULTANT shall include in its monthly invoice, a detailed breakdown of costs associated with the performance of any corrections or revisions of the work for that invoicing period. CONSULTANT shall allocate costs in the same manner as it would for payment requests as described in this Section of the Agreement. CONSULTANT shall warrant and certify the accuracy of these costs and understand that submitted costs are subject to Section 11 AUDIT PROVISIONS.
- B. CONSULTANT may submit monthly or periodic statements requesting payment for those items included in Section 2 COMPENSATION hereof in the format as required by the SANITATION DISTRICT. Such requests shall be based upon the amount and value of the work and services performed by CONSULTANT under this Agreement and shall be prepared by CONSULTANT and accompanied by such supporting data, including a detailed breakdown of all costs incurred and project element work performed during the period covered by the statement, as may be required by the SANITATION DISTRICT.

Upon approval of such payment request by the SANITATION DISTRICT, payment shall be made to CONSULTANT as soon as practicable of one hundred percent (100%) of the invoiced amount on a per-project-element basis.

If the SANITATION DISTRICT determines that the work under this Agreement or any specified project element hereunder, is incomplete and that the amount of payment is in excess of:

- The amount considered by the SANITATION DISTRICT's Director of Engineering to be adequate for the protection of the SANITATION DISTRICT; or
- ii. The percentage of the work accomplished for each project element.

He may, at his discretion, retain an amount equal to that which insures that the total amount paid to that date does not exceed the percentage of the completed work for each project element or the project in its entirety.

- C. CONSULTANT may submit periodic payment requests for each 30-day period of this Agreement for the profit as set forth in Section 2 COMPENSATION above. Said profit payment request shall be proportionate to the work actually accomplished to date on a per-project-element basis. In the event the SANITATION DISTRICT's Director of Engineering determines that no satisfactory progress has been made since the prior payment, or in the event of a delay in the work progress for any reason, the SANITATION DISTRICT shall have the right to withhold any scheduled proportionate profit payment.
- D. Upon satisfactory completion by CONSULTANT of the work called for under the terms of this Agreement, and upon acceptance of such work by the SANITATION DISTRICT, CONSULTANT will be paid the unpaid balance of any money due for such work, including any retained percentages relating to this portion of the work.
- E. Upon satisfactory completion of the work performed hereunder and prior to final payment under this Agreement for such work, or prior settlement upon termination of this Agreement, and as a condition precedent thereto, CONSULTANT shall execute and deliver to the SANITATION DISTRICT a release of all claims against the SANITATION DISTRICT arising under or by virtue of this Agreement other than such claims, if any, as may be specifically exempted by CONSULTANT from the operation of the release in stated amounts to be set forth therein.
- F. Pursuant to the California False Claims Act (Government Code Sections 12650-12655), any CONSULTANT that knowingly submits a false claim to the SANITATION DISTRICT for compensation under the terms of this Agreement may be held liable for treble damages and up to a ten thousand dollars (\$10,000) civil penalty for each false claim submitted. This Section shall also be binding on all Subconsultants.

A CONSULTANT or Subconsultant shall be deemed to have submitted a false claim when the CONSULTANT or Subconsultant: a) knowingly presents or causes to be presented to an officer or employee of the SANITATION DISTRICT a false claim or request for payment or approval; b) knowingly makes, uses, or causes to be made or used a false record or statement to get a false claim paid or approved by the SANITATION DISTRICT; c) conspires to defraud the SANITATION DISTRICT; d) knowingly makes, uses, or causes to be made or used a false record or statement to conceal, avoid, or decrease an obligation to the SANITATION DISTRICT; or e) is a beneficiary of an inadvertent submission of a false claim to the SANITATION DISTRICT, and fails to disclose the false claim to the SANITATION DISTRICT within a reasonable time after discovery of the false claim.

5. CALIFORNIA DEPARTMENT OF INDUSTRIAL RELATIONS (DIR) REGISTRATION AND RECORD OF WAGES

A. To the extent CONSULTANT's employees and/or Subconsultants who will perform Work during the design and preconstruction phases of a construction contract for which Prevailing Wage Determinations have been issued by the DIR

and as more specifically defined under Labor Code Section 1720 et seq, CONSULTANT and Subconsultants shall comply with the registration requirements of Labor Code Section 1725.5. Pursuant to Labor Code Section 1771.4, the Work is subject to compliance monitoring and enforcement by the DIR.

- B. The CONSULTANT and Subconsultants shall maintain accurate payroll records and shall comply with all the provisions of Labor Code Section 1776, and shall submit payroll records to the Labor Commissioner pursuant to Labor Code Section 1771.4(a)(3). Penalties for non-compliance with the requirements of Section 1776 may be deducted from progress payments per Section 1776.
- C. Pursuant to Labor Code Section 1776, the CONSULTANT and Subconsultants shall furnish a copy of all certified payroll records to SANITATION DISTRICT and/or general public upon request, provided the public request is made through SANITATION DISTRICT, the Division of Apprenticeship Standards or the Division of Labor Enforcement of the Department of Industrial Relations.
- D. The CONSULTANT and Subconsultants shall comply with the job site notices posting requirements established by the Labor Commissioner per Title 8, California Code of Regulation Section 16461(e).

6. DOCUMENT OWNERSHIP – SUBSEQUENT CHANGES TO PLANS AND SPECIFICATIONS

- A. Ownership of Documents for the Professional Services performed.
 - All documents, including but not limited to, original plans, studies, sketches, drawings, computer printouts and disk files, and specifications prepared in connection with or related to the Scope of Work or Professional Services, shall be the property of the SANITATION DISTRICT. The SANITATION DISTRICT's ownership of these documents includes use of, reproduction or reuse of and all incidental rights, whether or not the work for which they were prepared has been performed. The SANITATION DISTRICT ownership entitlement arises upon payment or any partial payment for work performed and includes ownership of any and all work product completed prior to that payment. This Section shall apply whether the CONSULTANT's Professional Services are terminated: a) by the completion of the Agreement, or b) in accordance with other provisions of this Agreement. Notwithstanding any other provision of this paragraph or Agreement, the CONSULTANT shall have the right to make copies of all such plans, studies, sketches, drawings, computer printouts and disk files, and specifications.
- B. CONSULTANT shall not be responsible for damage caused by subsequent changes to or uses of the plans or specifications, where the subsequent changes or uses are not authorized or approved by CONSULTANT, provided that the service rendered by CONSULTANT was not a proximate cause of the damage.

7. INSURANCE

A. General

- i. Insurance shall be issued and underwritten by insurance companies acceptable to the SANITATION DISTRICT.
- ii. Insurers must have an "A-" Policyholder's Rating, or better, and Financial Rating of at least Class VIII, or better, in accordance with the most current A.M. Best's Guide Rating. However, the SANITATION DISTRICT will accept State Compensation Insurance Fund, for the required policy of Worker's Compensation Insurance subject to the SANITATION DISTRICT's option to require a change in insurer in the event the State Fund financial rating is decreased below "B". Further, the SANITATION DISTRICT will require CONSULTANT to substitute any insurer whose rating drops below the levels herein specified. Said substitution shall occur within twenty (20) days of written notice to CONSULTANT, by the SANITATION DISTRICT or its agent.
- iii. Coverage shall be in effect prior to the commencement of any work under this Agreement.

B. General Liability

The CONSULTANT shall maintain during the life of this Agreement, including the period of warranty, Commercial General Liability Insurance written on an occurrence basis providing the following minimum limits of liability coverage: Two Million Dollars (\$2,000,000) per occurrence with Two Million Dollars (\$2,000,000) aggregate. Said insurance shall include coverage for the following hazards: Premises-Operations, blanket contractual liability (for this Agreement), products liability/completed operations (including any product manufactured or assembled), broad form property damage, blanket contractual liability, independent contractors liability, personal and advertising injury, mobile equipment, owners and contractors protective liability, and cross liability and severability of interest clauses. A statement on an insurance certificate will not be accepted in lieu of the actual additional insured endorsement(s). If requested by SANITATION DISTRICT and applicable, XCU coverage (Explosion, Collapse and Underground) and Riggers/On Hook Liability must be included in the General Liability policy and coverage must be reflected on the submitted Certificate of Insurance.

C. Umbrella Excess Liability

The minimum limits of general liability and Automotive Liability Insurance required, as set forth herein, shall be provided for through either a single policy of primary insurance or a combination of policies of primary and umbrella excess coverage. Umbrella excess liability coverage shall be issued with limits of liability which, when combined with the primary insurance, will equal the minimum limits for general liability and automotive liability.

D. Automotive/Vehicle liability Insurance

The CONSULTANT shall maintain a policy of Automotive Liability Insurance on a comprehensive form covering all owned, non-owned, and hired automobiles, trucks, and other vehicles providing the following minimum limits of liability coverage: Combined single limit of Two Million Dollars (\$2,000,000) or alternatively, One Million Dollars (\$1,000,000) per person for bodily injury and One Million Dollars (\$1,000,000) per accident for property damage. A statement on an insurance certificate will not be accepted in lieu of the actual additional insured endorsement.

E. Drone Liability Insurance

If a drone will be used, drone liability insurance must be maintained by CONSULTANT in the amount of One Million Dollars (\$1,000,000) in form acceptable to the SANITATION DISTRICT.

F. Worker's Compensation Insurance

The CONSULTANT shall provide such Workers' Compensation Insurance as required by the Labor Code of the State of California in the amount of the statutory limit, including Employer's Liability Insurance with a minimum limit of One Million Dollars (\$1,000,000) per occurrence. Such Worker's Compensation Insurance shall be endorsed to provide for a waiver of subrogation in favor of the SANITATION DISTRICT. A statement on an insurance certificate will not be accepted in lieu of the actual endorsements unless the insurance carrier is State of California Insurance Fund and the identifier "SCIF" and endorsement numbers 2570 and 2065 are referenced on the certificate of insurance. If an exposure to Jones Act liability may exist, the insurance required herein shall include coverage for Jones Act claims.

G. Errors and Omissions/Professional Liability

CONSULTANT shall maintain in full force and effect, throughout the term of this Agreement, standard industry form professional negligence errors and omissions insurance coverage in an amount of not less than Five Million Dollars (\$5,000,000) with limits in accordance with the provisions of this Paragraph. If the policy of insurance is written on a "claims made" basis, said policy shall be continued in full force and effect at all times during the term of this Agreement, and for a period of five (5) years from the date of the completion of the services hereunder.

In the event of termination of said policy during this period, CONSULTANT shall obtain continuing insurance coverage for the prior acts or omissions of CONSULTANT during the course of performing services under the term of this Agreement. Said coverage shall be evidenced by either a new policy evidencing no gap in coverage or by separate extended "tail" coverage with the present or new carrier.

In the event the present policy of insurance is written on an "occurrence" basis, said policy shall be continued in full force and effect during the term of this Agreement or until completion of the services provided for in this Agreement, whichever is later. In the event of termination of said policy during this period, new coverage shall be obtained for the required period to insure for the prior acts of CONSULTANT during the course of performing services under the term of this Agreement.

CONSULTANT shall provide to the SANITATION DISTRICT a certificate of insurance in a form acceptable to the SANITATION DISTRICT indicating the deductible or self-retention amounts and the expiration date of said policy, and shall provide renewal certificates not less than ten (10) days prior to the expiration of each policy term.

H. Proof of Coverage

The CONSULTANT shall furnish the SANITATION DISTRICT with original certificates and amendatory endorsements effecting coverage. Said policies and endorsements shall conform to the requirements herein stated. All certificates and endorsements are to be received and approved by the SANITATION DISTRICT before work commences. The SANITATION DISTRICT reserves the right to require complete, certified copies of all required insurance policies, including endorsements, effecting the coverage required, at any time. The following are approved forms that must be submitted as proof of coverage:

•	Certificate of Insurance	ACORD Form 25 (5/2010) or equivalent.
•	Additional Insurance	(ISO Form) CG2010 11 85 or
	(General Liability)	The combination of (ISO Forms) CG 2010 10 01 <u>and</u> CG 2037 10 01
		All other Additional Insured endorsements must be submitted for approval by the SANITATION DISTRICT, and the SANITATION DISTRICT may reject alternatives that provide different or less coverage to the SANITATION DISTRICT.
•	Additional Insured (Auto Liability)	Submit endorsement provided by carrier for the SANITATION DISTRICT approval.
•	Waiver of Subrogation	State Compensation Insurance Fund Endorsement No. 2570 or equivalent.
•	Cancellation Notice	State Compensation Insurance Fund Endorsement No. 2065 or equivalent.

I. Cancellation Notice

Each insurance policy required herein shall be endorsed to state that coverage shall not be cancelled by either party, except after thirty (30) days' prior written notice. The Cancellation Section of ACORD Form 25 (5/2010) shall state the required thirty (30) days' written notification. The policy shall not terminate, nor shall it be cancelled, nor the coverage reduced until thirty (30) days after written notice is given to the SANITATION DISTRICT except for nonpayment of premium, which shall require not less than ten (10) days written notice to the SANITATION DISTRICT. Should there be changes in coverage or an increase in deductible or SIR amounts, the CONSULTANT and its insurance broker/agent shall send to the SANITATION DISTRICT a certified letter which includes a description of the changes in coverage and/or any increase in deductible or SIR amounts. The certified letter must be sent to the attention of Risk Management, and shall be received by the SANITATION DISTRICT not less than thirty (30) days prior to the effective date of the change(s) if the change would reduce coverage or increase deductibles or SIR amounts or otherwise reduce or limit the scope of insurance coverage provided to the SANITATION DISTRICT.

J. Primary Insurance

All liability policies shall contain a Primary and Non-Contributory Clause. Any other insurance maintained by the SANITATION DISTRICT shall be excess and not contributing with the insurance provided by CONSULTANT.

K. Separation of Insured

All liability policies shall contain a "Separation of Insureds" clause.

L. Non-Limiting (if applicable)

Nothing in this document shall be construed as limiting in any way, nor shall it limit the indemnification provision contained in this Agreement, or the extent to which CONSULTANT may be held responsible for payment of damages to persons or property.

M. Deductibles and Self-Insured Retentions

Any deductible and/or self-insured retention must be declared to the SANITATION DISTRICT on the Certificate of Insurance. All deductibles and/or self-insured retentions require approval by the SANITATION DISTRICT. At the option of the SANITATION DISTRICT, either: the insurer shall reduce or eliminate such deductible or self-insured retention as respects the SANITATION

DISTRICT; or the CONSULTANT shall provide a financial guarantee satisfactory to the SANITATION DISTRICT guaranteeing payment of losses and related investigations, claim administration and defense expenses.

N. Defense Costs

Liability policies shall have a provision that defense costs for all insureds and additional insureds are paid in addition to and do not deplete any policy limits.

O. Subconsultants

The CONSULTANT shall be responsible to establish insurance requirements for any Subconsultant hired by the CONSULTANT. The insurance shall be in amounts and types reasonably sufficient to deal with the risk of loss involving the Subconsultant's operations and work.

P. Limits Are Minimums

If the CONSULTANT maintains higher limits than any minimums shown above, then SANITATION DISTRICT requires and shall be entitled to coverage for the higher limits maintained by CONSULTANT.

8. SCOPE CHANGES

In the event of a change in the Scope of Work, requested by SANITATION DISTRICT, the parties hereto shall execute an amendment to this Agreement setting forth with particularity all terms of the new Agreement, including but not limited to any additional CONSULTANT's fees.

9. PROJECT TEAM AND SUBCONSULTANTS

CONSULTANT shall provide to SANITATION DISTRICT, prior to execution of this Agreement, the names and full description of all Subconsultants and CONSULTANT's project team members anticipated to be used on this project by CONSULTANT. CONSULTANT shall include a description of the scope of work to be done by each Subconsultant and each CONSULTANT's project team member. CONSULTANT shall include the respective compensation amounts for CONSULTANT and each Subconsultant on a per-project-element basis, broken down as indicated in Section 2 - COMPENSATION.

There shall be no substitution of the listed Subconsultants and CONSULTANT's project team members without prior written approval by the SANITATION DISTRICT.

10. ENGINEERING REGISTRATION

The CONSULTANT's personnel are comprised of registered engineers and a staff of specialists and draftsmen in each department. The firm itself is not a registered engineer but represents and agrees that wherever in the performance of this Agreement requires the services of a registered engineer. Such services hereunder will be performed under the direct supervision of registered engineers.

11. AUDIT PROVISIONS

- A. SANITATION DISTRICT retains the reasonable right to access, review, examine, and audit, any and all books, records, documents and any other evidence of procedures and practices that the SANITATION DISTRICT determines are necessary to discover and verify that the CONSULTANT is in compliance with all requirements under this Agreement. The CONSULTANT shall include the SANITATION DISTRICT's right as described above, in any and all of their subcontracts, and shall ensure that these rights are binding upon all Subconsultants.
- B. SANITATION DISTRICT retains the right to examine CONSULTANT's books, records, documents and any other evidence of procedures and practices that the SANITATION DISTRICT determines are necessary to discover and verify all direct and indirect costs, of whatever nature, which are claimed to have been incurred, or anticipated to be incurred or to ensure CONSULTANT's compliance with all requirements under this Agreement during the term of this Agreement and for a period of three (3) years after its termination.
- C. CONSULTANT shall maintain complete and accurate records in accordance with generally accepted industry standard practices and the SANITATION DISTRICT's policy. The CONSULTANT shall make available to the SANITATION DISTRICT for review and audit, all project related accounting records and documents, and any other financial data within 15 days after receipt of notice from the SANITATION DISTRICT. Upon SANITATION DISTRICT's request, the CONSULTANT shall submit exact duplicates of originals of all requested records to the SANITATION DISTRICT. If an audit is performed, CONSULTANT shall ensure that a qualified employee of the CONSULTANT will be available to assist SANITATION DISTRICT's auditor in obtaining all project related accounting records and documents, and any other financial data.

12. LEGAL RELATIONSHIP BETWEEN PARTIES

The legal relationship between the parties hereto is that of an independent contractor and nothing herein shall be deemed to make CONSULTANT an employee of the SANITATION DISTRICT.

13. NOTICES

All notices hereunder and communications regarding the interpretation of the terms of this Agreement, or changes thereto, shall be effected by delivery of said notices in person or by depositing said notices in the U.S. mail, registered or certified mail, return receipt requested, postage prepaid.

Notices shall be mailed to the SANITATION DISTRICT at:

ORANGE COUNTY SANITATION DISTRICT 10844 Ellis Avenue Fountain Valley, CA 92708-7018 Attention: Ludwig Lapus, Senior Contracts Administrator Copy: Jacob Dalgoff, Project Manager Notices shall be mailed to CONSULTANT at:

LEE & RO, INC. 1199 South Fullerton Road City of Industry, CA 91748 Attention: Charles Ro, Principal in Charge

All communication regarding the Scope of Work, will be addressed to the Project Manager. Direction from other SANITATION DISTRICT's staff must be approved in writing by the SANITATION DISTRICT's Project Manager prior to action from the CONSULTANT.

14. TERMINATION

The SANITATION DISTRICT may terminate this Agreement at any time, without cause, upon giving thirty (30) days written notice to CONSULTANT. In the event of such termination, CONSULTANT shall be entitled to compensation for work performed on a prorated basis through and including the effective date of termination.

CONSULTANT shall be permitted to terminate this Agreement upon thirty (30) days written notice only if CONSULTANT is not compensated for billed amounts in accordance with the provisions of this Agreement, when the same are due.

Notice of termination shall be mailed to the SANITATION DISTRICT and/or CONSULTANT in accordance with Section 13 - NOTICES.

15. DOCUMENTS AND STUDY MATERIALS

The documents and study materials for this project shall become the property of the SANITATION DISTRICT upon the termination or completion of the work. CONSULTANT agrees to furnish to the SANITATION DISTRICT copies of all memoranda, correspondence, computation and study materials in its files pertaining to the work described in this Agreement, which is requested in writing by the SANITATION DISTRICT.

16. COMPLIANCE

A. Labor

CONSULTANT certifies by the execution of this Agreement that it pays employees not less than the minimum wage as defined by law, and that it does not discriminate in its employment with regard to race, color, religion, sex or national origin; that it is in compliance with all federal, state and local directives and executive orders regarding non-discrimination in employment; and that it agrees to demonstrate positively and aggressively the principle of equal opportunity in employment.

B. Air Pollution

CONSULTANT and its subconsultants and subcontractors shall comply with all applicable federal, state and local air pollution control laws and regulations.

PDSA Revised 050719 PROJECT NO. 3-67

17. AGREEMENT EXECUTION AUTHORIZATION

Both the SANITATION DISTRICT and CONSULTANT do covenant that each individual executing this document by and on behalf of each party is a person duly authorized to execute agreements for that party.

18. DISPUTE RESOLUTION

In the event of a dispute arising between the parties regarding performance or interpretation of this Agreement, the dispute shall be resolved by binding arbitration under the auspices of the Judicial Arbitration and Mediation Service ("JAMS"), or similar organization or entity conducting alternate dispute resolution services.

19. ATTORNEY'S FEES, COSTS AND NECESSARY DISBURSEMENTS

If any action at law or in equity or if any proceeding in the form of an Alternative Dispute Resolution (ADR) is necessary to enforce or interpret the terms of this Agreement, the prevailing party shall be entitled to reasonable attorney's fees, costs and necessary disbursements in addition to any other relief to which it may be entitled.

20. PROGRESS REPORTS

Monthly progress reports shall be submitted for review by the tenth day of the following month and must include as a minimum: 1) current activities, 2) future activities, 3) potential items that are not included in the Scope of Work, 4) concerns and possible delays, 5) percentage of completion, and 6) budget status.

21. WARRANTY

CONSULTANT shall perform its services in accordance with generally accepted industry and professional standards. If, within the 12-month period following completion of its services, the SANITATION DISTRICT informs CONSULTANT that any part of the services fails to meet those standards, CONSULTANT shall, within the time prescribed by the SANITATION DISTRICT, take all such actions as are necessary to correct or complete the noted deficiency(ies).

22. INDEMNIFICATION

To the fullest extent permitted by law, CONSULTANT shall indemnify, defend (at CONSULTANT's sole cost and expense and with legal counsel approved by the SANITATION DISTRICT, which approval shall not be unreasonably withheld), protect and hold harmless the SANITATION DISTRICT and all of SANITATION DISTRICT's officers, directors, employees, CONSULTANT's, and agents (collectively the "Indemnified Parties"), from and against any and all claims, damages, liabilities, causes of action, suits, arbitration awards, losses, judgments, fines, penalties, costs and expenses (including, without limitation, attorneys' fees, disbursements and court costs, and all other professional, expert or CONSULTANT's fees and costs and the SANITATION DISTRICT's general and administrative expenses; individually, a "Claim"; collectively, "Claims") which may arise from or are in any manner related, directly or

indirectly, to any work performed, or any operations, activities, or services provided by CONSULTANT in carrying out its obligations under this Agreement to the extent of the negligent, recklessness and/or willful misconduct of CONSULTANT, its principals, officers, agents, employees, CONSULTANT's suppliers, CONSULTANT, Subconsultants, subcontractors, and/or anyone employed directly or indirectly by any of them, regardless of any contributing negligence or strict liability of an Indemnified Party. Notwithstanding the foregoing, nothing herein shall be construed to require CONSULTANT to indemnify the Indemnified Parties from any Claim arising solely from:

- (A) the active negligence or willful misconduct of the Indemnified Parties; or
- (B) a natural disaster or other act of God, such as an earthquake; or
- (C) the independent action of a third party who is neither one of the Indemnified Parties nor the CONSULTANT, nor its principal, officer, agent, employee, nor CONSULTANT's supplier, CONSULTANT, Subconsultant, subcontractor, nor anyone employed directly or indirectly by any of them.

Exceptions (A) through (B) above shall not apply, and CONSULTANT shall, to the fullest extent permitted by law, indemnify the Indemnified Parties, from Claims arising from more than one cause if any such cause taken alone would otherwise result in the obligation to indemnify hereunder.

CONSULTANT's liability for indemnification hereunder is in addition to any liability CONSULTANT may have to the SANITATION DISTRICT for a breach by CONSULTANT of any of the provisions of this Agreement. Under no circumstances shall the insurance requirements and limits set forth in this Agreement be construed to limit CONSULTANT's indemnification obligation or other liability hereunder. The terms of this Agreement are contractual and the result of negotiation between the parties hereto. Accordingly, any rule of construction of contracts (including, without limitation, California Civil Code Section 1654) that ambiguities are to be construed against the drafting party, shall not be employed in the interpretation of this Agreement.

23. DUTY TO DEFEND

The duty to defend hereunder is wholly independent of and separate from the duty to indemnify and such duty to defend shall exist regardless of any ultimate liability of CONSULTANT and shall be consistent with Civil Code Section 2782.8. Such defense obligation shall arise immediately upon presentation of a Claim by any person if, without regard to the merit of the Claim, such Claim could potentially result in an obligation to indemnify one or more Indemnified Parties, and upon written notice of such Claim being provided to CONSULTANT. Payment to CONSULTANT by any Indemnified Party or the payment or advance of defense costs by any Indemnified Party shall not be a condition precedent to enforcing such Indemnified Party's rights to indemnification hereunder. In the event a final judgment, arbitration, award, order, settlement, or other final resolution expressly determines that the claim did not arise out of, pertain to, or relate to the negligence, recklessness, or willful misconduct of the CONSULTANT, to any extent, then the DISTRICT will reimburse CONSULTANT for the reasonable costs of defending the Indemnified Parties against such claims.

CONSULTANT's indemnification obligation hereunder shall survive the expiration or earlier termination of this Agreement until such time as action against the Indemnified Parties for such matter indemnified hereunder is fully and finally barred by the applicable statute of limitations.

24. CONSULTANT PERFORMANCE

The CONSULTANT's performance shall be evaluated by the SANITATION DISTRICT. A copy of the evaluation shall be sent to the CONSULTANT for comment. The evaluation, together with the comments, shall be retained by the SANITATION DISTRICT and may be considered in future CONSULTANT selection processes.

25. COMPLIANCE WITH SANITATION DISTRICT POLICIES AND PROCEDURES

CONSULTANT shall comply with all SANITATION DISTRICT policies and procedures including the OCSD Safety Standards, as applicable, all of which may be amended from time to time.

26. CLOSEOUT

When the SANITATION DISTRICT determines that all Work authorized under the Agreement is fully complete and that the SANITATION DISTRICT requires no further work from CONSULTANT, or the Agreement is otherwise terminated or expires in accordance with the terms of the Agreement, the SANITATION DISTRICT shall give the Consultant written notice that the Agreement will be closed out. CONSULTANT shall submit all outstanding billings, work submittals, deliverables, reports or similarly related documents as required under the Agreement within thirty (30) days of receipt of notice of Agreement closeout.

Upon receipt of CONSULTANT's submittals, the SANITATION DISTRICT shall commence a closeout audit of the Agreement and will either:

- i. Give the CONSULTANT a final Agreement Acceptance: or
- ii. Advise the CONSULTANT in writing of any outstanding item or items which must be furnished, completed, or corrected at the CONSULTANT's cost.

CONSULTANT shall be required to provide adequate resources to fully support any administrative closeout efforts identified in this Agreement. Such support must be provided within the timeframe requested by the SANITATION DISTRICT.

Notwithstanding the final Agreement Acceptance the CONSULTANT will not be relieved of its obligations hereunder, nor will the CONSULTANT be relieved of its obligations to complete any portions of the work, the non-completion of which were not disclosed to the SANITATION DISTRICT (regardless of whether such nondisclosures were fraudulent, negligent, or otherwise); and the CONSULTANT shall remain obligated under all those provisions of the Agreement which expressly or by their nature extend beyond and survive final Agreement Acceptance.

Any failure by the SANITATION DISTRICT to reject the work or to reject the CONSULTANT's request for final Agreement Acceptance as set forth above shall not be deemed to be acceptance of the work by the SANITATION DISTRICT for any purpose nor imply acceptance of, or agreement with, the CONSULTANT's request for final Agreement Acceptance.

27. ENTIRE AGREEMENT

This Agreement constitutes the entire understanding and agreement between the Parties and supersedes all previous negotiations between them pertaining to the subject matter thereof.

IN WITNESS WHEREOF, this Agreement has been executed in the name of the SANITATION DISTRICT, by its officers thereunto duly authorized, and CONSULTANT as of the day and year first above written.

	CONSULTANT: LEE & RO, INC.	
	Ву	
	-, <u> </u>	Date
	Printed Name & Title	
	Fillited Name & Title	
	ORANGE COUNTY SANITATION DISTRICT	
	Ву	
	David John Shawver Board Chairman	Date
	By Kelly A. Lore	Date
	Clerk of the Board	
	By	
	Ruth Zintzun Purchasing & Contracts Manager	Date
Attachments:	Attachment "A" – Scope of Work Attachment "B" – NOT USED Attachment "C" – NOT USED Attachment "D" – Allowable Direct Costs Attachment "E" – Fee Proposal Attachment "F" – NOT USED Attachment "G" – NOT USED Attachment "H" – NOT USED Attachment "H" – Cost Matrix and Summary Attachment "J" – NOT USED Attachment "K" – Minor Subconsultant Hourly Rate Schedule Attachment "L" – OCSD Safety Standards	
LRL:ms		

ATTACHMENT "A" SCOPE OF WORK

ATTACHMENT A

SCOPE OF WORK

Seal Beach Pump Station Replacement Project No. 3-67

TABLE OF CONTENTS

I. SUMMARY	3
II. BACKGROUND, GENERAL PROJECT DESCRIPTION, AND PROJECT ELEMEN	TS3
BACKGROUND	3
BACKGROUND GENERAL PROJECT DESCRIPTION DESCRIPTION OF PROJECT ELEMENTS Project Element 1 – NEW PUMP STATION Project Element 2 – Modifications to Existing Gravity Sewers and Force Mains Project Element 3 – Demolition and Abandonment of Existing Pump Station and Force Mains Project Element 4 – Onsite Odor Control Facilities Project Element 5 - Temporary Facilities During Construction Assumptions for Level of Effort Design Considerations	
SUMMARY	
Project Element 1 – NEW PUMP STATION	4
Project Element 2 – Modifications to Existing Gravity Sewers and Force Mains Project Element 3 – Demolition and Abandonment of Existing Pump Station and	7 d Force
Assumptions for Level of Effort	8
Task 2.8 – Preliminary Design phase Workshops and Meetings	49
Task 2.9 - Quality Control.	54
Task 2.10 – Community Outreach	56
Task 3.1 - Bid Documents	56
Task 3.2 - Design Support Documentation	61
Task 3.3 - Specialty Services	64

Task 3.4 - Design Submittals	. 70
Task 3.5 - Bid Support Services	
Task 3.6 - Project Management	
Task 3.7 - Risk Management Assistance	
Task 3.8 - Workshops and Meetings	
Task 3.9 - Quality Control	
Task 3.10 – Permitting Assistance	
PHASE 4 – CONSTRUCTION AND INSTALLATION SERVICES	
PHASE 5 - COMMISSIONING SERVICES	.82
PHASE 6 - CLOSE OUT	.82
V. GENERAL REQUIREMENTS	.82
GENERAL	82
OCSD Engineering Design Guidelines and Strategic Plan	
PROJECT SPECIFIC DEVIATIONS FROM OCSD DESIGN GUIDELINES ENGINEERING DESIGN GUIDELINES, CHAPTER 11, "INSTRUMENTATION	.88
AND CONTROL"	.88
Additional Design Criteria	.88
VI.STAFF ASSISTANCE	.89
EXHIBITS:	. 90

I. SUMMARY

Provide professional engineering services for the project described herein including the following:

- 1. Preliminary Design Report
- 2. Permitting assistance
- 3. Preparation of bid documents

II. BACKGROUND, GENERAL PROJECT DESCRIPTION, AND PROJECT ELEMENTS

BACKGROUND

Seal Beach Pump Station (SBPS) is located in the City of Seal Beach, California, on the corner of Seal Beach Boulevard and Westminster Boulevard and was initially constructed in 1970 (Project No. 3-12). The pump station was expanded in 1973 and 1980 (Project Nos. 3-12-1 and 3-12-2 respectively) and consists of two wet wells that share a common below grade pump room where eight pumps are located. The eight motors are located in an above-ground building directly above the pumps. Currently, two force mains extend easterly within Westminster Boulevard for about 3 miles. The north force main has a nominal diameter of 30-inches and was constructed in 1978 (Project No. 3-13-1). The force main extends 14,290 feet from the pump station until it reaches Rancho Road/Hammon Place. The south force main parallels the north one and has a nominal diameter of 42-inches (Project No. 3-36R). The south force main was constructed in 1995 with a total length of 14,335 feet and replaces the 30-inch force main that was originally constructed under Project No. 3-13. These two existing force mains will be replaced with two new 36-inch force mains by Westminster Blvd. Force Main Replacement, Project No. 3-62, prior to the construction of this project.

A detailed description of the pump station can be found in the 1999 report prepared by MacDonald Stephens, Engineers entitled "Rehabilitation of Outlying Pump Stations". This report assessed the condition of the SBPS and identified deficiencies in the pump station and the force mains. This report is included in **Exhibit 03** – "Project Reference Material". Project No. 3-62 originally intended to rehabilitate SBPS; however, in evaluating the pump station as part of the preliminary design it was determined that full replacement is needed. Hence, the replacement of Seal Beach Pump Station is now designated as Project No. 3-67 (the force mains are still being replaced as part of Project No. 3-62). Record Drawings for the SBPS initial construction and subsequent expansions and the force main construction projects are included in **Exhibit 03**.

The purpose of the project is to replace the existing SBPS, eliminate the need for the upstream Westside Pump Station and meet current and future flow demands to 2040.

GENERAL PROJECT DESCRIPTION

The project involves the completion of the preliminary design and final design phases of the replacement of the SBPS. The replacement pump station includes demolition, civil,

mechanical, structural, architectural, HVAC, electrical, instrumentation, and control systems. Site improvements include above ground buildings, underground vaults, manholes, paving, walls, facilities for drainage, landscaping, irrigation, perimeter wall and security as well as water, storm drain, and other utilities. The work is split into an evaluation phase, a preliminary design phase, a final design phase, and a bidding phase.

DESCRIPTION OF PROJECT ELEMENTS

Detailed descriptions of the Project Elements are presented below.

PROJECT ELEMENT 1 - NEW PUMP STATION

The new pump station and associated facilities will include the items listed below and all other components required to provide a fully functionally pump station.

Main Sewage Pumps

Vertically driven with non-clog impellers or extended shaft motor. Pumps will convey flows for the design wet weather event, and to minimize or eliminate fill and draw cycling during the nighttime/early morning low flow periods. Pump motors will be controlled by variable frequency drives (VFDs) with constant speed bypass. The VFDs will be fitted with anti-ragging technology.

Wet Well

Self-cleaning trench type designed to minimize backwater conditions in the upstream system. The wet well design shall include a control panel for a manually initiated cleaning cycle. The goal of the wet well size and configuration is to provide one hour of storage capacity (including upstream collection system capacity with appropriate freeboard) during typical peak daily flows. maximum extra storage capacity possible, in conjunction with the optimum configuration of the pump station structure. There shall be drain lines from the force mains (FMs) to the wet well(s) with multiple ports on the discharge line (one per pump intake).

Dry Well

Contains pumps, sump pumps, discharge header piping, flow meter, a bridge crane, a pressure washer, lighting, and ventilation. The bridge crane will be sized and located to accommodate removal of the pumps, motors, valves, and other large equipment within the dry well. The dry well will be rated for Class I Division 2 service; except the sump which is rated Class 1 Division 1. Ventilation system shall maintain a slight negative pressure in the dry well. Pump station and controls will be designed so pumps can be operated from the electrical room in the event the dry well floods. Devices not rated for submergence will be operator-accessible and located above the flood level.

Electrical Room and Equipment

The new electrical building will house the electrical equipment and will have air conditioning for protection of electrical and control equipment. The equipment will be located to provide proper working clearances per NEC and OCSD standards. The building will contain the following equipment:

- 480V arc-resistant switchgear with a main-tie-tie-main breaker configuration, complete
 with an automatic, open-transition transfer scheme per OCSD standards. Provide one
 main breaker for the incoming source from an externally accessible SCE transformer
 and metering/main breaker switchboard. The other main breaker shall be fed from a
 permanent standby generator and a portable generator via a stand-alone manual
 transfer control. The switchgear will feed loads such as motor control centers (MCCs)
 and VFDs.
- 480V MCCs will be double-ended and arc-resistant with a key-interlocked, main-tie-tie-main breaker configuration. The MCCs will feed power to loads such as a UPS, 480-208/120V lighting transformer and panelboard(s) with primary and standby source, sump pumps, odor control, HVAC, etc.
- The UPS 120Vac panel will feed loads such as the PLCs, RIOs, local human machine interface (HMI), network communication equipment, CCTV, fire alarm system, and security systems. The UPS will have an external bypass switch.
- HVAC equipment and associated controls. A 120Vac weatherproof convenience receptacle will be provided near the unit(s).
- 125Vdc flooded cell, lead acid batteries for the 480V switchgear will be located in a separate battery room equipped with climate control equipment and ventilation. A battery disconnect switch will be located in the battery room. The associated battery charger and 125Vdc panel will be located in the electrical room.
- Provide system grounding configuration and coordinate with SCE.

Influent Structure

A flow-combining structure upstream of the wet well, preferably out of traffic, and connection points downstream of the pump station to accommodate bypassing equipment and plugs so future wet well shut downs can be performed. Influent structure to accommodate existing sewer connections and future connection to newly designed deep sewer. The structure will have means to isolate flow from wet well and provide access for Maintenance staff to draw sewage and bypass the pump station.

Temporary Pumping Provisions

Means for pump station bypass from influent structure using portable pumps to the downstream force mains. Provisions shall include means of safely isolating incoming flows upstream of the wet well, and above-grade manifold of smaller pipe connections that connect to and feed into the dual force mains by way of buried yard piping with associated valves, clean-outs, and appurtenances.

Provide grade level access to dry well with provisions to connect to submersible pump-to-pump-out the dry well in the case of flooding.

Piping and Utilities

All on-site pump suction and discharge piping and associated motorized and manual valves and appurtenances including valve vaults. New potable water service and piping for wash down, the restroom, irrigation, and fire hydrant. Drainage, sewer, and utility piping. All buried steel piping must be catholically protected.

Lighting

All luminaire shall be LED type. Exterior luminaire shall be dark-sky compliant and controlled via photocell and timeclock. Provide emergency egress lighting and illuminated exit signs along the path of egress and at each exit door.

Southern California Edison (SCE) Power Service

SCE will supply 480-volt incoming power to the pump station via its own outdoor step-down transformer. Provide a meter and service entrance switchboard in a dedicated room with exterior access for OCSD and SCE. Coordination with SCE, determining the required size of the transformer to handle peak wet weather flow conditions, available fault current, transformer location, transformer installation requirements, and configuration and location of the incoming metering section, and service entrance switchboard.

Restroom

Restroom will include a toilet and sink. The drain will be connected to an off-site gravity sewer isolated from wet well pressures and possibly surcharged gravity sewers. The restroom may be a part of the electrical building but must have an exterior door (no interior door to electrical room).

Site & Perimeter Wall

Fully secured site with fencing and perimeter wall, gates, video cameras outside and inside all structures, and door security systems. Landscaping must be provided where needed to minimize visual impacts and be compatible with the surrounding development. Necessary modifications and improvements to the adjacent hardscape (curb, gutter, driveway access, drainage culvert, etc.). Site drainage must not leave the site. All onsite stormwater must drain into an upstream gravity sewer and not be affected by wet well pressures. Vehicle and equipment access gates will accommodate all maintenance activities. Architectural style of perimeter wall and buildings should be California Mission.

Onsite Standby Generator

Permanently installed, diesel powered generator set fully enclosed in its own building to meet City noise ordinance standards. Generator will be sized for maximum anticipated load demand during peak wet weather conditions. Fuel tank capacity will be sized for 24 hours of operation at peak load. Provide fuel polishing system and dry disconnect on tank.

Portable Generator Connections

Cam-lok style plug/receptacle connections will be provided for a roll-up "portable" generator(s) sized to support critical loads on each switchgear bus in the event the permanent generator fails or to provide power during electrical equipment maintenance.

Fire Protection

A fire alarm system will be installed within all enclosed rooms. System shall have the ability to remotely notify OCSD.

Instrumentation and Control (I&C)

Instrumentation and control in accordance with OCSD design guidelines and standards. Communications services from pump station to OCSD ICS network.

Safety

Guard rails, tie off points, arc flash labeling, safety features, signage and railings around open shafts, shower and eye wash station, wash basin, etc. Flammable gas (both heavier than air and lighter than air), low/high oxygen, H2S, sensors in wet well and dry well while low oxygen and CO shall be monitored in the generator building. Additional gas monitoring as appropriate for odor control systems.

PROJECT ELEMENT 2 – MODIFICATIONS TO EXISTING GRAVITY SEWERS AND FORCE MAINS

In association with the work involved to install the new pump station, new gravity sewer and new force main segments will need to be constructed. Tie new force main segments into existing force mains constructed under OCSD Project 3-62. Tie into existing Seal Beach gravity sewer and provide provisions to connect to future deeper sewer. This will require sidewalk/curb, paving, striping, gutter, traffic control systems, existing utilities, and public landscaping to be restored. All facilities in the public streets shall be abandoned in place per OCSD Standards.

PROJECT ELEMENT 3 – DEMOLITION AND ABANDONMENT OF EXISTING PUMP STATION AND FORCE MAINS

The demolition and abandonment of the existing pump station will occur following complete commissioning and testing of the new pump station. All above-ground features will be removed and disposed of, including trees, shrubs, chemical storage and dosing equipment, equipment pads and buildings. Equipment, piping and appurtenances, and mechanical and electrical components will be removed and disposed of. Programmable logic controller modules will be turned over to OCSD. Below grade structures/improvements will be removed/abandoned as required. The hole created by the removal, and remaining portions of any structure or improvements, would then be cleaned of all wastewater and/or hazardous materials and filled with cement slurry. Remove all onsite piping and utilities. Remove all temporary facilities.

PROJECT ELEMENT 4 – ONSITE ODOR CONTROL FACILITIES

The onsite odor control facilities will consist of upstream vapor phase odor control and liquid-phase odor control for downstream odor management. Liquefied Oxygen (LOx) system with the required injection equipment will be designed for the pump station effluent force mains. Appropriate with liquid and vapor phase sampling and monitoring will be provided. Proposed mechanical facilities shall be housed within buildings to mitigate noise. The building will be designed to minimize visual impacts and blend into California Mission architectural style. Components that don't match the architectural theme shall be screened from view. Design odor control mitigation measures for sewage bypassing and other stages of construction.

PROJECT ELEMENT 5 - TEMPORARY FACILITIES DURING CONSTRUCTION

In certain cases, construction sequencing constraints may require the contractor to implement a temporary facility to be used during a certain portion of the construction period. CONSULTANT shall identify in what instances such facilities are required or reasonably warranted and present those instances with implementation plans and construction sequencing constraints to OCSD for consideration. When such facilities are found to be either required or reasonably warranted, CONSULTANT shall provide sufficiently detailed drawings and specifications to be included in the Bid Documents that bidders understand what is required to provide and potentially operate the temporary facilities and that the reliability and performance of the facilities will meet OCSD's needs and reasonably mitigate construction risks. Examples of potential facilities include:

- Temporary odor control facilities
- Temporary noise abatement
- Temporary connections to facilitate start-up and testing
- Temporary piping to phase the replacement of the utilities
- Temporary standby power or temporary electrical equipment to accommodate modifications to SCE incoming power feed, relocation or replacement of the existing SCE transformer.
- Temporary communications.
- Temporary handling of flow

ASSUMPTIONS FOR LEVEL OF EFFORT

For the purpose of estimating the predesign and design phase levels of effort, the CONSULTANT shall make the following assumptions regarding the project elements:

 Deeper sewer will be approximately 6,200 linear feet in length, 54-inch diameter FRP or RCP pipe at a depth of approximately 35 feet, with four or more manhole structures, running from Westside PS to SBPS. Include approximately 600 linear feet of casing. This assumes the existing 51-inch pipeline will remain in service and carry partial flows, while the new pipeline carries only those flows that were previously pumped through Westside Pump Station.

- The new pump station will have one, self-cleaning wet well, connected to the upstream structure by a 60-inch diameter pipe.
- The construction of the new pump station will be constructed such that the Navy contamination plume will not expand.
- The pump station will be equipped with six pumps (5 duty, 1 spare) with extended shaft motors. Assume pumps are two different sizes to accommodate the range of flows.
- The existing pumps station will remain in service for the duration of construction and commissioning of the new pump station.
- New odor control measures will consist of onsite LOx storage and dosing station with injection to the force mains, and onsite two-stage (bio trickling filter plus carbon polishing) air scrubbing system on the upstream side of the pump station. Chemical storage must include secondary containment, capable of holding the full storage volume of the tank.
- Temporary liquid phase odor control facilities for the duration of construction.
- Remove existing SCE transformer and provide temporary power for the duration of construction.
- The on-site structure that combines Los Alamitos flows and Seal Beach flows will be cast-in-place concrete with a concrete cover and manhole cover.
- The new standby generator will be housed in its own building.
- A concrete block building will be constructed to house electrical and control equipment.
- All above-ground structures visible from the road will be designed with California Mission architectural style.
- The electrical building will be provided with air conditioning.
- Communications will be maintained to OCSD control network.
- Access to the bottom of the dry well will be provided by two staircases.
- New security fence, gate, and personal access gate and access road on navy property 30 feet parallel to the existing fence at the rear of the SBPS property per Navy standards.
- New perimeter walls along the west and south sides of the property with a secured and automated vehicle gate, 32-ft in width. A personal secured access gate should be provided on each wall.

• Onsite stormwater retention includes trench drains to capture hardscape and driveway runoff and infiltration to softscape and drainage to wet well.

DESIGN CONSIDERATIONS

The following design considerations shall be implemented from Preliminary Design through Final Design.

With each design submittal, the CONSULTANT shall address operational and maintenance issues including access, safety, and security issues and how they have been addressed. The goal is to provide safe and adequate access to all equipment and instrumentation for operation, maintenance, repair, and replacement purposes. Maintain comprehensive data sheets of all equipment, valves, instrumentation etc. Data sheets should identify how these components will be accessed for operation, maintenance, and removal, which will later be used for development of the EID and SAT and Project Commissioning Dashboard. It is expected that updates within each design submittal will be triggered by changes from the previous.

Operations and Maintenance

The goal is to provide sufficient access to all equipment that requires daily or regular operation or maintenance located on the floor or an elevated level using access steps/stairs with elevated platforms and elevated mezzanine type walkway with proper working space. In areas where it is unpractical or not feasible to provide such platforms or access for operation or maintenance from the floor level or mezzanine level, the CONSULTANT is to bring this to OCSD's attention. In these cases, provide alternatives for operation or maintenance for OCSD to review. Equipment that requires significant force to operate such as valves shall be designed ergonomically to minimize the effort involved. Automate valves on the main sewage pump suction and discharge piping and valves located within confined space. Design piping systems so valves, pumps, flowmeters and other critical equipment can be removed while maintaining service. Provide means to bleed off pressure and drain components between isolation points required for operation or maintenance. Provide means for positive physical isolation for the replacement of each pump, the replacement of each isolation valve between the wet well and the pump, and the replacement of each isolation valve between the pump and the discharge manifold. Provide means to drain isolated suction or discharge piping to sump. Provide connections or accommodation for skillets, blinds, blanks, spectacle blinds, or spades for isolation of these areas and at other critical points. Provide bypass piping around the flowmeter.

Mechanical systems shall be ergonomically designed and have sufficient access for maintenance, removal, and replacement.

Provide a traveling bridge crane at the top of the pump room for lifting and removal of pumps, motors, valves, pipe segments and other heavy equipment, skids, or appurtenances. Equipment shall be located within the travel limits of the bridge crane. The system shall be designed so all pieces over 50 pounds can be removed with a maximum of two picks. One pick from the bridge crane and the other from a vehicle crane that is at grade level.

Provide heavy-duty floor-loading dumbwaiter that travels from grade level to mezzanine and ground floor of dry well for transport of tools and maintenance equipment.

Provide mechanical workstation at ground floor of dry well with stainless steel work table, chairs, wall-mounted LED lighting, power, compressed air supply, utility sink/potable water source, tool storage, and a selection of tools.

Provide equipment access hatch from grade to drywell such that man entry isn't required if the drywell gets flooded and to allow removal of equipment from the dry well.

Safety

Provide Safety Data Sheets of all proposed chemicals to be utilized. The goal is to design engineering controls to mitigate or eliminate safety hazards. If the hazards cannot be engineered out of the equation, then mitigate the hazards by meeting all OSHA and OCSD standards and regulations. Ensure the status lights, signage, alarms, other instrumentation, and other safety measures are included in the design. Ensure guard rails, handrails, and other fall protection measures are put in place. Add accommodations for confined space entry including concrete inserts for davit arms, and anchor points rated for 5,000 pounds per person in strategic locations. Label mezzanines, anchor points, and lifting brackets for design load capacities.

The final flow-combining structure upstream of the wet well shall be located on OCSD property and/or not in the street, so traffic control is not required when accessing the structure for operation or maintenance.

ABBREVIATIONS

The following abbreviations may be used on this project:

CEQA California Environmental Quality Act

CPM Critical Path Method CSB City of Seal Beach

Designer The Engineering Design Consultant that shall be performing this Scope of Work

DM Design Memo
DSX Design Submittal X

EDG Engineering Design Guidelines FAT Functional Acceptance Test

GWRS Orange County Water District's Groundwater Replenishment System.

OCPW County of Orange Public Works

OC Parks Orange County Parks

OCSD Orange County Sanitation District
ORT Operational Readiness Test

P&ID Process and Instrumentation Diagram

PDR Preliminary Design Report

P1 OCSD Wastewater Treatment Plant No. 1, located in Fountain Valley
P2 OCSD Wastewater Treatment Plant No. 2, located in Huntington Beach

PRCS Permit Required Confined Space
PRCSE Permit Required Confined Space Entry

RAT Reliability Acceptance Test

SAT SCADA Administration Tool (database)
SOW This Attachment A, Scope of Work.
RWQCB Regional Water Quality Control Board

USACOE U.S. Army Corps of Engineers
WoUS Waters of the United States
WSPS West Side Pumping Station

III. PROJECT SCHEDULE

The table below lists the time frames associated with each major project deliverable and with OCSD's review and approval of those deliverables. CONSULTANT shall comply with the deadlines indicated in that table.

OCSD's Project Manager will issue an Administrative Notice to Proceed (NTP) that will authorize CONSULTANT to begin preparation of the Project Management Plan (PMP) specified under Task 2.6.1 Project Management Plan. The Administrative NTP does not authorize costs to be incurred for execution of the technical portion of the Work, except where specifically noted in the Administrative NTP.

Concurrent with OCSD's review and acceptance of the PMP, OCSD's Project Manager will issue a Preliminary Design NTP. OCSD's Project Manager will also issue a Final Design NTP upon OCSD's acceptance of the final Preliminary Design Report.

Project Milestones and Deadlines

MILESTONE	DEADLINE
Submit Project Management Plan (PMP)	10 workdays from Administrative NTP.
OCSD Review of PMP	10 working days from receipt of PMP. If the PMP is sufficient, the OCSD PM will set the date for the Kickoff Meeting. In any case, CONSULTANT shall issue a revised PMP within 5 working days of receipt of OCSD's comments for OCSD approval.
Kickoff Meeting	The kickoff meeting will be scheduled to coincide with the Preliminary Design NTP .
Preliminary Design NTP	
Preliminary Design Production NTP	5 working days from Preliminary Design NTP.
Submit draft Preliminary Design Report (PDR)*	140 workdays from the Preliminary Design NTP. CONSULTANT shall establish a schedule with the OCSD PM for separately submitting working drafts of each Design Memo for OCSD review prior to completing the draft PDR. This schedule shall factor in the logical sequence for completing the memos as well as both CONSULTANT and OCSD resources.

Project Milestones and Deadlines

MILESTONE	DEADLINE
OCSD Review of draft PDR	20 workdays from receipt of Draft PDR. This review will happen concurrently with Value Engineering.
Review of Value Engineering Recommendations	20 workdays from receipt of OCSD Comments on Draft PDR and completion of Value Engineering. This effort includes OCSD and CONSULTANT.
Submit final Preliminary Design Report	40 workdays from close of Review of Value Engineering Report.
Final Design Notice to Proceed	15 working days from submittal of the final PDR to receipt of the Design Phase NTP.
Submit Design Submittal 1 (DS1)	60 workdays from Design Phase NTP.
OCSD Review of DS1	20 workdays from receipt of DS1
Submit Design Submittal 2 (DS2)	100 workdays from receipt of OCSD comments on DS1.
OCSD Review of DS2	20 workdays from receipt of DS2
Submit Design Submittal 3 (DS3)	120 workdays from receipt of OCSD comments on DS2.
OCSD Review of DS3	20 workdays from receipt of DS3
Submit Final Design Submittal (FDS)	40 workdays from receipt of OCSD comments on DS3. CONSULTANT shall stop work upon submission of DS3, except as required to participate in OCSD meetings, until receipt of OCSD comments on DS3.
OCSD Review of FDS	20 workdays from receipt of FDS
Final Technical Specifications and Plans	20 workdays from receipt of OCSD comments on FDS.

Miscellaneous Due Dates:

Draft Groundwater Management Study	60 workdays from the Preliminary Design NTP.
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Risk Management Plan Due	120 workdays from the Preliminary Design NTP.
*DM1B Draft Preliminary Design Report	40 workdays from receipt of Draft PDR (DM1A – DM14)

The time frames specified in the table above are used to estimate the actual milestone dates based on the assumed NTP date, as shown in **Exhibit 02**.

The above schedule identifies OCSD's review period for each project submittal. The CONSULTANT shall not proceed with the design after each major milestone submittal. The CONSULTANT shall not start the Final Design until directed by OCSD.

OCSD will consider an alternative CONSULTANT-proposed schedule provided it is consistent with OCSD resources and schedule constraints and adds value to OCSD.

IV. PROJECT EXECUTION

All OCSD projects are divided into six phases. CONSULTANT shall provide engineering services for all Project Elements listed in Section II of this Scope of Work for the following Phases:

- Phase 1 Project Development (Not in this Scope of Work)
- Phase 2 Preliminary Design
- Phase 3 Design
- Phase 4 Construction (Not in this Scope of Work)
- Phase 5 Commissioning (Not in this Scope of Work)
- Phase 6 Close Out (Not in this Scope of Work)

PHASE 1 – PROJECT DEVELOPMENT

Not in this Scope of Work.

PHASE 2 - PRELIMINARY DESIGN

TASK 2.1 – NOT USED

TASK 2.2 - PRELIMINARY DESIGN PRODUCTION

Preliminary Design Production (PDR Production) involves the preparation of design memos, drawings, calculations, and other supporting material resulting in the Preliminary Design Report (PDR).

The following requirements apply to PDR Production.

- Each design memo shall be submitted as a draft, along with any relevant associated drawings for OCSD review. Except where significant revisions are required, design memos need not be resubmitted prior to the compiled draft PDR.
- CONSULTANT shall schedule and execute the work so that draft design memos are
 produced and submitted early enough that OCSD comments can be addressed and the
 changes incorporated into the draft PDR. All significant equipment decisions are to be
 made before the start of Phase 3 –Design. At the end of Phase 2 Preliminary Design,
 major design elements should be fixed and major equipment, building footprints, major
 structural elements, and process pipelines should be well defined and established. The
 extent of the design and the number and type of drawings should also be established.
- The design memos shall clearly document exact naming conventions to be used for all process equipment covered by the design memo.
- Each design memo shall identify any equipment and instruments that have fewer than three competitive suppliers. In those cases, the design memo shall recommend an appropriate procurement strategy compatible with California Law and OCSD policies.
- Where appropriate, OCSD will circulate design memos to permitting agencies for review. OCSD will review comments from those agencies and forwarded them to CONSULTANT. CONSULTANT shall respond to all OCSD and agency comments in writing and incorporate all comments into the final Design Memos as applicable.

Task 2.2.1 Preliminary Design Report (PDR) Contents and Organization

The CONSULTANT shall combine the material specified above for the Preliminary Design Production tasks into a draft PDR. The PDR shall be structured as outlined below, with the contents corresponding to the tasks listed in this Scope of Work.

Volume 1 – Preliminary Design Report Table of Contents Executive Summary

Design Memos

Design Memo 1 – Los Alamitos Sub Trunk Extension Sewer Horizontal and

Vertical Alignment Design and Pump Station Base Map

Design Memo 2 – Pump Station Alternatives and Basis of Design

Design Memo 3 –Geotechnical and Groundwater Management Study Design Memo 4 – Structural and Architectural

Design Memo 5 – Civil, Landscaping, Irrigation, Noise and Utilities

Design Memo 6 – Mechanical

Design Memo 7 – Electrical and Standby Power

Design Memo 8 – Instrumentation and Control

Design Memo 9 - Odor Control and Air Quality Management

Design Memo 10 - Fire Protection, Security and Safety

Design Memo 11 – Hazardous Material Survey, Mitigation and Control

Design Memo 12 - Environmental, Permits, Agency Coordination, Community

Outreach Program and Traffic Control

Design Memo 13 –Construction Phase Implementation, Constructability Issues,

Cost and Schedule

Design Memo 14 – Facility Operation and Maintenance **List of Proposed Specification Sections**

Volume 2 – Drawings

General

Civil

Landscape

Structural

Architectural

Mechanical

Electrical

Instrumentation & Control

Telecom

Demolition

Traffic Control

Volume 3 – Submittal Documentation

Table of Contents

Calculations

Equipment Data & Catalog Cuts

Decision Log

Meeting Minutes

The Executive Summary shall summarize the conclusions of the Memos included in the report, and specifically include a summary construction schedule and construction cost estimate.

The draft PDR and final PDR shall be submitted in searchable PDF format legible on-screen and as a hard copy. The number of hard copies is indicated in **Exhibit 04.** The following requirements apply to the labeling and organization of the PDF submittal:

- Each design memo shall be a separate file/tab within the PDR.
- CAD Drawing files shall be submitted as a single compiled file, in accordance with the CAD & Drafting Standards Manual.
- The PDF files shall be submitted via Bluebeam in accordance with the CAD & Drafting Standards Manual, section 7.4.2 and the general Requirements contained hereon. In no case may drawings be submitted as separate PDF files for each drawing. The order of drawings in the PDF file shall match the list of drawings.
- These requirements do not affect the organization, naming, and submittal of native files for CAD or MS Office files specified elsewhere in this Scope of Work and OCSD Engineering Design Standards.

The OCSD Project Manager may request that the CONSULTANT submit an electronic proof set of the Draft PDR and Final PDR prior to hard copy production to initially confirm that the submittal is ready for printing.

Task 2.2.1.1 Design Memo 1 – Los Alamitos Sub Trunk Extension Sewer Horizontal and Vertical Alignment Design and Pump Station Base Map

Design Memo 1 shall ultimately validate the depth needed in the new SBPS wet well by designing the Los Alamitos Sub Trunk Extension pipeline to a level that confirms the elevation in the pipe throughout its entire length. The northern portion of pipe shall be designed for a peak wet weather (PWW) flow rate of 16.50 MGD from three feed points near Westside Pump Station. The new pipe will be approximately 6,200 linear feet in length from Yellowtail Drive north of Westside Pump Station, to the upstream combining structure near the SBPS site.

A Peak Wet Weather Flow (PWWF) of 11.63 MGD will continue to flow through the existing 51-inch Seal Beach Sewer Interceptor, assuming it will remain in service and flows from the 51-inch will combine with the new Los Alamitos Sub Trunk Extension near the SBPS site.

A final length of new pipe shall convey the total combined Los Alamitos Sub Trunk flows, Seal Beach Interceptor flows and City of Seal Beach flows (34 MGD) from the upstream combining structure to the wet well inlet at the proposed Seal Beach Pump Station. This final length of pipe will be designed and built under the 3-67 project.

This design memo is broken into two parts. Design Memo 1A will consist of the following:

- Aerial and Topographical Survey.
- Development of a utility base map based on record drawings and visible indicators (valve cans, MH lids, etc.).
- Three proposed horizontal and vertical alignments. <u>However, because proposed</u> <u>alignments will only be confined to currently established and available easements or right-of ways, a reduced number of options, will be considered with justification.</u>
- One recommendation of a horizontal and vertical alignment, along with a suitable construction methodology for each major segment of its construction.

Consideration should be given to the known soil and groundwater conditions including the Navy's contamination plume in making a recommendation. Include in the recommendation, the material of construction of pipe and appurtenances, size, capacity, velocity, and access methods. If facilities are determined necessary outside the project boundaries, indicate the recommended improvement. The alternatives shall be presented with life cycle costs and consideration to operation and maintenance issues. The CONSULTANT shall submit this memo to OCSD for review and acceptance before proceeding with Design Memo 1B.

Design Memo 1B will further refine the selected alignment's plan and profile by proposing location of manholes and points of connection and confirming utility locations and depth through potholing and geophysical investigations. (Note: DM1B draft PDR is due 40 workdays following the remainder of the draft PDR)

The parameters required for preliminary and final design shall be developed, though final design of the pipeline will be completed under a separate project.

Easements, Property Boundaries and Work Area Limits (DM 1A)

The CONSULTANT shall identify easement and property boundary requirements and prepare all easement legal descriptions, including performing any field investigations, and surveys required to identify and prepare easements.

Unless otherwise directed, the CONSULTANT shall identify, survey, and show all property and city boundaries, and all existing and proposed easements, within and/or adjacent to the project boundaries.

CONSULTANT shall show and explicitly identify the limits of work for all portions of the project, including any restrictions to the work allowed in any area, e.g., whether the area can be used for parking or laydown.

All survey research and survey field work shall be performed by a Professional Land Surveyor licensed by the State of California.

Aerial Photography (DM 1A)

Review historical aerial photography as far back in time as possible. Document locations of prior structures that could affect earthwork required for force main preferred alignment. Use this data for pump station DM. Investigate via potholing as necessary.

Utility Research (DM 1A)

CONSULTANT shall perform a thorough search of all utilities and all other facilities above or below ground that may be impacted by the work for all applicable Project Elements. OCSD and non-OCSD data and records shall be researched and on-site inspections shall be completed. Utilities include all those on-site and those in the public right of way including, utility company-owned and public agency-owned piping, duct banks, facilities, structures, and other interferences. Emphasis shall be given to document abandoned structures and utilities. The search shall include utilities within the public right-of-way, and those located on public or private property and OCSD property impacted by the proposed project. The search shall include the records and plans of OCSD and all public and private companies and utilities.

Review of OCSD Records (DM 1A)

OCSD's "As-built/Record" plans may be incomplete or inaccurate with respect to the routing of individual utilities, pipelines, etc. in the vicinity of the project. CONSULTANT shall check OCSD records against those of the other agencies, companies, and utilities. These may include, but not be limited to, oil, gas, fuel, water, reclaimed water, sewer pipelines, traffic control facilities, telephone and electrical conduit and duct banks, storm drains, manholes, and other structures. Provide ground penetrating radar at all critical locations to verify utility locations and check for unknown utilities. Emphasis shall be given to document abandoned structures and utilities.

Review of Outside Agency Records (DM 1A)

Investigation of existing utilities shall be in accordance with the respective ASCE guidelines, except as amended by this Scope of Work. Refer to CI/ASCE 38-02, Standard Guidelines for

Collection and Depiction of Existing Subsurface Utility Data for details. Subsurface investigation for all utilities in and around the work area shall be performed to Quality Level D and Quality Level C. All utilities shall be plotted both in plan and profile on a scaled drawing

CONSULTANT shall contact, in writing, all jurisdictional agencies and utilities owners to inform them of OCSD's project. CONSULTANT shall request plans showing any of the agency's or utility's facilities, pipelines, etc. in the project area. CONSULTANT shall also request plans and schedules for any proposed construction in the project areas.

CONSULTANT shall meet with applicable field staff from each agency to confirm the completeness of their research. Abandoned utilities and subsurface structures shall also be considered. CONSULTANT shall document the contacts and information requested and received, including that from Underground Service Alert (USA). OCSD shall be copied on all correspondence between CONSULTANT and public and private agencies, and utility companies. CONSULTANT shall submit a copy of all documentation to OCSD with an itemized submittal letter. CONSULTANT's Project Manager shall sign the transmittal cover letter and the cover letter shall confirm that CONSULTANT has sent a representative to each agency/company/utility, performed on-site inspections for each utility, and has listed the utilities.

CONSULTANT shall contact USA and request a substructure listing for the project area. CONSULTANT shall follow through with due diligence on utilities that do not participate in the USA program, unknown owner of a facility and/or abandoned utilities.

Utilities for Adjacent Properties (DM 1B)

CONSULTANT shall investigate all utilities serving properties adjacent to the work and submit a spreadsheet at the end of the utility research accounting for all anticipated utilities for OCSD review, with the following information:

- List all utilities anticipated or each adjacent property.
- Whether or not each such utility was found on as-built drawings of any agency, with an identification of the agencies identifying such utility.
- Whether or not the utility was field located by utility through USA process, and if so by which agency.

Potholes and Geophysical Investigation (DM 1B)

CONSULTANT shall submit, for acceptance by OCSD, recommendations on which utilities should be investigated to Quality Level A and where Quality Level B investigations should be performed. A potholing plan and geophysical investigation plan shall be developed including proposed pothole locations and type of geophysical investigation.

CONSULTANT shall then "pothole" and perform geophysical investigation on all utilities described and shown in the accepted Potholing Plan/Geophysical Investigation Plan. CONSULTANT's staff shall be on-site during potholing to provide direction to potholing crew. OCSD staff may also be present during potholing.

CONSULTANT shall provide all work necessary, including, but not limited to:

- Documentation of information
- Notification of USA's "Dig Alert"
- Providing field survey
- Obtaining required permits
- Submission of traffic control plans
- Provide traffic control
- Soft dig potholing
- Excavating
- Backfilling
- Repairing pavement to local jurisdiction requirements

"Soft" excavation potholing methods such as vacuum extraction is preferred; however, excavation methods shall be chosen to adequately define the utility. Crosscut trenches may be preferred for defining some utility locations. Hydro-jetting soft dig should be avoided in sandy, wet or contaminated soil conditions.

Potholing subcontractor shall measure and document the depth of pavement and of base material at each pothole, and every five feet along crosscut trenches. Potholing activity shall meet all Stormwater Pollution Prevention requirements.

CONSULTANT shall provide a licensed land surveyor or hire a licensed survey subcontractor(s) to field locate the actual horizontal and vertical location of the constructed potholes. Survey controls shall be set and coordinated with the survey controls used on previous construction drawings. City and County control points shall be checked; northing, easting and elevation data for each pothole shall be shown on the Contract Drawings; and physical tie-ins provided in order to easily re-establish pothole locations after construction.

CONSULTANT shall supply and supervise survey work and subcontractors needed to perform the pothole work. Survey datum differences shall also be reconciled. CONSULTANT shall backfill and repair potholes consistent with the requirements of the local jurisdiction. If CONSULTANT is unable to determine local jurisdiction requirements prior to the proposal, CONSULTANT shall assume the following requirements:

- The materials removed from the excavation may not be used for backfill.
- Hauling off and disposing of excavated pothole material. In this case, excavation holes shall be filled with a cement slurry mix from the bottom up. The excavated materials shall be tested for hazardous materials and disposed of offsite accordingly. Testing shall be the minimum required for classifying the materials. The potholing samples

shall be tested by a California Environmental Laboratory Accreditation Program (ELAP) certified laboratory to identify characteristics of hazardous waste. A substance shall be considered hazardous if it possesses properties of toxicity, ignitability, corrosivity and/or reactivity per California Code of Regulations Title 22, Section 66261. In addition, the laboratory testing shall include an on-site Organic Vapor Analyzer (OVA) test for potential hydrocarbon contaminants. Should the OVA reading be equal to or greater than 45 ppm, further laboratory testing shall be performed to include Benzene, Toluene, Ethyl Benzene, and Xylene (BTEX) test per EPA guideline 8020 and Total Hydrocarbons (TPH) tests per EPA guideline. All testing results shall be provided to OCSD with a location map.

- AC pavement shall be replaced to full depth or the structural section (AC & Base) plus
 two inches with hot mix asphalt unless otherwise required by the City or Caltrans. Cold
 mix shall only be allowed when the patch will be replaced by the project and where
 approved by the City or Caltrans.
- Concrete pavement shall be replaced to full depth plus two inches with Portland cement unless otherwise required by the City or Caltrans.
- Underground Service Alert paint markings shall be removed within 90 days.

CONSULTANT's fee proposal shall include the cost for potholes (base) and unit cost for additional potholes.

- The cost (base) shall provide for 50 potholes. Potholes on the pump station site shall
 not exceed 10 and the remaining shall be in the public right of way. The
 CONSULTANT shall plan for two mobilizations at the pump station and up to six in the
 public right of way and channel crossing. Potholes shall fulfill Quality Level A
 requirements.
- CONSULTANT's fee proposal shall include a cost for geophysical investigation. The cost shall provide for geophysical (Level B) during preliminary design. Coverage areas shall be for the pump station site and along the entire Los Alamitos Sub Trunk Extension alignment. The intent is to help locate utilities prior to potholing and to identify undisclosed utilities that will later be potholed to confirm presence.

All utilities encountered during the preliminary design shall be shown on the Plans. Project work that requires other agencies to relocate existing utilities shall be coordinated during the design by CONSULTANT. Each subsurface utility shown on the drawings shall include the Quality Level to which it was investigated as required by CI/ASCE 38-02. Pothole locations shall be shown on drawings with survey information.

The CONSULTANT shall identify easement, right of way boundaries, and property boundary requirements. Property boundaries and easements shall be shown on drawings.

The CONSULTANT shall identify work area limits on drawings and include any restrictions to the work area including its use as laydown and storage area.

OCSD Maintenance will **not** provide any support to perform the work described in this section. The CONSULTANT shall provide the following:

- Personnel to open manhole lids and test for flammable gases before opening
- All traffic control required to perform the work described in this section
- Prepare traffic control plans, apply for encroachment permits, and pay for all associated fees. Fees will be reimbursed as a direct cost.

Task 2.2.1.2 Design Memo 2 – Pump Station Alternatives and Basis of Design

The purpose of this memorandum is to document the work to be completed by the CONSULTANT regarding the preliminary design of the pumps and wet well, performance of hydraulic calculations, and the development of the basis of design including pump type alternatives, pump configuration and mechanical layout, preliminary site plan and layout drawings, and life cycle costs. This memorandum shall focus on the pump configuration, layout, pump type and sizing alternatives, the wet well, and the electrical (major equipment, conduit runs and cable tray runs, location of panels) and mechanical configurations (pipe, HVAC, bridge crane and dumbwaiter) within the pump station structures. Other design issues will be addressed in other memoranda or studies. Work required to satisfy other portions of the scope of work shall be incorporated into the alternative development. The CONSULTANT shall consider all aspects of pump station design such as building layouts and OCSD Design Guidelines

Pump Alternatives

Pump Station Alternatives shall include; 1) immersible vertically driven with <u>2-vane</u> non-clog <u>or screw</u> impellers or, 2) extended shaft motor.

Pump selection will include; 1) pumps of all the same size/capacity, and 2) pumps of two different sizes to accommodate the full range of flows.

Pump Analysis

For each pump alternative, the CONSULTANT shall perform hydraulic calculations to size and select the pumps, motors, and drives including NPSH calculations. The hydraulic analysis shall include graphical representation showing the performance for each combination of pumps, high and low wet well levels and various FM system pressures with one or two force mains in operation. System pressures shall include the range of the Hazen-Williams or Manning's coefficients. The analysis shall include a summary of the dynamics of the wet well level and pump speeds with the starting or stopping of a pump including fill and draw calculations. Detailed calculations and graphic representation of each hydraulic case shall be submitted. The analysis shall look at fill and draw operation during the lowest flow conditions and the number of pumps starts and stops per hour. The analysis shall also include a summary of the dynamics of the wet well level and pumps speeds during a cleaning cycle.

Utilize the design flow rates developed from the hydraulic modeling study performed under Project 3-62 to properly size the pumps and determine the quantity of pumps. Use the following design parameters: a) Peak Wet Weather Flow (1-hour average, using a 10-year storm event, year 2040) 34 MGD; b) Peak Dry Weather Flow (1-hour average, year 2040) 10.9 MGD; c) Average Daily Dry Weather Flow (daily average, year 2016-17 from recent flow

monitoring) 8.0 MGD; and d) Minimum Daily Dry Weather Flow (1-hour average, year 2016-17) 3.3 MGD.

The pumps shall be selected to pass suspended solids, rags, fibrous material, and floatables as well as grit and heavy material. Rags must also be passed at minimum speeds by the pump, valves, meter, and piping and appurtenances. The CONSULTANT shall determine how the facility will operate under minimum daily flows for each alternative and shall delineate how often the pumps cycle on and off during the fill and draw cycles. Establish motor and pump vibration tolerances and acceptance criteria. Ensure adequate motor cooling is provided at minimum speeds.

The CONSULTANT shall present, in tabular form, each alternative describing its merits, advantages, disadvantages, life cycle costs, and operation and maintenance issues. CONSULTANT shall make one recommendation based on analysis, including a discussion of why the proposed configuration is preferred over another likely configuration.

The CONSULTANT shall provide a single wet well that shall be of the self-cleaning trench style. Wet well design shall meet the intent of Hydraulic Institute (HI) guidelines and minimize odors and corrosion. Determine the size/configuration of the wet well. The goal of the wet well size and configuration is to provide one hour of storage capacity (including upstream collection system capacity) before spilling during typical future peak daily flows. If this size is not feasible per the site restrictions, provide alternative recommendations.

In development of the design alternatives and configurations the CONSULTANT shall consult extensively with OCSD's staff. OCSD may authorize the CONSULTANT to eliminate pump alternatives during analysis if the CONSULTANT and OCSD conclude that an alternate configuration is not cost effective or constructible.

Basis of Design

The CONSULTANT shall provide recommendations for the most advantageous alternatives in a draft memorandum. Once OCSD has selected the preferred alternative, the CONSULTANT shall complete the remaining calculations and assessments required to establish all final design parameters for the pumps and station configuration and layouts and present these in the final memorandum (part of the PDR). The requirements in the most current EDGs shall be met. Any deviations or exceptions to the EDGs shall be pre-approved by OCSD before submitting. Pump hydraulics shall be finalized and complete detailed hydraulic calculations provided that include developing graphics that plot system curves, pump performance curves, NPSH curves, power curves, and efficiency curves at all the various operating conditions and for each sequence of pump operation. Graphics shall be designed to be easily read and interpreted. Samples shall be provided to OCSD for review prior to presentation of final graphics. NPSH margin shall be in accordance with the EDG, which is more restrictive than HI Standards. All the equations and calculations and data used to develop the data for the curves shall be provided along with the narrative explaining the methodologies used.

In preliminary design, the CONSULTANT shall develop harmonic factors for the concrete structure.

A limited analysis on operating levels shall be performed for this DM's alternatives for both the current (no deeper sewer) and future (with Los Alamitos Sub Trunk sewer installed) flow and

water level conditions. Operating philosophies shall be determined for the selected pumps and types within the Facility Operation and Maintenance DM.

CONSULTANT shall determine the "flood" level in the dry well, and what equipment should be above/below this level, and where a spill would occur for various system failures.

Design parameters for ancillary features, such as designing ventilation facilities and the sump pumps for the pump room drainage shall be calculated and established.

Corrosion control requirements; identify corrosive environments and recommend galvanic protection requirements, materials for piping, conduits, gates, covers, grating, and structural elements. Identify protective coating requirements for corrosive and non-corrosive areas.

Validation of Wet Well Configuration

After OCSD's acceptance of the draft Design Memo 2, a physical model in accordance with the Hydraulic Institute standards shall be constructed of the pump station wet well including the first reach of the upstream gravity system and any appurtenances on or in the suction piping. This is to confirm that favorable flow conditions would be created over the full range of flow rates. The physical model shall be reasonably large geometric scale to minimize viscous and surface tension scale effects, and to reproduce the flow pattern in the vicinity of the pump intake, and to be large enough to allow visual observations of flow patterns, accurate measurements of swirl and velocity distribution and sufficient dimensional control. The model shall be scaled and constructed in accordance with Hydraulic Institute recommendations with all pertinent sump structures and/or piping features that affect the flow. *In addition, the Influent Structure for the incoming, existing and future connections to the pump stations will be modeled to verify the effects of the cascading flows*.

This project scope includes that physical modeling and testing. The physical model of the pump station shall further refine wet well and piping dimensions. The physical model findings shall be incorporated into the PDR Executive Summary and in the Final Design.

Task 2.2.1.3 Design Memo 3 - Geotechnical and Groundwater Management Study

CONSULTANT shall secure the services of a qualified Geotechnical Engineering firm to prepare a desktop study Preliminary Geotechnical Design Report and Geotechnical Baseline Report that addresses geotechnical concerns for all applicable Project Elements of the project Scope of Work. The Geotechnical Design Report shall be prepared during the Preliminary Design Phase and the Geotechnical Baseline Report shall be prepared during Final Design Phase (see Task 3.3).

Review of Existing Data

CONSULTANT shall review all known soils and inspection reports, including 3-62 Evaluation Memo 2 Appendix 2 N&M Prelim PGR Force Mains. The review shall include all relevant reports.

Desktop Study Geotechnical Data Report

The desktop study Geotechnical Data Report (GDR) shall summarize the review of existing data and make recommendations regarding the provisions to be included in the construction specifications and regarding the Design of facilities. Specification recommendations shall be prepared for the following topics: dewatering, trench shoring, backfill, compaction, and road repairs. Design recommendations shall include active, at-rest, passive and dynamic earth pressures, foundation type, allowable bearing pressure, coefficient of friction between the foundation and soils/subgrade, pile or mat foundation design data, settlement potential, pipe bedding, trench shoring/maximum cut slope requirements, soil contamination/corrosion potential, structural needs, pipe stability, expected earthquake displacement, and other CONSULTANT design requirements. The GDR shall also make recommendations regarding the demolition of the existing pump station.

Delivery of Desktop Study

The draft and final desktop study GDR shall be submitted to OCSD for review and comment. All comments received regarding the GDR shall be addressed.

Refer to the Engineering Design Guidelines, Chapter 1 for further requirements. Some of the related design requirements can be found in the Engineering Design Guidelines, Chapter 2, Chapter 8, and Chapter 9.

Groundwater Management Study

The CONSULTANT shall provide options and a final recommendation for building the pump station and the future deeper sewer while avoiding any movement of the Navy's contamination plume during construction activities. The CONSULTANT shall document the contaminants of concern, map the plume concentration boundaries, and provide the assumptions for each option proposed.

The CONSULTANT shall provide a study outlining each option with cost, schedule/duration, permit requirements and risks associated with each option. The hydrogeologic investigation conducted under 3-62 shall be reviewed and evaluated if CONSULTANT proposes dewatering requirements for inclusion in the specifications. Additional information regarding the Navy's groundwater research may be found on the following websites:

https://www.cnic.navy.mil/regions/cnrsw/installations/nws_seal_beach/om/environmental_supp_ort/environmental_cleanup/seal_beach/documents.html

https://geotracker.waterboards.ca.gov/profile report.asp?global id=DOD100355700

The accepted option shall be full developed during Final Design Phase.

A draft Groundwater Management Study outlining plausible construction options shall be submitted to OCSD for consideration 60 working days following Preliminary Design NTP.

Task 2.2.1.4 Design Memo 4 - Structural and Architectural

The purpose of this memorandum is to document the work to be completed by the CONSULTANT regarding the structural and architectural elements of the project. Alternatives shall be developed for site layout.

The architectural design shall be for:

- Motor/Pump Room
- Electrical Building
- Generator Building
- Chemical Storage/Dosing and Air Scrubber Building
- Landscaping (See Design Memo 5)
- Perimeter Wall, fencing and screening of equipment and appurtenances
- Security features (see Design Memo 10)
- Include conceptual layout of a future replacement Pump Station in the current proposed PS layout.

A restroom shall be provided onsite. Install the restroom door on the exterior wall. The walls within the restroom must be sealed from the pump or electrical room.

The architectural design shall use building exterior features, size, orientation, site layout, hardscape and landscaping to accomplish the architectural goal for the site. Exposed mechanical and electrical features on the exterior of the buildings shall be kept to the absolute minimum and those required shall be recessed and/or covered to blend into the architectural features. Mechanical feature like chemical tanks shall be screened with hardscape, buildings or architectural facades. Civil, electrical, and structural design shall not advance to Final Design until an architectural site layout, perimeter wall concept and exterior building features have been approved by OCSD.

The CONSULTANT shall develop three preliminary layouts with different building combinations and orientations. Once the quantity and general layout of buildings is approved, the CONSULTANT shall develop multi-viewed renderings. Architectural renderings and preliminary and final design shall be completed by California licensed Architects. A Public/Commercial Architect shall work with a Landscape Architect to develop all renderings. The architects shall consult with OCSD Security layering requirements before beginning any renderings.

The chosen rendering shall undergo four revisions that include checks against each final design submittal to ensure all appurtenances, piping, conduit, and all other industrial elements are strategically screened from public view.

Provide structural engineering and design for the entire pump station facility. Detailed drawings to be generated in Phase 3. The harmonic factors for the concrete structure developed during DM2 – Pump Station Alternatives and Basis of Design shall be incorporated into the final design and into the Contract Documents as vibrations parameters.

Use the reinforcing distribution factor for severe sanitary exposure for wet well analysis. Design shall ensure water tightness of the structure.

Provide a finite element computer aided structural and dynamic analysis for proposed design. Determine the natural frequency of the structural support systems for rotating equipment and piping. Ensure that pumps and motors and valves can be removed from building via a bridge crane or other method without going through the electrical and control room.

Task 2.2.1.5 Design Memo 5 – Civil, Landscaping, Irrigation, Noise, and Utilities

The purpose of this memorandum is to document the work to be completed by the CONSULTANT regarding the civil, landscape, irrigation, and utility design elements of the project. Alternatives for landscaping and hardscape shall be prepared to support the building architectural alternatives. Landscaping and hardscape shall be designed in conjunction with the building architecture to provide an overall aesthetically pleasing site that screens facilities from public view and meets City of Seal Beach criteria.

Civil Improvements

Design facilities to maintain separation of off-site drainage from on-site drainage. On-site drainage shall be contained on-site and shall percolate into the ground or be conveyed by gravity to the wet well. Include flap gates to contain odors. Design hardscape and grade the site to allow percolation of rainwater where feasible. Design on-site facilities to contain 24-hour 85th percentile rain event and force larger flows off-site to City facilities. Design facilities to meet agency requirements with regards to pervious areas and other pertinent criteria. Recommend permanent Best Management Practices for incorporation to the final design.

Design storm drains to eliminate ditches along southern and western edges of property. Connect to existing inlet at City storm drain on the northeast corner of the intersection of Seal Beach Boulevard and Westminster Boulevard. Backfill and compact the existing ditches to grade.

Design to prevent releases of industrial stormwater (process/chemical area) and sanitary sewer overflow releases, to meet NDPES permit conditions.

Review maintenance vehicle and chemical deliver truck sizes and design site and building layout and access roads to accommodate. The largest vehicle to access the site will be a full length chemical delivery truck. OCSD Maintenance vehicles will need access to clean the wet wells and remove equipment (via a crane). Maintain separation between chemical loading area and wet well access manholes, so that chemical delivery does not disrupt maintenance operations.

Paving shall be designed to handle H-20 loading and loads from delivery trucks and cranes. The two entry points shall be maintained to allow drive through access. Provide design of all

utilities required for the project including City water, natural gas (if required), electricity, storm drain, fiber optic, sewer, cable, telephone, and as required for the project. The sewer lateral from the restroom shall be routed to the next upstream manhole. Include back flow prevention devices and meet cross connection requirements. Coordinate with utility providers to ensure service can be provided. Provide all parameters required for civil preliminary and final design.

Design Navy security fence 30-feet offset from existing fence at rear of SBPS property. During 3-62 Preliminary Design, preliminary plan layouts were prepared showing how the new station and Navy security fence improvements may exist on the property. These preliminary plan layouts are provided to the CONSULTANT. See **Exhibit 15**.

Electrical and generator building foundations shall be located above the 100-year storm event elevation.

In conjunction with the geotechnical studies, indicate the limits of excavation and shoring requirements.

Landscaping and Irrigation Improvements

Landscaping shall be completed by a Landscape Architect, duly registered in the State of California. Landscaping shall be coordinated to blend in with the California Mission architectural style. Landscaping shall be incorporated into architectural renderings. Conduct soil tests and recommend amendments as necessary. Minimize the amount of irrigation and maintenance required by softscape.

Noise

Provide noise attenuation measures within the standby generator room, odor control system, and ventilation fans. Provide noise attenuation on the inlet and exhaust sides of the generator system. Provide critical hospital grade silencers on the generator. Assess the need to place noise attenuation on the ventilation systems of the other buildings. Prepare a written noise report as part of this memorandum that includes:

- Visiting the site and conduct ambient noise measurements to establish baseline.
- Identify external sources of noise.
- Identify potential methods for defining noise impacts.
- Develop noise model consistent with noise impact assessment methods.
- Determine exterior noise levels and compliance with assessment standards.
- Determine noise impacts of the proposed improvements.
- If required, develop mitigation measures to meet design standards.
- Determine compliance with City ordinance.

Utilities

CONSULTANT shall determine all required utilities and coordinate acquisition of service and coordination with utilities.

Task 2.2.1.6 Design Memo 6 - Mechanical

The purpose of this memorandum is to document the work to be completed by the CONSULTANT regarding the Mechanical elements of the project (except for the main pumps which are covered in Design Memo 2). The mechanical elements include sump pumps, HVAC, ventilation, air compressor, and miscellaneous appurtenances. Mechanical design shall meet currently adopted building code requirements.

Mechanical systems shall be ergonomically designed and have sufficient access for maintenance, removal and replacement (See Design Memo 14). Indicate how access will be provided for operation and maintenance.

HVAC

Provide preliminary calculations, and equipment and material recommendations for those facilities that require air conditioning or ventilation. Ventilation levels shall conform to NFPA 820 requirements for the dry well for reducing the area classification level even though the dry well will be designed for Class I, Division 2. Design shall be completed by a California registered Mechanical Engineer.

Sump Pumps

Document the basis of sump pump sizing. Develop a reasonable design approach to maintain pump reliability even when pump room floods. Design the sump dimensions to adequately handle the explosion proof submersible pumps while minimizing fluid volume after shut off. Design the sump pump system with a standby pump. All sump pumps shall be the same size and type. Sump pumps shall be submersible, non-clog sewage pumps with chopper blades. Power and control cable connections shall be plug in type.

Pump Room Accessories

Document basis of the sizing and selection of the following equipment.

Cranes and hoists. Size a traveling bridge crane at the top of the pump room for lifting and removal of pumps, motors, valves, pipe segments, and other heavy equipment, skids, or appurtenances. Design the pump room layout and crane system such that the hoist can be moved directly over the centerline of each pump, pump and motor combination, valves, and piping. The capacity of the system shall be designed to lift two times the weight of the heaviest pump and motor combined or the heaviest piece of equipment. Add lifting brackets to walls and slabs to accommodate lifting of equipment other than the equipment described above. Design the facility configuration such that removal of items from the pump room can be accomplished without making openings into the electrical or control room or other unclassified building areas. Design the system to remove items with a maximum of two lifts.

Heavy-duty floor-loading dumbwaiter that travels from grade level to mezzanine and ground floor of dry well for transport of tools and maintenance equipment.

Compact, sound attenuated air compressor system to run pneumatic tools for operation and maintenance of the station.

Miscellaneous

Document sizing and selection criteria for motorized vehicle entry gates.

Plumbing Fixtures

Restroom fixtures shall be institutional heavy duty and stainless-steel construction. Provide stainless steel emergency shower for chemical areas. Design the restroom in a separate enclosed room as part of the building over the pump room or one of the other buildings.

Task 2.2.1.7 Design Memo 7 – Electrical and Standby Power

CONSULTANT shall obtain and adhere to OCSD's most recent Electrical Design Guidelines on the following subjects before proceeding with the preliminary electrical design. Particular subjects of concern include the following:

- Electrical equipment naming conventions and tagging
- Switchgear automatic transfer scheme
- Arc flash mitigation measures

CONSULTANT shall provide the following:

- Preliminary Load List with motor horsepower. This list shall show all major and auxiliary electrical loads for each voltage level. Load lists shall be provided for dry weather and wet weather conditions.
- Preliminary standby power requirements (see Engineering Design Guidelines, Chapter 10, Section 10.7 "Distribution System Requirements"). Include general requirements and preliminary equipment sizing.
- OCSD will perform preliminary calculations for the short circuit analysis, load flow/voltage drop study, motor starting study, preliminary settings for the protection device and coordination study, and preliminary arc flash analysis and approach recommendations. The CONSULTANT shall provide OCSD with the SCE incoming short-circuit information and a single line diagram with circuit breaker ratings and cable sizes and lengths.
- Hazardous Area Classification requirements (see Engineering Design Guidelines, Chapter 10, Section 10.6.1 "Hazardous Areas" and NFPA 820 requirements).
- SCE Coordination. Size SCE transformer to handle peak wet weather flow condition. Coordinate with SCE for available fault current, location, and sizing of new transformer,

installation requirements and configuration of metering section, and service entrance switchboard.

 Anticipated maximum demand load on the SCE service when the existing pump station is operating, and the new pump station is being commissioned and recirculating the flows within the new pump station wet well.

Task 2.2.1.8 Design Memo 8 –Instrumentation and Control

CONSULTANT shall recommend instrumentation and control solutions to support this Scope of Work.

I&C Design Requirements for Existing Facilities

OCSD has established standards for Programmable Logic Controller (PLC) Programming, Operator Interface (OI) programming, a database propagation system and register addressing. The CONSULTANT shall incorporate OCSD's standards in the P&ID drawings and in all control strategies. Control logic diagrams are not required for this project. **Exhibit 12** in this Scope of Work presents an example of the Process and Instrumentation Diagrams (P&ID's).

Non-ISA standard symbology is used to depict the OCSD's standard logic templates in the P&ID. Control strategies shall call out appropriate OCSD standard logic templates and describe interconnecting and custom logic. CONSULTANT shall provide attention to the following:

- Tag Numbering System. Provide the basis for equipment tag numbers as developed from numbers provided by OCSD. CONSULTANT shall develop proposed Area Numbers for all major equipment for OCSD review and approval. The development shall follow OCSD tagging procedures. (see Design Standards, the Tagging Procedure standard)
- Process & Instrumentation Diagrams (P&ID). Each P&ID shall be coordinated with other design memos and shall show all major and most auxiliary equipment, final elements, and instrumentation. The P&IDs shall be coordinated with the operating philosophies.
- Control cabinet locations, quantity, sizes, and configuration. Cabinet sizes shall be based on the largest components available from OCSD approved manufacturers and shall conform to the OCSD's standard PLC cabinet layout for pump stations. These layout dimensions will be carried out through the final design.
- Coordinate vendor proposals for any integrated systems (including vapor-phase odor control and liquid-phase odor control).
- De-ragging controls shall be added to pumps and system description shall be included.
- Preliminary Communications Block Diagrams including data network block diagram, preliminary CCTV block diagram, and preliminary telephone block diagram. (see Engineering Design Guidelines, Appendix A, Section A.2.21 "Network Block Diagram" for requirements)

 Interim Control Plan describing how the existing and new pump stations will be controlled and will communicate with the Plant 1 Control Center when the new pump station is in RAT. Interim Control Plan shall be integrated into and become a part of the Implementation Plan.

The CONSULTANT shall evaluate the project area systems (I&C and the related systems) and the respective proposed system philosophy. E.g.:

- Control schematic requirements per OCSD Design Guidelines Appendix B including hardware interlocks, local control stations, and I/O upgrades.
- Requirements for field instrumentation.
- Control panel rack layout.
- Software requirements for manual and automatic control capabilities, control
 interlocking, and upgrades to full automation with unattended operation as required per
 OCSD Design Standards (unless otherwise determined by OCSD and CONSULTANT
 during the design period).
- I&C requirements due to the new Electrical distribution equipment discussed in DM 7 Electrical.
- I&C requirements for fire protection and the HVAC system discussed in DM 6 Mechanical and DM 10 Fire Protection, Security and Safety.

Task 2.2.1.9 Design Memo 9 -Odor Control and Air Quality Management

CONSULTANT shall review the odor control evaluation memo and mechanical design memo provided by project 3-62. These documents evaluated multiple types of liquid and vapor phase odor control for permanent installation as well as temporary installation during construction activities. The original evaluation was done with respect to the original design intent of rehabilitating the Seal Beach Pump Station. The updates below shall incorporate the updated flow rates and changes due to the replacement of the pump station.

The CONSULTANT shall augment the existing evaluation report that investigated the sitespecific issues regarding odor control, established odor control strategies, and produced design parameters for odor control facilities. Augmentation shall include:

- Calculating foul air volume and sizing the facility with the updated volume determination
- Determining and using the correct dilution factor used for foul air calculation
- Preparing a safety evaluation and discussion of risks associated with the selected treatment options

- Discussing 2 vendor options for liquid oxygen injection into the system, including a discussion of procurement options and more detailed layouts and operational philosophies.
- Comparing the options of LOx delivery versus on-site generation
- Performing a high level feasibility review to reuse the existing pump station dry well and/or wet well for odor control facilities following the decommissioning and demolition/abandonment of the existing pump station

Task 2.2.1.10 Design Memo 10 - Fire Protection, Security and Safety

CONSULTANT shall prepare a Fire Protection and Safety Requirements Report packaged in a design memo that evaluates fire protection and safety requirements for both proposed facilities and existing facilities within the project area.

Fire Protection

The Fire Protection portion of the report shall identify locations of fire hydrants and potable water piping that can be used to supply hydrants and possible sprinkler systems. The report shall also include a Field Findings Report on fire protection test results. This report shall summarize the potable water system pressure and available volume for fire protection and shall identify if a booster pumping system is required.

For purposes of the proposal, CONSULTANT shall assume that the existing potable water system has adequate pressure and volume to supply the required sprinkler systems and hydrants.

Security

Assess security issues at the pump station site. Determine what level of security is required per DHS guidelines. Interview OCSD security personnel and review internal documents and provide recommend products for interior and exterior CCTV for the site, intrusion switches that transmit alarm signals to the SCADA system on all exterior gates and panels, doors, and hatches and into any hazardous or classified areas, and cyber locks on building doors and site gates.

Provide preliminary exterior lighting schedule and layout. Bear in mind, the exterior lighting shall be balanced with architectural landscape elements and methods to prevent lighting from being a nuisance issue with local neighbors. Implement OCSD security standards and protocols.

Design Safety Requirements

The Safety Requirements portion of the memo shall identify all potential safety issues for Contractor, public, and OCSD staff affecting the construction of all equipment, process areas, and buildings. As a minimum, the CONSULTANT shall consider the following and provide respective recommendations:

• Fall hazards, pits, and confined spaces

- Excavation and trenching hazards
- Electrical hazards
- Site access
- Hazardous substances

The CONSULTANT shall identify all potential safety issues affecting the operation and maintenance of all equipment, process areas, and buildings. As a minimum, the CONSULTANT shall consider the following and provide respective recommendations:

- Floor openings and hatches
- Floor holes
- Roofs (access and equipment maintenance)
- Walking-working surfaces (buildings, stairwells, tunnels, and outdoor equipment areas)
- Noise
- Ergonomics (including equipment operation)
- Clearance and passageways (for installing devices, panels, or valves).
- Cranes and other hoisting equipment
- Barricades for protection of electrical panels or gas/water line connections
- Atmospheric alarm device for locations where there is potential for hazardous atmosphere, which includes warning lights.
- Locations of equipment that may lead to a safety issue.
- Applicable safety issues and solutions included in OCSD Safety Standards.

Task 2.2.1.11 Design Memo 11 - Hazardous Material Survey, Mitigation and Control

The CONSULTANT shall review the hazardous material surveys found in the PDR of Project No. 3-62, and otherwise provided by OCSD (OCSD SBPS Asbestos Lead Hazardous Survey Report 2015 and OCSD SBPS Asbestos Lead Hazardous Survey Report 2019). See **Exhibit 08**.

The design memo shall address how the hazardous materials mitigation and control should be handled, the estimated cost for removing the material and placing it into OCSD-furnished containers, and a separate cost for final disposal of the material in the containers by an OCSD-hired Contractor.

The hazardous material surveys and this DM shall be utilized in Task 3.1.1.3 – Technical Specifications to edit the project's specification for Hazardous Materials Mitigation and Controls.

Task 2.2.1.12 Design Memo 12 – Code, Environmental, Permits, Agency Coordination, and Traffic Control

The purpose of this Design Memo is to document the work to be completed by the CONSULTANT regarding the environmental, permitting, agency coordination, and traffic control elements of the project. This design memo shall document what requirements apply to the design and operation of the proposed facilities.

Code Requirements

Identify the following that apply to the project:

- Building codes and other regulations
- State and federal accessibility requirements (e.g. ADA)
- State and federal safety standards and regulations.
- Ventilation requirements in accordance with NFPA 820
- Seismic design criteria used based on a literature review of existing geotechnical information; evaluation of proximity to faults, seismic classification assigned to each structure, and seismic calculations.

Environmental and Regulatory Requirements

This portion of the Design Memo shall include the Mitigation, Monitoring and Reporting List required by OCSD's CEQA – Facilities Master Plan. A number of mitigation measures required by existing CEQA documentation are included in OCSD's General Requirements, which will be included in the bid documents. CONSULTANT shall provide a matrix identifying what portion of the General Requirements addresses the requirement.

Other mitigation measures necessary for this project that are not already included in OCSD's General Requirements shall be listed in a similar matrix.

Permitting Management Plan

CONSULTANT is responsible to identify all agencies that require permits to design, install, construct, maintain, and operate the new force mains or that have jurisdiction or who could place constraints on the project. Within this Design Memo, provide a Permit Management Plan in tabular form, including a list of required documents by each permitting agency, the actual permit required, applicable agency contacts, deadlines to submit completed applications, anticipated processing durations, anticipated costs, major concerns/issues, etc. The permitting management plan is to be developed by the CONSULTANT to keep track of all permits. This document shall be updated throughout the permit acquisition process.

CONSULTANT shall participate in meetings with the staff of the applicable agencies as necessary to ensure that the design of facilities is consistent with the agency requirements. Suggested attendees are the Specialist, Project Manager, and either the Principal Engineer or the Project Engineer. OCSD staff shall attend all meetings. Minutes of meetings and documentation of phone calls and other communication shall be prepared and submitted with the design submittals.

CONSULTANT is also responsible for obtaining permits required to complete the design phase of the project including permits for soil borings, surveying, geophysical testing, testing, potholing, flow monitoring and/or odor sampling. Traffic control is required when in the public right-of-way and shall be provided by the CONSULTANT.

Agency Coordination

Coordination between agencies, including but not limited to City of Seal Beach, the Navy, and OC Healthcare Agency, will be necessary throughout the project. Coordination may include but is not limited to: attending design, landscaping and architectural coordination meetings and reviewing others design plans to insure they do not conflict or restrict the use of or access to the new pump station.

Traffic Control

CONSULTANT shall prepare and submit all traffic control plans and obtain applicable encroachment permits to support investigative activities such as potholing, sampling, exploratory excavations, geophysical, geotechnical investigation, land surveying, access to manholes, and obtain approval from the governing agency/city.

Task 2.2.1.13 Design Memo 13 - Construction Phase Implementation, Constructability Issues, Cost and Schedule

This Design Memo shall address issues affecting and affected by the implementation of the proposed project. Contents of the Design Memo shall include the following issues:

Identification of Adjacent Projects

The CONSULTANT shall identify and describe projects which might impact or be impacted by this project. Adjacent projects may include OCSD and any other known non-OCSD project that might require coordination with the project. The description shall document spatial aspects of the adjacent projects, their schedule, and any other interdependencies. The Design Memo shall describe the type of coordination required to minimize negative impacts on all of the projects.

Preliminary Construction Sequencing Plan.

The plan shall include the following material:

- Description of sequencing constraints and the reasons for those constraints.
- Implementation alternatives that might expedite construction and commissioning, avoid sequencing constraints, and/or mitigate schedule and cost risks.

- A detailed narrative describing a likely sequence for how construction and commissioning would be completed. The purpose of the narrative is not to decide exactly how the project should be completed, but to demonstrate that there is at least one viable method to complete the work, and to clarify what risks may be associated with that plan. The narrative should include sequential graphics clearly describing how the work can be phased.
- A CPM construction schedule showing in the interrelationships of the elements of the project. The schedule shall be prepared using software intended for schedule projects. Examples of acceptable software packages include Microsoft Project and Primavera.

Review of Constructability Issues

The Design Memo shall describe all project-specific issues that might impact bidding, construction, and commissioning. The Design Memo shall describe the following aspects of each issue:

- The consequence of the issue occurring.
- The likelihood that the issue will occur, including what factors would cause it to occur, or not.
- Suggested mitigation measures and when mitigation measures might be implemented.
- Potential project changes and approaches that may be warranted to address the issue.

Temporary Facilities During Construction

CONSULTANT shall identify in what instances such facilities are required or reasonably warranted and present those instances with implementation plans and construction sequencing constraints to OCSD for consideration. CONSULTANT shall provide drawings and recommend specifications to be included in the Bid Documents that bidders understand what is required to provide and potentially operate the temporary facilities and that the reliability and performance of the facilities will meet OCSD's needs and reasonably mitigate construction risks. Examples of potential temporary facilities include:

- Temporary odor control facilities
- Temporary noise abatement
- Temporary connections to facilitate start-up and testing
- Temporary piping to phase the replacement of the utilities
- Temporary standby power or temporary electrical equipment to accommodate modifications to SCE incoming power feed, relocation or replacement of the existing SCE transformer, the transfer of electrical loads from existing electrical equipment to new electrical equipment and the phasing of the electrical equipment installation.
- Temporary communications

Temporary Handling of Flow

CONSULTANT shall design measures for the temporary handling of flows to be implemented by the Contractor during construction considering OCSD's goal of zero sewage spills. This design memo shall describe any pumped bypasses, gravity bypasses, diversions, plugs, shutdowns, connections/tie-ins, etc.

If existing facilities such as valves, gates, stop logs, etc. are being considered for use for shutdowns or diversions, this design memo shall include a plan for testing those facilities during Phase 3 - Design to verify that they will function adequately for the purpose. If testing cannot be performed, CONSULTANT shall identify the risks associated with using the facility for bypassing, along with contingency plans and mitigation measures to be implemented if they are found not function adequately during construction.

The design memo shall include the following information for each identified bypass:

- Bypass pipe size, material, redundancy, location, protection, traffic issues, etc.
- Bypass pump sizing requirements, redundancy, monitoring, operation, maintenance, etc.
- Plugging and flow-through plug sizing.
- Diversion requirements including manhole level monitoring requirements.
- Any other descriptions required to confirm that the proposed bypassing approach is viable and ready for further development during detailed design.

Preliminary Design Construction Cost Estimate

The CONSULTANT shall prepare an AACE International Class 3 cost estimate per OCSD's Engineering Design Guidelines, Chapter 01. A sample construction cost estimate format is provided in **Exhibit 05**.

Data used to prepare the cost estimate, including vendor quotations, shall be included as an attachment to this Design Memo.

Demolition of Equipment and Instrumentation Databases (EIDs)

CONSULTANT shall identify all equipment and instruments listed in the existing EIDs that will be demolished. The identification shall be noted in the MS Excel spreadsheets to be submitted with the PDR.

Task 2.2.1.14 Design Memo 14 - Facility Operation and Maintenance

This design memo shall include the following material:

 Sampling provisions, with references to the Process Flow Diagrams, including the proposed nature of the sampling (grab, composite, flow-weighted composite), and the

- anticipated frequency of sampling. This topic will require the involvement of OCSD Operations and Environmental Compliance staff.
- Operating Philosophies which include process control descriptions with information on normal, abnormal, and emergency operating criteria including an additional operating philosophy to be used during the interim period prior to new Los Alamitos Sub Trunk Extension pipe construction. See Engineering Design Guidelines, Appendix A, Section A.3.7 "Operating Philosophy" for requirements.
- System failure mitigation analysis. This analysis shall look at different failure modes of
 the critical mechanical, electrical, instrumentation, and control systems. Critical
 systems are those systems that would prevent the pumps from pumping if they failed.
 For each failure mode, a strategy to respond and remedy the failure shall be proposed.
 This list of failure modes shall be carried into final design, updated, modified, and
 submitted with each submittal.
- Develop a strategy for removal and replacement of each piece of equipment and pipe segment with regards to pump room layout and crane system. Include strategy for accessing equipment safely during routine maintenance.
- Standard Operating Procedure for future planned total pump station bypass. Include list
 of all material and equipment necessary as well as recommendation for equipment and
 material purchases necessary to achieve total bypass.
- Preliminary assessment of O&M staffing requirements, consisting or identifying labor hours and types of staff (see Engineering Design Guidelines, Appendix A, Section A.3.11 "Asset Management Plan" for requirements).
 - o Include list of anticipated maintenance schedules for equipment
 - o Include required provisions and access areas for equipment maintenance

Task 2.2.2 Preliminary Design Drawings

Preliminary Design drawings shall be bound into a separate volume. Drawing requirements by discipline are described In **Exhibit 01**.

TASK 2.3 -VALUE ENGINEERING ASSISTANCE

CONSULTANT shall participate in a Value Engineering (VE) program as described in the EPA publication entitled "Value Engineering for Wastewater Treatment Works", dated September 1984. The workshop will be managed primarily by an independent VE consultant hired by OCSD.

Examples of topics that may be covered in the Value Engineering Study include: project concepts, operations requirements, maintenance requirements, user friendliness and safety, possible project improvements, cost saving measures, public nuisance issues, site access, safety, and constructability.

2.3.1 Workshop Participation

The VE workshop will be held by the VE Consultant at an off-site location in or around the City of Fountain Valley, California, over a period of three (3) days as follows:

- CONSULTANT shall prepare all documentation to be reviewed at the workshop and mail the materials to all VE workshop participants at least one (1) week prior to the workshop.
- The morning of Day One (1) shall involve a detailed presentation by CONSULTANT to the VE
 Consultant and OCSD staff regarding the design and construction project to cover the design
 concepts for each project element. The presentation shall be followed by a site walk. A
 question and answer session shall follow and continue through lunch which will be arranged for
 and provided by the VE Consultant. OCSD stakeholders may also be available to answer
 questions.
- During the afternoon of Day One, CONSULTANT shall give a detailed presentation to the VE
 Consultant and OCSD staff regarding the design and construction project schedule and a
 history of the decisions which limit the project and its sequencing. A question and answer
 session for this presentation shall follow. OCSD stakeholders may also be available to answer
 questions.
- Day Two (2) will be a work day for the VE Consultant. At least one designated individual from the CONSULTANT shall remain to answer questions and gather additional information that the VE Consultant might need. OCSD stakeholders may also be available to answer questions.
- The morning of Day Three (3) will be reserved for the VE Consultant to formulate their recommendations in preparation of their presentation that afternoon to CONSULTANT and OCSD staff. At least one designated individual from CONSULTANT shall be available again to help the VE Consultant in their efforts. OCSD stakeholders may also be available for a discussion. The afternoon presentation by the VE Consultant will outline their recommendations that are anticipated to be the body of the VE report. A designated individual from VE Consultant will record the comments and take notes from the workshop to document the process.

Task 2.3.2 Review of Value Engineering Recommendations

CONSULTANT shall evaluate the VE Report recommendations, conduct additional engineering analyses as determined by OCSD, and meet with OCSD to discuss the results of the engineering analyses and incorporation of all additional recommendations into a Final VE Report. CONSULTANT shall assume an allowance of 200 hours for this task.

TASK 2.4 - NOT USED

TASK 2.5 - PERMITTING ASSISTANCE

CONSULTANT shall provide all the labor and services to obtain all required permits and signatures from affected agencies on OCSD's behalf prior to the bidding phase.

CONSULTANT shall prepare all permit applications, including plans and exhibits required by the issuing agency, and shall furnish the required number of copies of all plans and exhibits,

and attend meetings with permitting agencies at the request of OCSD. OCSD staff will sign all applications.

CONSULTANT shall obtain the services of a Permitting/Right-of-Way Specialist (Specialist) who will be responsible for coordinating, negotiating, advising, and overseeing the entire process. Multiple Specialists for different permits are acceptable. Each Specialist must have experience in the applicable area. The Specialist will be responsible for coordinating and communicating with the granting entity, and ensuring the CONSULTANT is providing all of the required information at each phase of a submittal. The CONSULTANT shall provide full support to the Specialist and will be involved in face to face meetings during each design phase (Preliminary and Final Design Phases). The CONSULTANT's Project Manager shall be responsible for managing the Specialist. Below, the use of the word CONSULTANT also implies the Specialist. It is not required that a Specialist be a subconsultant. However, an "in house" Specialist must display extensive experience in the area of importance and should not be the Project Manager.

CONSULTANT services related to Permitting Assistance may span across Phase 2 – Preliminary Design and Phase 3 - Design. For all applicable Project Elements of this Scope of Work, CONSULTANT shall provide Bid Documents that ensure that the facility features and the facility performance, and construction procedures comply with all conditions of existing permits and permits required to construct this project.

With the exception of construction contractor-furnished permits, OCSD staff will execute all applications. All permit fees will be paid directly by the OCSD and will not be part of CONSULTANT's fee.

Task 2.5.1 SCAQMD Permitting

CONSULTANT shall provide assistance to OCSD in obtaining the South Coast Air Quality Management District (SCAQMD) permits for the project. The CONSULTANT shall provide completed SCAQMD permit application forms and supplemental information packets for an onsite generator, a chemical dosing system, and onsite odor treatment.

2.5.1.1 Demonstration of Compliance with New Source Review for Criteria Pollutants (SCAQMD Reg. XIII)

Emissions Estimation: CONSULTANT shall estimate emissions of criteria pollutants in terms of both concentrations and mass rates to determine if there is an increase in "uncontrolled" emissions (mass rates) from the project. CONSULTANT may utilize air sampling data previously collected by OCSD. If OCSD's data is not adequate, CONSULTANT shall perform source tests and/or conduct fate-transport modeling. CONSULTANT shall submit the emission estimates to OCSD for approval prior to proceeding with the subsequent work.

Best Available Control Technology (BACT): If there is an increase in "uncontrolled" emissions (any amount for NOx and CO and greater than 1 lb./day each for VOC, NH3, and PM10), CONSULTANT shall evaluate and determine BACT for the affected pollutant(s).

Air Dispersion Modeling: If the net increase (uncontrolled or controlled if air pollution control system is employed) in NOx, CO, and PM10 emissions are greater than the allowable emissions as established in the SCAQMD Rule 1303 Appendix A: Table A-1, CONSULTANT

shall conduct air dispersion modeling to demonstrate that the project will not exceed the ambient air quality standards as listed in the SCAQMD Rule 1303 Appendix A: Table A-2. Prior to conducting this task, CONSULTANT shall submit the proposed modeling methodology for OCSD's acceptance.

CONSULTANT shall use EPA's AERMOD dispersion software. OCSD has an existing ISCST model built for a previous odor modeling project which requires substantial revisions to correct deficiencies and to update structures built since the model was last updated. CONSULTANT may use the data in the existing model, provided CONSULTANT verifies the accuracy of the data.

2.5.1.2 Demonstration of Compliance with New Source Review for Air Toxics (SCAQMD Rule 1401)

Emissions Estimation: CONSULTANT shall estimate emissions of Toxic Air Contaminants (TACs) in terms of both concentrations and mass rates for each of the TAC listed in SCAQMD Rules 1401 and 1402 – "Proposed List of Air Toxic Target Compounds for POTW." CONSULTANT shall submit the emission estimates to OCSD for acceptance prior to proceeding with the subsequent work.

Air Dispersion Modeling and Health Risk Assessment: If there is an increase in emissions of any TAC, CONSULTANT shall conduct air dispersion modeling and health risk assessment to demonstrate that the project will not result in an increased Maximum Individual Cancer Risk (MICR) greater than one-in-one million (1.0 x 10-6). Prior to conducting this task, CONSULTANT shall submit the proposed modeling methodology for OCSD's acceptance prior to conducting the work.

Best Available Control Technology for Toxics (T-BACT): If the MICR from the project is greater than one-in-one million (1.0 x 10-6), CONSULTANT shall evaluate and determine the T-BACT.

The air dispersion modeling shall be conducted using the EPA's AERMOD dispersion software. The health risk assessment shall be conducted per SCAQMD's latest "Risk Assessment Procedures for Rule 1401 and 1402.

2.5.1.3 Demonstration of Compliance with SCAQMD Rule 1403

If the Hazardous Material Surveys determine the presence of asbestos, CONSULTANT shall adhere to AQMD Rule 1403 to limit asbestos emissions during building and demolition activities.

2.5.1.4 Demonstration of Compliance with Odor Nuisance (SCAQMD Rule 402)

The results of the foul air characterization and odor dispersion modeling conducted under this task may be used to demonstrate that the project complies with SCAQMD Rule 402.

2.5.1.5 Planning and Design Strategies for Air Pollution Control System

If an air pollution control system is required for BACT, T-BACT, and/or Odor, CONSULTANT shall be responsible for planning and design strategies to meet regulatory and OCSD

standards and perform any additional air dispersion modeling to determine the efficacy of the proposed air pollution system. All exhaust stacks, vents, and sample ports required shall meet SCAQMD's Guidelines for Construction of Sampling and Testing Facilities.

2.5.1.6 Demonstration of Compliance with SCAQMD Rule 212

If there is a K-12 school within 1,000 feet of the project, CONSULTANT shall notify OCSD for further instruction.

Task 2.5.2 Navy Permitting

CONSULTANT shall provide assistance to OCSD in obtaining the permits for the project (license for non-federal use of Dept of the Navy Real Property for survey aerial targets along Seal Beach Blvd and perhaps geotechnical borings, construction permit, right-of-entry permit for secondary security fence, groundwater management, etc.).

Task 2.5.3 City of Seal Beach Permitting

CONSULTANT shall provide assistance to OCSD in obtaining the City of Seal Beach encroachment permits for project construction, as well as permits for survey work, potholing, and geophysical investigations. The project shall be processed through the City of Seal Beach to ensure Planning, Environmental, Utilities, Landscape Maintenance, Fire, and Public Works concerns are incorporated. Obtain an encroachment permit. The CONSULTANT shall assume a minimum of four submittals. The first preliminary submittal shall be at the Draft PDR stage. Formal submittals with traffic control plans shall be at DS3.

Task 2.5.4 Coastal Commission Permitting

CONSULTANT shall provide assistance to OCSD in obtaining the Coastal Commission permit for the project. Assume submission of Coastal Commission Exemption Request including preparation of application form, cover letter and plans, and making follow up calls until permit exemption is received.

Task 2.5.5 Stormwater Permitting

CONSULTANT shall provide assistance to OCSD in obtaining the Stormwater permit for the project. CONSULTANT shall determine and specify the preliminary Risk Level and Project Type using the California State Water Resources Control Board's Storm Water Multiple Application and Report Tracking System (SMARTS) based on the R-Factor obtained from US EPA's online Rainfall Erosivity Factor Calculator for Small Construction Sites. CONSULTANT shall determine which OCSD master specification is appropriate for use.

TASK 2.6 - PROJECT MANAGEMENT

CONSULTANT shall be responsible for managing CONSULTANT's project execution, schedule, budget, subconsultants, and coordination with other projects. The following project management requirements apply to both Phase 2 – Preliminary Design and Phase 3 - Design.

Task 2.6.1 Project Management Plan

CONSULTANT shall prepare a Project Management Plan (PMP) prior to beginning technical work on the project. The purpose of the PMP is to ensure that the work is properly planned so that:

- The resources are efficiently used to complete the project scope accomplish the project objectives.
- The work is planned to meet the specified schedule while providing appropriate opportunities for OCSD input.
- Quality control and quality assurance measures are planned and implemented to meet OCSD's expectations.

The PMP shall focus on project-specific information and be as concise as possible to document the required information. Where CONSULTANT has a standard procedure for some activity, that procedure shall be referenced, and not repeated in detail.

Task 2.6.2 Project Management Progress Meetings

CONSULTANT shall conduct monthly project management meetings with OCSD's Project Manager and the CONSULTANT's Project Manager. The purpose of the meetings will be to review CONSULTANT's Progress Report. Meetings should be arranged so that the most recent Progress Report is available for the meeting. Other meetings shall be scheduled on an as-needed basis.

Task 2.6.3 Project Schedule

CONSULTANT shall create a detailed project schedule using a Critical Path Method approved by OCSD Project Manager. The schedule shall be cost loaded and capable of calculating earned value. The schedule shall include milestones for all dates listed in Section III – Project Schedule. The schedule shall be based on the same work breakdown structure used for estimating earned value as described in Progress Reports. Schedule updates shall be submitted with the monthly Progress Report.

At a minimum, the schedule shall indicate the following:

- Projected start date and finish date for each activity
- Each project task and subtask in the WBS with predecessors and successors
- Major meetings and workshops
- Physical percent complete for each activity in the WBS and percent complete by Phase

CONSULTANT shall prepare planned, actual and earned value curves for the Baseline Schedule and for monthly updates. Monthly updates shall also include Cost Performance Index (CPI) and Schedule Performance Index (SPI) calculations.

Task 2.6.4 Project Logs

CONSULTANT shall produce and maintain the following logs through the course of the project:

<u>Project Decision Log</u>. The project decision log shall track decisions made during workshops and meetings, and as a result of OCSD review of deliverables. The log shall include the date of the decision, the title of the meeting where it was made (if applicable), a description of the decision, and a brief summary of the impacts.

Action Item Log. The action item log is used to track action items generated during meetings. Action items may only be assigned to members of the OCSD or CONSULTANT teams. If action is required by a different party, the action item shall be assigned to the person on the team to track who will track the action item with that person. The action item log is not intended to include normal CONSULTANT tasks, nor to include comments on deliverables. The Action Item log shall include a tracking number coded to the date, a date it was created, a description of the action required, the lead person, and the date it was resolved. If action is required by more than one person, the person who will be asked to coordinate that action shall be listed.

<u>Design Issues Log</u>. The Design Issues log shall list general comments and concerns raised by OCSD staff during project meetings. An example of a design issues would be a request raised during Preliminary Design for a particular type of hose bibb to be used during construction. Such detail is not usually provided during Preliminary Design, so the comment would be tracked on the Design Issues Log to be verified prior to completion of the detailed design. This log is not intended to track OCSD comments on submittals. The log shall include a very short description of how the design issue will be addressed. The Design Issues log will be used during review of major submittals to confirm that the issue has been appropriately addressed.

Meeting Log. See Task 2.8 Workshops and Meetings, Workshop and Meeting Planning.

Risk Management Log. See Task 2.7 – Risk Management, Risk Mitigation Measure Log

Task 2.6.5 Progress Reports

CONSULTANT shall submit monthly progress reports at the same time as monthly invoices that include the following contents:

- Work activities completed to date, in the current reporting period, and projected for the coming month.
- A brief description of outstanding issues and their potential for impact on scope, schedule (design and construction), budget (design and construction) and quality.
- Potential changes in the project scope or design scope.
- Budget status including estimates of actual costs to date, earned value, costs to complete, and costs at completion. The budget status over time shall be presented on a graph with associated tabular data indicating for each month the actual costs incurred, earned value, and planned value.

- A discussion of corrective actions to be taken to avoid or mitigate cases where estimated costs at completion exceed budgets.
- Schedule status, including an updated project schedule as a color hardcopy and as a native format electronic file.
- A discussion of corrective actions to be taken to avoid or mitigate cases where the project schedule is expected to be delayed.
- Updated Project Decision Log
- Updated Action Item Log
- Updated Design Issues Log
- Updated Meeting Log
- Updated Risk Management Log
- Summary of the status of CONSULTANT invoices, including identification of invoices not yet submitted and submitted but unpaid invoices.
- Overall project budget and schedule completion in graphical format on the same graph.
 Show actual budget used, original schedule completion, and actual estimated project completion on the graph.
- The approved WBS shall form the basis for reporting the status of each Scope of Work task in the monthly project Progress Report and the project Invoices.

All calculations of earned value and estimates to complete shall be made at the same level of detail as included in the Cost Matrix and Summary submitted with CONSULTANT's proposal. Furthermore, for estimating earned value, tasks shall be further broken down to subtasks as approved by the Project Manager. Progress reports shall include the basis for estimating earned value for each task and subtask.

Task 2.6.6 Project Invoices

CONSULTANT shall prepare and submit monthly invoices to OCSD no later than the first Wednesday of the following month. Invoices shall be submitted for every month that work is being performed, unless OCSD's Project Manager has provided prior approval for combining the work of two months into a single invoice.

The invoices shall document the man-hours and billing rate for each person that works on the project. Overhead, profit and any direct costs shall also be shown for each task. As part of the summary section of the invoice, CONSULTANT shall also include the following information:

- Budget
- Current billing period invoicing

- Previous billing period "total invoiced to date"
- Budget Amount Remaining
- Current billing period "total percent invoiced to date"

Although CONSULTANT is required to track costs at the same level of detail as in the Cost Matrix and Summary for monthly Progress Reports, costs for invoicing shall be grouped into the following work packages.

Work Package	Description	Tasks
3146	Preliminary Design	All Phase 2 tasks, except those listed above.
3158	Environmental Documentation	Task 2.2.1.12
3250	CONSULTANT Services During Design	Tasks 3.6 through 3.10
3251	Design Submittal 1	Tasks 3.1 through 3.4, divided into effort by design submittal. FDS is charged against DS3.
3252	Design Submittal 2	
3253	Design Submittal 3	
3254	Bid Support Services	Task 3.5

Approval of an invoice by OCSD requires a Progress Report for the period covered by the invoice. Payment of an invoice will be delayed until the Progress Report is submitted.

OCSD will provide a sample invoice structure to CONSULTANT at the beginning of the project.

Task 2.6.7 Management of Subconsultants

The CONSULTANT shall be responsible for managing all subconsultants, including the assignment of scope, management of deliverables and schedules, reporting of progress, invoicing, and quality control.

Task 2.6.8 Coordination with Other Projects

The project shall be a complete and fully functional facility that is integrated with existing facilities and coordinated with other construction projects. CONSULTANT shall review reports, plans and specifications to identify potential conflicts with the following adjacent projects.

The following projects may impact or require coordination with this project:

• <u>3-62 Westminster Blvd Force Main Replacement Project.</u> This project established some basis for design of the Seal Beach Pump Station, including peak wet weather

design flow, architectural style, liquid and vapor phase odor control, and establishing that the new SBPS will be built on the existing site, and the existing SBPS will remain in use for the duration of construction.

 <u>J-120 Process Control Systems Upgrades</u>. This future project will upgrade the existing Supervisory Control and Data Acquisition (SCADA) Systems for the treatment plants and pump stations which includes Human Machine Interface (HMI) hardware and software, SCADA servers, historian, and a select number of Programmable Logic Controllers (PLCs).

TASK 2.7 - RISK MANAGEMENT

OCSD staff will develop a project-specific Risk Management Plan (RMP) and update the plan at key points in the project. CONSULTANT shall assist OCSD in managing risks per the tasks described below. The RMP is intended to cover preliminary design phase, design, and construction phase risks.

OCSD staff will prepare and manage the RMP documents. CONSULTANT's responsibilities for preparing the RMP consist of participation in the risk Workshops, maintaining a log of risk mitigation measures, and providing risk updates in monthly progress reports.

Task 2.7.1 Risk Mitigation Measure Log

Following OCSD's completion of the RMP, CONSULTANT shall prepare a log of all the mitigation measures recommended in the plan to be implemented. The log is likely to include measures to be taken during preliminary and final design, as well as during bid phase and construction. The log is not intended to track mitigation measures that would be implemented only if and when a particular risk occurs.

The log shall include the following information for each recommended mitigation measure:

- A brief description of the mitigation measure and the risk it is intended to address.
- A description of who has the lead to implement the measure.
- What components of the project design, specification, plans and other documents would need to incorporate or address the measure.
- The time frame for completing the measure.
- A brief summary of the status of the measure, to be used in on-going updates.

The Risk Mitigation Measure Log will be used for on-going risk management and as a basis of reviewing CONSULTANT submittals.

Task 2.7.2 Risk Monitoring Updates

Prior to monthly Project Management Meetings, CONSULTANT shall review the RMP and update the Risk Mitigation Measure Log. The monthly Progress Report shall include a discussion of the following risk issues:

- Identification of all risks included in the RMP that have occurred since the last monthly report
- Identification of all risks included in the RMP that have been resolved or are no longer a risk
- Identification of new risks that have occurred or been identified since the last progress report.
- An update of the Risk Mitigation Measure Log reflecting the status of each recommended mitigation measure.

The risk discussion in the monthly progress report shall be included in the agenda of the monthly project management progress meeting.

TASK 2.8 – PRELIMINARY DESIGN PHASE WORKSHOPS AND MEETINGS

CONSULTANT shall hold meetings and workshops throughout the project to keep OCSD appraised of the job, review work-in-progress, share information, discuss project submittals, present findings of technical analyses, receive and resolve comments, and obtain decisions and direction by OCSD staff. This task defines the major meetings and workshops to be held by the CONSULTANT in accordance with the requirements of OCSD's Engineering Design Guidelines. CONSULTANT shall also hold additional meetings as required to keep OCSD apprised of the job, to review work-in-progress, and to receive and resolve comments.

When informal meetings or conference calls are held during the course of the project, the CONSULTANT shall document all conclusions reached in those meetings by an email to the OCSD Project Manager and Project Engineer describing the context of the meeting, the discussions, and the conclusions. The email shall be sent within three workdays of the information meeting or conference call. Discussions and decisions made without documentation from an email will not be recognized as having occurred.

Workshop and Meeting Planning

Due to limited OCSD staff availability, some meetings may need to be scheduled up to four weeks in advance to find a time when all the required OCSD team members are available. On projects with many meetings, there is also a potential that a meeting will not be held until it is too late. To prevent this, the CONSULTANT Project Manager shall create and maintain a log of all anticipated meetings. The log shall also be used to track submission, review and finalization of agendas and minutes.

The log shall include, as a minimum, the following information for each meeting:

- <u>Subject of meeting</u>. If the meeting is specifically included in the scope, use that title. Provide enough of a description that no two meetings have the same exact subject description.
- Scheduling Reference. Examples might include "four weeks after Kickoff Meeting",
 "Upon submittal of DM 5", or "one week after receipt of the draft DM."

- <u>Date</u>. If the meeting is too far in the future to schedule, indicate that this date is tentative.
- <u>Date Minutes Drafted</u>. This should be the date that the draft minutes were transmitted to OCSD.
- <u>Date Minutes Reviewed</u>. This should be the date that OCSD transmitted its comments on the minutes or indicated that there were no comments on the minutes.

Workshop and Meeting Agendas

CONSULTANT shall submit an agenda to OCSD for review at least one week prior to each meeting and workshop. The agenda shall include the following:

- <u>Topics</u>: A listing of each topic to be covered with sufficient detail so that OCSD attendees can reasonably determine if their participation is needed or not. A one-line description is not typically sufficient for the purpose. The topic description shall include what information will be presented, and what decisions will be needed.
- <u>Timing</u>: The proposed timing of each topic on the agenda including the projected start and stop time for the subject. The purpose of this item is to allow OCSD staff who cannot attend the entire meeting to attend the portions where they are needed.
- Attendees. The agenda shall include both OCSD and CONSULTANT team members.
 The OCSD Project Manager will add the OCSD staff attendees to the agenda prepared by the CONSULTANT, based on the CONSULTANT's Agenda and the CONSULTANT's recommendation of which OCSD staff members should attend.
- Meeting time and place. The CONSULTANT shall work with the OCSD PM to set the meeting date and time. Most meetings will be held at OCSD offices. The OCSD PM will reserve the conference room.
- A preliminary list of material to be provided at the meeting.

Materials to be used by the meeting attendees to prepare for the meeting shall be sent with the meeting agenda.

The CONSULTANT shall transmit to the OCSD Project Manager the following by the time of the meeting:

- Hard copies of the agenda, one for each attendee
- One sign-in sheet with the names of attendees pre-listed.
- Native electronic files used for the presentation. With the exceptions noted below, hard copies of presentation materials will generally not be required. The OCSD Project Manager will make the electronic files available to the OCSD project team internally.
- Hardcopies of all materials that cannot be easily viewed when projected on a screen. Examples might include design drawings and spreadsheets.

Meeting Minutes

CONSULTANT shall transmit the minutes to the OCSD Project Manager within three business days of the meeting in MS Word format using OCSD's template, or an approved substitution. CONSULTANT shall also update and transmit the Action Item Log, Decision Log, and Design Issues Log with the minutes.

The OCSD Project Manager will distribute the minutes for internal review. If there are no OCSD comments on the minutes, they will be considered final. If there are comments, the OCSD Project Manager incorporate all appropriate OCSD comments on the MS Word file with changes tracked. The updated MS Word file will be transmitted back to CONSULTANT. If CONSULTANT has no comments on the OCSD edits, the minutes will be considered final. If CONSULTANT has further comments on the OCSD edits, those comments should be discussed with the OCSD Project Manager.

Informal Meeting Requirements

Informal meetings such as office meetings shall be recorded as follows:

- CONSULTANT shall notify the OCSD Project Manager/ Project Engineer prior to the meeting.
- CONSULTANT shall prepare minutes for the meeting.
- The minutes shall be submitted to the OCSD Project Manager/Project Engineer.
- After review and modification, the minutes will be filed as a formal record of the meeting.
- Meetings that do not follow this procedure will not be recognized as having occurred

CONSULTANT shall prepare for all telephone and teleconferencing meetings in the same manner as outlined above.

A copy of all comments on project issues obtained by CONSULTANT from OCSD staff without direct OCSD Engineering Project Manager's involvement shall be submitted for the Project Manager's approval within three business days of receipt.

Task 2.8.1 PDR Production Workshops

Task 2.8.1.1 Predesign Kickoff Workshop

A four-hour project kick-off meeting shall be held with OCSD staff to introduce principal members of OCSD and CONSULTANT's teams. The discussion topics shall include: OCSD responsibilities, CONSULTANT's responsibilities, invoice procedures, personnel badges, parking, site access, CONSULTANT's Scope of Work, detailed project schedule with milestones, Work Breakdown Structure requirements, and OCSD confined space and other safety policy training.

CONSULTANT shall also establish contact with OCSD Project Team participating in this project. CONSULTANT shall work in partnership with the Project Team which shall provide the information and input the CONSULTANT shall use to perform the engineering services per the Scope of Work.

Task 2.8.1.2 – Preliminary Design Risk Management Workshop

A Preliminary Design Risk Management Workshop will be held at least 4 weeks prior to submittal of the Draft Preliminary Design Report. The Workshop will be utilized to:

- Identify key project-specific risks
- Characterize the nature of the impact of each risk should it occur
- Characterize how likely the risk is to occur
- Identify potential mitigation strategies that should be implemented or be ready to be implemented to address each risk.

The Workshop shall be planned and scheduled for a duration of four hours and will be held at OCSD offices. CONSULTANT or Moderator shall prepare the agenda, all appropriate presentation materials, and minutes for the Workshop. The minutes shall include sufficient information for OCSD to populate the project risk register to be included in the RMP.

Task 2.8.1.3 PDR Constructability Workshop

A constructability workshop shall be held prior to the submittal of the draft PDR to identify any fatal flaws in the design relative to constructability. Some of the subjects that shall be covered in this workshop include the following: conflicts between design disciplines, geotechnical considerations, construction sequencing, power outages, equipment shutdowns, viability of equipment relocation, safety, operational requirements, access for maintenance, size-critical equipment requirements and constraints, permitting, public nuisance issues, other local conditions and constraints.

This workshop shall be held at OCSD facilities and shall generally be four to six hours in length. OCSD and CONSULTANT staff shall attend this workshop.

CONSULTANT shall be responsible for completing the following tasks relative to the workshop:

- Prepare package for constructability review workshop participants. The package shall consist of detailed plans and specifications and other information selected by CONSULTANT.
- Prepare presentation on the project.
- Summarize the constructability review workshop comments and action taken on each comment in a memorandum.

 All comments and recommendations of the workshop shall be incorporated into Design Memo 13 - Pump Station Construction Phase Implementation, Constructability Issues, Cost and Schedule and the Bid Documents at no additional cost to OCSD.

Task 2.8.1.4 PDR Review Workshops

The following workshops will be held to review the draft Preliminary Design Report

Draft PDR Presentation Workshop

This workshop shall be held immediately following delivery of the Draft PDR. The purpose of the meeting is for the CONSULTANT to describe the various findings in the report, with a particular emphasis on the organization of the PDR, and anything that is new or has changed from earlier submittals and meetings.

The CONSULTANT staff required at this workshop shall include:

- Project Manager
- Project Engineer
- Lead Mechanical Engineer
- Lead Electrical
- I&C Engineer
- Lead Structural Engineer

PDR Validation Workshop

This workshop shall be held after OCSD has transmitted its comments on the Draft PDR and the CONSULTANT has had sufficient time to prepare preliminary responses to each comment. The workshop shall cover all comments where:

- The CONSULTANT needs additional direction.
- The comment was a question requiring an answer.
- The CONSULTANT does not recommend making the revision suggested by the comment.
- The comment would impact the project's or CONSULTANT's scope or schedule.

Following the PDR Validation Workshop, the CONSULTANT shall input their responses to OCSD comments and submit to OCSD.

Task 2.8.2 Preliminary Design Phase Meetings

Task 2.8.2.1 Technical Progress Meetings

Technical Progress Meetings shall be held via conference call every two weeks to review various issues with OCSD's project team. The CONSULTANT shall prepare an agenda and email it along with the updated Action Log and Decision Log prior to each meeting. Assume each meeting shall be 1 hour in duration.

Task 2.8.2.2 Project Management Progress Meetings

Refer to Task 2.6.2.

Task 2.8.2.3 PDR Phase Focused Meetings

Focused meetings shall be held throughout preliminary design to discuss specific issues in detail and generate comments and direction from OCSD staff. For bidding purposes, assume four 2-hour PDR Phase Focused Meetings.

Meeting lengths shall be as required to cover the topic in question. Depending on subject matter and attendees, one meeting may cover multiple subjects. CONSULTANT shall determine how many meetings will be needed to cover these topics. CONSULTANT may suggest additional topics as necessary. Supplementary meetings may be scheduled with OCSD staff, as necessary to allow coordination between CONSULTANT and OCSD staff.

Task 2.8.2.4 Stormwater Compliance Meeting

A formal meeting shall be held with OCSD's stormwater compliance staff to review the project scope and identify all issues during and after construction affecting compliance with stormwater regulatory requirements and OCSD's policies and practices. Assume one 1-hour meeting.

Task 2.8.2.5 Project Coordination Meeting

A formal meeting shall be held with OCSD's project teams associated with projects 3-62, 3-64 and J-120, to review and identify all issues in which the other projects may impact how this one is designed. Assume one 4-hour meeting.

Task 2.8.2.6 Permit Agency Coordination Meetings

Meetings shall be held with OCSD's project team and various permitting agencies on an asneeded basis. Assume four meetings at one hour each.

TASK 2.9 - QUALITY CONTROL

Quality control activities during Design should be budgeted for and charged to the Phase 3 quality control budget.

Submittals that contain gross deficiencies or errors requiring a significant amount of OCSD staff time for checking will be returned without review until OCSD is satisfied that a thorough

CONSULTANT's review, checking and correction for coherence, consistency, spelling, etc. has been performed.

Quality Control Requirements

The CONSULTANT shall develop a Quality Assurance/Quality Control (QA/QC) Plan for implementation of the Scope of Work. The CONSULTANT'S QA/QC Plan shall be reviewed and approved by OCSD Project Manager and shall include or reference all the controls necessary for implementation. As a minimum, the QA/QC Plan shall include the following:

- 1. Purpose and objective
- 2. QA/QC Team Roles and Responsibilities
- 3. Independent Quality Control (IQC) Team Roles and Responsibilities
- 4. The In-house Quality Process
- 5. QC coordination with QCSD
- 6. Technical Memo QC process
- 7. Design submittal QC process
- 8. Final design documents QC process

QA/QC documentation shall include, but not be limited to, the following:

- 1. Design Guidelines
- 2. Calculation Log
- 3. IQC Comments
- 4. Discipline Drawing IQC Checklists
- 5. QC Validation Forms

On a periodic basis, OCSD will conduct an audit of CONSULTANT's work to ensure conformance with the QA/QC Plan. OCSD shall notify CONSULTANT when these audits will occur. CONSULTANT shall respond to any OCSD comments made during the audit within two weeks. If comments are extensive, OCSD may schedule a follow-up audit after the comments are received.

Acceptance of CONSULTANT professional services shall be based on the result of audits conducted on the elements of the approved QA/QC Plan and the incorporation or resolution of comments resulting from these audits. Major elements of the QA/QC Plan shall include the following:

- CONSULTANT shall be responsible for the technical adequacy and quality control of his or her work.
- CONSULTANT controls shall assure that planning and design inputs are correctly translated into planning and design documents such as drawings, procedures, specifications, reports, and calculations.
- CONSULTANT shall be responsible for the physical control, security, and distribution of controlled documents required for performance of the Scope of Work.
- CONSULTANT's planning and design activities shall be controlled through the review workshop process, including discipline checks, inter-discipline cross-checks, and multidiscipline review workshops by an Independent Project Review Team.

TASK 2.10 - COMMUNITY OUTREACH

CONSULTANT shall support OCSD staff during preliminary design utility research (potholing, geophysical investigations and surveying). Assist with providing graphics, tables and PowerPoint slides for Community Outreach efforts.

PHASE 3 - DESIGN

All changes in OCSD's Engineering Standards, OCSD's Design Guidelines, and/or changes in design concepts and facility layouts as a result of OCSD comments that may occur up to transmittal of OCSD comments on Design Submittal 1, shall be incorporated into the Design by CONSULTANT with no increase in CONSULTANT's not-to-exceed upper limit on fees. Current OCSD Design Standards can be found through the following link: http://www.ocsd.com/about-us/engineeringstandards

TASK 3.1 - BID DOCUMENTS

CONSULTANT shall provide engineering services to prepare biddable plans, technical specifications, and other Bid Documents as required based on the design concepts and criteria developed during Phase 2 - Preliminary Design. In this Scope of Work, construction documents include specifications; drawings; cable, conduit and cable tray schedules; commissioning plan materials; equipment and instrumentation databases (EIDs); SCADA access tables (SATs); and bypassing plans

Task 3.1.1 Specifications

Task 3.1.1.1 Contract Agreement, General Conditions and Special Provisions

CONSULTANT shall review OCSD's standard Contract Agreement, General Conditions, and Special Provisions, and General Contractor warranty requirements. The CONSULTANT shall prepare the initial draft of the Bid Submittal Forms – Attachment A Schedule of Prices, and the Special Provisions, Appendix A Work Completion schedule including the definition of contract milestones, the number of calendar days to be allowed for each, and a recommended amount of liquidated damage for not meeting the schedule requirements.

CONSULTANT shall identify all proposed changes or additions to OCSD's standard warranty requirements. Any proposed changes and additional warranties will be allowed only upon review and acceptance by OCSD.

Task 3.1.1.2 General Requirements and Additional General Requirements

OCSD will prepare the General Requirements (GRs) for the project, which will be updated by OCSD throughout the project. The CONSULTANT shall prepare the Additional GRs which take the form of Division 01 technical specifications. CONSULTANT shall be responsible for preparing the Additional GRs and all other technical specifications so that they are consistent with the GRs provided by OCSD.

In addition, CONSULTANT shall review OCSD's standard GRs and propose revisions via Additional GRs. OCSD's standard Contract Agreement sets the order of precedence in which plans and specifications in Divisions 01 through 17 supersede the GRs. Where minor changes to and deletions of certain GRs are warranted due to particular needs of the project, CONSULTANT may propose specific revisions to the GRs, subject to acceptance by OCSD's Engineering and Construction Division Manager.

Specific requirements in OCSD's GRs shall not be duplicated in Additional GRs Specifications. Only deviations from the GRs and project-specific requirements not addressed in OCSD's standard GRs shall be included in Additional GRs.

Additional GRs Specifications shall be developed by the CONSULTANT for specific project requirements and the numbering convention shall be per OCSD's template project Table of Contents. The following are the minimum Additional GRs topics required for this project:

- Summary of the Work
- Work Restrictions
- Environmental Restrictions and Controls
- Sequence of the Work
- Permits
- Measurement and Payment
- Seismic Design Criteria (for those restraints, supports, etc. to be design by the Contractor)
- Temporary Facilities
- Site Access
- Mobilization/Demobilization
- Construction photographs and videos

- Equipment Shipping, Storage, and Handling
- Hazardous Materials Mitigation and Mold Removal

Task 3.1.1.3 Technical Specifications

CONSULTANT shall be responsible for contents of all technical specifications (Divisions 01 through 17), including edited OCSD Master technical specifications. OCSD's master technical specifications shall be reviewed in detail, and changes, deletions and additions required by the project shall be provided by CONSULTANT. CONSULTANT shall be responsible for developing specifications required by the project that are not found in OCSD's Master Specifications.

Refer to the "Procurement Alternatives" portion of this Scope of Work regarding sole-source specification requirements.

Task 3.1.2 Drawings

The CONSULTANT shall prepare construction drawings per OCSD Design Standards including CAD Manual, Design Guidelines, Master Specifications, and Tagging Procedures.

Task 3.1.3 Building Information Model (BIM)

CONSULTANT shall provide survey and CADD services as required to provide three-dimensional (3D) building information model (LOD 300) for the drywell that is below ground and the room directly above the drywell, valve vault if external to the drywell, wetwell, and electrical room and other areas that are congested with conduits, ductwork and pipes, and other obstructions. In these areas show all equipment and systems that have a diameter or minimum cross-sectional dimension of one inch or larger including the mechanical, electrical, lighting, HVAC, conduits and cable trays, instrumentation, piping, and fire alarm equipment along with other systems. Show all systems to scale. Three dimensional demonstrations shall be performed at Workshops. Demonstrations will be for maintenance personnel to display that all equipment is accessible, operable, serviceable and removable.

Task 3.1.4 Commissioning Plan Materials

The CONSULTANT shall edit OCSD's commissioning specification (Master Specification section 01810) and prepare the following material to be included in the Bid Documents:

- Operational Readiness Testing (ORT) procedures using OCSD's Commissioning Procedures Tool (CPT)
- Functional Acceptance Testing (FAT) procedures testing Remote and local automatic operation
- Reliability Acceptance Testing (RAT) procedures

The CONSULTANT shall also estimate in detail the durations required for pre-commissioning and commissioning activities.

Task 3.1.4.1 ORT Procedures

ORT forms are required for every piece of equipment and instrument to be provided on the project to test Local and Remote Manual operation. OCSD has developed an automated process to generate ORT procedures using a Commissioning Procedures Tool (CPT). CPT uses three different documents SAT, Commissioning Design Spreadsheet (CDS) and OCSD Equipment ORT Templates to produce the ORT procedures. The CDS is an Excel spreadsheet listing all major equipment and their associated I/O signals, instruments and ORT templates. During the one-hour training session on the use of SAT which will be provided by OCSD, OCSD will also train on the use of CDS. **Exhibit 09** includes examples of a final ORT procedure, final CDS and a list of OCSD Equipment ORT Templates.

The CONSULTANT shall complete the SAT and CDS. The finalized documents will be used by OCSD to generate the ORTs need in FDS. If there is no OCSD Equipment ORT Template for a unique piece of equipment or instrument, a unique ORT procedure shall be developed by the CONSULTANT. The unique ORT form shall include the step-by-step procedures for completing the testing and including indication of what the result of each test should be. These shall include electrical, communication, security, mechanical, HVAC, Fire Protection, network, and process equipment testing.

Task 3.1.4.2 FAT Procedures

The CONSULTANT shall develop detailed FAT procedures to be conducted during commissioning. Development of FAT procedures may require the use of temporary equipment and / or piping. The design of such facilities shall be prepared by the CONSULTANT and included in the construction drawings and specifications (as P&ID mark-ups, flowing conditions) identified per commissioning package.

FAT procedures shall be developed for each system impacted by the project to test Remote and local automatic operation. FAT testing shall be broken into separate procedures based on the configuration of the system as commissioning packages.

The breakdown and grouping of FAT procedures shall be planned so that all aspects of a single system can be tested,

- Each step-in procedure shall include required results and sign-off areas.
- Procedures shall include breakdown into systems and sub-systems.
- Include setup requirements for each procedure including valve/gate positions.
- Include text description of each test and check-off forms developed for each test.
- Include description of clean water testing requirements.
- Include temporary equipment required for testing (generators, bypass pumping, pipes, valves, etc.)
- Include temporary chemicals required for testing.

- Include description of where and how the Contractor is to obtain and discharge clean water.
- Include failure mode testing.
- Systems and sub-systems shall include electrical, air, plant water, plumbing, drains, telephone, intrusion, fire alarm, CCTV, lighting, etc.
- Include minimum time required for each test.

A sample FAT procedure has been included in **Exhibit 10**.

Specific tag numbers, process values, and ranges, and expected numeric outcomes shall be included in the FAT procedures. Each step in the procedures shall include required results, actual results and sign-off areas.

Task 3.1.4.3 RAT Procedure Specification

The RAT procedures shall include Contractor requirements for supporting the RAT. Procedures shall include all possible operating modes. Procedure shall include failure mode testing and fail-over testing. Each step-in procedure shall include required results, actual results, and sign-off areas. Include text description of each test. Include temporary equipment required for testing (generators, bypass pumping, pipes, valves, etc.). Include temporary chemicals required for testing and specify which party (OCSD or Contractor) will provide any chemicals that might be required.

A sample RAT procedure has been included in **Exhibit 11**.

Task 3.1.5 Equipment and Instrumentation Databases (EIDs)

OCSD will provide a truncated copy of the EID database for CONSULTANT to begin populating by completing the CONSULTANT-furnished fields for each device. The database shall identify all new equipment and instruments and all existing equipment and instruments to be deleted and/or modified under this project. CONSULTANT shall submit the EID database for the project with information that is typically included in equipment data sheets. (see Engineering Design Guidelines, Appendix A for Equipment and Instrument Database (EID) requirements.

Task 3.1.6 SCADA Access Tables (SAT)

OCSD uses SAT files to list all analog and discrete monitoring points on the project, filed by PLC. When existing PLCs are to be modified on a project, the CONSULTANT shall modify a copy of the database provided by OCSD to reflect the new equipment and demolition of existing facilities. (see Engineering Design Guidelines, Appendix A, Section A.3.14 "SCADA Administration Tool (SAT)" for requirements). A one-hour training session on the use of SAT will be provided by OCSD.

TASK 3.2 - DESIGN SUPPORT DOCUMENTATION

Task 3.2.1 Design Information

CONSULTANT shall include the following material with each Design Submittal:

- CONSULTANT shall maintain the Project Logs specified under Phase 2 Project Management through Phase 3 as well. Current copies of all logs shall be included with each Design Submittal.
- Written response log to OCSD comments on the previous submittal.
- CEQA and Regulatory Compliance Matrix. This matrix shall list each applicable CEQA
 mitigation requirement and all known permit requirements with the corresponding
 description of how each requirement is to be satisfied. Measures to satisfy
 requirements might be in the GRs, Additional GRs, particular specification
 requirements, or actions taken separately from the construction contract.
- Calculations
- Draft or final Geotechnical Reports not submitted in the previous submittal and those revised since the previous submittal.
- Proposed list of suppliers to be named in the specifications for major equipment
- Draft or final Fire Protection Reports not submitted in the previous submittal and those revised since the previous submittal.
- Draft or final Field Findings Reports not submitted in the previous submittal and those revised since the previous submittal.
- Equipment data sheets
- Instrument data sheets
- Equipment catalog cuts and vendor quotations.
- All memos that may be been prepared since the previous submittal was delivered.
- The CONSULTANT shall develop language in the Division 11 Technical Specifications
 that requires the pump manufacturers to utilize computerize analysis to validate that
 their proposed pumps operate within an acceptable harmonic frequency range, prior to
 fabrication.

Task 3.2.2 Facility Operation and Maintenance

The CONSULTANT shall update operating philosophies as the design progresses. Operating philosophies are anticipated to be utilized for the electronic Operations and Maintenance Manuals to be prepared during construction. See Engineering Design Guidelines, Appendix A, Section A.3.7 "Operating Philosophy" for requirements.

The CONSULTANT shall update estimates of Operations and Maintenance staffing requirements per Engineering Design Guidelines, Appendix A, Section A.3.11 "Asset Management Plan."

The CONSULTANT shall prepare sketches of the proposed graphic screens for each process area. OCSD will develop the SCADA screens from these sketches at a later date.

Task 3.2.3 Electrical Design Documentation

CONSULTANT shall provide the following electrical design information:

- OCSD will update the calculations for the short circuit analysis, load flow/voltage drop study, motor starting study, preliminary settings for the protection device and coordination study, and preliminary arc flash analysis and approach recommendations. The CONSULTANT shall provide OCSD with any revisions to the SCE incoming shortcircuit information, single line diagram, circuit breaker ratings, and cable sizes and lengths.
- Updated Load List for all equipment.
- For all motor control centers and switchgear include documentation from at least three suppliers clearly showing each manufacturer's space requirements for their equipment. The purpose of this requirement is to confirm that sufficient space has been provided in electrical rooms for the largest equipment that might be supplied. If the largest equipment cannot be accommodated in the available space, CONSULTANT shall specify space restrictions in the technical specifications, provided the space restriction does not unduly limit the number of suppliers who can supply the required equipment.
- Lighting calculations.
- Standby generator sizing calculations.
- Duct bank cable pulling tension, derating and cable tray fill calculations.
- Plans that show electrical, electronic, alarm, and telephone conduit and cables that
 pass through an existing area to be demolished but serve facilities which remain in
 service after the project is completed.

Task 3.2.4 Instrumentation and Controls

The Process and Instrumentation Diagrams (P&IDs) are to act as a "master document" in that the P&ID is assumed to be correct and all other documents are synchronized to them. (see **Exhibit 01** - Engineering Design Guidelines, Appendix A, Section A.2.18 "Process and Instrumentation Diagrams (P&IDs)" for requirements). Example P&IDs are presented in **Exhibit 12** of this Scope of Work.

Process control strategies shall be written and revised to match the latest P&IDs. An example Control Strategy is provided in **Exhibit 13**. Control strategies/operating levels shall be determined for standard PLC control, and for occasions when PLC control is lost.

Datasheets for major instruments, final control elements & safety critical instrumentation shall be provided. Typical datasheets with tables for all other instrumentation shall be included with the associated instrument specifications.

Task 3.2.5 Construction Cost Estimates

CONSULTANT shall provide Construction Cost Estimates with each Design Submittal starting with Design Submittal 2 per OCSD's Engineering Design Guidelines, Chapter 01, Section 01.4.6 "Construction Cost Estimate."

Task 3.2.6 Construction Schedule

The CONSULTANT shall provide a Preliminary Construction Schedule in Gantt chart format using scheduling software such as Primavera Project Planner (P3) or Microsoft Project.

For DS1, the construction schedule prepared for the Preliminary Design Report may be updated based on changes since the PDR, but at the same level of detail.

For DS2 and later submittals, more information shall be included in the schedule. The goal is to develop a realistic schedule based on project information, not a "rule of thumb". The construction schedule shall be based on the commissioning documents prepared for the project as well. CONSULTANT shall engage the services of a least one construction individual to review the quantity takeoffs from CONSULTANT staff and use this information to assist in the development of the detailed construction schedule. CONSULTANT may use their own staff if they are qualified or hire a Subconsultant to assist in this activity.

Task 3.2.7 Procurement Alternatives

Specifications shall comply with state law concerning limiting product sources for all equipment and material to be procured for construction of this project. Unless indicated otherwise in the Engineering Design Guidelines or in OCSD's Master Specifications, the Project Specifications shall not be written in a manner that limits a Contractor to a sole source. This shall mean that, unless indicated otherwise in the Engineering Design Guidelines, in OCSD's Master Specifications or in Section V of this Scope of Work "Project-Specific Deviations...", CONSULTANT shall specify for each product "EITHER" no specific manufacturer "OR" at least two supplier's products and an "or equal". CONSULTANT shall provide recommendations regarding the items that should be base bid (e.g., selected pieces of equipment and materials).

When a single manufacturer is known and there is no known "equal", it shall be so stated in the design documents.

OCSD may elect to obtain equipment from a sole-source supplier. CONSULTANT shall develop a scope of supply for the sole-source equipment and obtain a not-to-exceed price from the equipment supplier. This information shall be included in the Bid Documents.

Equipment that may be needed to be obtained from a sole source supplier for this project includes:

Pumps

- Access card readers
- Cyber key lock systems
- Composite manhole lids
- Wet well and manhole liner
- Cisco networking equipment
- Programmable logic controllers (PLCs)
- Power monitoring equipment
- Network routers

OCSD may elect to pre-quality key equipment which is essential to the project. CONSULTANT shall delineate any products that need to be pre-qualified or pre-purchased and provide the following services to assist with the pre-qualification process:

- Research and prepare a list of known suppliers.
- Prepare a Request for Qualifications to be mailed by OCSD to all known suppliers.
- Evaluate qualifications received by OCSD for conformance with project specifications.
- Advise OCSD of suppliers who meet the qualifications.
- Assist OCSD staff in preparing materials to be presented to OCSD Board of Directors.
- Prepare a draft letter to be sent by OCSD to advise all suppliers of their qualification status.
- Assist the OCSD with response to protests by equipment vendors in the form of providing project documentation and responding to OCSD's questions.

Task 3.2.8 Final Design Report

A Final Design Report shall be added as an addendum to the PDR, addressing significant changes made during Phase 3 Final Design from that which was proposed in the finalized PDR. This Final Design Report shall include all final calculations, an updated Executive Summary and Transmittal letter.

TASK 3.3 - SPECIALTY SERVICES

Specialty services shall be provided by the CONSULTANT or an appropriately qualified subconsultant. In any case, the CONSULTANT shall be responsible for managing all subconsultants, including reviewing their work products prior to submission to OCSD.

Task 3.3.1 Topographic Survey Services

The CONSULTANT shall prepare topographical survey for the work required during the beginning of the preliminary design phase. Limits of the survey shall include at least Westside Pump Station property, 120-foot wide swatch extending along the gravity sewer and force main alignment from Westside PS to Seal Beach PS, where it crosses Old Ranch Parkway, private property, and CA-22/405, the entire ROW of North Gate Road and Seal Beach Blvd to the south edge of Westminster Blvd, Seal Beach PS property and eastward 50-feet into the Naval Weapons Station property and along Westminster Blvd, and 50-feet north of Seal Beach PS property into the Naval Weapons Station property.

CONSULTANT shall conduct field and aerial surveys as required. Topographic information used on the construction plans shall be generated from a field survey and an aerial mapping process. OCSD will not provide the aerial survey information to the CONSULTANT for use on the project.

Prior to beginning design, CONSULTANT shall prepare the scope of work for field and aerial surveys required for all applicable project elements. OCSD will establish both vertical and horizontal control for the project. The field survey shall be used to establish both horizontal and vertical alignment of the facilities and shall note all survey monuments, topographic features, property lines, and elevations. The basis of bearings and benchmarks shall be indicated on the drawings. Control shall meet or exceed NGVD 88 requirements and shall be based on the Plant Local Coordinate System and datum. CONSULTANT's project schedule shall account for the above.

The aerial topography shall be required to meet the following criteria:

- The final product shall be delivered in AutoCAD.
- The CAD file shall adhere to the CAD Manual. OCSD shall be given the opportunity to review and comment on the compliance to the CAD Manual.
- Site contours shall be in 0.5-foot intervals.
- Contour and spot elevations shall be 3D; all other features shall be 2D.

CONSULTANT shall include the survey-related documents with the Design Support Documentation portion of the Design Submittals as specified in the Engineering Design Guidelines, Appendix A, Section A.3.19 "Project Support Documentation (PSD)".

Control Surveys for Collection Systems

General: Topographical information used on the construction plans shall be generated from an aerial mapping process. CONSULTANT shall provide for the aerial and field surveys necessary for the mapping process for all applicable Project Elements of the project Scope of Work and shall provide for the aerial mapping. Providing for the process includes paying for, coordinating and designing the aerial and horizontal/vertical control surveying for the preliminary and final design. CONSULTANT's responsibilities for the surveys include generating any subconsultant scopes of work, data interpretation and preliminary design. All

survey work is to be done under the direction and control of a Professional Land Surveyor, licensed by the State of California.

<u>Aerial Survey</u>: The aerial photography shall have sufficient coverage for the digital topographic mapping. The photo scale of the aerial photography shall not be more than 100 feet per inch for pipeline work or 20-feet per inch for pump stations. Stereo pairs of photographs shall be furnished to OCSD. <u>However, due to probable restrictions, which will be imposed by the US Navy facility, photo scales maybe adjusted accordingly.</u>

<u>Phasing of Work</u>: Other than the aerial and topographic survey work, the balance of the survey work shall not commence until the design phase of the project has been authorized or concurred to by OCSD.

<u>Field Survey Aerial</u>: A field survey shall be used to establish both horizontal and vertical control for the project. Control shall meet or exceed NGVD 88 requirements and shall be based on California State Plan Coordinates (NAD 83) including the 1995 O.C. surveyor's adjustments. A sufficient number of points shall be used to accurately complete the digital topographic modeling. No less than five control points per stereo model shall be used.

<u>Aerial Field Survey Inclusions</u>: The field survey shall include all survey monuments, topographic features, easements, property lines, city boundaries, culture, and elevations on the plan and profile sheets. All covers, including the existing sewer manholes, storm drain manholes, and utility and valve vaults shall be identified and marked in the field.

OCSD Review Aerial Survey Line: The general location and alignment of the survey line shall be submitted to OCSD prior to performing the field survey. Survey work shall not commence until authorized or concurred to by OCSD. CONSULTANT shall be responsible for obtaining and paying for the field survey services.

<u>Field Survey Base Line</u>: The field survey shall establish a base line for construction purposes for pipeline work equal to or greater than 500-feet in length. The line will be used to define the proposed design, in terms of station and offset, and to establish the bearings for right-of-way. The survey line shall be set on 100-foot stations and shall be tied to the established aerial control. The field survey shall tie in all controlling monuments within the map limits and all street centerline intersections. The ties shall be express in both State Plane Coordinates and as station and offset.

<u>Manhole Information</u>: The field survey shall also include the measurement of the invert and manhole rim elevations of all existing sewers within the project reach. The size, orientation and invert of any pipe connections shall also be recorded.

<u>Base Map</u>: The base map index contours shall be spaced at five feet (5') vertically and the immediate contours shall be spaced at one-foot (1') contour intervals. The mapping shall include digital topographic mapping. The digital format shall be compatible with OCSD Graphic Information System. All surface features, including those hidden from aerial view shall be incorporated into the digital mapping.

<u>Plan and Profile Sheets</u>: CONSULTANT shall prepare plan and profile sheets based upon the aerial mapping. The scale for plan and profile sheets shall be one-inch equals forty feet (1" = 40') horizontal and one-inch equals four feet (1" = 4') vertical. An aerial photographic (photo

strip) with the alignment shall be included. The plan view shall be separate from the photo strip. Intersections shall be adequately detailed at a scale of one-inch equals ten feet (1" = 10") or one-inch equals twenty feet (1" = 20"). Manholes and other details shall be drawn at a scale that is adequate to provide clarity and sufficient detail for construction. The pump station construction drawings shall be drafted at scales of 1/8" = 1" to 1" = 20", as adequate, to allow for sufficient detail to be shown. The basis of bearings and benchmarks shall be indicated on the drawings,

<u>Survey Note Submittal</u>: CONSULTANT shall submit two bound copies of all survey notes and data used to establish vertical and horizontal control. The information submitted shall be suitable for use to establish construction controls. If additional property and/or right-of-way are required, CONSULTANT shall identify property and/or rights-of-way to be acquired. CONSULTANT shall prepare legal descriptions and plats for easements and property to be acquired during the final design phase of the project.

Task 3.3.2 Fire Protection Services

CONSULTANT shall secure the services of a Subconsultant to determine the fire protection requirements, prepare final plans and specifications for the selected plan and assist OCSD in obtaining approval from the fire authority.

Task 3.3.3 Utility Survey and Coordination Services

CONSULTANT shall determine all utilities impacted by the work for all applicable Project Elements of this Scope of Work. Utilities include all utility company-owned, and public agency-owned piping, duct banks, and other interferences. All utilities encountered during the preliminary design shall be shown on the plans. Project work that requires other agencies to relocate existing utilities shall be coordinated during the design by CONSULTANT. The CONSULTANT shall prepare all easement documents including field investigations. Field investigations include visiting the project work site and each utility to verify the location of all interferences.

CONSULTANT shall secure the services of a licensed survey subcontractor to field locate potholes as necessary. Survey locations of potholes shall be tied to the sample controls as used for the Control Survey.

CONSULTANT shall also secure the services of a subcontractor to perform the pothole work. CONSULTANT shall be responsible for identifying locations where potholing will be critical to the design effort to identify the location of existing piping, duct banks, and foul air ducts. The results of potholing efforts will be summarized in a field finding report. "Soft" excavation methods (vacuum extraction or sift drilling) will be used where feasible.

An allowance shall be included in the proposal for this effort including number of borings and unit price per boring as follows:

- 1. An allowance shall be included in the proposal for potholing including number of potholes and unit price per pothole.
- 2. An allowance shall be included in the proposal for geophysical investigation including total square feet and unit price per square foot.

Task 3.3.4 Landscape Architecture

CONSULTANT shall secure the services of a Subconsultant to determine landscaping requirements, develop three landscape alternatives for review by OCSD staff and prepare final plans and specifications for the selected alternative.

Task 3.3.5 Noise Evaluation Services

CONSULTANT shall secure the services of a Subconsultant to prepare a field finding Noise Report. This report shall include the following:

- Visit site and conduct ambient noise measurements to establish baseline.
- Identify external sources of noise.
- Identify potential methods for defining noise impacts.
- Develop noise model consistent with noise impact assessment methods.
- Determine exterior noise levels and compliance with assessment standards.
- If required, develop mitigation measures to meet design standards.
- Determine compliance with OSHA's regulations.
- If needed, determine mitigation measures to meet OSHA's requirements.
- Prepare written report on findings and recommendations.

Task 3.3.6 Traffic Control Services

CONSULTANT shall secure the services of a Traffic Control Subconsultant to determine traffic control requirements and prepare plans and specifications for all investigative and construction activities performed within or adjacent to the public ROW. This includes the preparation of Traffic Control Plans for activities such as potholing, surveying (manhole dipping and field survey), geotechnical and geophysical activities. Additionally, the Traffic Control Subconsultant shall attend City, Navy, and OCSD Submittal review meetings as needed.

Task 3.3.7 Additional Shoring Design

CONSULTANT shall provide a detailed prescriptive shoring design for the pump station and related facilities. The detailed design although prescriptive shall have flexibility to allow the CONTRACTOR to exercise their means and methods, subject to the approval of the Engineer. The design as a minimum will include the following:

- <u>Develop drawings to be included in the contract documents that illustrate a constructible shoring system (perimeter shoring wall, bottom plug and internal bracing).</u>
- Shoring plans, which are developed for a specific sequence of structure and piping construction. This sequence would be spelled out clearly on the contract documents.

- CONTRACTOR will be required to submit shop drawings with engineering seal providing full details of the perimeter shoring wall construction, bottom plug construction (including tie-down anchors if used), and for bracing fabrication and installation. The submittal shall be in compliance with the limitations shown in the design drawings and subject to the approval of the Engineer.
- <u>CONTRACTOR will be able to submit proven alternate means to achieve an equivalent result.</u> As follows:
 - Although Contract Documents could be prepared for a "soil mix" perimeter wall, the CONTRACTOR will be allowed the choice of using either DSM or CSM as a methodology.
 - The design will also leave the option open for the CONTRACTOR to use secant piles or a slurry wall provided that the alternative wall is deemed equivalent to the soil-mix wall in terms of strength and water tightness.
 - Bottom plug shown on the Contract Documents could be shown generically as "soil-cement" with the CONTRACTOR given the option of using DSM or jet grouting to form the soil-cement plug, provided the prescriptive parameters are satisfactorily addressed.
 - <u>Tiedown anchor lengths for bond capacity would be left as a contractor-design</u> <u>item (subject to a minimum that the CONSULTANT has specified in the Contract</u> Documents).
 - o <u>Bracing sizes and layout for the specified construction sequence will be</u> prescriptive.
 - CONTRACTOR would be permitted to submit an alternative construction sequence together with modifications to the shoring plans that are required based on their alternate sequence.
 - CONTRACTOR would be permitted to submit a complete alternate shoring design subject to a set of specified performance requirements and limitations on certain means and methods, without additional cost to the DISTRICT and in full compliance with the detailed design parameters shown in the Contract <u>Documents.</u>
- Specifications for perimeter shoring wall and bottom plug will still have "performance" components such as maximum water infiltration rates through the walls and plug and minimum strengths of the wall and plug materials.

Task 3.3.8 Groundwater Monitoring Design

CONSULTANT shall design a comprehensive groundwater monitoring program in the vicinity of the project site that will be required to confirm that the pump station and deep sewer

construction is not impacting the piezometric levels in the various aquifers that underlie the site. The design all install piezometers at multiple elevations to make sure any response is captured in near real time. In addition, the design shall include inclinometers (to monitor lateral ground movement with depth) and ground surface, structure, and utility survey points, which will be parts of the monitoring program for this project.

TASK 3.4 - DESIGN SUBMITTALS

Design Submittals shall be submitted for OCSD review as indicated in the Section III - Project Schedule. The contents of each submittal shall be as described in **Exhibit 01**.

CONSULTANT is expected to **continue design** work on the project while OCSD staff reviews Design Submittal 1 and Design Submittal 2. For Design Submittal 3, CONSULTANT shall stop all design work until receipt of OCSD comments on that submittal.

Design Submittals shall be delivered in hard copy, PDF format (see section "Submittal Review using Bluebeam" in Part V General Requirements), and native files. The number of hard copies is indicated in **Exhibit 04**. The following requirements apply to the labeling and organization of the PDF and native:

- Specifications shall be compiled into a single PDF file. When the specification exceeds approximately 700 pages, the specifications shall be broken into separate volumes.
 Divisions 16 and 17 should be kept in the same volume.
- Drawings shall be submitted as a single compiled file with size limitations defined in Exhibit 17. If file size exceeds the defined limits, separate files by discipline. If the file for one discipline is more than the file size limits, the file may be divided into multiple files.
- In no case may drawings be submitted as separate PDF files for each drawing. The
 order of drawings in the PDF file shall match the list of drawings. Bluebeam Revu
 provides a mechanism for reducing the size of some PDFs. This tool works by
 compressing bitmap images and removing non-visible document data. It does not affect
 vector content (see section "Submittal Review using Bluebeam" in Part V General
 Requirements).
- The PDF files shall be named per **Exhibit 17**.
- These requirements do not affect the organization, naming, and submittal of native files for CAD or MS Office files specified elsewhere in this Scope of Work and OCSD Design Standards.
- These requirements do not affect the organization, naming, and submittal of native files for CAD or MS Office files specified elsewhere in this Scope of Work and OCSD Design Standards.
- All native Word files used for specifications shall be submitted, combined into a single folder with the number of the specification section in the file name so that the files are

listed in the same order they would appear in a hard copy print. Attachments to specification sections should be named so that they also fall in the correct order on the file list.

- Specification sections based on OCSD master specifications shall be edited using tracked changes so changes made to the OCSD master can be readily viewed. For more information see OCSD Engineering Design Guidelines, Chapter 01, paragraph "Master Specifications."
- Native CAD files shall be submitted per the OCSD CAD Standards Manual.

The OCSD Project Manager may request that CONSULTANT submit an electronic proof set of the Draft PDR and Final PDR prior to hard copy production in order to initially confirm that the submittal is ready for printing.

The Design Submittals shall be organized per the following structure. CONSULTANT may propose an alternative organization of the submittal for approval by the OCSD Project Manager.

Volume 1 - Submittal Documentation

Memo to Reviewers

Responses to Comments on Previous Submittal

Design Information

Facility Operations and Maintenance

Electrical Design Documentation

Instrumentation and Control Documentation

Construction Cost Estimate

Construction Schedule

Procurement Alternatives

CEQA & Regulatory Compliance Matrix

Volume 2 - Specifications

Volume 3 - Drawings

Volume 4 - Project Support Documentation

Geotechnical Report

Noise Report

Fire Protection Report

Hazardous Materials Survey Report

Topographic Survey Data

Design Period Memos as needed to document specific design issues and their resolutions.

Calculations

Equipment Selection (organized by Specification Section)

Equipment Data Sheets

Catalog Cuts

Final - October 2019

Vendor Quotes

Volume 5 - Electronic Files and Databases

The Memo to Reviewers included at the beginning of Volume 1 shall describe how the submittal is organized, include a table of contents, and list any significant changes that have

been made to the design since the last submittal, or the last time a particular issue was discussed

TASK 3.5 - BID SUPPORT SERVICES

Task 3.5.1 Bid Phase Activities

CONSULTANT shall provide the following bid period services:

- Participate in the pre-bid meeting.
- Prepare project drawing set and project specification addenda to provide clarification and resolve errors and omissions identified prior to bid opening.

Task 3.5.2 Bid Evaluation Assistance

- Participate in reviewing alternate equipment proposals from the Contractor, if applicable.
- Participate in the evaluation of the submitted bids, furnish consultation and advice to OCSD staff and assist with all the related equipment, cost, and other analyses as required to finalize the award decision.

Task 3.5.3 Conformed Document Preparation

Within two weeks of the bid date, prepare conformed documents set (drawings, databases, specifications and other required materials) that incorporates the addenda. See Engineering Design Guidelines, Chapter 01, Design Guidelines – General Requirements, Section 01.4 "Preparation of Project Deliverables" for requirements as modified in Section V of this Scope of Work, "Project-Specific Deviations from OCSD Design Guidelines" and the requirements of the CAD Manual).

TASK 3.6 - PROJECT MANAGEMENT

CONSULTANT Project Management responsibilities during Phase 3 - Design shall be as specified for Phase 2 – Preliminary Design.

TASK 3.7 - RISK MANAGEMENT ASSISTANCE

The CONSULTANT's responsibilities for risk management assistance during Phase 3 - Design shall be as specified for Phase 2 – Preliminary Design. Specific Phase 3 risk management tasks shall include the following.

Task 3.7.1 Risk Management Plan

Maintaining the Risk Management Plan and providing risk updates in monthly progress reports are required for Phase 2 shall be continued through submission of the Final Design Submittal.

TASK 3.8 - WORKSHOPS AND MEETINGS

The requirements specified in Task 2.8 – Workshops and Meetings specified for Phase 2 – Preliminary Design related to Workshop and Meeting Planning and Workshop and Meeting Agendas shall also apply for Phase 3 - Design.

Task 3.8.1 Design Phase Workshops

The focus of workshops is to review project progress to date and the technical decisions that have been made in focused meetings. CONSULTANT shall conduct the following workshops in Phase 3 – Design.

During final design, workshops shall be held after each design submittal. A constructability workshop shall also be held.

Task 3.8.1.1 Design Submittal 1 Workshops

DS1 Review Kickoff Workshop

The DS1 Review Kickoff Workshop shall be held immediately after DS1 is submitted. The objectives of this meeting include the following:

- Review how the submittal is organized, what material is included, and what material is not included, and how complete the various portions of the design are.
- Review significant design changes made since the previous submittal, and the reasons for those changes.
- Present key features of the submittal that OCSD staff should pay particular attention to when reviewing the submittal after the workshop.

CONSULTANT shall include at the Workshop staff members needed to present the material and directly address questions that may arise on the material. For this project, OCSD would anticipate the following CONSULTANT staff members would need to be physically present. In certain cases, CONSULTANT may propose that other team members participate by teleconference.

- Project Manager
- Project Engineer
- Lead Mechanical Engineer
- Lead Electrical
- I&C Engineer
- Architect/Subconsultant
- Geotechnical Engineer/Subconsultant

This workshop shall be two hours in length.

Immediately following the full workshop, the CONSULTANT Project Manager and Project Engineer shall present to OCSD's core engineering team the documentation of the quality control process implemented prior to delivery of the design submittal. If the quality control process does not appear to have been implemented per OCSD or CONSULTANT's quality control standards, the OCSD Project Manager may reject the submittal.

DS1 Validation Workshop

The DS1 Validation workshop shall be held to review and validate the CONSULTANT's responses to OCSD's DS1 comments. This workshop shall be held after CONSULTANT has reviewed OCSD's comments on DS1 and developed suggested resolutions to the comments. The same OCSD and CONSULTANT staff that attended the kick-off workshop and design submittal review meetings should attend this workshop. The primary focus of this workshop is to resolve differences between the CONSULTANT and OCSD staff on how the comments should addressed.

This workshop shall be four hours in length.

Task 3.8.1.2 Design Submittal 2 Workshops

DS2 Review Kickoff Workshop

The DS2 Kickoff Workshop shall be held immediately after DS2 is submitted and shall be conducted as specified for the DS1 Kickoff Workshop, including the review of the CONSULTANT's quality control documentation.

This workshop shall be two hours in length.

DS2 Validation Workshop

The DS2 Validation Workshop shall be conducted as specified for the DS1 Validation Workshop.

This workshop shall be two to four hours in length.

Task 3.8.1.3 Design Submittal 3 Workshops

DS3 Review Kickoff Workshop

The DS3 Kickoff Workshop shall be held immediately after DS3 is submitted and shall be conducted as specified for the DS1 Kickoff Workshop, including the review of the CONSULTANT's quality control documentation.

This workshop shall be two hours in length.

DS3 Validation Workshop

The DS3 Validation Workshop shall be conducted as specified for the DS1 Validation Workshop.

This workshop shall be four hours in length.

Task 3.8.1.4 Final Design Submittal Workshops

FDS Review Kickoff Workshop

The FDS Kickoff Workshop shall be held immediately after FDS is submitted and shall be conducted as specified for the DS1 Kickoff Workshop, including the review of the CONSULTANT's quality control documentation.

This workshop shall be two hours in length.

FDS Validation Workshop

The DS3 Validation Workshop shall be conducted as specified for the DS1 Validation Workshop.

This workshop shall be four hours in length.

Task 3.8.1.5 Constructability Workshop

A constructability workshop shall be held following the DS3 submittal and shall be a two-day workshop. The constructability review is intended to provide OCSD with an objective third party review of the Bid Documents for effectiveness in communicating information to prospective bidders. The review shall determine if the Bid Documents have sufficient information needed to bid and construct the project and avoid misunderstandings and misinterpretations that may lead to conflict, confusion or claims during construction. This review is not a comprehensive plan check, a dimensional check or a value engineering assignment. Further, it is recognized that comments may only be given on the level of detail provided at this level of design.

Constructability review participants shall include highly experienced individuals from construction companies, OCSD construction management staff and CONSULTANT design staff. Specialty Consultants and discipline engineers may also be included.

Each constructability review participant shall receive a package at least two weeks in advance. The package shall include plans and specifications, general conditions, the CPM schedule, the construction cost estimate, permits, and other pertinent information via Bluebeam Studio Session. The confirmation statements regarding the size-critical equipment as required in the Engineering Design Guidelines, Chapter 01, Design Guidelines – General Requirements, Section 01.2.15.2 "Size-Critical Equipment" shall also be included in the review package.

To avoid disturbances, the constructability review may be held on-site or off-site.

Day 1 shall start with a site visit, for the reviewers to acquaint themselves with the site conditions. After the site visit, the CONSULTANT shall make a short presentation, followed by

a question and answer period. This is anticipated to take about 1/2 day. The second half of Day 1, and the first half of day two shall be individual workdays for the Constructability Review Team. The CONSULTANT shall not attend, although one designated individual from the CONSULTANT's Design Team shall remain to answers questions and gather additional information that the constructability review team might need.

On the afternoon of Day 2, the CONSULTANT shall return and listen to comments from the Constructability Review Team. A designated individual shall record the comments, and take notes from the workshop, to document the process.

Topics the Constructability Review Team must consider shall include:

- Project consistency, discrepancies, and constructability issues
- Contradictions, bid package strategies, and biddability issues
- Power outages and equipment shutdowns
- Size critical equipment requirements and constraints
- Utility company requirements
- Construction methods and mitigating impacts
- Viability of equipment relocation
- Operational requirements
- Interim Control Plan
- Access for maintenance
- Access to make proper connections
- User-friendliness and safety
- Coordination with other projects
- Draft Commissioning Plan
- Public nuisance issues
- Risk sharing
- Construction sequencing and schedule, materials storage and work zone accessibility
- Clarity of the scope of work, and interface activities
- Impacts on existing operation
- Access

- Cost control
- Partnering with contractor
- Other local conditions and constraints

The Constructability Review Team shall provide comments in Bluebeam and the CONSULTANT shall respond to each comment, selecting those comments to be included in the final plans and specifications.

To facilitate the Constructability Review Workshop, CONSULTANT shall complete the following tasks:

- Prepare package for constructability review participants. The package shall consist of detailed plans and specifications and other information selected by CONSULTANT.
 The package shall be mailed to participants at least one week prior to the workshop.
- Prepare presentation on the project for the Constructability Review Team.
- Meet with Constructability Review Team to receive comments.
- Provide listing of constructability review comments and action taken on each comment.
 (The summary report of constructability review comments shall be prepared by the Constructability Review Team.)

All comments and recommendations of the workshop shall be incorporated into the Bid Documents at no additional cost to OCSD.

Prior to DS3, the Commissioning Team shall also conduct an additional constructability review of the final Bid Documents to review clarity of the bid package, project completeness, and other issues, as necessary.

Task 3.8.2 Design Phase Meetings

Task 3.8.2.1 Technical Progress Meetings

Technical Progress Meetings shall be held via conference call every two weeks to review various issues with OCSD's project team. The CONSULTANT shall prepare and agenda and email it along with the updated Action Log and Decision Log prior to each meeting. Assume each meeting shall be 90-minutes in duration.

Task 3.8.2.2 Focused Meetings

Focused meetings shall be held throughout preliminary design to discuss specific issues in detail and generate comments and direction from OCSD staff. CONSULTANT shall assume 8 focused meetings.

Each focus meeting shall generally be 1 one to two hours in length. Supplementary meetings may be scheduled with OCSD staff, as necessary to allow coordination between the CONSULTANT and OCSD staff.

Task 3.8.2.3 Commissioning Team Meetings

A total of four commissioning team meetings shall be held after completion of OCSD's review of DS1.

Meetings will be two hours in length. CONSULTANT may suggest additional topics as necessary. Supplementary meetings may be scheduled with OCSD staff, as necessary, to allow coordination between CONSULTANT and OCSD staff.

The Commissioning Team meetings shall cover the following subjects:

- Provide a detailed review of the proposed construction sequencing plan and make recommendations for improvements. These recommendations shall be incorporated into the plans and specifications as appropriate. Possible incentives for the Contractor to finish the project early shall be explored.
- Identify procedures, testing requirements and sequencing for commissioning.
- Develop a detailed outline of a commissioning plan based on the results of the recommended construction sequencing plan.
- Prepare testing requirements and plan to prove process performance relative to design criteria developed in the PDR. Testing shall be performed after the RAT and supervised by the CONSULTANT.
- Identify timing within the construction contract schedule when commissioning activities are required, including hold points for testing and inspection.
- Identify roles and responsibilities of the Project Manager, Resident Engineer, Inspector, Project Engineer, PCI, Engineering support, Design CONSULTANT and Contractor.
- Develop a timeline of commissioning
- Develop a commissioning specification
- Develop standard forms for testing and commissioning documentation
- Electrical, mechanical and process tie-ins
- Startup requirements and testing
- Record drawings
- O&M training
- OMaP documentation and coordination of same with O&M Training

Task 3.8.2.4 Safety and Risk Meeting

Meet with OCSD Safety and Risk Management personnel, and OCIP (Owner Controlled Insurance Program) safety representatives, between DS2 and DS3 to review the plans and specifications in accordance with OCSD safety policies and OCSD Risk Management goals.

The design phase risk meeting shall be held per the following table:

Meeting Name	Timing	Duration
Safety and Risk Meeting	~4 weeks prior to submittal of DS3.	3 hours

The purposes of the workshops are to:

- Review the existing Risk Management Plan (RMP)
- Identify new key project-specific risks,
- Update the nature of the impact of each risk should it occur
- Update how likely the risk is to occur
- Update mitigation strategies that should be implemented or be ready to be implemented to address each risk.

The workshops will be held at OCSD offices. CONSULTANT shall prepare the agenda, any appropriate presentation materials, and minutes for the Workshop. The minutes shall include sufficient information for OCSD to update the RMP and for CONSULTANT to update the Risk Mitigation Measure Log.

Task 3.8.2.5 CONSULTANT Office Technical Meetings (COTMs)

OCSD has found it mutually beneficial to visit the CONSULTANT offices from time to time to observe the detailed design in process, answer detailed technical questions, and establish lines of communications with CONSULTANT staff. During the Design Phase, CONSULTANT shall arrange for OCSD staff to meet in CONSULTANT's work center and audit "over the shoulder" design reviews with CONSULTANT's staff. The reviews will be monitored by a member of CONSULTANT's Management Team. Signification decisions will be reported to CONSULTANT's Project Manager and OCSD's Project Manager and logged into the Decision Log. Action items will be identified.

The CONSULTANT shall schedule, at a minimum, the following CONSULTANT Office Technical Meetings (COTMs):

One two-hour visit to review the QA/QC process.

- One four-hour visit to review CONSULTANT Loop Tag Number scheme and control documentation, P&ID tag extraction, basic control panel design, and Conduit, Tray and Cable Schedules.
- One two-hour visit to review the first few P&ID drawings, early Control Strategies, and the first elementary diagrams.
- One two-hour visit to review each of the SAT and EID products, including P&ID, SAT and EID coordination.

The CONSULTANT shall schedule each of the above COTMs and shall coordinate with OCSD's Project Manager to be sure the correct personnel participate in the meetings. The CONSULTANT may propose additional, eliminate, or combine COTMs as needed to support the detailed design.

OCSD may also request additional "over the shoulder" design review meetings to audit the design in other areas not listed above.

TASK 3.9 - QUALITY CONTROL

The following Quality Control requirements apply both to Phase 2 – Preliminary Design and Phase 3 - Design. Quality control activities during Design should be budgeted for and charged to the Phase 3 quality control budget.

Quality Control Requirements

Acceptance of CONSULTANT professional services shall be based on the result of audits conducted on the elements of the approved QA/QC Plan and the incorporation or resolution of comments resulting from these audits.

<u>Periodic Visits</u>: OCSD may make periodic visits to the CONSULTANT's offices to review the progress of the technical work. These visits may include talking to CONSULTANT's personnel, reviewing drawings (both hardcopy and electronic), discussing QA/QC techniques that will be employed by OCSD in reviewing I/C drawings and assisting CONSULTANT's staff with understanding I/C requirements for such project elements as P&ID's.

<u>Signed Affidavits:</u> Prior to the submittal to OCSD, each Design Memo and Design Submittal identified in the Scope of Work shall be thoroughly reviewed and corrected by a member of the QC Team and the following affidavits submitted, testifying the completion of QA/QC review.

- The lead reviewer shall attest to their review in the form of a written affidavit outlining the submittal subject and identifying the corrected deficiencies.
- Each discipline reviewer shall provide an affidavit attesting to the details of the review, listing the drawings and specification sections he or she reviewed.
- Each Interdisciplinary reviewer shall provide an affidavit stating which documents he or she cross-checked for coordination between disciplines.

Discipline Internal Check

CONSULTANT shall perform discipline check and review all drawings, specifications, studies, reports, calculations, and any other deliverable required by the Scope of Work. These requirements shall be implemented by those Project Team members responsible for the specific planning or design activity.

Discipline Integrity Check

Immediately prior to the submittal of DS1, the CONSULTANT shall perform a drawing integrity check (plan check) for all disciplines. The DS1 submittal shall also have a coordination check between the P&IDs and Mechanical Drawings. The mechanical lead engineer shall attest to the accuracy of each P&ID and the respective mechanical drawings.

Interdisciplinary Coordination Check

CONSULTANT shall perform an inter-discipline coordination cross-check immediately before each design submittal to correct discrepancies among the process and demolition plans; mechanical, structural, electrical, and instrumentation and controls drawings, and databases. Within each submittal, all documents shall have inter-discipline coordination checked and shall agree with each other.

Independent Multi-Discipline Design Review

CONSULTANT shall identify an Independent Quality Control (IQC) Team consisting of qualified individuals not directly involved in the design or supervision of the work. This Team shall conduct a multi-discipline design review (check and inter-discipline cross-check) immediately before submittal of the DS3 to check discipline accuracy, provide coordination, and eliminate conflicts. A DS3 IQC workshop shall take place at OCSD. The workshop shall have a minimum duration of four days. OCSD project Team shall be invited and encouraged to attend and observe the early morning briefings.

The IQC Team shall have completed their independent review of their discipline prior to the DS3 IQC workshop. At the workshop, the IQC Team shall continue with the interdisciplinary review and cross-checking, comment generation and discussion. The comments resulting from the IQC Team review shall be documented in Bluebeam during the review process and will be reviewed by the entire IQC Team in the beginning of each subsequent day of the workshop. In terms of participation, these morning review sessions will be the most beneficial time for OCSD Staff to be in attendance. The CONSULTANT shall provide an open forum to OCSD to allow observation by OCSD Staff and a transparent QC process. The finalized IQC logs generated during the workshop will be incorporated into the QC documentation for the project and CONSULTANT shall track resolution of these comments using Bluebeam.

Each drawing shall have its own IQC checklist or drawing markup that shall be maintained throughout the workshop. These pre-prepared IQC checklists and drawing markups shall be used in addition to the IQC logs. Each discipline lead shall sign off on each drawing checklist or drawing markup to certify that the drawing was properly checked and cross-checked.

At the end of the IQC workshop, the IQC Team shall meet with CONSULTANT's QC Manager to provide insights and feedback.

After the DS3 IQC workshop, the design team shall provide responses to the IQC review comments. The IQC Team shall validate the responses to the comments prior to the DS3 submittal Using Bluebeam.

Print of the final markup list showing the status of each comment that all reviews performed, and all comments resolved, incorporated and back checked will be recorded on a QC Validation Form and submitted to OCSD for acceptance when the Design Submittal is delivered.

All submittals shall be accompanied by a transmittal letter signed by CONSULTANT's principal-in-charge or Project Manager, if appropriate, indicating that the submitted documents have been checked, and identifying the reviewer's name. Signatures of the respective checkers shall be included where appropriate. All submittals shall be checked with a goal of insuring accuracy and consistency.

Documentation of Level of Effort for QA/QC

CONSULTANT shall include man-hours for all QA/QC activities related to Preliminary Design in this task, including the development of the QA/QC Plan and review of Bid Documents either by CONSULTANT, or by the CONSULTANT in conjunction with OCSD staff in meetings and workshops.

TASK 3.10 - PERMITTING ASSISTANCE

CONSULTANT services related to Permitting Assistance on the project are specified in Phase 2 – Preliminary Design and those services shall continue during Phase 3 - Design. The CONSULTANT shall allocate the budgeted hours between the Permitting Assistance services in Phase 2 and Phase 3 based on when these services will be required.

PHASE 4 – CONSTRUCTION AND INSTALLATION SERVICES

Not in this Scope of Work.

PHASE 5 - COMMISSIONING SERVICES

Not in this Scope of Work.

PHASE 6 - CLOSE OUT

Not in this Scope of Work.

V. GENERAL REQUIREMENTS

GENERAL

OCSD ENGINEERING DESIGN GUIDELINES AND STRATEGIC PLAN

The Engineering Guidelines define what design concepts/tools/methods and project management requirements shall be adhered to and in what manner they shall be

used/provided by CONSULTANTs, e.g., requirements regarding design concepts, submittals, documentation details, use of OCSD Master Specifications, and other related OCSD Standards, etc.

Refer also to Section "CONSULTANT's Responsibilities" in OCSD Engineering Design Guidelines Chapter 01. Refer to "Master Specifications Instructions for Use" that mandates rules and conventions to be used in all OCSD project specifications.

The project Scope of Work defines whether or not each specific deliverable described in the Guidelines shall be part of the project and when each task shall take place.

The project Scope of Work also includes requirements that supplement and/or modify the Guidelines requirements for this project.

The project Scope of Work and OCSD Engineering Design Guidelines impact CONSULTANT's project cost.

Except as specified in this Scope of Work, design of all facilities shall conform to the recommendations of the currently approved Master Plan for OCSD facilities. The project shall also incorporate all applicable mitigation measures included in associated environmental documents and site-specific local requirements.

In addition, OCSD will require the CONSULTANT to follow subsequent revisions of OCSD Safety Standards, OCSD Engineering Design Guidelines and other OCSD Design Standards up to transmittal by OCSD of comments on Design Submittal 2 (DS2).

OCSD may update OCSD's Master Specifications and/or add new OCSD Master Specifications up to transmittal by OCSD of comments on Design Submittal 2. The CONSULTANT shall utilize the new and/or modified Master Specifications for the DS3 submittal.

The CONSULTANT shall <u>not</u> begin editing the project specifications until the project team meets with OCSD's Design Standards Custodian to discuss and receive comments regarding the CONSULTANT's proposed list of project specifications. This meeting will be used to determine which specifications are to use OCSD's master specifications, and where other sources will be utilized.

Project Phases and Tasks

Project tasks and deliverables shall include the requirements described in this Scope of Work. CONSULTANT shall also refer to Appendix A of OCSD Engineering Design Guidelines for the level of detail requirements for individual deliverables in each Phase of the project not covered in the Scope of Work.

Construction Sequencing and Constraints

CONSULTANT shall develop with OCSD staff and include in the Bid Documents detailed requirements for construction sequencing and constraints. These shall ensure safe and reliable operation and maintenance of OCSD facilities. The facilities must be kept on-line and fully operational with minimal interruptions throughout construction.

Working Hours

Meetings with OCSD staff shall be scheduled from Monday through Thursday between the hours of 8:00 AM and 4:00 PM.

Standard Drawings and Typical Details

All the details used in the project (OCSD's Standard Drawings and CONSULTANT-developed typical details) shall be shown on the Plans.

Software

The CONSULTANT is expected to develop and provide the deliverables using the standard software currently approved for use by OCSD. The standard OCSD software includes, but is not limited to, the following:

- AutoCAD Plant 3D ver 2018 (for P&ID drawings only)
- Autodesk software 2018 (AutoCAD, AutoCAD Map3D or compatible dwg file format)
- o Bluebeam Revu eXtreme (version 2018.2)
- o Primavera P6 for scheduling
- Microsoft Office 365

Bluebeam collaboration tools will be used on this project. The CONSULTANT shall have the proper software and licenses to collaborate with OCSD through Bluebeam Revu and Revu Studio. All submittals shall be in formats compatible with Bluebeam. CONSULTANT shall supply an external site that can be utilized by OCSD staff to access and save back all design submittal review comments. This will allow easier collaboration between OCSD and the CONSULTANT.

Any software that the CONSULTANT needs to comply with these standards shall be purchased and maintained by the CONSULTANT at no additional cost to OCSD. In the event OCSD provides the CONSULTANT with access to OCSD software and hardware at an OCSD facility in order to facilitate performance of their work, all software shall remain the property of OCSD. Only software licensed to OCSD shall be installed on OCSD equipment. In addition, only OCSD IT Department staff will perform the installation of this software.

Refer to Chapters 10 and 11 and Appendix A of OCSD Engineering Design Guidelines for requirements on preparation of Criticality Tables and ETAP, SAT, and EID databases. Refer to OCSD CAD Manual and to Chapter 11 and Appendix A of OCSD Engineering Design Guidelines for requirements regarding P&ID drawings.

Submittal Review using Bluebeam

OCSD has standardized on the use of Bluebeam Revu for reviewing and providing comments to PDF files. Prior to submitting electronic PDF files, format them as indicated below

(underlined text refers to commands or functions within the Bluebeam software). See "**Exhibit 17** Designer Training for Submission" and "OCSD CAD Standards Manual" prior to submission.

- 1. Flatten file with <u>Document\Flatten</u>
- 2. Reduce file size with Document\Process\Reduce File Size
- 3. Make PDF searchable with Document\OCR
- 4. Create page labels with Thumbnails Toolbar\Create Page Labels
- 5. Create bookmarks with Create Bookmarks\Page Labels
- 6. Enable hyperlinks with File\Batch\Link\New

PDF files will be hosted in a Bluebeam cloud-based studio session for review. See "SOW **Exhibit 18** Designer User Training" for a detailed explanation on how Bluebeam will be used to provide, validate, and close submittal review comments.

- 1. The purpose of the studio session is to provide review and collaboration. The session provides multiple attendees, despite location, the opportunity to review and comment on the same PDFs in real time. All review actions are tracked and recorded.
- 2. OCSD staff will create the Bluebeam studio session, invite attendees, configure, and manage the Studio session.
- Bluebeam provides reviewers with tools for annotating PDFs called a markup. OCSD provides two toolboxes for annotating PDFs: "OCSD Drawings Review" and "OCSD Report Review."
- 4. Markups are both graphical and tabular. When the graphic markup is placed, corresponding tabular data are created. The collection of tabular data is considered the markup list.
- 5. The markup is automatically populated with various properties including author, sheet number, comment, markup type, etc. to make reviewing consistent. The tabular data within the markup list are hyperlinked to the graphical markup for back-and-forth viewing.
- 6. The markup list may be sorted or filtered. For example, filtering markups by author makes that attendee's markups more prominent on the page by dimming everyone else's markups.
- 7. Within a studio session, markups may only be modified by the markup author except for the Status data field using the "Set Status" command. OCSD has customized this field for the reconciliation of comments and backcheck. Session attendees may "Reply" to the markup of other reviewers. Replying to a markup provides the responder the opportunity to explain how the markup will be incorporated.

- 8. The comment reconciliation steps are summarized below:
 - a. Reply respond to OCSD provided review comment with: **Agree**, **Disagree**, or **Flag for Discussion**.
 - Direct meet with OCSD to reconcile the non-agrees with either an Incorporate or Do Not Incorporate response. OCSD will work with CONSULTANT to ensure clear direction is provided.
 - c. QC Check CONSULTANT tells OCSD that the comment has been addressed in the next submittal by responding with **Incorporated** or **Not incorporated**.
 - d. Backcheck reconciliation of open and incorporated comments by OCSD with an **Open** or **Closed** response.
- 9. A one-hour training session on the use of Bluebeam and custom status menu will be provided by OCSD. All CONSULTANT team members responsible for quality control and reconciliation of submittal comments shall attend.

Word Track Changes

- 1. Below are guidelines for the review and incorporation of MS-Word comments and revisions. Use MS-Word Track Changes to show edits to all project specifications and other MS-Word files.
- 2. Submit the marked-up electronic files for OCSD review, as required by the Scope of Work. OCSD's review will consist of comments and (in-text) revisions. OCSD comments and revisions shall remain visible in Track Changes throughout design.
- 3. OCSD will return the MS-Word files or host them in a central location.
 - a. If the files are returned, CONSULTANT will check the files back into their document management system (i.e., replace the old files with the returned files) and resume their design and review of OCSD comments using the returned files. This insures that in-text revision by OCSD are preserved.
 - b. Hosting files in a central repository is preferred because it eliminates file transfer and the potential for multiple copies. Hosted files are also protected by version control.
- 4. OCSD comments shall be addressed using MS-Word "Reply" and "Resolve." The CONSULTANT shall "Reply" to each OCSD comment describing how the comment will be addressed and revise the specification, as needed, to address the comment.
- 5. "Resolve" will be used by the reviewer or designee to confirm their comment has been addressed. "Resolve" greys out the comment showing it is closed.
- 6. Revisions may be "Rejected" with the concurrence of the Project Engineer or reviewing party. Concurrence is necessary because once a revision is "rejected," it is removed from MS-Word Track Changes and no longer visible.
 - After final design, all MS-Word comments and revisions shall be Track Changes accepted, rejected, resolved, or deleted prior to bid. The MS-Word commands to "Accept All Changes" and "Delete All Comment in Document" shall be performed just prior to preparing the IFB set. No unaddressed comments or revisions shall remain in the Bid Documents.

GIS Submittals

CONSULTANT shall provide the following GIS deliverables propagated from approved design submittals after the design submittal is accepted. These GIS submittals will not be reviewed or presented by CONSULTANT. The purpose is to provide project specific GIS layers that could be used to visualize interproject dependencies and conflicts.

- 1. Electronic Submittal
 - a. Kmz files for use with Google Earth
- 2. Final PDR
 - a. Single project boundary (Polygon)
 - i. Boundary to encompass all new facilities and existing to be modified including:
 - 1. Buildings\Structures
 - 2. Tunnels
 - 3. Utilities
 - 4. Pavement
 - 5. Street boundary (ROW to ROW) of possible alignment
 - b. Structures (Polygon)
 - i. New structure outline
 - ii. Additions to existing structures
 - iii. Structure label
- 3. DS1
 - a. Project boundary updated from PDR
 - b. Structures updated from PDR
 - c. Utilities (Polyline)
 - i. Utility alignment
 - d. Manholes (Point)
 - e. Excavation of pits (Polygon)
 - i. Pits that will stay open for extended duration
 - ii. CIPP
 - iii. Tunnel jacking and receiving
 - iv. All pits should be labeled
- 4. DS2, DS3, and FDS
 - a. Project boundary updated from previous DS
 - b. Structures updated from previous DS
 - c. Utilities updated from previous DS
 - d. Manholes updated from previous DS
 - e. Excavation of pits updated from previous DS
 - f. Critical (as defined by Dig Alert) utility crossings (Point)
 - i. Crossing of Dig Alert critical utilities
 - ii. Critical utility label
 - 1. Natural gas
 - 2. Fuel pipeline
 - 3. 12 kV Electrical
 - g. Asphalt (Polygon)
 - i. Asphalt to be replaced

PROJECT SPECIFIC DEVIATIONS FROM OCSD DESIGN GUIDELINES

ENGINEERING DESIGN GUIDELINES, CHAPTER 11, "INSTRUMENTATION AND CONTROL"

- a. Section 11.3.1 "Requirements Study"
- b. Section 11.3.2 "Requirements Study Report"

The Requirements Study shall not be part of the Scope of Work.

ADDITIONAL DESIGN CRITERIA

In addition to meeting the design criteria required in the Engineering Design Guidelines (EDG), the CONSULTANT shall design the pump station to meet the following criteria.

- 1. The station must be able to pump the peak (1-hour average, 10-year storm, 2040) wet weather flow with one of the pumps out of service.
- 2. The station shall be able to pump peak (1-hour average) dry weather flows with one of its pumps out of service.
- 3. The frequency range of the Variable Frequency Drives shall be maximized during average daily dry weather flow operation.
- 4. The pumps shall be capable of passing rags and fibrous materials and shall be capable of passing a 3-inch diameter non-compressible solid.
- 5. Pump station shall reliably meet design flow requirements even if flooded. All sources of flooding shall be identified and mitigated. Flooding is defined as in-flow larger than what the sump pump can handle. Electrical and control elements in the flood zone shall be able to function even after an extended amount of time under water.
- 6. All electrical, instrumentation, and control equipment not required to be in the pump room or wet well shall be located in a completely separate room without any connection to a classified area.
- 7. The pumps shall be designed to operate without cavitation or excessive vibration through all operating ranges.
- 8. The VFD operating range must be continuous and shall not skip any frequencies to avoid ranges where vibration resonance may occur.
- 9. Pump shall be designed to utilize the full frequency range of operation (typically between 30Hz to 60Hz). Range to be established and agreed upon prior to final PDR.
- 10. Sump Pumps shall be provided with chopper blades.
- 11. Ductwork between wet wells and air scrubber facility shall be buried where crossing pavement or other open areas.

- 12. Design ventilation systems to minimize short circuiting.
- 13. Mount blowers over 5 hp on vibration isolators.
- 14. Minimum air exchanges in pumping station shall be the largest of either 10 per hour or as required to keep the motors cool.
- 15. Air in the electrical room(s) shall be cleaned and kept between manufacturer's recommended temperatures.
- 16. Air conditioners will be required to cool the air in the electrical rooms. Air exchanges in the electrical room(s) shall be either a) six per hour; b) whatever is needed to control heat buildup; or c) as required by the equipment manufacturers whichever is greater.

VI. STAFF ASSISTANCE

OCSD staff member or designee assigned to work with CONSULTANT on the design of this project is Justin Fenton at (714) 593-7386, e-mail to: jfenton@ocsd.com.

EXHIBITS:

Exhibit 01	Design Submittal Requirements Matrix	
Exhibit 02	Project Schedule Calculation	
Exhibit 03	Project Reference Material	
	 3-12 Record Dwg Set 3-62 Amendment 3 Docs 3-62 Final PDR Complete 3-62 GW Impacts Near SBPS TM Rehabilitation of Outlying Pump Stations Ch. VII – Seal Beach Selecting a Pump v3 	
Exhibit 04	Deliverable Quantities	
Exhibit 05	Sample Construction Cost Estimate Format	
	Sample 1	
	• Samples 2 - 4	
Exhibit 06	Sample Full Project Safety Review Plan	
Exhibit 07	Sample Risk Management Check List	
Exhibit 08	SBPS Asbestos Lead Hazardous Material Survey	
	• 2015	
	• 2019	
Exhibit 09	Commissioning Docs	
	Commissioning Design Spreadsheet	
	Commissioning templates	
	Sample ORT 1 of 2	
	Sample ORT 2 of 2	
Exhibit 10	Sample FAT	
Exhibit 11	Sample RAT	
Exhibit 12	Sample PnID Rocky Point	
Exhibit 13	Sample Control Strategy	
Exhibit 14	NOT USED	
Exhibit 15	Navy Security Fence Documents	
Exhibit 16	NOT USED	
Exhibit 17	Designer Training for Submission (2018)	
Exhibit 18	Designer User Training Document (2018)	

Exhibit 19 3-62 Geotechnical Data Report

Exhibit 20 3-62 Evaluation Memorandum No. 2

Exhibit 21 3-62 Evaluation Memo 3

Exhibit 22 Latest 3-62 DRAWING NO. C5001

JGD:MK:dm

ATTACHMENT "D"

ALLOWABLE DIRECT COSTS

ATTACHMENT "D" ALLOWABLE DIRECT COSTS

LONG DISTANCE TELEPHONE CHARGES	All long distance telephone charges incurred will be reimbursed as direct costs. Telephone charges to area codes serving Los Angeles, Orange, Riverside, and San Bernardino Counties will not be reimbursed.	
FACSIMILE TRANSMISSION CHARGES	Facsimile transmission charges will not be reimbursed, except the long distance toll charges, as described above.	
REPRODUCTION AND PRINTING CHARGES	In-house reproduction of records and documents will not be reimbursed by the SANITATION DISTRICT. Use of an outside copy service for specialty items and volume reproduction will be reimbursed at direct cost. Use of a professional printing service will be reimbursed at actual cost.	
OVERNIGHT MAIL DELIVER AND MESSENGER SERVICE	Use of Federal Express, Express Mail, UPS, or such similarly-related service, as well as a messenger service, will be reimbursed at direct cost only when necessary.	
POSTAGE	Incidental postage will not be reimbursed by the SANITATION DISTRICT.	
FILM PROCESSING	Film processing will be reimbursed at actual cost.	
COMPUTER USAGE	Computer use by Consultant and/or support staff will not be reimbursed.	
MILEAGE	Per mile reimbursement will be at the current rate set by the Internal Revenue Service.	
TEMPORARY STAFF	The use of outside temporary support staff will be reimbursed at direct cost with prior approval of the SANITATION DISTRICT.	
OFFICE SUPPLIES	The purchase of office supplies by Consultant will not be reimbursed.	
LODGING	The cost of lodging including room and all applicable taxes will be reimbursed on a per diem basis as an allowable maximum as established by U.S. General Service Administration. Lodging incidentals as defined by IRS are included in the per diem rates. Lodging personal incidentals including movies, internet, laundry service, valet service, room service, etc., will not be reimbursed. Receipts must be provided for the actual incurred cost.	
	Cancellations of the hotel reservations by the Consultant must be per the hotel policy. Late cancellations, early or late departure will not be reimbursed by the SANITATION DISTRICT.	
GROUND TRANSPORTATION	The cost of ground transportation for taxi, shuttle, train, etc., will be reimbursed. Limousine service will not be reimbursed. The Consultant shall use the most economic and practical mode of transportation that is reasonably available.	

AIRFARE	Airline ticket cost including one bag will be reimbursed only if pre-approved by the SANITATION DISTRICT. First class tickets will not be reimbursed unless pre-approved by the SANITATION DISTRICT. Membership dues for corporate card frequent user programs or the cost of airline club membership will not be reimbursed.	
AUTO RENTAL	Rental car cost for intermediate or standard model, mid-size car (Class "C") or the smaller car compatible with the specific need and rental car gas will be reimbursed. Receipts must be provided to substantiate requested reimbursements.	
PARKING FEE	Parking fees for hotel, airport, rail station, etc. will be reimbursed. Consultant shall use the most economic and practical parking location as reasonably available. Excessive parking fees that are deemed unreasonable by the SANITATION DISTRICT will not be reimbursed.	
TRAVEL MEALS	Travel meals will be reimbursed on a per diem basis as established by U.S. General Service Administration. Per diem rates include gratuities (tips) and will not be separately reimbursed by the SANITATION DISTRICT. Personal expenses such as cost of alcoholic beverages will not be reimbursed. No receipts are required for the approved meals. The daily total reimbursement for meals shall not exceed the SANITATION DISTRICT per diem rate which is available upon request.	
PER DIEM DAILY RATE FOR LODGING AND MEALS	The SANITATION DISTRICT may utilize per diem daily rate that includes lodging, meals and incidentals (M&IE) as established by IRS and U.S. General Service administration for pre-approved travel when reasonable.	
RENTAL EQUIPMENT	Consultant will be reimbursed at actual cost, no mark-up.	
OTHER DIRECT COSTS	OCSD may authorize other items that may be necessitated due to modifications in scope of work resulting from field investigations and field work required by Contract. These items may include special equipment, test equipment and tooling and other materials and services not previously identified. These items will be reimbursed based on actual cost incurred. A one-time mark-up of 15% for additional equipment rentals, materials and outside services required for field work and investigations may be allowed, as applicable, if justified. No additional markup is allowed by Consultant on other direct costs resulting from work performed by its Contractors.	
MISCELLANEOUS	Cost of miscellaneous personal items such as, but not limited to newspapers, toiletries, shoeshine, tobacco products, pay TV, movies, valet services, health club charges, in-room mini bars, clothing and footwear will not be reimbursed. ATM/bank fees incurred by Consultant while traveling will not be reimbursed. Costs for project team lunches will not be reimbursed unless pre-approved by the SANITATION DISTRICT.	

ATTACHMENT "E"

FEE PROPOSAL FORM

ATTACHMENT "E" FEE PROPOSAL FORM

Submitted by: L	& RO, Inc.
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(Name of Firm)

Consultant Nan	ne:	LEE & RO, Inc.				
Raw Labor		\$	1,392,067			
Fringe Costs	31.00%	\$	431,541			
		Burdened Labor (Raw Labor + Fr		\$	1,823,608	
		Overhead	110.00%	\$	2,005,969	
				Subtotal (Burdened labo	r + OH)	\$ 3,829,577
Note: Round al	l values to nearest dol	ar.		Profit (% of Subtotal)	5.00%	\$ 191,479
				Total Direct Cos not to exceed	ts,	\$ 24,200
TOTAL - "Consu	ltant" Not to Exceed					\$ 4,045,256

Major Subcons	ultant A Name:	Atkins					
Raw Labor		\$	81,700				
Fringe Costs	34.43%	\$	28,129				
		Burdened Laboi (Raw Labor + Fr		\$	109,829		
		Overhead	103.28%	\$	113,432		
				Subtotal (Burdened labo	r + OH)	\$	223,261
Note: Round al	I values to nearest doll	ar.		Profit	10.00%	\$	22,326
				(% of Subtotal)		,	22,320
				Total Direct Cos not to exceed	ts,	\$	1,100
TOTAL - Major S	Subconsultant A Not to	o Exceed				\$	246,688

ATTACHMENT "E" FEE PROPOSAL FORM

Submitted by: <u>LEE & RO, Inc.</u>

(Name of Firm)

Major Subcons	ultant B Name:	Brierley and A	ssociates			
Raw Labor		\$	170,650			
Fringe Costs	74.06%	\$	126,383			
		Burdened Labor (Raw Labor + Fr		\$	297,033	
		Overhead	38.64%	\$	114,773	
				Subtotal (Burdened labo	r + OH)	\$ 411,806
Note: Round al	l values to nearest dol	ar.		Profit (% of Subtotal)	9.64%	\$ 39,698
				Total Direct Cos not to exceed	ts,	\$ 5,000
TOTAL - Major S	Subconsultant B Not to	o Exceed				\$ 456,504

Major Subcons	ultant C Name:	T2 UES, Inc. (C	Cardno)			
Raw Labor		\$	42,436			
Fringe Costs	61.22%	\$	25,979			
		Burdened Labor (Raw Labor + Fr		\$	68,415	
		Overhead	118.26%	\$	80,909	
				Subtotal (Burdened labo	r + OH)	\$ 149,324
Note: Round al	l values to nearest dol	ar.		Profit (% of Subtotal)	10.00%	\$ 14,932
				Total Direct Cos not to exceed	its,	\$ 62,000
TOTAL - Major	Subconsultant C Not to	o Exceed				\$ 226,256

ATTACHMENT "E" FEE PROPOSAL FORM

Submitted by: <u>LEE & RO, Inc.</u>

						(Name of Firm)
Major Subconsi	ultant D Name:	NHC				
Raw Labor		\$	64,735			
Fringe Costs	59.98%	\$	38,828			
		Burdened Labor (Raw Labor + Fr		\$	103,563	
		Overhead	81.12%	\$	84,010	
				Subtotal (Burdened labo	r + OH)	\$ 187,573
Note: Round al	l values to nearest dol	ar.		Profit (% of Subtotal)	10.00%	\$ 18,757
				Total Direct Cos not to exceed	sts,	\$ 48,241
TOTAL - Major S	Subconsultant D Not t	o Exceed				\$ 254,571

Major Subcons	ultant E Name:	Swift Lee Arch	nitects (SLO)			
Raw Labor		\$	56,827			
Fringe Costs	9.50%	\$	5,399			
		Burdened Laboi (Raw Labor + Fr		\$	62,226	
		Overhead	130.00%	\$	80,894	
				Subtotal (Burdened labo	r + OH)	\$ 143,120
Note: Round al	l values to nearest dol	ar.		Profit (% of Subtotal)	10.00%	\$ 14,312
				Total Direct Cos not to exceed	ts,	\$ 3,000
TOTAL - Major S	Subconsultant E Not to	Exceed				\$ 160,432

Subconsultants Under \$100,000		
Subconsultant 1	Bluescape	\$ 39,13
Subconsultant 2	Collings	\$ 38,96
Subconsultant 3	Diaz Yourman	\$ 69,78
Subconsultant 4	GSI Environmental	\$ 61,40

ATTACHMENT "E" FEE PROPOSAL FORM

Submitted by: <u>LEE & RO, Inc.</u>

		(N	ame of Firm)
Subconsultant 5	KW Communications	\$	75,000
Subconsultant 6	NUVIS Landscape Architecture	\$	40,330
Subconsultant 7	Spec Services	\$	98,500
Subconsultant 8	Traffic Control Engineering	\$	80,400
Subconsultant 9	The Prizm Group	\$	29,205
Subconsultant 10	Venklasen	\$	25,430
TOTAL - Subconsultants Under \$100,0	000	\$	558,143

SUMMARY	
Consultant	\$ 4,045,256
Major Subconsultant A	\$ 246,688
Major Subconsultant B	\$ 456,504
Major Subconsultant C	\$ 226,256
Major Subconsultant D	\$ 254,571
Major Subconsultant E	\$ 160,432
Subconsultants Under \$100,000	\$ 558,143
GRAND TOTAL - Not to Exceed	\$ 5,947,850

ATTACHMENT "I" COST MATRIX AND SUMMARY

Seal Beach Pump Station Replacement, Project No. 3-67

Attachment I - Cost Matrix

					Labor ho	urs														
Task Item	Project Manager	Project Engineer	Lead Electrical	Lead I&C Eng.	Engineer	Associate Engineer	Assistant Engineer	Sr. CAD Designer	Assoc. CAD Designer	Adm. Assistant	Total Hours	Raw Labor	Fringe Costs	Burdened Labor	Overhead	Burdened Labor & Overhead	Profit	Total Subs	Allowable Direct Costs	Total Fees
Average Actual Salary Fully Burdened Hourly Rate (includes payroll costs, OH, and Profit)	99.28	89.53	99.28	89.53	70.99	63.91	55.18	75.14	55.18	33.33			31.00%		110.00%		5.00%			
PHASE 2 - PRELIMINARY DESIGN																				
2.1 Not Used																				
2.2 Preliminary Design Production																		220,000.28		
2.2.1 Design Memos 2.2.1.1 Design Memo 1 - Trunk Sewer Alignment and PS Base Map	24	40			40	60	80	120	80	16	460	31,017.00	9,615.27	40,632.27	44,695.50	85,327.77	4,266.39	0.00 255,461.38		346,055.54
2.2.1.2 Design Memo 2 - Pump Station Alternatives and Basis of Design	80	80	<u> </u>	40		80	120	80	120	16	776	57,208.08	17,734.50	74,942.58	82,436.84	157,379.43	7,868.97	254,571.00	6,000.00	425,819.40
2.2.1.3 Design Memo 3 - Geotechnical and Groundwater Management Study2.2.1.4 Design Memo 4 - Structural and Architectural	12	24			24 60	16 40	24	24	24 80	8 12	156 296	10,785.04 19,920.08	3,343.36 6,175.22	14,128.40 26,095.30	15,541.24 28,704.84	29,669.65 54,800.14	1,483.48 2,740.01		100.00 100.00	129,811.13 82,263.00
2.2.1.4 Design Memo 4 - Structural and Architectural 2.2.1.5 Design Memo 5 - Civil, Landscaping, Irrigation, Noise and Utilities	8	16	8	12	00	16	<u>o</u> 24	40	40	12	192	13,190.80	4,089.15	17,279.95	19,007.94	36,287.89	1,814.39			69,652.29
2.2.1.6 Design Memo 6 - Mechanical	16	70	8	4	40	40	40	40	40	4	272	19,271.36	5,974.12	25,245.48	27,770.03	53,015.51	2,650.78	0.00	100.00	55,766.29
2.2.1.7 Design Memo 7 - Electrical and Standby Power 2.2.1.8 Design Memo 8 - Instrumentation and Control	12	2 16	80 8	80	16 24	40 8	80 40	24	70	4	320 256	23,533.00 18,877.36	7,295.23 5,851.98	30,828.23 24,729.34	33,911.05 27,202.28	64,739.28 51,931.62	3,236.96 2,596.58	7,241.00 0.00		75,317.25 54,628.20
2.2.1.9 Design Memo 9 - Odor Control and Air Quality Management	8	3 24	4	4	16	16	24	24	70	•	152	10,575.24	3,278.32	13,853.56	15,238.92	29,092.49	1,454.62	29,415.55		60,062.66
2.2.1.10 Design Memo 10 - Fire Protection, Security and Safety	8	12	7	12		12	24	24	27		140	9,677.52	3,000.03	12,677.55	13,945.31	26,622.86	1,331.14			43,654.00
2.2.1.11 Design Memo 11 - Hazardous Material Survey, Mitigation and Control Design Memo 12 - Code, Environmental, Permits, Agency Coordination	8	16			40	24			16	4	108	7,616.36	2,361.07	9,977.43	10,975.17	20,952.61	1,047.63	0.00	100.00	22,100.24
2.2.1.12 and Traffic Control Design Memo 13 - Construction Phase Implementation, Constructability	24	24	8	8	40	60	60	40	40	8	312	21,506.36	6,666.97	28,173.33	30,990.66	59,164.00	2,958.20	30,000.00	100.00	92,222.20
2.2.1.13 Issues, Cost and Schedule	40	40	16	16	40	16	16	8	16	8	216	17,069.04	5,291.40	22,360.44	24,596.49	46,956.93	2,347.85	0.00	100.00	49,404.78
2.2.1.14 Design Memo 14 - Facility Operations and Maintenance	24		10	70		12	12			24	232	18,584.92	5,761.33	24,346.25	26,780.87	51,127.11	2,556.36			53,783.47
2.2.2 Preliminary Design Drawings 2.3 Value Engineering Assistance	40	40	24	24	40	80	80	40	80		448	31,870.64	9,879.90	41,750.54	45,925.59	87,676.13	4,383.81	0.00 8,651.76		93,059.94
2.3.1 Workshop Participation	16	16	16	8	8						64	5,893.60	1,827.02	7,720.62	8,492.68	16,213.29	810.66	,	100.00	44,172.63
2.3.2 Review of Value Engineering Recommendations (200 hrs allowance)	60	60	40	20	20						200	18,510.20	5,738.16	24,248.36	26,673.20	50,921.56	2,546.08			53,467.64
2.4 Not Used 2.5 Permitting Assistance																		0.00		
2.5.1 SCAQMD Permitting																		6,140.00		
Demonstration of Compliance with New Source Review for Citeria 2.5.1.1 Pollutants (SCAQMD Reg. XIII)	16	16			40	16				8	96	7,149.76	2,216.43	9,366.19	10,302.80	19,668.99	983.45	7,980.00		28,632.44
Demonstration of Compliance with New Source Review for Air Toxics 2.5.1.2 (SCAQMD Rule 1401)	16	16			40	16				8	96	7,149.76	2,216.43	9,366.19	10,302.80	19,668.99	983.45	7,600.00		28,252.44
2.5.1.3 Demonstration of Compliance with SCAQMD Rule 1403	8	8			16	4				4	40	3,035.28	940.94	3,976.22	4,373.84	8,350.06	417.50			10,407.56
2.5.1.4 Demonsration of Compliance with Odor Nuisance (SCAQMD Rule 402)2.5.1.5 Planning and Design Strategies for Air Pollution Control System	24	4			8 40	8 40				4 16	28 144	1,967.76 10,460.72	610.01 3,242.82	2,577.77 13,703.54	2,835.54 15,073.90	5,413.31 28,777.44	270.67 1,438.87	6,240.00 6,540.00		11,923.97 36,756.31
2.5.1.6 Demonstration of Compliance with SCAQMD Rule 212	1	1			2	40	2			1	7	474.48	147.09	621.57	683.73	1,305.29	65.26			4,360.56
2.5.2 Navy Permitting	8	12			24	24				4	72	5,239.52	1,624.25	6,863.77	7,550.15	14,413.92	720.70			15,234.62
2.5.3 City of Seal Beach Permitting 2.5.4 Coastal Commission Permitting	8 9	12			24 24	24 24				4	72	5,239.52 5,239.52	1,624.25 1,624.25	6,863.77 6,863.77	7,550.15 7,550.15	14,413.92 14,413.92	720.70 720.70			15,634.62 19,170.48
2.5.5 Stormwater Permitting	4	. 4			40	20				4	72	5,006.36	1,551.97	6,558.33	7,330.15	13,772.50	688.62			14,561.12
2.6 Project Management																		9,770.40		
2.6.1 Project Management Plan 2.6.2 Project Management Progress Meetings	24		ŭ	8	24 24					12 24	100	8,145.64 7,035.12	2,525.15 2,180.89	10,670.79 9,216.01	11,737.87 10,137.61	22,408.66 19,353.62	1,120.43 967.68			23,529.09 37,631.54
2.6.3 Project Schedule	24				24					4	76	6,368.52	1,974.24	8,342.76	9,177.04	17,519.80	875.99			18,395.79
2.6.4 Project Logs	24				40					8	96	7,637.68	2,367.68	10,005.36	11,005.90	21,011.26	1,050.56			22,061.82
2.6.5 Progress Reports 2.6.6 Project Invoices	16	16			16					8 12	56 36	4,423.44 2,665.68	1,371.27 826.36	5,794.71 3,492.04	6,374.18 3,841.24	12,168.88 7,333.29	608.44 366.66			12,777.33 7,699.95
2.6.7 Management of Subconsultants	40	40	24		40					40	184	14,107.92	4,373.46	18,481.38	20,329.51	38,810.89	1,940.54			40,751.43
2.6.8 Coordination with Other Projects	24	24	12		24	12					96	8,193.48	2,539.98	10,733.46	11,806.80	22,540.26	1,127.01			23,667.28
2.7 Risk Management 2.7.1 Risk Mitigation Measure Log	16	16			16					ρ	56	4,423.44	1,371.27	5,794.71	6,374.18	12,168.88	608.44	7,799.81 0.00		12,777.33
2.7.2 Risk Monitoring Updates	24	10			24					8	80	6,501.84	2,015.57	8,517.41	9,369.15	17,886.56	894.33			18,780.89
2.8 PDR Production Workshops and Meetings																		13,535.68		
2.8.1 PDR Production Workshops 2.8.1.1 Predesign Kickoff Workshop	8	12	8	8	12	8				4	60	4,875.56	1,511.42	6,386.98	7,025.68	13,412.67	670.63	58,836.54 0.00		14,183.30
2.8.1.2 Preliminary Design Risk Management Workshop	8	8 8	4	4	12	4				4	44	3,506.56	1,087.03	4,593.59	5,052.95	9,646.55				10,228.87
2.8.1.3 PDR Constructability Workshop	16	10	16	16	16	16				4	100	8,333.64	2,583.43	10,917.07	12,008.78	22,925.84	1,146.29	0.00	100.00	24,172.14
2.8.1.4 PDR Review Workshops 2.8.2 Preliminary Design Phase Meetings	16	32	16	16	16					8	104	8,876.88	2,751.83	11,628.71	12,791.58	24,420.30	1,221.01	0.00		25,741.31
2.8.2 Preliminary Design Phase Meetings 2.8.2.1 Technical Progress Meetings	20	20	12	12	20	8				12	104	8,372.96	2,595.62	10,968.58	12,065.44	23,034.01	1,151.70			24,185.71
2.8.2.2 Project Management Progress Meetings			includ	led in 2.6.2		3					0	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00
2.8.2.3 PDR Phase Focused Meetings	4	. 4	4	4	4	4				2	26	2,116.74	656.19	2,772.93	3,050.22	5,823.15	291.16	0.00	100.00	6,214.31

Final November 07, 2019

Seal Beach Pump Station Replacement, Project No. 3-67

Attachment I - Cost Matrix

						Labor h	ours														
Task Item	Project	Manager	Project Engineer	Lead Electrical	Lead I&C Eng.	Engineer	Associate Engineer	Assistant Engineer	Sr. CAD Designer	Assoc. CAD Designer	Adm. Assistant	Total Hours	Raw Labor	Fringe Costs	Burdened Labor	Overhead	Burdened Labor & Overhead	Profit		Allowable Direct Costs	
2.8.2.4 Stormwater Compliance Meeting 2.8.2.5 Project Coordination Meeting		16	1 24	0	0	1	32				1	112	357.04 8,695.28	110.68 2,695.54	467.72 11,390.82	514.49 12,529.90	982.22 23,920.72	49.11 1,196.04	0.00		1,131.33 25,216.75
2.8.2.6 Permit Agency Coordination Meetings		2	4	0	0	8	32				2	16	1,191.26	369.29	1,560.55	1,716.61	3,277.16	163.86		100.00	14,001.01
2.9 Quality Control		80	40	40	40						_	200	19,076.00	5,913.56	24,989.56	27,488.52	52,478.08	2,623.90	25,174.94	100.00	80,276.92
2.10 Community Outreach		8	8			8					4	28	2,211.72	685.63	2,897.35	3,187.09	6,084.44	304.22	13,277.59	100.00	19,766.25
Subtotal - Phase 2 - Preliminary Design		900	1,022	492	392	1,159	781	634	564	664	366	6974	523,185.68	162,187.56	685,373.24	753,910.56	1,439,283.81	71,964.19	1,202,251.57	10,600.00	2,724,099.56
PHASE 3 - FINAL DESIGN																					
3.1 Bid Documents																			141,965.69		
3.1.1 Specifications 3.1.1.1 Contract Agreement, General Conditions and Special Provisions		16	16			12	12				8	64	4,906.40	1,520.98	6,427.38	7,070.12	13,497.51	674.88	0.00 0.00		14,172.38
3.1.1.2 General Requirements and Additional General Requirements		12	12			8	12				2	46	3,667.22	1,136.84	4,804.06	5,284.46	10,088.52	504.43			10,592.95
3.1.1.3 Technical Specifications		120	120	120	120	160	240	240			120	1240	89,254.00	27,668.74	116,922.74	128,615.01	245,537.75		0.00		257,814.64
3.1.2 Drawings		116		140	140	464		584	760			3984	274,356.88	85,050.63	359,407.51	395,348.26	754,755.78		53,812.74	5,000.00	851,306.31
3.1.3 Building Information Model (BIM) 3.1.4 Commissioning Plan Materials		24	24	24	16	24	40	200	160	240		752	48,908.40	15,161.60	64,070.00	70,477.00	134,547.01	6,727.35	0.00 31,849.00		141,274.36
3.1.4 Commissioning Plan Materials 3.1.4.1 ORT Procedures		ρ	ρ	12	16	24	16				4	88	6,993.96	2,168.13	9,162.09	10,078.30	19,240.38	962.02	31,849.00		20,202.40
3.1.4.2 FAT Procedures		8	8	12	16	24					4	88	,	2,168.13	9,162.09	10,078.30	19,240.38		0.00		20,202.40
3.1.4.3 RAT Procedure Specification		8	8	12	16	24					4	88		2,168.13	9,162.09	10,078.30	19,240.38	962.02	0.00		20,202.40
3.1.5 Equipment and Instrumentation Databases (EIDs)		4	8	8	8	24		40			8	140	0,001.01	2,900.93	12,258.77	13,484.65	25,743.42		0.00		27,030.59
3.1.6 SCADA Access Tables (SAT)		8	8	16	40	40					16	128	10,053.04	3,116.44	13,169.48	14,486.43	27,655.91	1,382.80	0.00		29,038.71
3.2 Design Support Documentation 3.2.1 Design Information		40	40	16	16	40	40				24	246	16,769.28	5,198.48	21,967.76	24,164.53	46,132.29	2,306.61	93,925.80 17,843.40		66,282.30
3.2.1 Design Information 3.2.2 Facility Operation and Maintenance		40 8	12	12	10	24					8	216 88		2,130.21	9,001.85	9,902.03	18,903.88	945.19	0.00		19,849.08
3.2.3 Electrical Design Documentation		12	4	40	12	Z -1	12	16			8	80	6,670.20	2,067.76	8,737.96	9,611.76	18,349.72	917.49			19,267.21
3.2.4 Instrumentation and Controls		12	4		40			16			8	80	6,280.20	1,946.86	8,227.06	9,049.77	17,276.83	863.84	0.00		18,140.67
3.2.5 Construction Cost Estimates		16	24	12	12	40	40	40			8	192	13,872.76	4,300.56	18,173.32	19,990.65	38,163.96	1,908.20	0.00		40,072.16
3.2.6 Construction Schedule		40	40	16	16	40	40				8	200	,	5,033.16	21,269.16	23,396.08	44,665.24		0.00		46,898.50
3.2.7 Procurement Alternatives		24	24		16	40 16		40			8	208 62	,	4,780.89 1,497.01	20,203.13 6,326.07	22,223.45 6,958.68	42,426.58 13,284.74		0.00		44,547.91 13,948.98
3.2.8 Final Design Report 3.3 Specialty Services		8	16	4	4	10	8				О	62	4,829.06	1,497.01	6,326.07	6,958.68	13,284.74	664.24	0.00		13,948.98
3.3.1 Topographic Survey Services			Included	in Task 2.2.	1.1 Desiar	n Memo 1	- Trunk Sew	er Alianme	ent and PS	Base Map									0.00		
3.3.2 Fire Protection Services		8	4	4	4	4	2	· J		4		30	2,540.10	787.43	3,327.53	3,660.28	6,987.82	349.39	23,360.00		30,697.21
3.3.3 Utility Survey and Coordination Services			Included	in 2.2.1.5 D	esign Mer	no 5 - Civi	l, Landscapi	ng, Irrigatio	on, Noise a	and Utilities									0.00		
3.3.4 Landscape Architecture		2	4			8	8	16		8		46	2,960.20	917.66	3,877.86	4,265.65			,		37,310.69
3.3.5 Noise Evaluation Services 3.3.6 Traffic Control Services		2	4			8	8	16		16		46	2,960.20 2,020.82	917.66 626.45	3,877.86 2,647.27	4,265.65 2,912.00	8,143.51 5,559.28	407.18 277.96	5,550.00 40,000.00		14,100.69 45,837.24
3.3.7 Additional Shoring Design		40	80			40	40	40		40		280		6,492.64			57,616.94		0.00	500.00	60,997.79
3.3.8 Groundwater Monitoring Design		4	12			4	16	16		16	4	72	4,677.08	1,449.89	6,126.97	6,739.67	12,866.65	643.33	32,630.00	500.00	46,639.98
3.4 Design Submittals		8	24			24	24	24	80	80	40	304	19,263.68	5,971.74	25,235.42	27,758.96	52,994.38	2,649.72	44,907.52	5,000.00	105,551.62
3.5 Bid Support Services																			21,801.37		
3.5.1 Bid Phase Activities		8	12	4	4	24	12		8	8	8	88	0, .00 =	1,985.15	8,388.87	9,227.76	17,616.63				28,639.89
3.5.2 Bid Evaluation Assistance 3.5.3 Conformed Document Preparation		4	4	2	2	8	Ω	24	40	40	16	22 148	.,	547.91 2,877.56	2,315.35 12,160.02	2,546.88 13,376.02	4,862.23 25,536.05		0.00		5,105.34 26,812.85
3.6 Project Management		+	+					24	40	40	10	140	3,202.40	۷,011.00	12,100.02	10,070.02	20,000.00	1,210.00	9,770.40		20,012.00
3.6.1 Project Management Plan	Same	as <u>2</u> .6.1										0	0.00	0.00					0.00	100.00	
3.6.2 Project Management Progress Meetings		40	40			40					40	160	11,725.20	3,634.81	15,360.01	16,896.01	32,256.03				
3.6.3 Project Schedule		24	40			40					8	112	9,070.16	2,811.75	11,881.91	13,070.10	24,952.01	1,247.60			26,299.61
3.6.4 Project Logs 3.6.5 Progress Reports		40 24	40			80					24 24	184 120	14,031.52 8,738.88	4,349.77 2,709.05	18,381.29 11,447.93	20,219.42 12,592.73	38,600.71 24,040.66	1,930.04 1,202.03	0.00		40,630.75 25,342.69
3.6.6 Project Invoices		24				40					24	72	5,331.36	1,652.72	6,984.08	7,682.49	14,666.57	733.33	0.00		15,499.90
3.6.7 Management of Subconsultants	1	40	:	24		40					40	184	· ·	4,373.46	18,481.38	20,329.51	38,810.89	1,940.54	0.00		
3.6.8 Coordination with Other Projects		24	24	12		24	12					96	8,193.48	2,539.98	10,733.46	11,806.80	22,540.26	1,127.01	0.00		23,767.28
3.7 Risk Management Assistance																			7,799.81		
3.7.1 Risk Management Plan		24				12					8	80	6,416.88	1,989.23	8,406.11	9,246.72	17,652.84		0.00		18,635.48
3.7.2 Risk Mitigation Measure Log 3.7.3 Risk Monitoring Updates		16 24	10			24 16					8	88 88	0,020:20	2,022.81 2,156.51	8,548.01 9,112.99	9,402.81 10,024.29	17,950.83 19,137.28				
3.7.3 Risk Monitoring Opdates 3.8 Workshops and Meetings	 	24	24			10	10				0	00	0,930.40	۷,۱۵۵.۵۱	3,112.33	10,024.29	13,131.20	30.00	14,535.68	100.00	20, 134.14
3.8.1 Design Phase Workshops																		<u> </u>	1,422.82		
3.8.1.1 Design Submittal 1 Workshops																		<u> </u>	0.00		
3.8.1.1.1 DS1 Review Kickoff Workshop		8	8	8	8	8	8				2	50	4,166.82	1,291.71	5,458.53	6,004.39	11,462.92		0.00		12,136.07
3.8.1.1.2 DS1 Validation Workshop		8	8	8	8	8	8				2	50	4,166.82	1,291.71	5,458.53	6,004.39	11,462.92	573.15	0.00		12,136.07
3.8.1.2 Design Submittal 2 Workshops		^				_							4.400.00	4 004 74	E 450.50	0.004.00	44 400 00	F70.45	0.00		40.400.07
3.8.1.2.1 DS2 Review Kickoff Workshop		8	8	8	8	8	8				2	50	4,166.82	1,291.71	5,458.53	6,004.39	11,462.92	573.15	0.00	100.00	12,136.07

2 of 3 Final November 07, 2019

Seal Beach Pump Station Replacement, Project No. 3-67

Attachment I - Cost Matrix

Labor hours																				
Task Item	Project Manager	Project Engineer	Lead Electrical	Lead I&C Eng.	Engineer	Associate Engineer	Assistant Engineer	Sr. CAD Designer	Assoc. CAD Designer	Adm. Assistant	Total Hours	Raw Labor	Fringe Costs	Burdened Labor	Overhead	Burdened Labor & Overhead	Profit	Total Subs	Allowable Direct Costs	Total Fees
3.8.1.2.2 DS2 Validation Workshop	8	8	8	8	8	8				2	50	4,166.82	1,291.71	5,458.53	6,004.39	11,462.92	573.15	0.00	100.00	12,136.07
3.8.1.3 Design Submittal 3 Workshops																		0.00		
3.8.1.3.1 DS3 Review Kickoff Workshop	8	8	8	8	8	8				2	50	4,166.82	1,291.71	5,458.53	6,004.39	11,462.92	573.15	0.00	100.00	12,136.07
3.8.1.3.2 DS3 Validation Workshop	8	8	8	8	8	8				2	50	4,166.82	1,291.71	5,458.53	6,004.39	11,462.92	573.15	0.00	100.00	12,136.07
3.8.1.4 Final Design Submittal Workshops																		0.00		
3.8.1.4.1 FDS Review Kickoff Workshop	8	8	8	8	8	8				2	50	4,166.82	1,291.71	5,458.53	6,004.39	11,462.92	573.15	5,000.00	100.00	17,136.07
3.8.1.4.2 FDS Validation Workshop	8	8	8	8	8	8				2	50	4,166.82	1,291.71	5,458.53	6,004.39	11,462.92	573.15	0.00	100.00	12,136.07
3.8.1.5 Constructability Workshop	24	24	24	24	24	24				4	148	12,433.80	3,854.48	16,288.28	17,917.11	34,205.38	1,710.27	5,000.00	100.00	41,015.65
3.8.2 Design Phase Meetings																		0.00		
3.8.2.1 Technical Progress Meetings	24	24	12	12	40	16				8	136	10,925.96	3,387.05	14,313.01	15,744.31	30,057.32	1,502.87			31,660.18
3.8.2.2 Focussed Meetings	16	16	8	8	24					4	76	6,368.52	1,974.24	8,342.76	9,177.04	17,519.80	875.99	0.00		18,495.79
3.8.2.3 Commissioning Team Meetings	16	16	16	16	16	16				4	100	8,333.64	2,583.43	10,917.07	12,008.78	22,925.84	1,146.29		100.00	24,172.14
3.8.2.4 Safety and Risk Meeting	4	4	3	3	4	4				1	23	1,894.60	587.33	2,481.93	2,730.12	5,212.04	260.60	0.00	100.00	5,572.65
3.8.2.5 Consultant Office Technical Meetings (COTMs)	8	8	4	4	12					2	38	3,184.26	987.12	4,171.38	4,588.52	8,759.90	437.99	0.00	100.00	9,297.89
3.9 Quality Control	320	200	120	120							760	72,332.80	22,423.17	94,755.97	104,231.56	198,987.53	9,949.38	28,959.43	50.00	237,946.34
3.10 Permitting Assistance	8	12			24	40	24			8	116	7,719.72	2,393.11	10,112.83	11,124.12	21,236.95	1,061.85	69,149.89	50.00	91,498.68
Subtotal - Phase 3 Final Design	1,330	1,510	759	751	1,668	1,486	1,340	1,048	1,356	545	11793	868,881.68	269,353.32	1,138,235.00	1,252,058.50	2,390,293.50	119,514.68	700,342.62	13,600.00	3,223,750.80
TOTAL - PHASES 2 AND 3 Rounded - Use for Attach E - Fee Proposal Form	2,230	2,532	1,251	1,143	2,827	2,267	1,974	1,612	2,020	911	18767	1,392,067.36 1,392,067.00	431,540.88 431,541.00	1,823,608.24 1,823,608.00	2,005,969.07 2,005,969.00	3,829,577.31 3,829,577.00	191,478.87 191,479.00	1,902,594.19 1,902,594.00	24,200.00 24,200.00	5,947,850.36 5,947,850.00

Final November 07, 2019

Seal Beach Pump Station Replacement, Project No. 3-67 Professional Design Services Agreement - Brierley & Associates Attachment I - Cost Matrix

						Labor hours	S															
Task Item	Principal or Senior Consultant II	Senior Associate or Senior Consultant I	Associate or Senior Project Manager Senior	Professional II Senior Professional	Professional II	Professional I	Staff Professional II	Staff Professional I	BIM/VDC Manager	Senior BIM/VDC Designer	BIM Technican or Drafter	Admin	Total Hours	Raw Labor	Fringe Costs	Burdened Labor	Overhead Cost	Burdened Labor & Overhead	Profit	Total Subs	Allowable Direct Costs	Total Fees
Average Actual Salary Fully Burdened Hourly Rate (includes payroll costs, OH, and Profit)	109.00	92.00	82.00 67	7.00 57.00	51.00	45.00	42.00	34.00	61.00	40.00	38.00	25.10			74.06%		38.64%		9.64%			
PHASE 2 - PRELIMINARY DESIGN																						
2.1 Not Used													0	0.00	0.00	0.00	0.00	0.00	0.00			0.00
2.2 Preliminary Design Production	120		120		120				60	120	120		660	42,060.00	31,149.64	73,209.64	28,288.20	101,497.84	9,784.39			111,282.23
2.3 Value Engineering Assistance	30												30	3,270.00	2,421.76	5,691.76	2,199.30	7,891.06	760.70			8,651.76
2.4 Not Used													0	0.00	0.00	0.00	0.00	0.00	0.00			0.00
2.5 Permitting Assistance													0	0.00	0.00	0.00			0.00			0.00
2.6 Project Management	20		16									8	44	3,692.80	2,734.89	6,427.69		8,911.35	859.05			9,770.40
2.7 Risk Management	12		20										32	2,948.00	2,183.29	5,131.29		7,114.02	685.79			7,799.81
2.8 PDR Production Workshops and Meetings	40												40	4,360.00	3,229.02	7,589.02	2,932.40	10,521.41	1,014.26		2,000.00	13,535.68
2.9 Quality Control	32			4	0				40				112	0,200.00	6,078.84	14,286.84	5,520.44	19,807.28	1,909.42			21,716.70
2.10 Community Outreach													0	0.00	0.00	0.00	0.00	0.00	0.00			0.00
Subtotal - Phase 2 - Preliminary Design	254	0	156	0 4	0 120	0	0	0	100	120	120	8	918	64,538.80	47,797.44	112,336.24	43,406.72	155,742.96	15,013.62	0.00	2,000.00	172,756.58
PHASE 3 - FINAL DESIGN																						
3.1 Bid Documents	120		80		60				40	80	160		540	34,420.00	25,491.45	59,911.45	23,149.79	83,061.24	8,007.10			91,068.34
3.2 Design Support Documentation	120		120		160				20	80			500	35,500.00	· · · · · · · · · · · · · · · · · · ·	61,791.30	23,876.16	85,667.46	8,258.34			93,925.80
3.3 Specialty Services													0	0.00		0.00		0.00	0.00			0.00
3.4 Design Submittals	20		40						20	20	20	20	140	8,742.00	6,474.33	15,216.33	5,879.59	21,095.91	2,033.65			23,129.56
3.5 Bid Support Services	20		40						20	20	20		120	8,240.00	6,102.54	14,342.54	5,541.96	19,884.50	1,916.87			21,801.37
3.6 Project Management	20		16									8	44	3,692.80	2,734.89	6,427.69	2,483.66	8,911.35	859.05			9,770.40
3.7 Risk Management	12		20										32	2,948.00	2,183.29	5,131.29	1,982.73	7,114.02	685.79			7,799.81
3.8 Workshops and Meetings	40												40	4,360.00	3,229.02	7,589.02	2,932.40	10,521.41	1,014.26		3,000.00	14,535.68
3.9 Quality Control	32			4	0				40				112	0,200.00	6,078.84	14,286.84	5,520.44	19,807.28	1,909.42			21,716.70
3.10 Permitting Assistance													0	0.00	0.00	0.00	0.00	0.00	0.00			0.00
Subtotal - Phase 3 Final Design	384	0	316	0	0 220	0	0	0	140	200	200	28	1528	106,110.80	78,585.66	184,696.46	71,366.71	256,063.17	24,684.49	0.00	3,000.00	283,747.66
TOTAL - PHASES 2 AND 3 Rounded - Use for Attach E - Fee Proposal Form	638	0	472	0	0 340	0	0	0	240	320	320	36	2446	170,649.60 170,650.00		297,032.69 297,033.00		411,806.13 411,806.00	39,698.11 39,698.00	0.00 0.00	5,000.00 5,000.00	456,504.24 456,504.00

Profit Calculations		
Min Threshold	250,000	10%
Max Threshold	2,500,000_	5%
Proposed Burdened Labor & Overhead	411,806.13	9.64%

0.1

0.0964

Seal Beach Pump Station Replacement, Project No. 3-67 Professional Design Services Agreement - Atkins Attachment I - Cost Matrix

			L	abor hour	S												
Task Item	Project Manager	aA/ac	Senior Engineer	Project engineer	Engineer III	CAD/BIM	Support	Total Hours	Raw Labor	Fringe Costs	Burdened Labor	Overhead Cost	Burdened Labor & Overhead	Profit	Total Subs	Allowable Direct Costs	Total Fees
Average Actual Salary Fully Burdened Hourly Rate (includes payroll costs, OH, and Profit)	108.02	70.20	79.49	52.85	45.71	52.67	33.34			34.43%		103.28%		10.00%			
PHASE 2 - PRELIMINARY DESIGN																	
2.4 Not Hood								0	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
Not Used Preliminary Design Production	24	106	198	100	128	160	16	732		15,793.15	61,663.18	63,685.80	125,348.98	12,534.90		250.00	138,133.87
2.3 Value Engineering Assistance	40	100	190	160		0		56	· ·		6,945.22	7,173.03	14,118.24	1,411.82		0.00	
2.4 Not Used	70	0		'0				0	0.00		0.00	0.00	0.00	0.00		0.00	0.0
2.5 Permitting Assistance	0	0	0	0	0	0	0	0	0.00		0.00	0.00	0.00	0.00			0.00
2.6 Project Management	30	0	0	0	0	0	0	30			4,356.41	4,499.31	8,855.72	885.57			9,741.2
2.7 Risk Management	0	0	0	0	0	0	0	0	0.00		0.00	0.00	0.00	0.00			0.00
2.8 PDR Production Workshops and Meetings	40	0	32	40	16	0	0	128	9,709.88		13,053.01	13,481.16	26,534.18	2,653.42		500.00	
2.9 Quality Control								0	0.00		0.00	0.00	0.00	0.00			0.00
2.10 Community Outreach	0							0	0.00	0.00	0.00	0.00	0.00	0.00			0.00
Subtotal - Phase 2 - Preliminary Design PHASE 3 - FINAL DESIGN	134	106	230	156	144	160	16	946	63,986.98	22,030.84	86,017.82	88,839.29	174,857.11	17,485.71	0.00	750.00	193,092.82
3.1 Bid Documents	8	30	88	36	26	72	0	260	16,848.96	5,801.13	22,650.10	23,393.04	46,043.14	4,604.31		250.00	50,897.45
3.2 Design Support Documentation							Ŭ	0	0.00	· ·	0.00	0.00	0.00	0.00		200.00	0.00
3.3 Specialty Services								0	0.00		0.00	0.00	0.00				0.0
3.4 Design Submittals								0	0.00				0.00				0.0
3.5 Bid Support Services								0	0.00	0.00	0.00	0.00	0.00	0.00			0.0
3.6 Project Management	8	0	0	0	0	0	0	8	864.17	297.54	1,161.71	1,199.82	2,361.52	236.15		100.00	2,697.6
3.7 Risk Management								0	0.00	0.00	0.00	0.00	0.00	0.00			0.0
3.8 Workshops and Meetings								0	0.00		0.00	0.00	0.00				0.00
3.9 Quality Control								0	0.00				0.00				0.00
3.10 Permitting Assistance	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00			0.00
Subtotal - Phase 3 Final Design	16	30	88	36	26	72	0	268	17,713.14	6,098.67	23,811.81	24,592.86	48,404.66	4,840.47	0.00	350.00	53,595.13
TOTAL - PHASES 2 AND 3 Rounded - Use for Attach E - Fee Proposal Form	150	136	318	192	170	232	16	1214	81,700.11 81,700.00	28,129.51 28,130.00	109,829.63 109,830.00		223,261.77 223,262.00	22,326.18 22,326.00	0.00 0.00		

Profit Calculations		
Min Threshold	250,000	10%
Max Threshold	2,500,000	5%
Proposed Burdened Labor & Overhead	223,261.77	10.00%

Contains *private* information

Seal Beach Pump Station Replacement, Project No. 3-67 Professional Design Services Agreement - Northwest Hydraulic Consultants Attachment I - Cost Matrix

					Labo	or hours														
Task Item	Principal	Principal T3	Sr. Engineer 2	Project Engineer 2	Jr. Engineer	Sr. Engineerin g Technician	GIS Analyst 2	Sr. Laboratory Technician	Sr. Document Production /Finance		Total Hours	Raw Labor	Fringe Costs	Burdened Labor	Overhead Cost	Burdened Labor & Overhead	Profit	Total Subs	Allowable Direct Costs	Total Fees
Average Actual Salary Fully Burdened Hourly Rate (includes payroll costs, OH, and Profit)	71.86	66.99	47.39	35.02	31.48	40.33	30.46	31.00	31.57				59.98%		81.12%		10.00%			
PHASE 2 - PRELIMINARY DESIGN	Axworthy, Demlow, Fehlman , Christison	Hurtig	Blezy	Lewis	Gombert, Houston	Sampson , Reynolds	Но	Diaz, Jomal, Moon, Lemaire, Co- op	Nissim											
2.1 Not Used											0	0.00	0.00	0.00	0.00	0.00	0.00			0.00
2.2 Preliminary Design Production											0	0.00	0.00	0.00		0.00	0.00			0.00
Physical Modeling of Pump Station	10	45			188	136	58	438	1		876	30,512.52	18,301.41	48,813.93	39,597.86	88,411.79	8,841.18		21,258.00	118,510.97
Conceptual Design Review of Pump Station (Optional)	12	6	32				6				56	2,963.50	1,777.51	4,741.01	3,845.91	8,586.91	858.69			9,445.60
Surge Analysis	34			60	90				2		186	7,440.78	4,462.98	11,903.76	9,656.33	21,560.09	2,156.01		325.00	24,041.10
Physical Modeling of Junction Box	7	41			171	112	50	294	1		676	23,818.22	14,286.17	38,104.39	30,910.28	69,014.67	6,901.47		26,658.00	102,574.14
2.3 Value Engineering Assistance											0	0.00	0.00	0.00	0.00	0.00	0.00			0.00
2.4 Not Used											0	0.00	0.00	0.00			0.00			0.00
2.5 Permitting Assistance											0	0.00	0.00	0.00			0.00			0.00
2.6 Project Management											0	0.00	0.00	0.00			0.00			0.00
2.7 Risk Management											0	0.00	0.00	0.00			0.00			0.00
2.8 PDR Production Workshops and Meetings											0	0.00	0.00	0.00			0.00			0.00
2.9 Quality Control											0	0.00	0.00	0.00			0.00			0.00
2.10 Community Outreach											0	0.00	0.00	0.00	0.00	0.00	0.00			0.00
Subtotal - Phase 2 - Preliminary Design	63	92	32	60	449	248	114	732	4	0	1794	64,735.02	38,828.06	103,563.08	84,010.37	187,573.46	18,757.35	0.00	48,241.00	254,571.81
PHASE 3 - FINAL DESIGN																				
3.1 Bid Documents											11	0.00	0.00	0.00	0.00	0.00	0.00			0.00
3.2 Design Support Documentation											12	0.00	0.00	0.00			0.00			0.00
3.3 Specialty Services											13	0.00	0.00	0.00	0.00		0.00			0.00
3.4 Design Submittals											14	0.00	0.00	0.00		0.00	0.00			0.00
3.5 Bid Support Services											15	0.00		0.00						0.00
3.6 Project Management											16	0.00		0.00						0.00
3.7 Risk Management											17	0.00		0.00	0.00					0.00
3.8 Workshops and Meetings											18	0.00	0.00	0.00	0.00					0.00
3.9 Quality Control											19	0.00		0.00						0.00
3.10 Permitting Assistance											20	0.00	0.00	0.00	0.00	0.00	0.00			0.00
Subtotal - Phase 3 Final Design	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL - PHASES 2 AND 3 Rounded - Use for Attach E - Fee Proposal Form	63	92	32	60	449	248	114	732	4	0	1794	64,735.02 64,735.00	38,828.06 38,828.00	103,563.08 103,563.00		187,573.46 187,573.00				

Profit Calculations		
Min Threshold	250,000	10%
Max Threshold	2,500,000	5%
Proposed Burdened Labor & Overhead	187,573.46	10.00%

Page 1 of 1 Final November 07, 2019

Seal Beach Pump Station Replacement, Project No. 3-67 Professional Design Services Agreement - SwiftLEE Office Attachment I - Cost Matrix

		Labor hours															
Task Item	Principal	Project Manager	Project Architect	Project Designer	JR. DESIGNER/ CADD	Office Manager	Administrativ e Support	Total Hours	Raw Labor	Fringe Costs	Burdened Labor	Overhead Cost	Burdened Labor & Overhead	Profit	Total Subs	Allowable Direct Costs	Total Fees
Average Actual Salary Fully Burdened Hourly Rate (includes payroll costs, OH, and Profit)	70.00	63.00	61.00	35.25	31.00	45.00	31.95			9.50%		130.00%		10.00%			
PHASE 2 - PRELIMINARY DESIGN																	
2.1 Not Used								0	0.00	0.00	0.00	0.00	0.00	0.00			0.00
2.2 Preliminary Design Production		20	60	60	60		† †	200	8,894.52		9,739.50	12,661.35	22,400.85	2,240.08		500.00	25,140.93
2.3 Value Engineering Assistance		16	20				1	96	4,172.78		4,569.19	5,939.95	10,509.15	1,050.91		250.00	11,810.06
2.4 Not Used								0	0.00		0.00	0.00	0.00	0.00			0.00
2.5 Permitting Assistance			16		16			32	1,471.95		1,611.79	2,095.32	3,707.11	370.71			4,077.82
2.6 Project Management		40						40	2,520.00		2,759.40	3,587.22	6,346.62	634.66			6,981.28
2.7 Risk Management								0	0.00		0.00		0.00	0.00			0.00
2.8 PDR Production Workshops and Meetings		20	8	8			20	56	2,669.04	253.56	2,922.60	3,799.38	6,721.98	672.20		500.00	7,894.17
2.9 Quality Control			20					20	1,220.00	115.90	1,335.90	1,736.67	3,072.57	307.26			3,379.83
2.10 Community Outreach		16						16	1,008.00	95.76	1,103.76	1,434.89	2,538.65	253.86		250.00	3,042.51
Subtotal - Phase 2 - Preliminary Design	0	112	124	88	116	0	20	460	21,956.29	2,085.85	24,042.14	31,254.78	55,296.92	5,529.69	0.00	1,500.00	62,326.61
PHASE 3 - FINAL DESIGN																	
3.1 Bid Documents		20	40	40	40		8	148	6,605.31	627.50	7,232.82	9,402.66	16,635.48	1,663.55			18,299.03
3.2 Design Support Documentation		20	40	40	40			140	6,349.68	603.22	6,952.90	9,038.77	15,991.67	1,599.17		500.00	18,090.84
3.3 Specialty Services								0	0.00	0.00	0.00	0.00	0.00	0.00			0.00
3.4 Design Submittals		20	40	60	60		8	188	7,930.15	753.36	8,683.52	11,288.57	19,972.09	1,997.21		500.00	22,469.30
3.5 Bid Support Services		12	32		32			76	3,699.90	351.49	4,051.39	5,266.81	9,318.21	931.82			10,250.03
3.6 Project Management		40						40	2,520.00		2,759.40	3,587.22	6,346.62	634.66			6,981.28
3.7 Risk Management								0	0.00		0.00	0.00	0.00	0.00			0.00
3.8 Workshops and Meetings		24	24					72	3,821.88	363.08	4,184.96	5,440.45	9,625.40	962.54		500.00	11,087.95
3.9 Quality Control		20	20					40	2,480.00	235.60	2,715.60		6,245.88	624.59			6,870.47
3.10 Permitting Assistance			24					24	1,464.00	139.08	1,603.08	2,084.00	3,687.08	368.71			4,055.79
Subtotal - Phase 3 Final Design	0	156	220	164	172	0	16	728	34,870.93	3,312.74	38,183.67	49,638.77	87,822.43	8,782.24	0.00	1,500.00	98,104.68
TOTAL - PHASES 2 AND 3 Rounded - Use for Attach E - Fee Proposal Form	0	268	344	252	288	0	36	1188	56,827.22 56,827.00		62,225.81 62,226.00		143,119.35 143,120.00	14,311.94 14,312.00			160,431.29 160,432.00

Profit Calculations		
Min Threshold	250,000	10%
Max Threshold	2,500,000	5%
Proposed Burdened Labor & Overhead	143,119.35	10.00%

Page 1 of 1 Final November 07, 2019

Seal Beach Pump Station Replacement, Project No. 3-67 Professional Design Services Agreement - T2 UES, Inc. (Cardno) Attachment I - Cost Matrix

	Labor hours																				
Task Item	Project Engineer	Sr. Project Manager	Project Manager	CAD Supervisor	CAD Tech	SUE Tech (PW)	Survey Party Chief (PW)	Survey Chainman (PW)	Project Surveyor	Admin Support	SUE Manager	Total Hours	Raw Labor	Fringe Costs	Burdened Labor	Overhead	Burdened Labor & Overhead	Profit	Total Subs	Allowable Direct Costs	Total Fees
Average Actual Salary Fully Burdened Hourly Rate (includes payroll costs, OH, and Profit)	60.00	75.00	55.00	45.00	35.00	36.89	48.86	45.78	55.00	30.00	50.00			61.22%		118.26%		10.00%			
PHASE 2 - PRELIMINARY DESIGN																					
2.1 Not Used												0	0.00	0.00	0.00	0.00	0.00	0.00			0.00
2.2 Preliminary Design Production	40	20	32	80	80	500	80	80	16	16	60	1004	42,436.20	25,979.53	68,415.73	80,908.44	149,324.16	14,932.42	44,000.00	18,000.00	226,256.58
2.3 Value Engineering Assistance												0	0.00	0.00	0.00		,	0.00	,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0.00
2.4 Not Used												0	0.00	0.00	0.00			0.00			0.00
2.5 Permitting Assistance												0	0.00	0.00	0.00			0.00			0.00
2.6 Project Management												0	0.00	0.00				0.00			0.00
2.7 Risk Management												0	0.00	0.00				0.00			0.00
2.8 PDR Production Workshops and Meetings												0	0.00	0.00				0.00			0.00
2.9 Quality Control												0	0.00	0.00				0.00			0.00
2.10 Community Outreach												0	0.00	0.00	0.00	0.00	0.00	0.00			0.00
Subtotal - Phase 2 - Preliminary Design	40	20	32	80	80	500	80	80	16	16	60	1004	42,436.20	25,979.53	68,415.73	80,908.44	149,324.16	14,932.42	44,000.00	18,000.00	226,256.58
PHASE 3 - FINAL DESIGN																					
3.1 Bid Documents												0	0.00	0.00	0.00	0.00	0.00	0.00			0.00
3.2 Design Support Documentation												0	0.00	0.00	0.00			0.00			0.00
3.3 Specialty Services												0	0.00	0.00	0.00	0.00	0.00	0.00			0.00
3.4 Design Submittals												0	0.00	0.00	0.00			0.00			0.00
3.5 Bid Support Services												0	0.00	0.00				0.00			0.00
3.6 Project Management												0	0.00	0.00				0.00			0.00
3.7 Risk Management												0	0.00	0.00	0.00			0.00			0.00
3.8 Workshops and Meetings												0	0.00	0.00				0.00			0.00
3.9 Quality Control		ļ										0	0.00	0.00	0.00						0.00
3.10 Permitting Assistance												0	0.00	0.00	0.00	0.00	0.00	0.00			0.00
Subtotal - Phase 3 Final Design	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL - PHASES 2 AND 3 Rounded - Use for Attach E - Fee Proposal Form	40	20	32	80	80	500	80	80	16	16	60	1004	42,436.20 42,436.00		68,415.73 68,416.00	80,908.44 80,908.00	149,324.16 149,324.00		44,000.00 44,000.00		

Profit Calculations		
Min Threshold	250,000	10%
Max Threshold	2,500,000	5%
Proposed Burdened Labor & Overhead	149,324.16	10.00%

Page 2 of 5 Final November 07, 2019

ATTACHMENT "K"

MINOR SUBCONSULTANT HOURLY RATE SCHEDULE

ATTACHMENT "K"

MINOR SUBCONSULTANT HOURLY RATE SCHEDULE

(Submit with Proposal)

Submitted By: Bluescape	
·	(Name of Firm)

Labor Category	Hourly Rate \$/hr
Senior Project Engineer/Scientist	\$135
Project Manager	\$175
Principal	\$200

In-House Non-Labor Services	Units	Billing Rate \$/unit

- 1. Include one schedule per Minor Subconsultant.
- For labor charges, list all categories that might be used on the projects, whether such hours are budgeted or not. This schedule will be the only basis for compensation of labor charges during project execution.
- 3. In-House Non-Labor Services are for services provided by the Minor Subconsultant, but not suitable for an hour labor rate. Examples include laboratory tests and equipment rental.
- 4. All charges are subject to the Allowable Direct Costs requirements included as Attachment D to the RFP.
- 5. Allowable Direct Costs will be compensation at actual costs incurred.

ATTACHMENT "K" MINOR SUBCONSULTANT HOURLY RATE SCHEDULE

(Submit with Proposal)

Submitted By: Collings & Associates

(Name of Firm)

Labor Category	Hourly Rate \$/hr
Principal Engineer	195
Sr. Engineer	140
Staff Engineer	115
CADD	95
Administrative / Clerical	65

In-House Non-Labor Services	Units	Billing Rate \$/unit
Mileage	Per mile	0.58

Instructions

- 1. Include one schedule per Minor Subconsultant.
- 2. For labor charges, list all categories that might be used on the projects, whether such hours are budgeted or not. This schedule will be the only basis for compensation of labor charges during project execution.
- 3. In-House Non-Labor Services are for services provided by the Minor Subconsultant, but not suitable for an hour labor rate. Examples include laboratory tests and equipment rental.
- 4. All charges are subject to the Allowable Direct Costs requirements included as Attachment D to the RFP.
- 5. Allowable Direct Costs will be compensation at actual costs incurred.

REQUEST FOR PROPOSALS

PROJECT NO. 3-67

Revision 081613

SEAL BEACH PUMP STATION REPLACEMENT

ATTACHMENT "K"

MINOR SUBCONSULTANT HOURLY RATE SCHEDULE

(Submit with Proposal)

Submitted By: Diaz-Yourman & Associates

(Name of Firm)

Labor Category	Hourly Rate \$/hr
Principal	\$270
Associate II	\$242
Staff II	\$155
Staff I	\$134
CADD	\$93
Word Processor Technical Editor	\$117

In-House Non-Labor Services	Units	Billing Rate \$/unit
(Not Applicable)		

- 1. Include one schedule per Minor Subconsultant.
- For labor charges, list all categories that might be used on the projects, whether such hours are budgeted or not. This schedule will be the only basis for compensation of labor charges during project execution.
- 3. In-House Non-Labor Services are for services provided by the Minor Subconsultant, but not suitable for an hour labor rate. Examples include laboratory tests and equipment rental.
- 4. All charges are subject to the Allowable Direct Costs requirements included as Attachment D to the RFP.
- 5. Allowable Direct Costs will be compensation at actual costs incurred.

ATTACHMENT "K" MINOR SUBCONSULTANT HOURLY RATE SCHEDULE

(Submit with Proposal)

Submitted By: GSI Environmental

(Name of Firm)

Labor Category	Hourly Rate \$/hr
Project Assistant	85
Accounting Specialist	125
Researcher	150
Environmental Technician	80
Sr. Environmental Technician	95
CADD / Graphics Specialist	105
Computer Programmer	130
Data Scientist	140
GIS Specialist / Sr. Data Scientist / Sr. Programmer / Sr. Researcher	165
Engineer / Scientist / Geologist I	115
Engineer / Scientist / Geologist II	125
Engineer / Scientist / Geologist III	145
Engineer / Scientist / Geologist IV	175
Sr. Engineer / Scientist / Geologist I	185
Sr. Engineer / Scientist / Geologist II	215
Senior Associate	230
Principal	275

In-House Non-Labor Services	Units	Billing Rate \$/unit
Field Vehicle	Day	120
Std. Sampling and Field Equipment	Day	80
Photoionization Detector	Day	100
Portable Generator	Day	80
Air Sampling Equipment	Day	100
Low Flow Sampling Instrumentation	Day	100
Submersible Pump	Day	200

Sampling Pumps	Day	55
Trimble T10/R1	Day	150
Level C PPE	Per Person /Day	35
Level D PPE	Day	20
HAPSITE GC/MS	Day	1000

- 1. Include one schedule per Minor Subconsultant.
- 2. For labor charges, list all categories that might be used on the projects, whether such hours are budgeted or not. This schedule will be the only basis for compensation of labor charges during project execution.
- 3. In-House Non-Labor Services are for services provided by the Minor Subconsultant, but not suitable for an hour labor rate. Examples include laboratory tests and equipment rental.
- 4. All charges are subject to the Allowable Direct Costs requirements included as Attachment D to the RFP.
- 5. Allowable Direct Costs will be compensation at actual costs incurred.

ATTACHMENT "K" MINOR SUBCONSULTANT HOURLY RATE SCHEDULE

(Submit with Proposal)

Submitted By: KW Communications

(Name of Firm)

Labor Category	Hourly Rate \$/hr
Principal	\$177.00
Associate	\$151.00

In-House Non-Labor Services	Units	Billing Rate \$/unit
Other Direct Costs	Printing, Distribution, Supplies, Etc.	Cost
Project Hotline	Monthly	\$250.00

- 1. Include one schedule per Minor Subconsultant.
- For labor charges, list all categories that might be used on the projects, whether such hours are budgeted or not. This schedule will be the only basis for compensation of labor charges during project execution.
- 3. In-House Non-Labor Services are for services provided by the Minor Subconsultant, but not suitable for an hour labor rate. Examples include laboratory tests and equipment rental.
- 4. All charges are subject to the Allowable Direct Costs requirements included as Attachment D to the RFP.
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ATTACHMENT "K"

MINOR SUBCONSULTANT HOURLY RATE SCHEDULE

(Submit with Proposal)

Submitted By: _	NUVIS	
		(Name of Firm)

Labor Category	Hourly Rate \$/hr
Senior Principal	\$200
Principal	\$170
Senior Associate	\$155
Associate	\$140
CADD Tech I	\$130
CADD Tech II	\$120
Administrative	\$85

In-House Non-Labor Services	Units	Billing Rate \$/unit

- 1. Include one schedule per Minor Subconsultant.
- 2. For labor charges, list all categories that might be used on the projects, whether such hours are budgeted or not. This schedule will be the only basis for compensation of labor charges during project execution.
- 3. In-House Non-Labor Services are for services provided by the Minor Subconsultant, but not suitable for an hour labor rate. Examples include laboratory tests and equipment rental.
- 4. All charges are subject to the Allowable Direct Costs requirements included as Attachment D to the RFP.
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ATTACHMENT "K"

MINOR SUBCONSULTANT HOURLY RATE SCHEDULE

(Submit with Proposal)

Submitted By: THE PRIZM GROUP (Name of Firm)

Labor Category	Hourly Rate \$/hr
(example – Senior Engineer)	\$140
(example – CAD Designer)	\$95
PRINCIPAL SURVEYOR	150
PRINCIPAL SURVEYOR ASSOCIATE SURVEYOR	100
CAD DRAFTING TECHNICIAN	100
SURVEY CREW	240
,	

In-House Non-Labor Services	Units	Billing Rate \$/unit
(example – Concrete Compression Test)	sample	\$200
(example – Drilling Rig)	hours	\$150

- 1. Include one schedule per Minor Subconsultant.
- 2. For labor charges, list all categories that might be used on the projects, whether such hours are budgeted or not. This schedule will be the only basis for compensation of labor charges during project execution.
- In-House Non-Labor Services are for services provided by the Minor Subconsultant, but not suitable for an hour labor rate. Examples include laboratory tests and equipment rental.
- 4. All charges are subject to the Allowable Direct Costs requirements included as Attachment D to the RFP.
- 5. Allowable Direct Costs will be compensation at actual costs incurred.

ATTACHMENT "K" MINOR SUBCONSULTANT HOURLY RATE SCHEDULE

(Submit with Proposal)

	Submitted By	/ :	SPEC	Services Inc.
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(Name of Firm)

Labor Category	Hourly Rate \$/hr
Project Manager 1	\$160
Project Manager 2	\$189
Project Manager 3	\$215
Project Controls 2	\$140
Project Controls 3	\$160
Project Admin Assistance	\$88
Engineer 1	\$118
Engineer 2	\$140
Engineer 3	\$160
Engineer 4	\$189
Engineer 5	\$215
Design 1	\$96
Design 2	\$110
Design 3	\$130
Design 4	\$144
Design 5	\$158
Design 6	\$171

In-House Non-Labor Services	Units	Billing Rate \$/unit
CADD Charges (Software)	Hours	\$10

Instructions

1. Include one schedule per Minor Subconsultant.

- 2. For labor charges, list all categories that might be used on the projects, whether such hours are budgeted or not. This schedule will be the only basis for compensation of labor charges during project execution.
- 3. In-House Non-Labor Services are for services provided by the Minor Subconsultant, but not suitable for an hour labor rate. Examples include laboratory tests and equipment rental.
- 4. All charges are subject to the Allowable Direct Costs requirements included as Attachment D to the RFP.
- 5. Allowable Direct Costs will be compensation at actual costs incurred.

REQUEST FOR PROPOSALS

PROJECT NO. 3-67

Revision 081613

SEAL BEACH PUMP STATION REPLACEMENT

ATTACHMENT "K" MINOR SUBCONSULTANT HOURLY RATE SCHEDULE

(Submit with Proposal)

Submitted By: TRAFFIC CONTROL ENGINEERING, INC. (Name of Firm)

Labor Category	Hourly Rate \$/hr
David Kuan - Project Manager	\$220
N. Kuan - Traffic Engineer	\$170
F. Lu - CAD/Tech	\$86

In-House Non-Labor Services	Units	Billing Rate \$/unit

ATTACHMENT "K"

MINOR SUBCONSULTANT HOURLY RATE SCHEDULE

(Submit with Proposal)

Submitted By:	Veneklasen Associates, Inc.
	(Name of Firm)

Labor Category	Hourly Rate \$/hr
Principal/Associate I	\$250
Associate II	\$200
Associate III	\$180
Associate IV	\$150
Associate V	\$135
Associate VI	\$115
Acoustic Modeling	\$175

In-House Non-Labor Services	Units	Billing Rate \$/unit

- 1. Include one schedule per Minor Subconsultant.
- For labor charges, list all categories that might be used on the projects, whether such hours are budgeted or not. This schedule will be the only basis for compensation of labor charges during project execution.
- 3. In-House Non-Labor Services are for services provided by the Minor Subconsultant, but not suitable for an hour labor rate. Examples include laboratory tests and equipment rental.
- 4. All charges are subject to the Allowable Direct Costs requirements included as Attachment D to the RFP.
- 5. Allowable Direct Costs will be compensation at actual costs incurred.



Seal Beach Pump Station Replacement Project No. 3-67

Justin Fenton, Project Manager
Operations Committee
December 4, 2019





Project Location



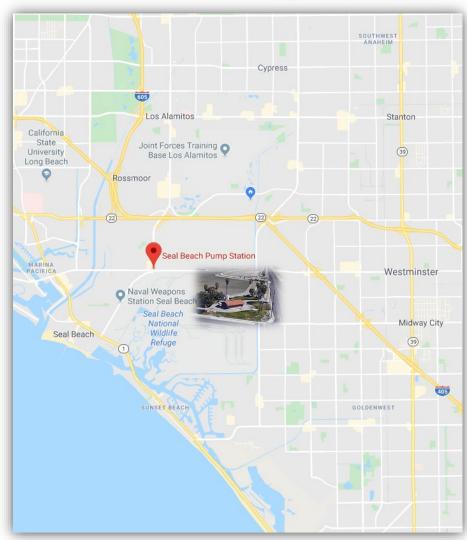






City of Seal Beach

 Intersection of Seal Beach Blvd & Westminster Blvd



Project Background









- Constructed in 1973
- Provides service for the following cities:
 - Seal Beach
 - Los Alamitos
 - Cypress
 - La Palma
 - Rossmoor (unincorporated)



Project Background









Proposed Pump Station

Existing Pump Station



Project Background









- New pump station with improved:
 - Hydraulics
 - Storage
 - Odor control
 - Aesthetics (Mission Style)
 - Site Access
 - Security



Selection Process









Six proposals received

Interviews
 conducted with
 top two firms

LEE & RO, Inc.
 selected



Negotiations









	Original Proposal	Negotiated
Total Hours	26,684	29,456
Total Fee	\$5,496,714	\$5,947,850

- Clarified project elements and design assumptions
- Ensured scope and level of effort are appropriate
- Expanded some tasks to improve design and reduce construction risks

Recommendation









Approve a Professional Design Services
 Agreement with LEE & RO, Inc. to provide
 engineering services for Seal Beach Pump
 Station Replacement, Project No. 3-67, for an
 amount not to exceed \$5,947,850; and

Approve a contingency of \$594,785 (10%).









Questions



Orange County Sanitation District

Administration Building 10844 Ellis Avenue Fountain Valley, CA 92708 (714) 593-7433

OPERATIONS COMMITTEE

Agenda Report

File #: 2019-826 Agenda Date: 12/18/2019 Agenda Item No: 11.

FROM: James D. Herberg, General Manager

Originator: Kathy Millea, Director of Engineering

SUBJECT:

WESTMINSTER BOULEVARD FORCE MAIN REPLACEMENT, PROJECT NO. 3-62

GENERAL MANAGER'S RECOMMENDATION

RECOMMENDATION:

- A. Approve a Professional Construction Services Agreement with Stantec Consulting, Inc. to provide construction support services for Westminster Boulevard Force Main Replacement, Project No. 3-62, for a total amount not to exceed \$1,183,000; and
- B. Approve a contingency of \$118,300 (10%).

BACKGROUND

The Seal Beach Pump Station currently discharges all flow through a single 42-inch diameter ductile iron force main that is approaching the end of its useful life. A second 30-inch force main exists. This second pipe is made of a material known to fail catastrophically. It was removed from service approximately four years ago. The Orange County Sanitation District (Sanitation District) was compensated for this faulty pipe material by the original manufacturer many years ago.

This project will replace the two force mains with two parallel 36-inch high-density polyethylene pipes. These force mains run from the Seal Beach Pump Station at the intersection of Seal Beach Boulevard and Westminster Boulevard in the City of Seal Beach, to the intersection of Westminster Boulevard and Rancho Road in the City of Westminster, a distance of approximately 14,000 feet.

RELEVANT STANDARDS

- Ensure the public's money is wisely spent
- Comply with California Government Code Section 4526 to engage the best qualified firm "on the basis of demonstrated competence and qualifications" and "negotiate fair and reasonable fees"

File #: 2019-826 Agenda Date: 12/18/2019 Agenda Item No: 11.

PROBLEM

This project requires the design consultant to provide as-needed services during construction including submittal review, responding to Contractor's requests for information, reviewing construction change orders, participating in meetings, site visits, and preparing record drawings.

PROPOSED SOLUTION

Award a Professional Construction Services Agreement with the design consultant Stantec Consulting, Inc. to provide engineering support services during construction.

TIMING CONCERNS

Engineering support services will be required at the start of construction. Construction is anticipated to start in February 2020.

RAMIFICATIONS OF NOT TAKING ACTION

The engineering support services needed to facilitate and review construction activities would not be available by the Engineer of Record, which may negatively impact the contract execution.

PRIOR COMMITTEE/BOARD ACTIONS

July 2015 - Approved a Professional Design Services Agreement with MWH Americas, Inc. (subsequently acquired by Stantec Consulting, Inc.) to provide engineering design services for the Rehabilitation of Seal Beach Pump Station, Project No. 3-62, for an amount not to exceed \$6,917,175, and approved a contingency of \$691,718 (10%).

ADDITIONAL INFORMATION

Stantec Consulting, Inc. has successfully furnished engineering services for the design of this project and their support services during construction will provide continuity through the completion of the project. Staff negotiated with Stantec Consulting, Inc. for these support services in accordance with the Sanitation District's adopted policies and procedures. A review of the proposed price was conducted using estimated quantities of requests for information, submittals, meetings, site visits, change order review, and design revisions, as well as the level of effort for preparing record drawings. Based on this review, staff determined the negotiated fee to be fair and reasonable for these services.

CEQA

The project is exempt from CEQA under the Class 1, 2, 3, and 4 categorical exemptions set forth in California Code of Regulations sections 15301, 15302, 15303, and 15304 because the project involves repairs, replacement, limited construction of new facilities, and minor alteration of existing facilities involving no expansion of use or capacity. A Notice of Exemption will be filed with the OC Clerk-Recorder after the Sanitation District's Board of Directors approval of the construction contract.

FINANCIAL CONSIDERATIONS

This request complies with authority levels of the Sanitation District's Purchasing Ordinance. This item has been budgeted (FY 2019-20 Budget Update, Appendix A, Page A-7) and the budget is sufficient for this action.

ATTACHMENT

The following attachment(s) may be viewed on-line at the OCSD website (www.ocsd.com) with the complete agenda package:

- Professional Construction Services Agreement
- 12/4/19 Operations Committee Meeting Presentation

JF:dm:sa:gc

PROFESSIONAL CONSTRUCTION SERVICES AGREEMENT

THIS AGREEMENT, is made and entered into to be effective the 18th day of December, 2019 by and between the ORANGE COUNTY SANITATION DISTRICT, hereinafter referred to as "SANITATION DISTRICT", and STANTEC CONSULTING SERVICES, INC., for purposes of this Agreement hereinafter referred to as "CONSULTANT".

WITNESSETH:

WHEREAS, the SANITATION DISTRICT desires to engage CONSULTANT to provide Construction Support Services for **WESTMINSTER BOULEVARD FORCE MAIN REPLACEMENT**, **PROJECT NO. 3-62**; and,

WHEREAS, CONSULTANT is qualified to provide the necessary services for Construction Support Services in connection with these requirements; and,

WHEREAS, the SANITATION DISTRICT has adopted procedures in accordance with the SANITATION DISTRICT's Purchasing Ordinance Section 4.03(B) for the continuation of services and has proceeded in accordance with said procedures to perform this work; and,

WHEREAS, at its regular meeting on December 18, 2019 the Board of Directors, by Minute Order, accepted the recommendation of the Operations Committee pursuant to SANITATION DISTRICT's Purchasing Ordinance to approve this Agreement between the SANITATION DISTRICT and CONSULTANT.

NOW, THEREFORE, in consideration of the promises and mutual benefits, which will result to the parties in carrying out the terms of this Agreement, it is mutually agreed as follows:

1. SCOPE OF WORK

CONSULTANT agrees to furnish necessary professional and technical services to accomplish those project elements outlined in the Scope of Work attached hereto as Attachment "A", and by this reference made a part of this Agreement.

- A. The CONSULTANT shall be responsible for the professional quality, technical accuracy, completeness, and coordination of all design, drawings, specifications, and other services furnished by the CONSULTANT under this Agreement, including the work performed by its Subconsultants. Where approval by the SANITATION DISTRICT is indicated, it is understood to be conceptual approval only and does not relieve the CONSULTANT of responsibility for complying with all laws, codes, industry standards and liability for damages caused by errors, omissions, noncompliance with industry standards, and/or negligence on the part of the CONSULTANT or its Subconsultants.
- B. CONSULTANT is responsible for the quality of work prepared under this Agreement and shall ensure that all work is performed to the standards of best engineering practice for clarity, uniformity, and completeness.

- C. In the event that work is not performed to the satisfaction of the SANITATION DISTRICT and does not conform to the requirements of this Agreement or any applicable industry standards, the CONSULTANT shall, without additional compensation, promptly correct or revise any errors or deficiencies in its designs, drawings, specifications, or other services within the timeframe specified by the Project Engineer/Project Manager. The SANITATION DISTRICT may charge to CONSULTANT all costs, expenses and damages associated with any such corrections or revisions.
- D. All CADD drawings, figures, and other work shall be produced by CONSULTANT and its Subconsultants using the SANITATION DISTRICT standard software. Conversion of CADD work from any other non-standard CADD format to the SANITATION DISTRICT format shall not be acceptable in lieu of this requirement.

Electronic files shall be subject to an acceptance period of thirty (30) calendar days during which the SANITATION DISTRICT shall perform appropriate acceptance tests. CONSULTANT shall correct any discrepancies or errors detected and reported within the acceptance period at no additional cost to the SANITATION DISTRICT.

E. All professional services performed by the CONSULTANT, including but not limited to all drafts, data, correspondence, proposals, reports, and estimates compiled or composed by the CONSULTANT, pursuant to this Agreement, are for the sole use of the SANITATION DISTRICT, its agents and employees. Neither the documents nor their contents shall be released to any third party without the prior written consent of the SANITATION DISTRICT. This provision does not apply to information that (a) was publicly known, or otherwise known to the CONSULTANT, at the time that it was disclosed to the CONSULTANT by the SANITATION DISTRICT, (b) subsequently becomes publicly known to the CONSULTANT other than through disclosure by the SANITATION DISTRICT.

2. COMPENSATION

Total compensation shall be paid to CONSULTANT for services in accordance with the following provisions:

A. Total Compensation

Total compensation shall be in an amount not to exceed One Million One Hundred Eighty-Three Thousand Dollars (\$1,183,000). Total compensation to CONSULTANT including burdened labor (salaries plus benefits), overhead, profit, direct costs, and Subconsultant(s) fees and costs shall not exceed the sum set forth in Attachment "E" - Fee Proposal.

B. Labor

As a portion of the total compensation to be paid to CONSULTANT, the SANITATION DISTRICT shall pay to CONSULTANT a sum equal to the burdened salaries (salaries plus benefits) actually paid by CONSULTANT

charged on an hourly-rate basis to this project and paid to the personnel of CONSULTANT. Upon request of the SANITATION DISTRICT, CONSULTANT shall provide the SANITATION DISTRICT with certified payroll records of all employees' work that is charged to this project.

C. Overhead

As a portion of the total compensation to be paid to CONSULTANT, the SANITATION DISTRICT shall compensate CONSULTANT and Subconsultants for overhead at the rate equal to the percentage of burdened labor as specified in Attachment "E" - Fee Proposal.

D. Profit

Profit for CONSULTANT and Subconsultants shall be a percentage of consulting services fees (Burdened Labor and Overhead). When the consulting or subconsulting services amount is two hundred fifty thousand dollars (\$250,000) or less, the maximum Profit shall be ten percent (10%). Between two hundred fifty thousand dollars (\$250,000) and two million five hundred thousand dollars (\$2,500,000), the maximum Profit shall be limited by a straight declining percentage between ten percent (10%) and five percent (5%). For consulting or subconsulting services fees with a value greater than two million five hundred thousand dollars (\$2,500,000), the maximum Profit shall be five percent (5%). Addenda shall be governed by the same maximum Profit percentage after adding consulting services fees.

As a portion of the total compensation to be paid to CONSULTANT and Subconsultants, the SANITATION DISTRICT shall pay profit for all services rendered by CONSULTANT and Subconsultants for this project according to Attachment "E" - Fee Proposal.

E. Subconsultants

For any Subconsultant whose fees for services are greater than or equal to one hundred thousand dollars (\$100,000), excluding out-of-pocket costs, CONSULTANT shall pay to Subconsultant total compensation in accordance with the Subconsultant amount specified in Attachment "E" - Fee Proposal.

For any Subconsultant whose fees for services are less than one hundred thousand dollars (\$100,000), CONSULTANT may pay to Subconsultant total compensation on an hourly-rate basis per the attached hourly rate schedule and as specified in the Scope of Work. The SANITATION DISTRICT shall pay to CONSULTANT the actual costs of Subconsultant fees and charges in an amount not to exceed the sum set forth in Attachment "E" - Fee Proposal.

F. Direct Costs

The SANITATION DISTRICT shall pay to CONSULTANT and its Subconsultant(s) the actual costs of permits and associated fees, travel and licenses for an amount not to exceed the sum set forth in Attachment "E" - Fee

Proposal. The SANITATION DISTRICT shall also pay to CONSULTANT actual costs for equipment rentals, leases or purchases with prior approval of the SANITATION DISTRICT. Upon request, CONSULTANT shall provide to the SANITATION DISTRICT receipts and other documentary records to support CONSULTANT's request for reimbursement of these amounts, see Attachment "D" – Allowable Direct Costs. All incidental expenses shall be included in overhead pursuant to Section 2 - COMPENSATION above.

G. Other Direct Costs

Other Direct Costs incurred by CONSULTANT and its Subconsultant(s) due to modifications to the Scope of Work resulting from field investigations and field work required by this Agreement. These items may include special equipment, test equipment and tooling and other materials and services not previously identified. Refer to attachment "D" Allowable Direct Costs for payment information.

H. Reimbursable Direct Costs

The SANITATION DISTRICT will reimburse the CONSULTANT for reasonable travel and business expenses as described in this section and further described in Attachment "D" - Allowable Direct Costs to this Agreement. The reimbursement of the above-mentioned expenses will be based on an "accountable plan" as considered by U.S. Internal Revenue Service (IRS). The plan includes a combination of reimbursements based upon receipts and a "per diem" component approved by IRS. The most recent schedule of the per diem rates utilized by the SANITATION DISTRICT can be found on the U.S. General Services Administration website at http://www.gsa.gov/portal/category/104711#.

The CONSULTANT shall be responsible for the most economical and practical means of management of reimbursable costs inclusive of, but not limited to, travel, lodging, and meals arrangements. The SANITATION DISTRICT shall apply the most economic and practical method of reimbursement which may include reimbursements based upon receipts and/or "per diem" as deemed the most practical.

CONSULTANT shall be responsible for returning to the SANITATION DISTRICT any excess reimbursements after the reimbursement has been paid by the SANITATION DISTRICT.

Travel and travel arrangements – Any travel involving airfare, overnight stays or multiple day attendance must be approved by the SANITATION DISTRICT in advance.

Local Travel is considered travel by the CONSULTANT within the SANITATION DISTRICT general geographical area which includes Orange, Los Angeles, Ventura, San Bernardino, Riverside, San Diego, Imperial and Kern Counties. Automobile mileage is reimbursable if CONSULTANT is required to utilize personal vehicle for local travel.

Lodging – Overnight stays will not be approved by the SANITATION DISTRICT for local travel. However, under certain circumstances overnight stay may be allowed at the discretion of the SANITATION DISTRICT based on reasonableness of meeting schedules and the amount of time required for travel by the CONSULTANT. Such determination will be made on a case-by-case basis and at the discretion of the SANITATION DISTRICT.

Travel Meals – Per-diem rates as approved by IRS shall be utilized for travel meals reimbursements. Per diem rates shall be applied to meals that are appropriate for travel times. Receipts are not required for the approved meals.

Additional details related to the reimbursement of the allowable direct costs are provided in the Attachment "D" - Allowable Direct Costs of this Agreement.

I. Limitation of Costs

If, at any time, CONSULTANT estimates the cost of performing the services described in CONSULTANT's Proposal will exceed the not-to-exceed amount of this Agreement, including approved additional compensation, CONSULTANT shall notify the SANITATION DISTRICT immediately, and in writing. This written notice shall indicate the additional amount necessary to complete the services. Any cost incurred in excess of the approved not-to-exceed amount, without the express written consent of the SANITATION DISTRICT's authorized representative shall be at CONSULTANT's own risk. This written notice shall be provided separately from, and in addition to any notification requirements contained in the CONSULTANT's invoice and monthly progress report. Failure to notify the SANITATION DISTRICT that the services cannot be completed within the authorized not-to-exceed amount is a material breach of this Agreement.

3. REALLOCATION OF TOTAL COMPENSATION

The SANITATION DISTRICT, by its Director of Engineering, shall have the right to approve a reallocation of the incremental amounts constituting the total compensation, provided that the total compensation is not increased.

4. PAYMENT

- A. Monthly Invoice: CONSULTANT shall include in its monthly invoice, a detailed breakdown of costs associated with the performance of any corrections or revisions of the work for that invoicing period. CONSULTANT shall allocate costs in the same manner as it would for payment requests as described in this section of the Agreement. CONSULTANT shall warrant and certify the accuracy of these costs and understand that submitted costs are subject to Section 11 AUDIT PROVISIONS.
- B. CONSULTANT may submit monthly or periodic statements requesting payment for those items included in Section 2 COMPENSATION hereof in the format as required by the SANITATION DISTRICT. Such requests shall be based upon the amount and value of the work and services performed by CONSULTANT under this Agreement and shall be prepared by CONSULTANT and accompanied by

such supporting data, including a detailed breakdown of all costs incurred and project element work performed during the period covered by the statement, as may be required by the SANITATION DISTRICT.

Upon approval of such payment request by the SANITATION DISTRICT, payment shall be made to CONSULTANT as soon as practicable of one hundred percent (100%) of the invoiced amount on a per-project-element basis.

If the SANITATION DISTRICT determines that the work under this Agreement or any specified project element hereunder, is incomplete and that the amount of payment is in excess of:

- The amount considered by the SANITATION DISTRICT's Director of Engineering (DOE) to be adequate for the protection of the SANITATION DISTRICT; or
- ii. The percentage of the work accomplished for each project element.

The DOE may, at his or her discretion, retain an amount equal to that which insures that the total amount paid to that date does not exceed the percentage of the completed work for each project element or the project in its entirety.

- C. CONSULTANT may submit periodic payment requests for each 30-day period of this Agreement for the profit as set forth in Section 2 COMPENSATION above. Said profit payment request shall be proportionate to the work actually accomplished to date on a per-project-element basis. In the event the SANITATION DISTRICT's DOE determines that no satisfactory progress has been made since the prior payment, or in the event of a delay in the work progress for any reason, the SANITATION DISTRICT shall have the right to withhold any scheduled proportionate profit payment.
- D. Upon satisfactory completion by CONSULTANT of the work called for under the terms of this Agreement, and upon acceptance of such work by the SANITATION DISTRICT, CONSULTANT will be paid the unpaid balance of any money due for such work, including any retained percentages relating to this portion of the work.
- E. Upon satisfactory completion of the work performed hereunder and prior to final payment under this Agreement for such work, or prior settlement upon termination of this Agreement, and as a condition precedent thereto, CONSULTANT shall execute and deliver to the SANITATION DISTRICT a release of all claims against the SANITATION DISTRICT arising under or by virtue of this Agreement other than such claims, if any, as may be specifically exempted by CONSULTANT from the operation of the release in stated amounts to be set forth therein.
- F. Pursuant to the California False Claims Act (Government Code Sections 12650-12655), any CONSULTANT that knowingly submits a false claim to the SANITATION DISTRICT for compensation under the terms of this Agreement

may be held liable for treble damages and up to a ten thousand dollars (\$10,000) civil penalty for each false claim submitted. This section shall also be binding on all Subconsultants.

CONSULTANT or Subconsultant shall be deemed to have submitted a false claim when the CONSULTANT or Subconsultant: a) knowingly presents or causes to be presented to an officer or employee of the SANITATION DISTRICT a false claim or request for payment or approval; b) knowingly makes, uses, or causes to be made or used a false record or statement to get a false claim paid or approved by the SANITATION DISTRICT; c) conspires to defraud the SANITATION DISTRICT by getting a false claim allowed or paid by the SANITATION DISTRICT; d) knowingly makes, uses, or causes to be made or used a false record or statement to conceal, avoid, or decrease an obligation to the SANITATION DISTRICT; or e) is a beneficiary of an inadvertent submission of a false claim to the SANITATION DISTRICT, and fails to disclose the false claim to the SANITATION DISTRICT within a reasonable time after discovery of the false claim.

5. CALIFORNIA DEPARTMENT OF INDUSTRIAL RELATIONS (DIR) REGISTRATION AND RECORD OF WAGES

- A. To the extent CONSULTANT's employees and/or its Subconsultant(s) who will perform work during the design and preconstruction phases of a construction contract for which Prevailing Wage Determinations have been issued by the DIR and as more specifically defined under Labor Code Section 1720 et seq, CONSULTANT and its Subconsultant(s) shall comply with the registration requirements of Labor Code Section 1725.5. Pursuant to Labor Code Section 1771.4, the work is subject to compliance monitoring and enforcement by the DIR.
- B. The CONSULTANT and its Subconsultant(s) shall maintain accurate payroll records and shall comply with all the provisions of Labor Code Section 1776 and shall submit payroll records to the Labor Commissioner pursuant to Labor Code Section 1771.4(a) (3). Penalties for non-compliance with the requirements of Section 1776 may be deducted from progress payments per Section 1776.
- C. Pursuant to Labor Code Section 1776, the CONSULTANT and its Subconsultant(s) shall furnish a copy of all certified payroll records to the SANITATION DISTRICT and/or general public upon request, provided the public request is made through the SANITATION DISTRICT, the Division of Apprenticeship Standards or the Division of Labor Standards Enforcement of the Department of Industrial Relations.
- D. The CONSULTANT and its Subconsultant(s) shall comply with the job site notices posting requirements established by the Labor Commissioner per Title 8, California Code of Regulation Section 16461(e).

6. DOCUMENT OWNERSHIP – SUBSEQUENT CHANGES TO PLANS AND SPECIFICATIONS

A. Ownership of Documents for the Professional Services performed.

All documents, including but not limited to, original plans, studies, sketches, drawings, computer printouts and disk files, and specifications prepared in connection with or related to the Scope of Work or Professional Services, shall be the property of the SANITATION DISTRICT. The SANITATION DISTRICT's ownership of these documents includes use of, reproduction or reuse of and all incidental rights, whether or not the work for which they were prepared has been performed. The SANITATION DISTRICT ownership entitlement arises upon payment or any partial payment for work performed and includes ownership of any and all work product completed prior to that payment. This section shall apply whether the CONSULTANT's Professional Services are terminated: a) by the completion of this Agreement, or b) in accordance with other provisions of this Agreement. Notwithstanding any other provision of this paragraph or Agreement, the CONSULTANT shall have the right to make copies of all such plans, studies, sketches, drawings, computer printouts and disk files, and specifications.

B. CONSULTANT shall not be responsible for damage caused by subsequent changes to or uses of the plans or specifications, where the subsequent changes or uses are not authorized or approved by CONSULTANT, provided that the service rendered by CONSULTANT was not a proximate cause of the damage.

7. INSURANCE

A. General

- Insurance shall be issued and underwritten by insurance companies acceptable to the SANITATION DISTRICT.
- ii. Insurers must have an "A-" Policyholder's Rating, or better, and Financial Rating of at least Class VIII, or better, in accordance with the most current A.M. Best's Guide Rating. However, the SANITATION DISTRICT will accept State Compensation Insurance Fund, for the required policy of Workers' Compensation Insurance subject to the SANITATION DISTRICT's option to require a change in insurer in the event the State Fund financial rating is decreased below "B". Further, the SANITATION DISTRICT will require CONSULTANT to substitute any insurer whose rating drops below the levels herein specified. Said substitution shall occur within twenty (20) days of written notice to CONSULTANT, by the SANITATION DISTRICT or its agent.
- iii. Coverage shall be in effect prior to the commencement of any work under this Agreement.

B. General Liability

The CONSULTANT shall maintain during the life of this Agreement, including the period of warranty, Commercial General Liability Insurance written on an occurrence basis providing the following minimum limits of liability coverage: Two Million Dollars (\$2,000,000) per occurrence with Four Million Dollars (\$4,000,000) aggregate. Said insurance shall include coverage for the following hazards: Premises-Operations, blanket contractual liability (for this Agreement), products liability/completed operations (including any product manufactured or assembled), broad form property damage, blanket contractual liability, independent contractors liability, personal and advertising injury, mobile equipment, owners and contractors protective liability, and cross liability and severability of interest clauses. A statement on an insurance certificate will not be accepted in lieu of the actual additional insured endorsement(s). If requested by the SANITATION DISTRICT and applicable, XCU coverage (Explosion, Collapse and Underground) and Riggers/On Hook Liability must be included in the General Liability policy and coverage must be reflected on the submitted Certificate of Insurance.

C. Umbrella Excess Liability

The minimum limits of general liability and Automotive Liability Insurance required, as set forth herein, shall be provided for through either a single policy of primary insurance or a combination of policies of primary and umbrella excess coverage. Umbrella excess liability coverage shall be issued with limits of liability which, when combined with the primary insurance, will equal the minimum limits for general liability and automotive liability.

D. Automotive/Vehicle liability Insurance

The CONSULTANT shall maintain a policy of Automotive Liability Insurance on a comprehensive form covering all owned, non-owned, and hired automobiles, trucks, and other vehicles providing the following minimum limits of liability coverage: Combined single limit of One Million Dollars (\$1,000,000) or alternatively, One Million Dollars (\$1,000,000) per person for bodily injury and One Million Dollars (\$1,000,000) per accident for property damage. A statement on an insurance certificate will not be accepted in lieu of the actual additional insured endorsement.

E. Drone Liability Insurance

If a drone will be used, drone liability insurance must be maintained by CONSULTANT in the amount of One Million Dollars (\$1,000,000) in a form acceptable to the SANITATION DISTRICT.

F. Workers' Compensation Insurance

The CONSULTANT shall provide such Workers' Compensation Insurance as required by the Labor Code of the State of California in the amount of the statutory limit, including Employer's Liability Insurance with a minimum limit of

One Million Dollars (\$1,000,000) per occurrence. Such Workers' Compensation Insurance shall be endorsed to provide for a waiver of subrogation in favor of the SANITATION DISTRICT. A statement on an insurance certificate will not be accepted in lieu of the actual endorsements unless the insurance carrier is State of California Insurance Fund and the identifier "SCIF" and endorsement numbers 2570 and 2065 are referenced on the certificate of insurance. If an exposure to Jones Act liability may exist, the insurance required herein shall include coverage for Jones Act claims.

G. Errors and Omissions/Professional Liability

CONSULTANT shall maintain in full force and effect, throughout the term of this Agreement, standard industry form professional negligence errors and omissions insurance coverage in an amount of not less than Three Million Dollars (\$3,000,000) with limits in accordance with the provisions of this paragraph. If the policy of insurance is written on a "claims made" basis, said policy shall be continued in full force and effect at all times during the term of this Agreement, and for a period of five (5) years from the date of the completion of the services hereunder.

In the event of termination of said policy during this period, CONSULTANT shall obtain continuing insurance coverage for the prior acts or omissions of CONSULTANT during the course of performing services under the term of this Agreement. Said coverage shall be evidenced by either a new policy evidencing no gap in coverage or by separate extended "tail" coverage with the present or new carrier.

In the event the present policy of insurance is written on an "occurrence" basis, said policy shall be continued in full force and effect during the term of this Agreement or until completion of the services provided for in this Agreement, whichever is later. In the event of termination of said policy during this period, new coverage shall be obtained for the required period to insure for the prior acts of CONSULTANT during the course of performing services under the term of this Agreement.

CONSULTANT shall provide to the SANITATION DISTRICT a certificate of insurance in a form acceptable to the SANITATION DISTRICT indicating the deductible or self-retention amounts and the expiration date of said policy, and shall provide renewal certificates not less than ten (10) days prior to the expiration of each policy term.

H. Proof of Coverage

The CONSULTANT shall furnish the SANITATION DISTRICT with original certificates and amendatory endorsements effecting coverage. Said policies and endorsements shall conform to the requirements herein stated. All certificates and endorsements are to be received and approved by the SANITATION DISTRICT before work commences. The SANITATION DISTRICT reserves the right to require complete, certified copies of all required insurance policies, including endorsements, effecting the coverage required, at any time. The following are approved forms that must be submitted as proof of coverage:

Certificate of Insurance ACORD Form 25 (5/2010) or equivalent.

 Additional Insurance (General Liability) (ISO Form) CG2010 11 85 or

The combination of (ISO Forms) CG 2010 10 01 and CG 2037 10 01

All other Additional Insured endorsements must be submitted for approval by the SANITATION DISTRICT, and the SANITATION DISTRICT may reject alternatives that provide different or less coverage to the SANITATION DISTRICT.

 Additional Insured (Auto Liability) Submit endorsement provided by carrier for the

SANITATION DISTRICT approval.

Waiver of Subrogation

State Compensation Insurance Fund Endorsement No. 2570 or equivalent.

Cancellation Notice

State Compensation Insurance Fund Endorsement No. 2065 or equivalent.

Cancellation Notice

Each insurance policy required herein shall be endorsed to state that coverage shall not be cancelled by either party, except after thirty (30) days' prior written notice. The Cancellation section of ACORD Form 25 (5/2010) shall state the required thirty (30) days' written notification. The policy shall not terminate, nor shall it be cancelled, nor the coverage reduced until thirty (30) days after written notice is given to the SANITATION DISTRICT except for nonpayment of premium, which shall require not less than ten (10) days written notice to the SANITATION DISTRICT. Should there be changes in coverage or an increase in deductible or SIR amounts, the CONSULTANT and its insurance broker/agent shall send to the SANITATION DISTRICT a certified letter which includes a description of the changes in coverage and/or any increase in deductible or SIR amounts. The certified letter must be sent to the attention of Risk Management, and shall be received by the SANITATION DISTRICT not less than thirty (30) days prior to the effective date of the change(s) if the change would reduce coverage or increase deductibles or SIR amounts or otherwise reduce or limit the scope of insurance coverage provided to the SANITATION DISTRICT.

J. Primary Insurance

All liability policies shall contain a Primary and Non-Contributory Clause. Any other insurance maintained by the SANITATION DISTRICT shall be excess and not contributing with the insurance provided by CONSULTANT.

K. Separation of Insured

All liability policies shall contain a "Separation of Insureds" clause.

L. Non-Limiting (if applicable)

Nothing in this document shall be construed as limiting in any way, nor shall it limit the indemnification provision contained in this Agreement, or the extent to which CONSULTANT may be held responsible for payment of damages to persons or property.

M. Deductibles and Self-Insured Retentions

Any deductible and/or self-insured retention must be declared to the SANITATION DISTRICT on the Certificate of Insurance. All deductibles and/or self-insured retentions require approval by the SANITATION DISTRICT. At the option of the SANITATION DISTRICT, either: the insurer shall reduce or eliminate such deductible or self-insured retention as respects the SANITATION DISTRICT; or the CONSULTANT shall provide a financial guarantee satisfactory to the SANITATION DISTRICT guaranteeing payment of losses and related investigations, claim administration and defense expenses.

N. Defense Costs

Liability policies shall have a provision that defense costs for all insureds and additional insureds are paid in addition to and do not deplete any policy limits.

O. Subconsultants

The CONSULTANT shall be responsible to establish insurance requirements for any Subconsultant hired by the CONSULTANT. The insurance shall be in amounts and types reasonably sufficient to deal with the risk of loss involving the Subconsultant's operations and work.

P. Limits Are Minimums

If the CONSULTANT maintains higher limits than any minimums shown above, then SANITATION DISTRICT requires and shall be entitled to coverage for the higher limits maintained by CONSULTANT.

8. SCOPE CHANGES

In the event of a change in the Scope of Work, requested by the SANITATION DISTRICT, the parties hereto shall execute an amendment to this Agreement setting forth with particularity all terms of the new Agreement, including but not limited to any additional CONSULTANT's fees.

9. PROJECT TEAM AND SUBCONSULTANTS

CONSULTANT shall provide to SANITATION DISTRICT, prior to execution of this Agreement, the names and full description of all Subconsultants and CONSULTANT's project team members anticipated to be used on this project by CONSULTANT. CONSULTANT shall include a description of the scope of work to be done by each Subconsultant and each CONSULTANT's project team member. CONSULTANT shall include the respective compensation amounts for CONSULTANT and each Subconsultant on a per-project-element basis, broken down as indicated in Section 2-COMPENSATION.

There shall be no substitution of the listed Subconsultants and CONSULTANT's project team members without prior written approval by the SANITATION DISTRICT.

10. ENGINEERING REGISTRATION

The CONSULTANT's personnel are comprised of registered engineers and a staff of specialists and draftsmen in each department. The firm itself is not a registered engineer but represents and agrees that wherever in the performance of this Agreement requires the services of a registered engineer, such services hereunder will be performed under the direct supervision of registered engineers.

11. AUDIT PROVISIONS

- A. SANITATION DISTRICT retains the reasonable right to access, review, examine, and audit, any and all books, records, documents and any other evidence of procedures and practices that the SANITATION DISTRICT determines are necessary to discover and verify that the CONSULTANT is in compliance with all requirements under this Agreement. The CONSULTANT shall include the SANITATION DISTRICT's right as described above, in any and all of their subcontracts, and shall ensure that these rights are binding upon all Subconsultants.
- B. SANITATION DISTRICT retains the right to examine CONSULTANT's books, records, documents and any other evidence of procedures and practices that the SANITATION DISTRICT determines are necessary to discover and verify all direct and indirect costs, of whatever nature, which are claimed to have been incurred, or anticipated to be incurred or to ensure CONSULTANT's compliance with all requirements under this Agreement during the term of this Agreement and for a period of three (3) years after its termination.
- C. CONSULTANT shall maintain complete and accurate records in accordance with generally accepted industry standard practices and the SANITATION DISTRICT's policy. The CONSULTANT shall make available to the SANITATION DISTRICT for review and audit, all project related accounting records and documents, and any other financial data within fifteen (15) days after receipt of notice from the SANITATION DISTRICT. Upon SANITATION DISTRICT's request, the CONSULTANT shall submit exact duplicates of originals of all requested records to the SANITATION DISTRICT. If an audit is performed,

CONSULTANT shall ensure that a qualified employee of the CONSULTANT will be available to assist SANITATION DISTRICT's auditor in obtaining all project related accounting records and documents, and any other financial data.

12. LEGAL RELATIONSHIP BETWEEN PARTIES

The legal relationship between the parties hereto is that of an independent contractor and nothing herein shall be deemed to make CONSULTANT an employee of the SANITATION DISTRICT.

13. NOTICES

All notices hereunder and communications regarding the interpretation of the terms of this Agreement, or changes thereto, shall be effected by delivery of said notices in person or by depositing said notices in the U.S. mail, registered or certified mail, return receipt requested, postage prepaid.

Notices shall be mailed to the SANITATION DISTRICT at:

ORANGE COUNTY SANITATION DISTRICT 10844 Ellis Avenue Fountain Valley, CA 92708-7018 Attention: Larry Roberson, Senior Contracts Administrator Copy: Justin Fenton, Project Manager

Notices shall be mailed to CONSULTANT at:

STANTEC CONSULTING SERVICES, INC. 38 Technology Drive Irvine, CA 92618-5312 Attention: David S. Harrison, Vice President

All communication regarding the Scope of Work, will be addressed to the Project Manager. Direction from other SANITATION DISTRICT staff must be approved in writing by the SANITATION DISTRICT's Project Manager prior to action by the CONSULTANT.

14. TERMINATION

The SANITATION DISTRICT may terminate this Agreement at any time, without cause, upon giving thirty (30) days written notice to CONSULTANT. In the event of such termination, CONSULTANT shall be entitled to compensation for work performed on a prorated basis through and including the effective date of termination.

CONSULTANT shall be permitted to terminate this Agreement upon thirty (30) days written notice only if CONSULTANT is not compensated for billed amounts in accordance with the provisions of this Agreement, when the same are due.

Notice of termination shall be mailed to the SANITATION DISTRICT and/or CONSULTANT in accordance with Section 13 - NOTICES.

15. DOCUMENTS AND STUDY MATERIALS

The documents and study materials for this project shall become the property of the SANITATION DISTRICT upon the termination or completion of the work. CONSULTANT agrees to furnish to the SANITATION DISTRICT copies of all memoranda, correspondence, computation and study materials in its files pertaining to the work described in this Agreement, which is requested in writing by the SANITATION DISTRICT.

16. COMPLIANCE

A. Labor

CONSULTANT certifies by the execution of this Agreement that it pays employees not less than the minimum wage as defined by law, and that it does not discriminate in its employment with regard to race, color, religion, sex or national origin; that it is in compliance with all Federal, State and local directives and executive orders regarding non-discrimination in employment; and that it agrees to demonstrate positively and aggressively the principle of equal opportunity in employment.

B. Air Pollution

CONSULTANT and its Subconsultants and Subcontractors shall comply with all applicable Federal, State and local air pollution control laws and regulations.

17. AGREEMENT EXECUTION AUTHORIZATION

Both the SANITATION DISTRICT and CONSULTANT do covenant that each individual executing this document by and on behalf of each party is a person duly authorized to execute agreements for that party.

18. DISPUTE RESOLUTION

In the event of a dispute arising between the parties regarding performance or interpretation of this Agreement, the dispute shall be resolved by binding arbitration under the auspices of the Judicial Arbitration and Mediation Service ("JAMS"), or similar organization or entity conducting alternate dispute resolution services.

19. ATTORNEY'S FEES, COSTS AND NECESSARY DISBURSEMENTS

If any action at law or in equity or if any proceeding in the form of an Alternative Dispute Resolution (ADR) is necessary to enforce or interpret the terms of this Agreement, the prevailing party shall be entitled to reasonable attorney's fees, costs and necessary disbursements in addition to any other relief to which it may be entitled.

20. PROGRESS REPORTS

Monthly progress reports shall be submitted for review by the tenth (10th) day of the following month and must include as a minimum: 1) current activities, 2) future activities, 3) potential items that are not included in the Scope of Work, 4) concerns and possible delays, 5) percentage of completion, and 6) budget status.

21. WARRANTY

CONSULTANT shall perform its services in accordance with generally accepted industry and professional standards. If, within the 12-month period following completion of its services, the SANITATION DISTRICT informs CONSULTANT that any part of the services fails to meet those standards, CONSULTANT shall, within the time prescribed by the SANITATION DISTRICT, take all such actions as are necessary to correct or complete the noted deficiency(ies).

22. INDEMNIFICATION

To the fullest extent permitted by law, CONSULTANT shall indemnify, defend (at CONSULTANT's sole cost and expense and with legal counsel approved by the SANITATION DISTRICT, which approval shall not be unreasonably withheld), protect and hold harmless the SANITATION DISTRICT and all of SANITATION DISTRICT's officers, directors, employees, consultants, and agents (collectively the "Indemnified Parties"), from and against any and all claims, damages, liabilities, causes of action, suits, arbitration awards, losses, judgments, fines, penalties, costs and expenses including without limitation, attorneys' fees, disbursements and court costs, and all other professional, expert or consultants fees and costs and the SANITATION DISTRICT's general and administrative expenses (individually, a "Claim", or collectively, "Claims") which may arise from or are in any manner related, directly or indirectly, to any work performed, or any operations, activities, or services provided by CONSULTANT in carrying out its obligations under this Agreement to the extent of the negligent, recklessness and/or willful misconduct of CONSULTANT, its principals, officers, agents, employees, CONSULTANT's suppliers, consultants, subconsultants, subcontractors, and/or anyone employed directly or indirectly by any of them, regardless of any contributing negligence or strict liability of an Indemnified Party. Notwithstanding the foregoing, nothing herein shall be construed to require CONSULTANT to indemnify the Indemnified Parties from any Claim arising from:

- (A) the sole or active negligence or willful misconduct of the Indemnified Parties; or
- (B) a natural disaster or other act of God, such as an earthquake; or
- (C) the independent action of a third party who is neither one of the Indemnified Parties nor the CONSULTANT, nor its principal, officer, agent, employee, nor CONSULTANT's supplier, consultant, subconsultant, subcontractor, nor anyone employed directly or indirectly by any of them.

Exceptions (A) through (B) above shall not apply, and CONSULTANT shall, to the fullest extent permitted by law, indemnify the Indemnified Parties, from Claims arising from more than one cause if any such cause taken alone would otherwise result in the obligation to indemnify hereunder.

CONSULTANT's liability for indemnification hereunder is in addition to any liability CONSULTANT may have to the SANITATION DISTRICT for a breach by CONSULTANT of any of the provisions of this Agreement. Under no circumstances shall the insurance requirements and limits set forth in this Agreement be construed to limit CONSULTANT's indemnification obligation or other liability hereunder.

The terms of this Agreement are contractual and the result of negotiation between the parties hereto. Accordingly, any rule of construction of contracts (including, without limitation, California Civil Code Section 1654) that ambiguities are to be construed against the drafting party, shall not be employed in the interpretation of this Agreement.

23. DUTY TO DEFEND

The duty to defend hereunder is wholly independent of and separate from the duty to indemnify and such duty to defend shall exist regardless of any ultimate liability of CONSULTANT and shall be consistent with Civil Code Section 2782.8. Such defense obligation shall arise immediately upon presentation of a Claim by any person if, without regard to the merit of the Claim, such Claim could potentially result in an obligation to indemnify one or more Indemnified Parties, and upon written notice of such Claim being provided to CONSULTANT. Payment to CONSULTANT by any Indemnified Party or the payment or advance of defense costs by any Indemnified Party shall not be a condition precedent to enforcing such Indemnified Party's rights to indemnification hereunder. In the event a final judgment, arbitration, award, order, settlement, or other final resolution expressly determines that the Claim did not arise out of, pertain to, or relate to the negligence, recklessness, or willful misconduct of the CONSULTANT, to any extent, then the SANITATION DISTRICT will reimburse CONSULTANT for the reasonable costs of defending the Indemnified Parties against such claims.

CONSULTANT's indemnification obligation hereunder shall survive the expiration or earlier termination of this Agreement until such time as action against the Indemnified Parties for such matter indemnified hereunder is fully and finally barred by the applicable statute of limitations.

24. CONSULTANT PERFORMANCE

The CONSULTANT's performance shall be evaluated by the SANITATION DISTRICT. A copy of the evaluation shall be sent to the CONSULTANT for comment. The evaluation, together with the comments, shall be retained by the SANITATION DISTRICT and may be considered in future CONSULTANT selection processes.

25. COMPLIANCE WITH SANITATION DISTRICT POLICIES AND PROCEDURES

CONSULTANT shall comply with all SANITATION DISTRICT policies and procedures including the OCSD Safety Standards, as applicable, all of which may be amended from time to time.

26. CLOSEOUT

When the SANITATION DISTRICT determines that all Work authorized under the Agreement is fully complete and that the SANITATION DISTRICT requires no further work from CONSULTANT, or the Agreement is otherwise terminated or expires in accordance with the terms of the Agreement, the SANITATION DISTRICT shall give the Consultant written notice that the Agreement will be closed out. CONSULTANT shall

submit all outstanding billings, work submittals, deliverables, reports or similarly related documents as required under the Agreement within thirty (30) days of receipt of notice of Agreement closeout.

Upon receipt of CONSULTANT's submittals, the SANITATION DISTRICT shall commence a closeout audit of the Agreement and will either:

- i. Give the CONSULTANT a final Agreement Acceptance: or
- ii. Advise the CONSULTANT in writing of any outstanding item or items which must be furnished, completed, or corrected at the CONSULTANT's cost.

CONSULTANT shall be required to provide adequate resources to fully support any administrative closeout efforts identified in this Agreement. Such support must be provided within the timeframe requested by the SANITATION DISTRICT.

Notwithstanding the final Agreement Acceptance the CONSULTANT will not be relieved of its obligations hereunder, nor will the CONSULTANT be relieved of its obligations to complete any portions of the work, the non-completion of which were not disclosed to the SANITATION DISTRICT (regardless of whether such nondisclosures were fraudulent, negligent, or otherwise); and the CONSULTANT shall remain obligated under all those provisions of the Agreement which expressly or by their nature extend beyond and survive final Agreement Acceptance.

Any failure by the SANITATION DISTRICT to reject the work or to reject the CONSULTANT's request for final Agreement Acceptance as set forth above shall not be deemed to be acceptance of the work by the SANITATION DISTRICT for any purpose nor imply acceptance of, or agreement with, the CONSULTANT's request for final Agreement Acceptance.

27. ENTIRE AGREEMENT

This Agreement constitutes the entire understanding and agreement between the parties and supersedes all previous negotiations between them pertaining to the subject matter thereof.

IN WITNESS WHEREOF, this Agreement has been executed in the name of the SANITATION DISTRICT, by its officers thereunto duly authorized, and CONSULTANT as of the day and year first above written.

STANTEC CONSULTING SERVICES, INC.

Ву	
•	Date
Printed Name	& Title
ORANGE COUNTY SANITATION D	ISTRICT
Ву	
By David John Shawver Board Chairman	Date
By Kelly A. Lore	
Kelly A. Lore Clerk of the Board	Date
Ву	
Ruth Zintzun Purchasing & Contracts Manager	Date -
A" – Scope of Work	

Attachments: Attachment "A" - Scope of Work

Attachment "D" - Allowable Direct Costs

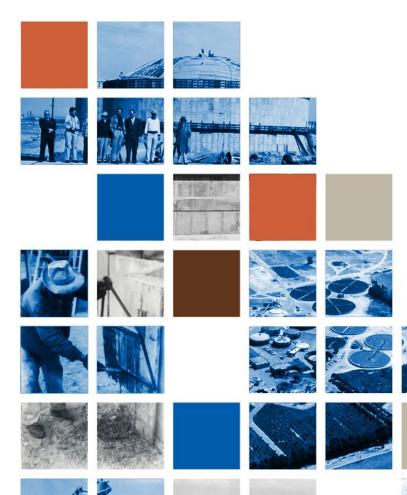
Attachment "E" – Fee Proposal Attachment "G" – Not Attached Attachment "H" – Not Used

Attachment "I" – Cost Matrix and Summary

Attachment "K" - Minor Subconsultant Hourly Rate Schedule

Attachment "L" - OCSD Safety Standards

LDR:ms



Westminster Blvd Force Main Replacement Project No. 3-62

Justin Fenton, Project Manager
Operations Committee
December 4, 2019





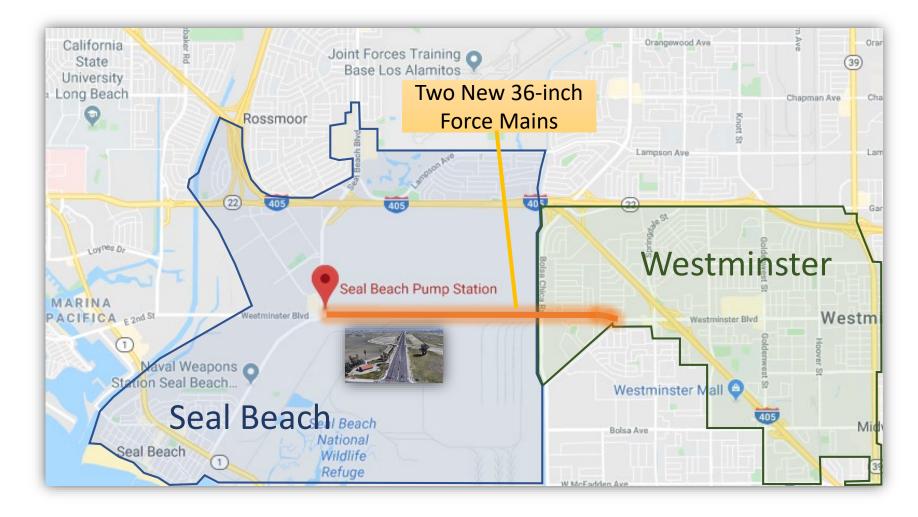
Project Location: Seal Beach & Westminster











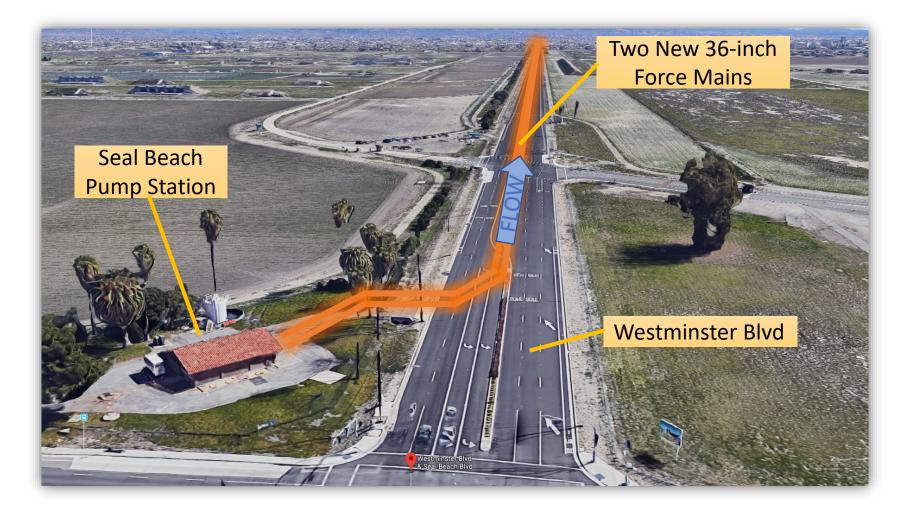
Project Location: Seal Beach & Westminster











Project Location: Seal Beach & Westminster











Bid Results





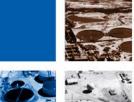




Bidder	Amount of Bid
Engineer's Estimate	\$31,300,000
Teichert Energy & Utilities Group, Inc.	\$27,743,000
Griffith Company	\$28,289,400
Trautwein Construction, Inc.	\$29,262,126
OHL USA, Inc.	\$29,291,200
Mladen Buntich Construction Co., Inc.	\$33,440,500
GRFCO, Inc.	\$34,800,000
W.A. Rasic Construction Company, Inc.	\$39.125.000

Recommended for Award

Recommendation: Construction Contract





- Receive and file Bid Tabulation and Recommendation for Westminster Force Main Replacement, Project No. 3-62;
- Award a Construction Contract to Teichert Energy & Utilities Group, Inc. for Westminster Force Main Replacement, Project No. 3-62, for a total amount not to exceed \$27,743,000; and
- Approve a contingency of \$2,774,300 (10%)

Recommendation: Consultant Services









- Approve a Professional Construction Services
 Agreement with Stantec, Inc. to provide
 construction support services for Westminster
 Force Main Replacement, Project No. 3-62, for a
 total amount not to exceed \$1,183,000; and
- Approve a contingency of \$118,300 (10%).









Questions



Orange County Sanitation District

OPERATIONS COMMITTEE

Administration Building 10844 Ellis Avenue Fountain Valley, CA 92708 (714) 593-7433

Agenda Report

File #: 2019-827 Agenda Date: 12/18/2019 Agenda Item No: 12.

FROM: James D. Herberg, General Manager

Originator: Kathy Millea, Director of Engineering

SUBJECT:

WESTMINSTER BOULEVARD FORCE MAIN REPLACEMENT, PROJECT NO. 3-62

GENERAL MANAGER'S RECOMMENDATION

RECOMMENDATION:

- A. Receive and file Bid Tabulation and Recommendation for Westminster Boulevard Force Main Replacement, Project No. 3-62;
- B. Award a Construction Contract to Teichert Energy & Utilities Group, Inc. for Westminster Boulevard Force Main Replacement, Project No. 3-62, for a total amount not to exceed \$27,743,000; and
- C. Approve a contingency of \$2,774,300.

BACKGROUND

The Seal Beach Pump Station currently discharges all flow through a single 42-inch diameter ductile iron force main that is approaching the end of its useful life. A second 30-inch force main exists. This second pipe is made of a material know to fail catastrophically. It was removed from service approximately four years ago. The Orange County Sanitation District (Sanitation District) was compensated for this faulty pipe material by the original manufacturer many years ago.

This project will replace the two force mains with two parallel 36-inch high-density polyethylene pipes. These force mains run from the Seal Beach Pump Station at the intersection of Seal Beach Boulevard and Westminster Boulevard in the City of Seal Beach, to the intersection of Westminster Boulevard and Rancho Road in the City of Westminster, a distance of approximately 14,000 feet.

RELEVANT STANDARDS

- Achieve less than 2.1 sewer spills per 100 miles
- Comply with California Public Contract Code Section 20103.8, award construction contract to lowest responsive bidder

File #: 2019-827 Agenda Date: 12/18/2019 Agenda Item No: 12.

PROBLEM

The existing unused 30-inch force main is not safe to use due to its poor condition. The 42-inch ductile iron force main is oversized for normal flows, which causes solids to settle and accumulate inside the pipe. That force main has also experienced corrosion and is approaching the end of its useful life.

PROPOSED SOLUTION

Award a Construction Contract for the Westminster Boulevard Force Main Replacement, Project No. 3-62, which will replace the two existing force mains reducing the risks of spills, allowing the force mains to be taken out of service for cleaning and repairs, and reduce the accumulation of solids in the pip due to low velocities.

TIMING CONCERNS

This project includes seasonal work restrictions to ensure that peak wet weather flows can be accommodated throughout construction. Delaying project award will reduce available durations to perform portions of the work that must be completed in advance of the wet season that begins in October 2021.

RAMIFICATIONS OF NOT TAKING ACTION

Not replacing the force mains will increase maintenance actions and will eventually result in the failure of this critical asset. A force main failure would cause a significant sewer spill and will require significant bypassing to perform the repair.

PRIOR COMMITTEE/BOARD ACTIONS

N/A

ADDITIONAL INFORMATION

The Sanitation District advertised Project No. 3-62 for bids on September 25, 2019 and seven sealed bids were received on November 5, 2019. A summary of the bid opening follows:

Engineer's Estimate \$31,300,000

<u>Bidder</u>	Amount of Bid
Teichart Energy & Utilities Group, Inc.	\$ 27,743,000
Griffith Company	\$ 28,289,400
Trautwein Construction, Inc.	\$ 29,262,126
OHL USA, Inc.	\$ 29,291,200
Mladen Buntich Construction Co. Inc.	\$ 33,440,500
GRFCO, Inc.	\$ 34,800,000
W.A. Rasic Construction Company Inc.	\$ 39,125,000

File #: 2019-827 Agenda Date: 12/18/2019 Agenda Item No: 12.

The bids were evaluated in accordance with the Sanitation District's policies and procedures. A notice was sent to all bidders on November 30, 2019 informing them of the intent of the Sanitation District staff to recommend award of the Construction Contract to Teichert Energy & Utilities Group, Inc.

Staff recommends awarding a Construction Contract to the lowest responsive bidder. Teichert Energy & Utilities Group, Inc., for a total amount not to exceed \$27,743,000.

CEQA

The project is exempt from CEQA under the Class 1, 2, 3, and 4 categorical exemptions set forth in California Code of Regulations sections 15301, 15302, 15303, and 15304 because the project involves repairs, replacement, limited construction of new facilities, and minor alteration of existing facilities involving no expansion of use or capacity. A Notice of Exemption will be filed with the OC Clerk-Recorder after the Sanitation District's Board of Directors approval of the construction contract.

FINANCIAL CONSIDERATIONS

This request complies with authority levels of the Sanitation District's Purchasing Ordinance. This item has been budgeted. (FY 2019-20 Budget Update, Appendix A, Page A-7) and the budget is sufficient for this action.

ATTACHMENT

The following attachment(s) may be viewed on-line at the OCSD website (www.ocsd.com) with the complete agenda package:

- Construction Contract
- 12/4/19 Operations Committee Meeting Presentation

JF:dm

PART A CONTRACT AGREEMENT

TABLE OF CONTENTS CONTRACT AGREEMENT

SECTION - 1	GENERAL CONDITIONS	1
SECTION - 2	MATERIALS AND LABOR	4
SECTION - 3	PROJECT	4
SECTION - 4	PLANS AND SPECIFICATONS	5
SECTION - 5	TIME OF COMMENCEMENT AND COMPLETION	5
SECTION - 6	TIME IS OF THE ESSENCE	5
SECTION - 7	EXCUSABLE DELAYS	6
SECTION - 8	EXTRA WORK	6
SECTION - 9	CHANGES IN PROJECT	7
SECTION - 10	LIQUIDATED DAMAGES FOR DELAY	7
SECTION - 11	CONTRACT PRICE AND METHOD OF PAYMENT	7
SECTION - 12	SUBSTITUTION OF SECURITIES IN LIEU OF RETENTION (FUNDS	
SECTION - 13	COMPLETION	10
SECTION - 14	CONTRACTOR'S EMPLOYEES COMPENSATION	10
SECTION - 15	SURETY BONDS	12
SECTION - 16	INSURANCE	13
SECTION - 17	RISK AND INDEMNIFICATION	22
SECTION - 18	TERMINATION	22
SECTION - 19	WARRANTY	23
SECTION - 20	ASSIGNMENT	24
SECTION - 21	RESOLUTION OF DISPUTES	24
SECTION - 22	SAFETY & HEALTH	24
SECTION - 23	NOTICES	25

CONTRACT AGREEMENT

ORANGE COUNTY SANITATION DISTRICT

PROJECT NO. 3-62

WESTMINSTER BOULEVARD FORCE MAIN REPLACEMENT

THIS AGREEMENT is made and entered into, to be effective, this December 18, 2019, by and between Teichert Energy & Utilities Group, Inc., hereinafter referred to as "CONTRACTOR" and the Orange County Sanitation District, hereinafter referred to as "OCSD".

<u>WITNESSETH</u>

That for and in consideration of the promises and agreements hereinafter made and exchanged, OCSD and CONTRACTOR agree as follows:

SECTION – 1 GENERAL CONDITIONS

CONTRACTOR certifies and agrees that all the terms, conditions and obligations of the Contract Documents as hereinafter defined, the location of the job site, and the conditions under which the Work is to be performed have been thoroughly reviewed, and enters into this Contract based upon CONTRACTOR's investigation of all such matters and is in no way relying upon any opinions or representations of OCSD. It is agreed that this Contract represents the entire agreement. It is further agreed that the Contract Documents are each incorporated into this Contract by reference, with the same force and effect as if the same were set forth at length herein, and that CONTRACTOR and its Subcontractors, if any, will be and are bound by any and all of said Contract Documents insofar as they relate in any part or in any way, directly or indirectly, to the Work covered by this Contract.

A. Contract Documents Order of Precedence

"Contract Documents" refers to those documents identified in the definition of "Contract Documents" in the General Conditions – Definitions.

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- In the event of a conflict between one Contract Document and any of the other Contract Documents, the provisions in the document highest in precedence shall be controlling. The order of precedence of the Contract Documents is as follows:
 - a. Supplemental Agreements the last in time being the first in precedence
 - b. Addenda issued prior to opening of Bids the last in time being the first in precedence
 - c. Contract Agreement
 - d. Permits and other regulatory requirements
 - e. Special Provisions
 - f. General Conditions (GC)
 - g. Notice Inviting Bids and Instruction to Bidders
 - h. Geotechnical Baseline Report (GBR), if attached as a Contract Document
 - i. Plans and Specifications in these documents the order of precedence shall be:
 - i. Specifications (Divisions 01-17)
 - ii. Plans
 - iii. General Requirements (GR)
 - iv. Standard Drawings and Typical Details
 - i. CONTRACTOR's Bid
- 2. In the event of a conflict between terms within an individual Contract Document, the conflict shall be resolved by applying the following principles as appears applicable:
 - a. Figured dimensions on the Contract Documents shall govern. Dimensions not specified shall be as directed by the ENGINEER. Details not shown or specified shall be the same as similar parts that are shown or specified, or as directed. Full-size details shall take precedence over scale Drawings as to

- shape and details of construction. Specifications shall govern as to material and workmanship.
- b. The Contract Documents calling for the higher quality material or workmanship shall prevail. Materials or Work described in words, which so applied, have a well known technical or trade meaning shall be deemed to refer to such recognized standards. In the event of any discrepancy between any Drawings and the figures thereon, the figures shall be taken as correct.
- c. Scale Drawings, full-size details, and Specifications are intended to be fully complementary and to agree. Should any discrepancy between Contract Documents come to the CONTRACTOR's attention, or should an error occur in the efforts of others, which affect the Work, the CONTRACTOR shall notify the ENGINEER, in writing, at once. In the event any doubts or questions arise with respect to the true meaning of the Contract Documents, reference shall be made to the ENGINEER whose written decision shall be final. If the CONTRACTOR proceeds with the Work affected without written instructions from the ENGINEER, the CONTRACTOR shall be fully responsible for any resultant damage or defect.
- d. Anything mentioned in the Specifications and not indicated in the Plans, or indicated in the Plans and not mentioned in the Specifications, shall be of like effect as if indicated and mentioned in both. In case of discrepancy in the Plans or Specifications, the matter shall be immediately submitted to OCSD's ENGINEER, without whose decision CONTRACTOR shall not adjust said discrepancy save only at CONTRACTOR's own risk and expense. The decision of the ENGINEER shall be final.

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In all matters relating to the acceptability of material, machinery or plant equipment; classifications of material or Work; the proper execution, progress or sequence of the Work; and quantities interpretation of the Contract Documents, the decision of the ENGINEER shall be final and binding, and shall be a condition precedent to any payment under the Contract, unless otherwise ordered by the Board of Directors.

B. Definitions

Capitalized terms used in this Contract are defined in the General Conditions, Definitions.

Additional terms may be defined in the Special Provisions.

SECTION – 2 MATERIALS AND LABOR

CONTRACTOR shall furnish, under the conditions expressed in the Plans and Specifications, at CONTRACTOR'S own expense, all labor and materials necessary, except such as are mentioned in the Specifications to be furnished by OCSD, to construct and complete the Project, in good workmanlike and substantial order. If CONTRACTOR fails to pay for labor or materials when due, OCSD may settle such claims by making demand upon the Surety to this Contract. In the event of the failure or refusal of the Surety to satisfy said claims, OCSD may settle them directly and deduct the amount of payments from the Contract Price and any amounts due to CONTRACTOR. In the event OCSD receives a stop payment notice from any laborer or material supplier alleging non-payment by CONTRACTOR, OCSD shall be entitled to deduct all of its costs and expenses incurred relating thereto, including but not limited to administrative and legal fees.

SECTION – 3 PROJECT

The Project is described as:

PROJECT NO. 3-62

WESTMINSTER BOULEVARD FORCE MAIN REPLACEMENT

SECTION – 4 PLANS AND SPECIFICATIONS

The Work to be done is shown in a set of Plans and Specifications entitled:

PROJECT NO. 3-62

WESTMINSTER BOULEVARD FORCE MAIN REPLACEMENT

Said Plans and Specifications and any revision, amendments and addenda thereto are attached hereto and incorporated herein as part of this Contract and referred to by reference.

SECTION – 5 TIME OF COMMENCEMENT AND COMPLETION

CONTRACTOR agrees to commence the Project within 15 calendar days from the date set forth in the "Notice to Proceed" sent by OCSD, unless otherwise specified therein and shall diligently prosecute the Work to completion within nine hundred seventy-eight (978) calendar days from the date of the "Notice to Proceed" issued by OCSD, excluding delays caused or authorized by OCSD as set forth in Sections 7, 8, and 9 hereof, and applicable provisions in the General Conditions. The time for completion includes fourteen (14) calendar days determined by OCSD likely to be inclement weather when CONTRACTOR will be unable to work.

In addition, CONTRACTOR shall accomplish such milestones within the periods of performance set forth in Appendix A of the Special Provisions entitled "Work Completion Schedule."

SECTION – 6 TIME IS OF THE ESSENCE

Time is of the essence of this Contract. As required by the Contract Documents, CONTRACTOR shall prepare and obtain approval of all shop drawings, details and samples, and do all other things necessary and incidental to the prosecution of CONTRACTOR's Work in conformance with an approved construction progress schedule. CONTRACTOR shall coordinate the Work covered by this Contract with that of all other contractors, subcontractors and of OCSD, in a manner that will facilitate the efficient completion of the entire Work and accomplish the required milestone(s), if any, by the applicable deadline(s) in accordance with Section 5 herein. OCSD shall have the right to assert complete control of the premises on

CONFORMED C-CA-072619

which the Work is to be performed and shall have the right to decide the time or order in which the various portions of the Work shall be installed or the priority of the work of subcontractors, and, in general, all matters representing the timely and orderly conduct of the Work of CONTRACTOR on the premises.

SECTION – 7 EXCUSABLE DELAYS

CONTRACTOR shall only be excused for any delay in the prosecution or completion of the Project as specifically provided in General Conditions, "Extensions for Delay", and the General Requirements, "By CONTRACTOR or Others – Unknown Utilities during Contract Work". Extensions of time and extra compensation arising from such excusable delays will be determined in accordance with the General Conditions, "Extension of Time for Delay" and "Contract Price Adjustments and Payments", and extensions of time and extra compensation as a result of incurring undisclosed utilities will be determined in accordance with General Requirements, "By CONTRACTOR or Others – Unknown Utilities during Contract Work".

OCSD's decision will be conclusive on all parties to this Contract.

SECTION – 8 EXTRA WORK

The Contract Price as set forth in Section 11, includes compensation for all Work performed by CONTRACTOR, unless CONTRACTOR obtains a Change Order signed by a designated representative of OCSD specifying the exact nature of the Extra Work and the amount of extra compensation to be paid all as more particularly set forth in Section 9 hereof and the General Conditions, "Request for Change (Changes at CONTRACTOR's Request)", "OWNER Initiated Changes", and "Contract Price Adjustments and Payments".

In the event a Change Order is issued by OCSD pursuant to the Contract Documents, OCSD shall extend the time fixed in Section 5 for completion of the Project by the number of days, if

any, reasonably required for CONTRACTOR to perform the Extra Work, as determined by OCSD's ENGINEER. The decision of the ENGINEER shall be final.

CHANGES IN PROJECT SECTION - 9

OCSD may at any time, without notice to any Surety, by Change Order, make any changes in the Work within the general scope of the Contract Document, including but not limited to changes:

- 1. In the Specifications (including Drawings and designs);
- 2. In the time, method or manner of performance of the Work;
- 3. In OCSD-furnished facilities, equipment, materials, services or site; or
- Directing acceleration in the performance of the Work. 4.

No change of period of performance or Contract Price, or any other change in the Contract Documents, shall be binding until the Contract is modified by a fully executed Change Order.

All Change Orders shall be issued in accordance with the requirements set forth in the General Conditions, "Request for Change (Changes at CONTRACTOR's Request)" and "OWNER Initiated Changes".

SECTION – 10 LIQUIDATED DAMAGES FOR DELAY

Liquidated Damages shall be payable in the amounts and upon the occurrence of such events or failure to meet such requirements or deadlines as provided in the Special Provisions, "Liquidated Damages and Incentives."

CONTRACT PRICE AND METHOD OF PAYMENT SECTION – 11

Α. OCSD agrees to pay and the CONTRACTOR agrees to accept as full consideration for the faithful performance of this Contract, subject to any additions or deductions as provided in approved Change Orders, the sum of Twenty-Seven Million Seven Hundred Forty-Three Thousand Dollars (\$27,743,000) as itemized on the Attached Exhibit "A".

CONFORMED C-CA-072619 PROJECT NO. 3-62 Upon satisfaction of the conditions precedent to payment set forth in the General Requirements, Additional General Requirements and General Conditions (including but not limited to Sections entitled "Mobilization Payment Requirements" and "Payment Itemized Breakdown of Contract Lump Sum Prices"), there shall be paid to the CONTRACTOR an initial Net Progress Payment for mobilization. OCSD shall issue at the commencement of the job a schedule which shows:

- A minimum of one payment to be made to the CONTRACTOR for each successive four (4) week period as the Work progresses, and
- 2. The due dates for the CONTRACTOR to submit requests for payment to meet the payment schedule.

After the initial Net Progress Payment, and provided the CONTRACTOR submits the request for payment prior to the end of the day required to meet the payment schedule, the CONTRACTOR shall be paid a Net Progress Payment on the corresponding monthly payment date set forth in the schedule.

Payments shall be made on demands drawn in the manner required by law, accompanied by a certificate signed by the ENGINEER, stating that the Work for which payment is demanded has been performed in accordance with the terms of the Contract Documents, and that the amount stated in the certificate is due under the terms of the Contract.

Payment applications shall also be accompanied with all documentation, records, and releases as required by the Contract, Exhibit A, Schedule of Prices, and General Conditions, "Payment for Work – General". The Total amount of Progress Payments shall not exceed the actual value of the Work completed as certified by OCSD's ENGINEER.

The processing of payments shall not be considered as an acceptance of any part of the Work.

- B. As used in this Section, the following defined terms shall have the following meanings:
 - "Net Progress Payment" means a sum equal to the Progress Payment less the Retention Amount and other qualified deductions (Liquidated Damages, stop payment notices, etc.).
 - 2. "Progress Payment" means a sum equal to:
 - a. the value of the actual Work completed since the commencement of the Work as determined by OCSD;
 - plus the value of material suitably stored at the worksite, treatment plant or approved storage yards subject to or under the control of OCSD since the commencement of the Work as determined by OCSD;
 - c. less all previous Net Progress Payments;
 - d. less all amounts of previously qualified deductions;
 - e. less all amounts previously retained as Retention Amounts.
 - 3. "Retention Amount" for each Progress Payment means the percentage of each Progress Payment to be retained by OCSD to assure satisfactory completion of the Contract. The amount to be retained from each Progress Payment shall be determined as provided in the General Conditions –"Retained Funds; Substitution of Securities."

SECTION – 12 SUBSTITUTION OF SECURITIES IN LIEU OF RETENTION OF FUNDS

Pursuant to Public Contract Code Section 22300 et seq., the CONTRACTOR may, at its sole expense, substitute securities as provided in General Conditions – "Retained Funds; Substitution of Securities."

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SECTION - 13 COMPLETION

Final Completion and Final Acceptance shall occur at the time and in the manner specified in the General Conditions, "Final Acceptance and Final Completion", "Final Payment" and Exhibit A - Schedule of Prices.

Upon receipt of all documentation, records, and releases as required by the Contract from the CONTRACTOR, OCSD shall proceed with the Final Acceptance as specified in General Conditions.

SECTION – 14 CONTRACTOR'S EMPLOYEES COMPENSATION

A. <u>Davis-Bacon Act:</u>

CONTRACTOR will pay and will require all Subcontractors to pay all employees on said Project a salary or wage at least equal to the prevailing rate of per diem wages as determined by the Secretary of Labor in accordance with the Davis-Bacon Act for each craft or type of worker needed to perform the Contract. The provisions of the Davis-Bacon Act shall apply only if the Contract is in excess of Two Thousand Dollars (\$2,000.00) and when twenty-five percent (25%) or more of the Contract is funded by federal assistance. If the aforesaid conditions are met, a copy of the provisions of the Davis-Bacon Act to be complied with are incorporated herein as a part of this Contract and referred to by reference.

B. <u>General Prevailing Rate:</u>

OCSD has been advised by the State of California Director of Industrial Relations of its determination of the general prevailing rate of per diem wages and the general prevailing rate for legal holiday and overtime Work in the locality in which the Work is to be performed for each craft or type of Work needed to execute this Contract, and copies of the same are on file in the Office of the ENGINEER of OCSD. The CONTRACTOR

agrees that not less than said prevailing rates shall be paid to workers employed on this public works Contract as required by Labor Code Section 1774 of the State of California. Per California Labor Code 1773.2, OCSD will have on file copies of the prevailing rate of per diem wages at its principal office and at each job site, which shall be made available to any interested party upon request.

C. Forfeiture for Violation:

CONTRACTOR shall, as a penalty to OCSD, forfeit Two Hundred Dollars (\$200.00) for each calendar day or portion thereof for each worker paid (either by the CONTRACTOR or any Subcontractor under it) less than the prevailing rate of per diem wages as set by the Director of Industrial Relations, in accordance with Sections 1770-1780 of the California Labor Code for the Work provided for in this Contract, all in accordance with Section 1775 of the Labor Code of the State of California.

D. Apprentices:

Sections 1777.5, 1777.6, 1777.7 of the Labor Code of the State of California, regarding the employment of apprentices are applicable to this Contract and the CONTRACTOR shall comply therewith if the prime contract involves Thirty Thousand Dollars (\$30,000.00) or more.

E. Workday:

In the performance of this Contract, not more than eight (8) hours shall constitute a day's work, and the CONTRACTOR shall not require more than eight (8) hours of labor in a day from any person employed by him hereunder except as provided in paragraph (B) above. CONTRACTOR shall conform to Article 3, Chapter 1, Part 7 (Section 1810 et seq.) of the Labor Code of the State of California and shall forfeit to OCSD as a penalty, the sum of Twenty-five Dollars (\$25.00) for each worker employed in the execution of this Contract by CONTRACTOR or any Subcontractor for each calendar day during which any worker is

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required or permitted to labor more than eight (8) hours in any one calendar day and forty (40) hours in any one week in violation of said Article. CONTRACTOR shall keep an accurate record showing the name and actual hours worked each calendar day and each calendar week by each worker employed by CONTRACTOR in connection with the Project.

F. Registration; Record of Wages; Inspection:

CONTRACTOR shall comply with the registration requirements of Labor Code Section 1725.5. Pursuant to Labor Code Section 1771.4, the Work is subject to compliance monitoring by the California Department of Industrial Relations. CONTRACTOR shall maintain accurate payroll records and shall submit payroll records to the Labor Commissioner pursuant to Labor Code Section 1771.4(a)(3). Penalties for non-compliance with the requirements of Section 1776 may be deducted from progress payments per Section 1776.

CONTRACTOR shall comply with the job site notices posting requirements established by the Labor Commissioner per Title 8, California Code of Regulations Section 16461(e).

SECTION – 15 SURETY BONDS

CONTRACTOR shall, before entering upon the performance of this Contract, furnish Bonds approved by OCSD's General Counsel – one in the amount of one hundred percent (100%) of the Contract amount, to guarantee the faithful performance of the Work, and the other in the amount of one hundred percent (100%) of the Contract amount to guarantee payment of all claims for labor and materials furnished. As changes to the Contract occur via approved Change Orders, the CONTRACTOR shall assure that the amounts of the Bonds are adjusted to maintain one hundred percent (100%) of the Contract Price. This Contract shall not become effective until such Bonds are supplied to and approved by OCSD. Bonds must be issued by a Surety authorized by the State Insurance Commissioner to do business in California. The Performance Bond shall remain in full force and effect through the warranty period, as specified

in Section 19 below. All Bonds required to be submitted relating to this Contract must comply with California Code of Civil Procedure Section 995.630. Each Bond shall be executed in the name of the Surety insurer under penalty of perjury, or the fact of execution of each Bond shall be duly acknowledged before an officer authorized to take and certify acknowledgments, and either one of the following conditions shall be satisfied:

- A. A copy of the transcript or record of the unrevoked appointment, power of attorney, bylaws, or other instrument, duly certified by the proper authority and attested by the seal of the insurer entitling or authorizing the person who executed the Bond to do so for and on behalf of the insurer, is on file in the Office of the County Clerk of the County of Orange; or
- B. A copy of a valid power of attorney is attached to the Bond.

SECTION – 16 INSURANCE

CONTRACTOR shall purchase and maintain, for the duration of the Contract, insurance against claims for injuries to persons, or damages to property which may arise from or in connection with the performance of the Work hereunder, and the results of that Work by CONTRACTOR, its agents, representatives, employees, or Subcontractors, in amounts equal to the requirements set forth below. CONTRACTOR shall not commence Work under this Contract until all insurance required under this Section is obtained in a form acceptable to OCSD, nor shall CONTRACTOR allow any Subcontractor to commence Work on a subcontract until all insurance required of the Subcontractor has been obtained. CONTRACTOR shall maintain all of the foregoing insurance coverages in force through the point at which the Work under this Contract is fully completed and accepted by OCSD pursuant to the provisions of the General Conditions, "Final Acceptance and Final Completion". Furthermore, CONTRACTOR shall maintain all of the foregoing insurance coverages in full force and effect throughout the warranty period, commencing on the date of Final Acceptance. The requirement for carrying the foregoing insurance shall not derogate from the provisions for indemnification of OCSD by

CONFORMED C-CA-072619

CONTRACTOR under Section 17 of this Contract. Notwithstanding nor diminishing the obligations of CONTRACTOR with respect to the foregoing, CONTRACTOR shall subscribe for and maintain in full force and effect during the life of this Contract, inclusive of all changes to the Contract Documents made in accordance with the provisions of the General Conditions, "Request for Change (Changes at CONTRACTOR's Request)" and/or "OWNER Initiated Changes", the following insurance in amounts not less than the amounts specified. OCSD reserves the right to amend the required limits of insurance commensurate with the CONTRACTOR's risk at any time during the course of the Project. No vehicles may enter OCSD premises/worksite without possessing the required insurance coverage. CONTRACTOR's insurance shall also comply with all insurance requirements prescribed by agencies from whom permits shall be obtained for the Work and any other third parties from whom third party agreements are necessary to perform the Work (collectively, the "Third Parties"), The Special Provisions may list such requirements and sample forms and requirements from such Third Parties may be included in an attachment to the General Requirements. CONTRACTOR bears the responsibility to discover and comply with all requirements of Third Parties, including meeting specific insurance requirements, that are necessary for the complete performance of the Work. To the extent there is a conflict between the Third Parties' insurance requirements and those set forth by OCSD herein, the requirement(s) providing the more protective coverage for both OSCD and the Third Parties shall control and be purchased and maintained by CONTRACTOR.

A. Limits of Insurance

- General Liability: Ten Million Dollars (\$10,000,000) per occurrence and a general aggregate limit of Twenty Million Dollars (\$20,000,000) for bodily injury, personal injury and property damage. Coverage shall include each of the following:
 - a. Premises-Operations.

- b. Products and Completed Operations, with limits of at least Ten Million Dollars (\$10,000,000) per occurrence and a general aggregate limit of Twenty Million Dollars (\$20,000,000) which shall be in effect at all times during the warranty period set forth in the Warranty section herein, and as set forth in the General Conditions, "Warranty (CONTRACTOR's Guarantee)", plus any additional extension or continuation of time to said warranty period that may be required or authorized by said provisions.
- Broad Form Property Damage, expressly including damage arising out of explosion, collapse, or underground damage.
- d. Contractual Liability, expressly including the indemnity provisions assumed under this Contract.
- e. Separation of Insured Clause, providing that coverage applies separately to each insured, except with respect to the limits of liability.
- f. Independent CONTRACTOR's Liability.
 - To the extent first dollar coverage, including defense of any claim, is not available to OCSD or any other additional insured because of any SIR, deductible, or any other form of self insurance, CONTRACTOR is obligated to assume responsibility of insurer until the deductible, SIR or other condition of insurer assuming its defense and/or indemnity has been satisfied.
 - CONTRACTOR shall be responsible to pay any deductible or SIR.
- g. If a crane will be used, the General Liability insurance will be endorsed to add Riggers Liability coverage or its equivalent to cover the usage of the crane and exposures with regard to the crane operators, riggers and others involved in using the crane.

- If divers will be used, the General Liability insurance will be endorsed to cover marine liability or its equivalent to cover the usage of divers.
- 2. <u>Automobile Liability</u>: The CONTRACTOR shall maintain a policy of Automobile Liability Insurance on a comprehensive form covering all owned, non-owned, and hired automobiles, trucks, and other vehicles providing the following minimum limits of liability coverage:
 - Either (1) a combined single limit of Five Million Dollars (\$5,000,000) and a general aggregate limit of Five Million Dollars (\$5,000,000) for bodily injury, personal injury and property damage;
 - Or alternatively, (2) Five Million Dollars (\$5,000,000) per person for bodily injury and Five Million Dollars (\$5,000,000) per accident for property damage.
- 3. <u>Umbrella Excess Liability</u>: The minimum limits of general liability and automobile liability insurance required, as set forth above, shall be provided for either in a single policy of primary insurance or a combination of policies of primary and umbrella excess coverage. Excess liability coverage shall be issued with limits of liability which, when combined with the primary insurance, will equal the minimum limits for general liability and automobile liability.
- Drone Liability Insurance: If a drone will be used, drone liability insurance must be maintained by CONTRACTOR in the amount of One Million Dollars (\$1,000,000) in a form acceptable by OCSD.
- 5. Worker's Compensation/Employer's Liability: CONTRACTOR shall provide such Worker's Compensation Insurance as required by the Labor Code of the State of California, including employer's liability with a minimum limit of One Million Dollars (\$1,000,000) per accident for bodily injury or disease. If an exposure to Jones Act

liability may exist, the insurance required herein shall include coverage with regard to Jones Act claims.

Where permitted by law, CONTRACTOR hereby waives all rights of recovery by subrogation because of deductible clauses, inadequacy of limits of any insurance policy, limitations or exclusions of coverage, or any other reason against OCSD, its or their officers, agents, or employees, and any other contractor or subcontractor performing Work or rendering services on behalf of OCSD in connection with the planning, development and construction of the Project. In all its insurance coverages related to the Work, CONTRACTOR shall include clauses providing that each insurer shall waive all of its rights of recovery by subrogation against OCSD, its or their officers, agents, or employees, or any other contractor or subcontractor performing Work or rendering services at the Project. Where permitted by law, CONTRACTOR shall require similar written express waivers and insurance clauses from each of its Subcontractors of every tier. A waiver of subrogation shall be effective as to any individual or entity, even if such individual or entity (a) would otherwise have a duty of indemnification, contractual or otherwise, (b) did not pay the insurance premium, directly or indirectly, and (c) whether or not such individual or entity has an insurable interest in the property damaged.

6. Pollution Liability Insurance: CONTRACTOR shall purchase and maintain insurance for pollution liability covering bodily injury, property damage (including loss of use of damaged property or property that has not been physically injured or destroyed), cleanup costs, and defense costs (including costs and expenses for investigation, defense, or settlement of claims). Coverage shall carry limits of at least Two Million Dollars (\$2,000,000) and shall apply to sudden and non-sudden pollution conditions

CONFORMED C-CA-072619 PROJECT NO. 3-62 (including sewage spills), both at the site or needed due to migration of pollutants from the site, resulting from the escape or release of smoke, vapors, fumes, acids, alkalis, toxic chemicals, liquids or gases, waste materials, or other irritants, contaminants or pollutants.

If CONTRACTOR provides coverage written on a claims-made basis, OCSD has the right to approve or reject such coverage in its own discretion. If written on a claims-made basis, the CONTRACTOR warrants that any retroactive date applicable to coverage under the policy precedes the effective date of this Contract, and that continuous coverage will be maintained, or an extended discovery period will be exercised, for a period of two years beginning from the time that the Project under this Contract is completed.

7. <u>Limits are Minimums</u>: If CONTRACTOR maintains higher limits than the minimums shown in this Section, OCSD requires and shall be entitled to coverage for the higher limits maintained by the CONTRACTOR.

B. Deductibles and Self-Insured Retentions

Any deductibles or self-insured retentions must be declared to and approved by OCSD. At the option of OCSD, either: the Insurer shall reduce or eliminate such deductibles or self-insured retentions as respects OCSD, its Directors, officers, agents, CONSULTANTS, and employees; or CONTRACTOR shall provide a financial guarantee satisfactory to OCSD guaranteeing payment of losses and related investigations, claim administration, and defense expenses.

C. Other Insurance Provisions

1. Each such policy of General Liability Insurance and Automobile Liability Insurance shall be endorsed to contain, the following provisions:

- a. OCSD, its Directors, officers, agents, CONSULTANTS, and employees, and all public agencies from whom permits will be obtained, and their Directors, officers, agents, and employees are hereby declared to be additional insureds under the terms of this policy, but only with respect to the operations of CONTRACTOR at or from any of the sites of OCSD in connection with this Contract, or acts and omissions of the additional insured in connection with its general supervision or inspection of said operations related to this Contract.
- b. Insurance afforded by the additional insured endorsement shall apply as primary insurance, and other insurance maintained by OCSD shall be excess only and not contributing with insurance provided under this policy.
- 2. Each insurance policy required herein shall be endorsed to state that coverage shall not be cancelled by either party, except after thirty (30) days prior written notice by certified mail, return receipt requested, and that coverage shall not be cancelled for non-payment of premium except after ten (10) days prior written notice by certified mail, return receipt requested. Should there be changes in coverage or an increase in deductible or SIR amounts, CONTRACTOR undertakes to procure a manuscript endorsement from its insurer giving 30 days prior notice of such an event to OCSD, or to have its insurance broker/agent send to OCSD a certified letter describing the changes in coverage and any increase in deductible or SIR amounts. The certified letter must be sent Attention: Risk Management and shall be received not less than twenty (20) days prior to the effective date of the change(s). The letter must be signed by a Director or Officer of the broker/agent and must be on company letterhead, and may be sent via e-mail in pdf format.

CONFORMED C-CA-072619
PROJECT NO. 3-62

- Coverage shall not extend to any indemnity coverage for the active negligence of any additional insured in any case where an agreement to indemnify the additional insured would be invalid under California Civil Code Section 2782(b).
- 4. If required by a public agency from whom permit(s) will be obtained, each policy of General Liability Insurance and Automobile Liability Insurance shall be endorsed to specify by name the public agency and its legislative members, officers, agents, CONSULTANTS, and employees, to be additional insureds.

D. Acceptability of Insurers

Insurers must have an "A-", or better, Policyholder's Rating, and a Financial Rating of at least Class VIII, or better, in accordance with the most current A.M. Best Rating Guide. OCSD recognizes that State Compensation Insurance Fund has withdrawn from participation in the A.M. Best Rating Guide process. Nevertheless, OCSD will accept State Compensation Insurance Fund for the required policy of worker's compensation insurance, subject to OCSD's option, at any time during the term of this Contract, to require a change in insurer upon twenty (20) days written notice. Further, OCSD will require CONTRACTOR to substitute any insurer whose rating drops below the levels herein specified. Said substitution shall occur within twenty (20) days of written notice to CONTRACTOR by OCSD or its agent.

E. <u>Verification of Coverage</u>

CONTRACTOR shall furnish OCSD with original certificates and mandatory endorsements affecting coverage. Said policies and endorsements shall conform to the requirements herein stated. All certificates and endorsements are to be received and approved by OCSD before Work commences. OCSD reserves the right to require complete, certified copies of all required insurance policies, including endorsements, affecting the coverage required by these Specifications at any time.

F. Subcontractors

CONTRACTOR shall be responsible to establish insurance requirements for any Subcontractors hired by CONTRACTOR. The insurance shall be in amounts and types reasonably sufficient to deal with the risk of loss involving the Subcontractor's operations and work. OCSD and any public agency issuing permits for the Project must be named as "Additional Insured" on any General Liability or Automobile Liability policy obtained by a Subcontractor. The CONTRACTOR must obtain copies and maintain current versions of all Subcontractors' policies, Certificate of Liability and mandatory endorsements effecting coverage. Upon request, CONTRACTOR must furnish OCSD with the above referenced required documents.

G. Required Forms and Endorsements

1. Required ACORD Form

a. Certificate of Liability

Form 25

2. Required Insurance Services Office, Inc. Endorsements (when alternative forms are shown, they are listed in order of preference)

In the event any of the following forms are cancelled by Insurance Services Office, Inc. (ISO), or are updated, the ISO replacement form or equivalent must be supplied.

a. Commercial General Liability Form CG-0001 10 01

b. Additional Insured Including Form CG-2010 10 01 **and**Products-Completed Operations Form CG-2037 10 01

c. Waiver of Transfer of Rights of Recovery Against Others to Us/ Form CG-2404 11 85; **or** Waiver of Subrogation

3. Required State Compensation Insurance Fund Endorsements

a. Waiver of Subrogation Endorsement No. 2570

b. Cancellation Notice Endorsement No. 2065

4. <u>Additional Required Endorsements</u>

a. Notice of Policy Termination

Manuscript Endorsement

5. Pollution Liability Endorsements

There shall be a Separation of Insured Clause or endorsement, providing that coverage applies separately to each insured, except with respect to the limits of liability. There shall also be an endorsement or policy language containing a waiver of subrogation rights on the part of the insurer.

OCSD, its directors, officers, agents, CONSULTANTS and employees and all public agencies from whom permits will be obtained as well as their directors, officers, agents, and employees shall be included as insureds under the policy. Any additional insured endorsement shall contain language at least as broad as the coverage language contained in ISO form CG 20 10 11 85 or alternatively in both CG 20 10 10 01 and CG 20 37 10 01 together.

SECTION - 17 RISK AND INDEMNIFICATION

All Work covered by this Contract done at the site of construction or in preparing or delivering materials to the site shall be at the risk of CONTRACTOR alone. CONTRACTOR shall save, indemnify, defend, and keep OCSD and others harmless as more specifically set forth in General Conditions, "General Indemnification".

SECTION – 18 TERMINATION

This Contract may be terminated in whole or in part in writing by OCSD in the event of substantial failure by the CONTRACTOR to fulfill its obligations under this Agreement, or it may be terminated by OCSD for its convenience provided that such termination is effectuated in a manner and upon such conditions set forth more particularly in General Conditions,

"Termination for Default" and/or "Termination for Convenience", provided that no termination may be effected unless proper notice is provided to CONTRACTOR at the time and in the

manner provided in said General Conditions. If termination for default or convenience is effected by OCSD, an equitable adjustment in the price provided for in this Contract shall be made at the time and in the manner provided in the General Conditions, "Termination for Default" and "Termination for Convenience".

SECTION - 19 WARRANTY

The CONTRACTOR agrees to perform all Work under this Contract in accordance with the Contract Documents, including OCSD's designs, Drawings and Specifications.

The CONTRACTOR guarantees for a period of at least one (1) year from the date of Final Acceptance of the Work, pursuant to the General Conditions, "Final Acceptance and Final Completion" that the completed Work is free from all defects due to faulty materials, equipment or workmanship and that it shall promptly make whatever adjustments or corrections which may be necessary to cure any defects, including repairs of any damage to other parts of the system resulting from such defects. OCSD shall promptly give notice to the CONTRACTOR of observed defects. In the event that the CONTRACTOR fails to make adjustments, repairs, corrections or other work made necessary by such defects, OCSD may do so and charge the CONTRACTOR the cost incurred. The CONTRACTOR's warranty shall continue as to any corrected deficiency until the later of (1) the remainder of the original one-year warranty period; or (2) one year after acceptance by OCSD of the corrected Work. The Performance Bond and the Payment Bond shall remain in full force and effect through the guarantee period.

The CONTRACTOR's obligations under this clause are in addition to the CONTRACTOR's other express or implied assurances under this Contract, including but not limited to specific manufacturer or other extended warranties specified in the Plans and Specifications, or state law and in no way diminish any other rights that OCSD may have against the CONTRACTOR for faulty materials, equipment or Work.

CONFORMED C-CA-072619
PROJECT NO. 3-62

SECTION - 20 ASSIGNMENT

No assignment by the CONTRACTOR of this Contract or any part hereof, or of funds to be

received hereunder, will be recognized by OCSD unless such assignment has had prior written

approval and consent of OCSD and the Surety.

SECTION – 21 RESOLUTION OF DISPUTES

OCSD and the CONTRACTOR shall comply with the provisions of California Public Contract

Code Section 20104 et. seq., regarding resolution of construction claims for any Claims which

arise between the CONTRACTOR and OCSD, as well as all applicable dispute and Claims

provisions as set forth in the General Conditions and as otherwise required by law.

SECTION – 22 SAFETY & HEALTH

CONTRACTOR shall comply with all applicable safety and health requirements mandated by

federal, state, city and/or public agency codes, permits, ordinances, regulations, and laws, as

well as these Contract Documents, including but not limited to the General Requirements,

Section entitled "Safety" and Exhibit B OCSD Safety Standards.

C-CA-072619 PROJECT NO. 3-62 WESTMINSTER BOULEVARD FORCE MAIN REPLACEMENT CONFORMED

SECTION - 23 NOTICES

Any notice required or permitted under this Contract shall be sent by certified mail, return receipt requested, at the address set forth below. Any party whose address changes shall notify the other party in writing.

TO OCSD: Orange County Sanitation District

10844 Ellis Avenue

Fountain Valley, California 92708-7018

Attn: Clerk of the Board

Copy to: Orange County Sanitation District

10844 Ellis Avenue

Fountain Valley, California 92708-7018

Attn: Construction Manager

Bradley R. Hogin, Esquire Woodruff, Spradlin & Smart

555 Anton Boulevard

Suite 1200

Costa Mesa, California 92626

TO CONTRACTOR: Teichert Energy & Utilities Group, Inc.

3500 American River Drive Sacramento, CA 95864

Copy to: John Solis, Regional Manager, Southern California

Teichert Energy & Utilities Group, Inc.

3500 American River Drive Sacramento, CA 95864

CONFORMED C-CA-072619
PROJECT NO. 3-62

date first hereinabove written. CONTRACTOR: Teichert Energy & Utilities Group, Inc. 3500 American River Drive Sacramento, CA 95864 By_____ Printed Name CONTRACTOR's State License No. 1051426 (Expiration Date – 3/31/2021) OCSD: Orange County Sanitation District Ву____ David John Shawver **Board Chairman** By_____Kelly A. Lore Clerk of the Board By______ Ruth Zintzun Purchasing and Contracts Manager

IN WITNESS WHEREOF, the parties hereto have executed this Contract Agreement as the

EXHIBIT A SCHEDULE OF PRICES

TABLE OF CONTENTS EXHIBIT A SCHEDULE OF PRICES

EXA-1	BASIS OF COMPENSATION	1		
EXA-2	PROGRESS PAYMENTS	1		
EXA-3	RETENTION AND ESCROW ACCOUNTS	1		
EXA-4	STOP PAYMENT NOTICE	3		
EXA-5	PAYMENT TO SUBCONTRACTORS	3		
EXA-6	PAYMENT OF TAXES	3		
EXA-7	FINAL PAYMENT	4		
EXA-8	DISCOVERY OF DEFICIENCIES BEFORE AND AFTER FINAL PAYMENT	5		
ATTACH	HMENT 1 – CERTIFICATION FOR REQUEST FOR PAYMENT	7		
ATTACHMENT 2 – SCHEDULE OF PRICES				

EXHIBIT A SCHEDULE OF PRICES

EXA-1 BASIS OF COMPENSATION

CONTRACTOR will be paid the Contract Price according to the Schedule of Prices, and all other applicable terms and conditions of the Contract Documents.

EXA-2 PROGRESS PAYMENTS

Progress payments will be made in accordance with all applicable terms and conditions of the Contract Documents, including, but not limited to:

- 1. Contract Agreement Section 11 "Contract Price and Method of Payment:"
- 2. General Conditions "Payment General";
- 3. General Conditions "Payment Applications for Payment";
- 4. General Conditions "Payment Mobilization Payment Requirements;"
- 5. General Conditions "Payment Itemized Breakdown of Contract Lump Sum Prices";
- 6. General Conditions "Contract Price Adjustments and Payments";
- 7. General Conditions "Suspension of Payments";
- 8. General Conditions "OCSD's Right to Withhold Certain Amounts and Make Application Thereof"; and
- 9. General Conditions "Final Payment."

EXA-3 RETENTION AND ESCROW ACCOUNTS

A. Retention:

OCSD shall retain a percentage of each progress payment to assure satisfactory completion of the Work. The amount to be retained from each progress payment shall be determined as provided in General Conditions – "Retained Funds; Substitution of Securities". In all contracts between CONTRACTOR and its Subcontractors and/or Suppliers, the retention may not exceed the percentage specified in the Contract Documents.

B. Substitution of Securities:

CONTRACTOR may, at its sole expense, substitute securities as provided in General Conditions – "Retained Funds; Substitution of Securities." Payment of Escrow Agent:

In lieu of substitution of securities as provided above, the CONTRACTOR may request and OCSD shall make payment of retention earned directly to the escrow agent at the expense of the CONTRACTOR. At the expense of the CONTRACTOR, the CONTRACTOR may direct the investment of the payments into securities consistent with Government Code §16430 and the CONTRACTOR shall receive the interest earned on the investments upon the same terms provided for in this article for securities deposited by the CONTRACTOR. Upon satisfactory completion of the Contract, the CONTRACTOR shall receive from the escrow agent all securities, interest and payments received by the escrow agent from OCSD, pursuant to the terms of this article. The CONTRACTOR shall pay to each Subcontractor, not later than twenty (20) calendar days after receipt of the payment, the respective amount of interest earned, net of costs attributed to retention withheld from each Subcontractor, on the amount of retention withheld to ensure the performance of the Subcontractor. The escrow agreement used by the escrow agent pursuant to this article shall be substantially similar to the form set forth in §22300 of the California Public Contract Code.

C. Release of Retention:

Upon Final Acceptance of the Work, the CONTRACTOR shall submit an invoice for release of retention in accordance with the terms of the Contract.

D. Additional Deductibles:

In addition to the retentions described above, OCSD may deduct from each progress payment any or all of the following:

- 1. Liquidated Damages that have occurred as of the date of the application for progress payment;
- Deductions from previous progress payments already paid, due to OCSD's discovery of deficiencies in the Work or non-compliance with the Specifications or any other requirement of the Contract;
- 3. Sums expended by OCSD in performing any of the CONTRACTOR's obligations under the Contract that the CONTRACTOR has failed to perform, and;
- 4. Other sums that OCSD is entitled to recover from the CONTRACTOR under the terms of the Contract, including without limitation insurance deductibles and assessments.

The failure of OCSD to deduct any of the above-identified sums from a progress payment shall not constitute a waiver of OCSD's right to such sums or to deduct them from a later progress payment.

STOP PAYMENT NOTICE EXA-4

In addition to other amounts properly withheld under this article or under other provisions of the Contract, OCSD shall retain from progress payments otherwise due the CONTRACTOR an amount equal to one hundred twenty-five percent (125%) of the amount claimed under any stop payment notice under Civil Code §9350 et. seg. or other lien filed against the CONTRACTOR for labor, materials, supplies, equipment, and any other thing of value claimed to have been furnished to and/or incorporated into the Work; or for any other alleged contribution thereto. In addition to the foregoing and in accordance with Civil Code §9358 OCSD may also satisfy its duty to withhold funds for stop payment notices by refusing to release funds held in escrow pursuant to public receipt of a release of stop payment notice executed by a stop payment notice claimant, a stop payment notice release bond, an order of a court of competent jurisdiction, or other evidence satisfactory to OCSD that the CONTRACTOR has resolved such claim by settlement.

EXA-5 PAYMENT TO SUBCONTRACTORS

Requirements

- 1. The CONTRACTOR shall pay all Subcontractors for and on account of Work performed by such Subcontractors, not later than seven (7) days after receipt of each progress payment as required by the California Business and Professions Code §7108.5. Such payments to Subcontractors shall be based on the measurements and estimates made pursuant to article progress payments provided herein.
- 2. Except as specifically provided by law, the CONTRACTOR shall pay all Subcontractors any and all retention due and owing for and on account of Work performed by such Subcontractors not later than seven (7) days after CONTRACTOR's receipt of said retention proceeds from OCSD as required by the California Public Contract Code §7107.

EXA-6 PAYMENT OF TAXES

Unless otherwise specifically provided in this Contract, the Contract Price includes full compensation to the CONTRACTOR for all taxes. The CONTRACTOR shall pay all federal, state, and local taxes, and duties applicable to and assessable against any Work, including but not limited to retail sales and use, transportation, export, import, business, and special taxes. The CONTRACTOR shall ascertain and pay the taxes when due. The CONTRACTOR will maintain auditable records, subject to OCSD reviews, confirming that tax payments are current at all times.

CONFORMED C-EXA-080414 PROJECT NO. 3-62

EXA-7 FINAL PAYMENT

After Final Acceptance of the Work, as more particularly set forth in the General Conditions, "Final Acceptance and Final Completion", and after Resolution of the Board authorizing final payment and satisfaction of the requirements as more particularly set forth in General Conditions – "Final Payment", a final payment will be made as follows:

- 1. Prior to Final Acceptance, the CONTRACTOR shall prepare and submit an application for Final Payment to OCSD, including:
 - The proposed total amount due the CONTRACTOR, segregated by items on the payment schedule, amendments, Change Orders, and other bases for payment;
 - b. Deductions for prior progress payments;
 - c. Amounts retained;
 - d. A conditional waiver and release on final payment for each Subcontractor (per Civil Code Section 8136);
 - e. A conditional waiver and release on final payment on behalf of the CONTRACTOR (per Civil Code Section 8136);
 - f. List of Claims the CONTRACTOR intends to file at that time or a statement that no Claims will be filed.
 - g. List of pending unsettled claims, stating claimed amounts, and copies of any and all complaints and/or demands for arbitration received by the CONTRACTOR; and
 - h. For each and every claim that resulted in litigation or arbitration which the CONTRACTOR has settled, a conformed copy of the Request for Dismissal with prejudice or other satisfactory evidence the arbitration is resolved.
- 2. The application for Final Payment shall include complete and legally effective releases or waivers of liens and stop payment notices satisfactory to OCSD, arising out of or filed in connection with the Work. Prior progress payments shall be subject to correction in OCSD's review of the application for Final Payment. Claims filed with the application for Final Payment must be otherwise timely under the Contract and applicable law.
- 3. Within a reasonable time, OCSD will review the CONTRACTOR's application for Final Payment. Any recommended changes or corrections will then be forwarded to the CONTRACTOR. Within ten (10) calendar days after receipt of recommended changes from OCSD, the CONTRACTOR will make the changes, or list Claims that will be filed as a result of the changes, and shall submit the revised application for Final Payment. Upon

- acceptance by OCSD, the revised application for Final Payment will become the approved application for Final Payment.
- 4. If no Claims have been filed with the initial or any revised application for Final Payment, and no Claims remain unsettled within thirty-five (35) calendar days after Final Acceptance of the Work by OCSD, and agreements are reached on all issues regarding the application for Final Payment, OCSD, in exchange for an executed release, satisfactory in form and substance to OCSD, will pay the entire sum found due on the approved application for Final Payment, including the amount, if any, allowed on settled Claims.
- 5. The release from the CONTRACTOR shall be from any and all Claims arising under the Contract, except for Claims that with the concurrence of OCSD are specifically reserved, and shall release and waive all unreserved Claims against OCSD and its officers, directors, employees and authorized representatives. The release shall be accompanied by a certification by the CONTRACTOR that:
 - a. It has resolved all Subcontractors, Suppliers and other Claims that are related to the settled Claims included in the Final Payment;
 - b. It has no reason to believe that any party has a valid claim against the CONTRACTOR or OCSD which has not been communicated in writing by the CONTRACTOR to OCSD as of the date of the certificate;
 - c. All warranties are in full force and effect, and;
 - d. The releases and the warranties shall survive Final Payment.
- 6. If any claims remain open, OCSD may make Final Payment subject to resolution of those claims. OCSD may withhold from the Final Payment an amount not to exceed one hundred fifty percent (150%) of the sum of the amounts of the open claims, and one hundred twenty-five percent (125%) of the amounts of open stop payment notices referred to in article entitled stop payment notices herein.
- 7. The CONTRACTOR shall provide an unconditional waiver and release on final payment from each Subcontractor and Supplier providing Work under the Contract (per Civil Code Section 8138) and an unconditional waiver and release on final payment on behalf of the CONTRACTOR (per Civil Code Section 8138) within thirty (30) days of receipt of Final Payment.

EXA-8 DISCOVERY OF DEFICIENCIES BEFORE AND AFTER FINAL PAYMENT

Notwithstanding OCSD's acceptance of the application for Final Payment and irrespective of whether it is before or after Final Payment has been made, OCSD shall not be precluded from subsequently showing that:

1. The true and correct amount payable for the Work is different from that previously accepted;

CONFORMED C-EXA-080414 PROJECT NO. 3-62

- 2. The previously accepted Work did not in fact conform to the Contract requirements, or;
- 3. A previous payment or portion thereof for Work was improperly made.

OCSD also shall not be stopped from demanding and recovering damages from the CONTRACTOR, as appropriate, under any of the foregoing circumstances as permitted under the Contract or applicable law.

ATTACHMENT 1 - CERTIFICATION FOR REQUEST FOR PAYMENT

I hereby certify under penalty of perjury as follows:

That the claim for payment is in all respects true, correct; that the services mentioned herein were actually rendered and/or supplies delivered to OCSD in accordance with the Contract.

I understand that it is a violation of both the federal and California False Claims Acts to knowingly present or cause to be presented to OCSD a false claim for payment or approval.

A claim includes a demand or request for money. It is also a violation of the False Claims Acts to knowingly make use of a false record or statement to get a false claim paid. The term "knowingly" includes either actual knowledge of the information, deliberate ignorance of the truth or falsity of the information, or reckless disregard for the truth or falsity of the information. Proof of specific intent to defraud is not necessary under the False Claims Acts. I understand that the penalties under the Federal False Claims Act and State of California False Claims Act are non-exclusive, and are in addition to any other remedies which OCSD may have either under contract or law.

I hereby further certify, to the best of my knowledge and belief, that:

- 1. The amounts requested are only for performance in accordance with the Specifications, terms, and conditions of the Contract;
- 2. Payments to Subcontractors and Suppliers have been made from previous payments received under the Contract, and timely payments will be made from the proceeds of the payment covered by this certification;
- 3. This request for progress payments does not include any amounts which the prime CONTRACTOR intends to withhold or retain from a Subcontractor or Supplier in accordance with the terms and conditions of the subcontract; and

4.	This certification is not to be construed as Final Acceptance of a Subcontractor's performance.
Na	me

Name
Title

Date

CONFORMED C-EXA-080414
PROJECT NO. 3-62

ATTACHMENT 2 – SCHEDULE OF PRICES

See next pages from the Bid Submittal Forms (Teichert Energy & Utilities Group, Inc.)
BF-14 Schedule of Prices, Pages 1-2

Bid	Submitted	By:	Teichert Energy & Utilities Group, Inc.	

(Name of Firm)

BF-14 SCHEDULE OF PRICES

INSTRUCTIONS

A. General

For Unit Prices, it is understood that the following quantities are approximate only and are solely for the purpose of estimating the comparison of Bids, and that the actual value of Work will be computed based upon the actual quantities in the completed Work, whether they be more or less than those shown. CONTRACTOR's compensation for the Work under the Contract Documents will be computed based upon the lump sum amount of the Contract at time of award, plus any additional or deleted costs approved by OCSD via approved Change Orders, pursuant to the Contract Documents.

Bidder shall separately price and accurately reflect costs associated with each line item, leaving no blanks. Any and all modifications to the Bid must be initialed by an authorized representative of the Bidder in accordance with the Instructions to Bidders, Preparation of Bid.

Bidders are reminded of Instruction to Bidders, Discrepancy in Bid Items, which, in summary, provides that the total price for each item shall be based on the Unit Price listed for each item multiplied by the quantity; and the correct Total Price for each item shall be totaled to determine the Total Amount of Bid.

All applicable costs including overhead and profit shall be reflected in the respective unit costs and the TOTAL AMOUNT OF BID. The Bid price shall include all costs to complete the Work, including profit, overhead, etc., unless otherwise specified in the Contract Documents. All applicable sales taxes, state and/or federal, and any other special taxes, patent rights or royalties shall be included in the prices quoted in this Bid.

B. Basis of Award

AWARD OF THE CONTRACT WILL BE MADE ON THE BASIS OF THE LOWEST RESPONSIVE AND RESPONSIBLE BID.

Note 1: Base Bid. Includes all costs necessary to furnish all labor, materials, equipment and services for the construction of the Project per the Contract Documents.

EXHIBIT A SCHEDULE OF PRICES

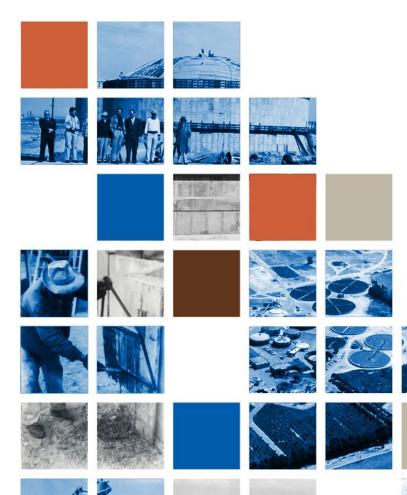
BASE BID ITEMS (Refer to Note 1 in the Instructions):

	T	T			26	T
Extended Price	= \$1,300,000	= \$1,500,000.20	= \$253,000.00	= \$360,000	= \$14,000,000.00	= \$330,000
Unit Price	"		X \$230.00		"	
Approx Qty			1,100			
Unit of Measurement	Lump Sum	Lump Sum	Cubic Yards	Allowance	Lump Sum	Lump Sum
Description	Mobilization as described in Specifications Section 01155 and in conformance with the Contract Documents for the lump sum price of	Sheeting, Shoring & Bracing as described in Specifications Section 01155 and in conformance with the Contract Documents for the lump sum price of	Removal of hazardous materials from demolition activities as described in Specifications Section 01155 and in conformance with the Contract Documents for the unit price and total price of	Fees for all permits as specified in Specifications Section 01155 and in conformance with the Contract Documents for an allowance of	All other portions of the Work, except the Work of Item Nos. 1 through 4 and 6, as described in Specifications Section 01155 and in conformance with the Contract Documents for the lump sum price of	Demobilization including final progress payment, clean-up and retention of the Project site as described in Specifications Section 01155 and in conformance with the Contract Documents for the lump sum price of
ltem No.	-	2.	ю.	4.	5.	9.

TOTAL AMOUNT OF BID (BASIS OF AWARD)

27, 743,000.00

BF-14 SCHEDULE OF PRICES



Westminster Blvd Force Main Replacement Project No. 3-62

Justin Fenton, Project Manager
Operations Committee
December 4, 2019





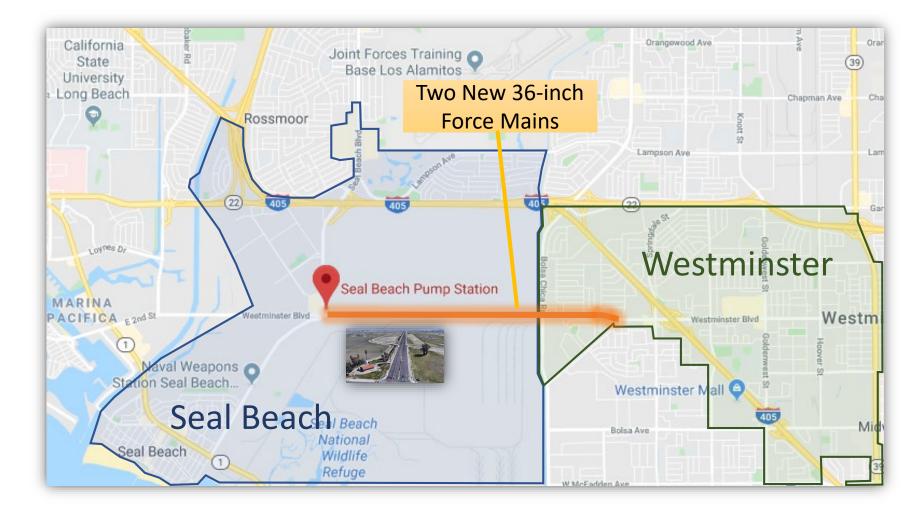
Project Location: Seal Beach & Westminster









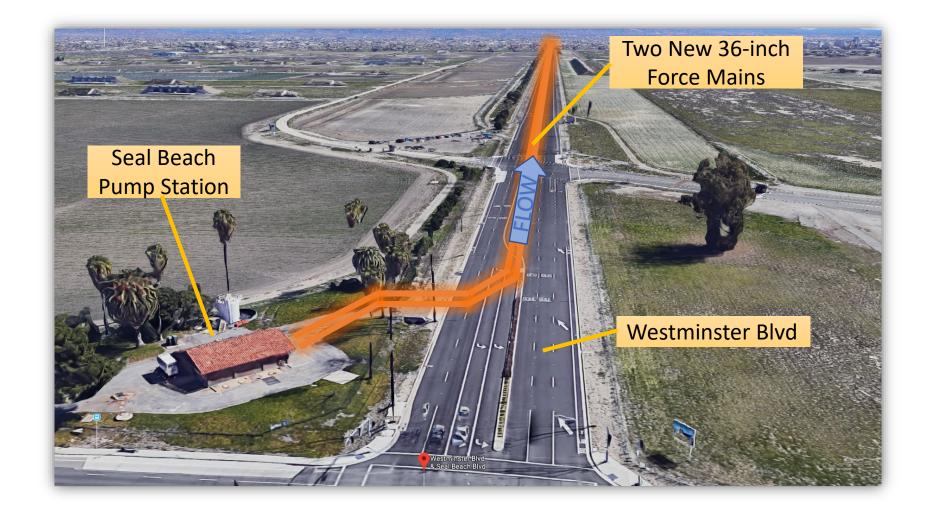


Project Location: Seal Beach & Westminster









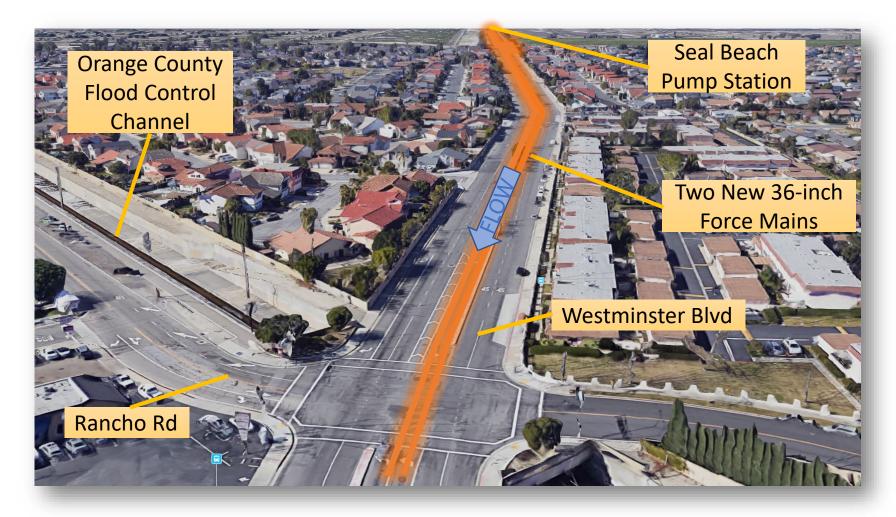
Project Location: Seal Beach & Westminster











Bid Results







\$39,125,000



Bidder	Amount of Bid
Engineer's Estimate	\$31,300,000
Teichert Energy & Utilities Group, Inc.	\$27,743,000
Griffith Company	\$28,289,400
Trautwein Construction, Inc.	\$29,262,126
OHL USA, Inc.	\$29,291,200
Mladen Buntich Construction Co., Inc.	\$33,440,500
GRFCO, Inc.	\$34,800,000

W.A. Rasic Construction Company, Inc.

Recommended for Award

Recommendation: Construction Contract





- Receive and file Bid Tabulation and Recommendation for Westminster Force Main Replacement, Project No. 3-62;
- Award a Construction Contract to Teichert Energy & Utilities Group, Inc. for Westminster Force Main Replacement, Project No. 3-62, for a total amount not to exceed \$27,743,000; and
- Approve a contingency of \$2,774,300 (10%)

Recommendation: Consultant Services









- Approve a Professional Construction Services
 Agreement with Stantec, Inc. to provide
 construction support services for Westminster
 Force Main Replacement, Project No. 3-62, for a
 total amount not to exceed \$1,183,000; and
- Approve a contingency of \$118,300 (10%).









Questions



Orange County Sanitation District

ADMINISTRATION COMMITTEE

Administration Building 10844 Ellis Avenue Fountain Valley, CA 92708 (714) 593-7433

Agenda Report

FROM: James D. Herberg, General Manager

Originator: Lan C. Wiborg, Director of Environmental Services

SUBJECT:

PAYMENT OF ANNUAL NATIONAL POLLUTANT DISCHARGE AND ELIMINATION SYSTEM (NPDES) PERMIT FEES

GENERAL MANAGER'S RECOMMENDATION

RECOMMENDATION:

Approve payment of \$653,081 for annual NPDES (ocean discharge) permit fees.

BACKGROUND

Under the Clean Water Act, Orange County Sanitation District's (Sanitation District) discharge to the ocean requires an NPDES permit, which is jointly administered by the Santa Ana Regional Water Quality Control Board and the USEPA. The payment of annual permit fees is required by Sections 13260 & 13269 of the California Water Code in order to maintain this permit. The fee is based on the Sanitation District's facility design flow for dry weather.

Sanitation District staff has verified this year's fee amount is consistent with the 13.4% increase presented by the State Water Resources Control Board during their August 2019 Water Quality Fees Stakeholder Workshop. The anticipated fee increase for next year is 4%.

RELEVANT STANDARDS

- Comply with California Water Code Sections 13260 & 13269
- Comply with environmental permit requirements
- Maintain collaborative and cooperative relationships with regulators, stakeholders, and neighboring communities

PROBLEM

N/A

PROPOSED SOLUTION

N/A

TIMING CONCERNS

If not paid in a timely manner, the Sanitation District may be subject to late fees.

RAMIFICATIONS OF NOT TAKING ACTION

If not paid, the Sanitation District would be subject to penalties under provision of the Water Code Section 13261. These actions could include daily penalties in addition to the fee or other actions deemed appropriate by the Regional Board.

PRIOR COMMITTEE/BOARD ACTIONS

This fee is invoiced and paid annually per approval by the Sanitation District's Board.

ADDITIONAL INFORMATION

N/A

CEQA

N/A

FINANCIAL CONSIDERATIONS

This request complies with authority levels of the Sanitation District's Purchasing Ordinance. This item has been budgeted. (Budget Update FY2019-20, Line item: Page 43, Operating Expense, Other).

ATTACHMENT

The following attachment(s) may be viewed on-line at the OCSD website (www.ocsd.com) with the complete agenda package:

N/A



Orange County Sanitation District

ADMINISTRATION COMMITTEE

Administration Building 10844 Ellis Avenue Fountain Valley, CA 92708 (714) 593-7433

Agenda Report

File #: 2019-849 Agenda Date: 12/18/2019 Agenda Item No: 14.

FROM: James D. Herberg, General Manager

Originator: Lorenzo Tyner, Assistant General Manager

SUBJECT:

INVEST AND/OR REINVEST ORANGE COUNTY SANITATION DISTRICT'S FUNDS AND ADOPT INVESTMENT POLICY STATEMENT

GENERAL MANAGER'S RECOMMENDATION

RECOMMENDATION:

Adopt Resolution No. OCSD 19-21, entitled, "A Resolution of the Board of Directors of the Orange County Sanitation District, Authorizing the Orange County Sanitation District's Treasurer to Invest and/or Reinvest Orange County Sanitation District's Funds, Adopting the Orange County Sanitation District's Investment Policy Statement and Performance Benchmarks, and Repealing Resolution No. OCSD 18-23".

BACKGROUND

There were no significant changes on the Investment Policy Statement or the Local Agency Investment Guidelines based on the California Government Code investment statutes over the past year. This agenda item presents an update to the Orange County Sanitation District's (Sanitation District) Investment Policy Statement to the Administration Committee for consideration in the Committee's capacity as the oversight committee for the Investment Policy (Section 18.2). With adoption of the Resolution, the Board of Directors would readopt the Sanitation District's current Investment Policy Statement, portfolio performance benchmarks, and monitoring and reporting requirements for calendar year 2020.

The Sanitation District's Investment Policy Statement was previously approved by the Administration Committee and the Board of Directors for calendar year 2019 in December 2018.

RELEVANT STANDARDS

- Comply with OCSD Policy Orange County Sanitation District Investment Policy
- California Government Code Sections 53607 and 53646

PROBLEM

California Government Code Section 53607 allows for the Board of Directors to delegate authority to invest and/or reinvest the Sanitation District's funds to the Treasurer for a one-year period. California

File #: 2019-849 Agenda Date: 12/18/2019 Agenda Item No: 14.

Government Code Section 53646 requires the Sanitation District to review its Investment Policy annually and readopt its Policy at a public meeting, which will establish specific performance benchmarks and objectives, and specific monitoring and reports. On December 19, 2018, the Board of Directors adopted Resolution No. OCSD 18-23, entitled: "A Resolution of the Board of Directors of the Orange County Sanitation District, Authorizing the District's Treasurer to Invest and/or Reinvest District's Funds, Adopting District's Investment Policy Statement and Performance Benchmarks; and Repealing Resolution No. OCSD 17-17". Authority delegated by the Board of Directors to the Assistant General Manager & Director of Finance and Administrative Services/Treasurer to invest and/or reinvest the Sanitation District's funds expires on December 31, 2019. Pursuant to California Government Code Section 53646, the Sanitation District's Investment Policy must be reviewed and readopted prior to December 31, 2019.

PROPOSED SOLUTION

With adoption of the Resolution, the Board of Directors would renew its delegation of investment authority to the Assistant General Manager & Director of Finance and Administrative Services/Treasurer for a one-year period, January 1, 2020 to December 31, 2020, in compliance with the requirements of California Government Code Section 53607. Each year, the Board of Directors will consider similar actions, along with the annual reconsideration of the Sanitation District's Investment Policy.

TIMING CONCERNS

The Board of Directors delegation of authority to the Assistant General Manager & Director of Finance and Administrative Services/Treasurer to invest and/or reinvest the Sanitation District's funds will expire on December 31, 2019. Pursuant to California Government Code Section 53646, the Sanitation District's Investment Policy must be reviewed and readopted prior to December 31, 2019.

RAMIFICATIONS OF NOT TAKING ACTION

The Sanitation District's Assistant General Manager & Director of Finance and Administrative Services/Treasurer will not have the authority to invest and/or reinvest the Sanitation District's funds and the Sanitation District will not be in compliance with California Government Code Section 53646.

PRIOR COMMITTEE/BOARD ACTIONS

December 2018 - Board adopted Resolution No. OCSD 18-23 entitled, "A Resolution of the Board of Directors of the Orange County Sanitation District, Authorizing the District's Treasurer to Invest and/or Reinvest District's Funds, Adopting District's Investment Policy Statement and Performance Benchmarks; and Repealing Resolution No. OCSD 17-17".

ADDITIONAL INFORMATION

The Sanitation District Investment Policy Statement is a comprehensive document describing the policy, authorizations, benchmarks, delegations, and investment limitations.

The Investment Policy will govern the investment activities of Chandler Asset Management, the Sanitation District's external money manager, on behalf of the Sanitation District.

File #: 2019-849 Agenda Date: 12/18/2019 Agenda Item No: 14.

Annual Review of Investment Policy

The Investment Policy includes the requirement that the Sanitation District shall review its Investment Policy annually (Sections 1.2 and 18.1). Chandler Asset Management reviewed the existing policy to ensure that the language remains current with the California Government Code. The proposed Investment Policy is attached with redlined changes from the most recent approved policy in December 2018.

Annual Delegation of Investment Authority

Effective January 1, 1997, California Government Code Section 53607 states that governing boards of local agencies may only delegate authority to invest and/or reinvest agency funds to the agency's Treasurer for a one-year period.

CEQA

N/A

FINANCIAL CONSIDERATIONS

N/A

ATTACHMENT

The following attachment(s) are included in hard copy and may also be viewed on-line at the OCSD website (www.ocsd.com) with the complete agenda package:

- OCSD Calendar Year 2020 Investment Policy Statement (clean)
- OCSD Calendar Year 2019 Investment Policy Statement (redline)
- Resolution No. OCSD 19-21

ORANGE COUNTY SANITATION DISTRICT INVESTMENT POLICY STATEMENT

1.0 **Policy:**

It is the policy of the Orange County Sanitation District (OCSD) to invest public funds in a manner which ensures the safety and preservation of capital while meeting reasonably anticipated operating expenditure needs, achieving a reasonable rate of return and conforming to all state and local statutes governing the investment of public funds.

- 1.1. This Investment Policy is set forth by OCSD for the following purposes:
 - 1.1.1. To establish a clear understanding for the Board of Directors, OCSD management, responsible employees and third parties of the objectives, policies and guidelines for the investment of OCSD's idle and surplus funds.
 - 1.1.2. To offer guidance to investment staff and any external investment advisors on the investment of OCSD funds.
 - 1.1.3. To establish a basis for evaluating investment results.
- 1.2. OCSD establishes investment policies which meet its current investment goals. OCSD shall review this policy annually and may change its policies as its investment objectives change.

2.0 **Scope:**

This Investment Policy applies to all financial assets of OCSD; except for the proceeds of OCSD's capital projects financing program, which are invested in accordance with provisions of their specific bond indentures; and such other funds excluded by law or other Board-approved covenant or agreement.

These funds are accounted for by OCSD as Enterprise Funds as represented in OCSD's Comprehensive Annual Financial Report.

3.0 **Standard of Prudence:**

The standard of prudence to be used by OCSD internal staff, and any authorized investment advisor(s), shall be as described in Section 53600.3 of the California Government Code as follows: Except as provided in subdivision (a) of Section 27000.3, all governing bodies of local agencies or persons authorized to make investment decisions on behalf of those local agencies investing public funds pursuant to this chapter are trustees and therefore fiduciaries subject to the **prudent investor** standard. When investing, reinvesting, purchasing, acquiring, exchanging, selling, or managing public funds, a trustee shall act with care, skill, prudence, and diligence under the circumstances then prevailing, including, but not limited to, the general economic

conditions and the anticipated needs of the agency, that a **prudent person** acting in a like capacity and familiarity with those matters would use in the conduct of funds of a like character and with like aims, to safeguard the principal and maintain the liquidity needs of the agency. Within the limitations of this section and considering individual investments as part of an overall strategy, investments may be acquired as authorized by law.

4.0 **Investment Objectives:**

The primary objectives of OCSD's investment activities, in priority order, and as described in Section 53600.5 of the California Government Code, shall be:

- 4.1 Safety: The safety and preservation of principal is the foremost objective of the investment program of OCSD. Investments shall be selected in a manner that seeks to ensure the preservation of capital in OCSD's overall portfolio. This will be accomplished through a program of diversification, more fully described in Section 13.0, and maturity limitations, more fully described in Section 14.0, in order that potential losses on individual securities do not exceed the income generated from the remainder of the portfolio.
- 4.2 **Liquidity:** The investment program will be administered in a manner that will ensure that sufficient funds are available for OCSD to meet its reasonably anticipated operating expenditure needs.
- 4.3 **Return on Investments:** The OCSD investment portfolio will be structured and managed with the objective of achieving a rate of return throughout budgetary and economic cycles, commensurate with legal, safety, and liquidity considerations.

5.0 **Delegation of Authority:**

5.1 Authority to manage OCSD's investment program is derived from the California Government Code Sections 53600 et seq. and Sections 53635 et seq. The Board of Directors hereby delegates management responsibility for the OCSD investment program to its Assistant General Manager & Director of Finance and Administrative Services/Treasurer, who shall establish written procedures for the operation of the investment program, consistent with this Policy. The Controller/Assistant Treasurer shall be responsible for day-to-day administration, monitoring, and the development of written administrative procedures for the operation of the investment program, consistent with this Policy. No person may engage in an investment transaction except as provided under the terms of this Policy and the procedures established by the Treasurer. The Treasurer shall be responsible for all transactions undertaken by OCSD internal staff, and shall establish a system of controls to regulate the activities of internal staff and external investment advisors engaged in accordance with Section 5.3.

- 5.2 The administrative procedures for the operation of OCSD's investment program will provide for, but not be limited to, the following:
 - 5.2.1 Formats for monthly and quarterly reports to the Administration Committee and the Board of Directors.
 - 5.2.2 Compliance with generally accepted accounting principles of the Government Accounting Standards Board.
 - 5.2.3 Establishment of benchmarks for performance measurement.
 - 5.2.4 Establishment of a system of written internal controls.
 - 5.2.5 Establishment of written procedures for competitive bids and offerings of securities that may be purchased or sold by internal OCSD staff.
 - 5.2.6 Establishment of a Desk Procedures Manual for treasury operations and management.
- 5.3 The Board of Directors may, in its discretion, engage the services of one or more registered investment advisors to assist in the management of OCSD's investment portfolio in a manner consistent with OCSD's objectives. Such external investment advisors, which shall be selected through a competitive process, shall be granted discretion to purchase and sell investment securities in accordance with this Investment Policy. Such advisors must be registered under the Investment Advisers Act of 1940 or be exempt from such registration.

6.0 Ethics and Conflicts of Interest:

Officers and employees of OCSD involved in the investment process shall refrain from personal business activities that could conflict with proper execution of OCSD's investment program, or which could impair their ability to make impartial investment decisions. Employees and investment officials shall disclose to the General Manager any material financial interests in financial institutions that conduct business within OCSD's boundaries, and they shall further disclose any large personal financial/investment positions, the performance of which could be related to the performance of positions in OCSD's portfolio.

7.0 <u>Authorized Financial Dealers and Institutions:</u>

7.1 For investment transactions conducted by OCSD internal staff, the Treasurer will maintain a list of financial institutions authorized to provide investment services to OCSD, including "primary" or regional dealers that qualify under Securities and Exchange Commission Rule 15C3-1 (Uniform Net Capital rule), and Federal or State of California chartered banks. No public deposit shall be made except in a qualified public depository as established by State law.

All financial institutions which desire to become qualified bidders for investment transactions with OCSD must supply the following for evaluation by the Treasurer:

- 7.1.1. Audited financial statements for the institution's three (3) most recent fiscal years.
- 7.1.2. A statement, in the format prescribed by the Government Finance Officers Association (GFOA), certifying that the institution has reviewed OCSD's Investment Policy and that all securities offered to OCSD shall comply fully and in every instance with all provisions of the California Government Code and with this Investment Policy. The current statement is presented in Appendix "A."
- 7.1.3. A statement describing the regulatory status of the dealer, and the background and expertise of the dealer's representatives.

Selection of financial institutions, broker/dealers, and banks authorized to engage in transactions with OCSD shall be made through a competitive process. An annual review of the financial condition of qualified institutions will be conducted by the Treasurer.

7.2 Selection of broker/dealers used by external investment advisors retained by OCSD, shall be in compliance with contract provisions between OCSD and any external investment advisors, and shall be in substantially the following form:

<u>Use of Securities Brokers:</u> Neither the Investment Advisor nor any parent, subsidiary or related firm shall act as a securities broker with respect to any purchases or sales of securities which may be made on behalf of OCSD, provided that this limitation shall not prevent the Investment Advisor from utilizing the services of a securities broker which is a parent, subsidiary or related firm, provided such broker effects transactions on a "cost only" or "nonprofit" basis to itself and provides competitive execution. The Investment Advisor shall provide OCSD with a list of suitable independent brokerage firms (including names and addresses) meeting the requirements of Government Code Section 53601.5, and, unless otherwise directed by OCSD, the Investment Advisor may utilize the service of any of such independent securities brokerage firms it deems appropriate to the extent that such firms are competitive with respect to price of services and execution.

8.0 **Authorized and Suitable Investments:**

All investments shall be made in accordance with the California Government Code including Sections 16429.1 *et seq.*, 53600 *et seq.*, and 53684, and as described within this Investment Policy. Permitted investments under this Policy shall include:

- 8.1 Securities, obligations, participations, or other instruments of, or issued by, or fully guaranteed as to principal and interest by the US Government, a federal agency, or a US Government-sponsored enterprise pursuant to Section 53601 (f) of the California Government Code. US Treasury securities must make up at least 10% of the portfolio.
- 8.2 **Supranational Obligations** issued or unconditionally guaranteed by the International Bank for Reconstruction and Development, International Finance Corporation, or Inter-American Development Bank. Securities must be eligible for purchase in the United States and be US dollar denominated senior unsecured unsubordinated obligations, with a maximum maturity of five years. Securities eligible for purchase under this section must be rated "AA" or better by a Nationally Recognized Statistical Rating Organization (NRSRO) and shall not exceed 30% of the total portfolio.
- 8.3 Mortgage pass-through security, collateralized mortgage obligation, mortgage-backed or other pay-through bond, equipment lease-backed certificate, consumer receivable pass-through certificate, or consumer receivable-backed bond. Securities eligible for investment under this subdivision shall be rated in a rating category of "AA" or its equivalent or better by an NRSRO and have a maximum remaining maturity of five years or less. Purchase of securities authorized by this subdivision may not exceed 20 percent of the agency's surplus moneys that may be invested pursuant to this section. Purchase of mortgage derivatives, which include interest-only payments (IOs) and principal-only payments (POs); inverse floaters, and RE-REMICs (Real Estate Mortgage Investment Conduits), is hereby prohibited.
- 8.4 **Commercial paper** of "prime" quality of the highest ranking or of the highest letter and number rating as provided by an NRSRO, and issued by a domestic corporation organized and operating in the United States with assets in excess of \$500 million and having a rating of "A" or better on its long-term debt as provided by an NRSRO. Purchases of eligible commercial paper may not exceed 270 days to maturity from the date of purchase. Purchases of commercial paper shall not exceed 25% of the market value of the portfolio, or 10% of the issuer's outstanding paper, may be invested in commercial paper issued by any one (1) eligible corporation.
- 8.5 **Banker's acceptances** issued by institutions, the short-term obligations of which are rated of the highest ranking or the highest letter and number rating as provided by an NRSRO provided that: (a) the acceptance is eligible for purchase by the Federal Reserve System; (b) the maturity does not exceed 180 days; (c) no more than 40% of the total portfolio may be invested in banker's acceptances; and (d) no more than 5% of the total portfolio may be invested in the banker's acceptances of any one (1) commercial bank.

- 8.6 **Medium term (or corporate) notes** of a maximum of five (5) years maturity issued by corporations organized and operating within the United States, or issued by depository institutions licensed by the United States, or any state, and operating within the United States with assets in excess of \$500 million, and which is rated in a rating category of "A" or better on its long-term debt as provided by an NRSRO. If, after purchase, the rating of an eligible note falls below the minimum rating category stipulated above, the external investment advisor shall notify OCSD of the downgrade, and shall present an analysis and recommendations as to the disposition of the note consistent with the investment objectives of this Investment Policy. No more than 30% of the portfolio may be invested in medium term notes.
- 8.7 **Notes, bonds, or other obligations** that are at all times secured by a valid first priority security interest in securities of the types listed by California Government Code Section 53651 as eligible securities for the purpose of securing local agency deposits having a market value at least equal to that required by California Government Code Section 53652 for the purpose of securing local agency deposits. The securities serving as collateral shall be placed by delivery or book entry into the custody of a trust company or the trust department of a bank that is not affiliated with the issuer of the secured obligation, and the security interest shall be perfected in accordance with the requirements of the Uniform Commercial Code or federal regulations applicable to the types of securities in which the security interest is granted.
- 8.8 Shares of mutual funds investing in securities permitted under this policy and under Section 53601 (I) of the California Government Code. Such funds must either: (1) attain the highest ranking, or the highest letter and numerical rating, provided by not less than two of the three largest nationally recognized rating services; or (2) have an Investment Advisor registered with the Securities and Exchange Commission with not less than five (5) years of experience investing in the securities and obligations authorized under this Policy and under California Government Code Section 53601, and with assets under management in excess of \$500 million. The purchase price of shares of beneficial interest purchased pursuant to this policy, and the California Government Code may not include any commission that the companies may charge, and shall not exceed 20% of OCSDs surplus money that may be invested pursuant to this section. No more than 10% of OCSD's surplus funds may be invested in shares of beneficial interest of any one (1) mutual fund pursuant to this section. Money market mutual funds are limited to 20% per issuer and are not subject to the 10% stipulation.

8.9 Certificates of deposit:

8.9.1 **Secured (collateralized) time deposits** issued by a nationally or state-chartered bank or state or federal savings and loan association, as defined by Section 5102 of the California Financial Code, and having a net

- operating profit in the two (2) most recently completed fiscal years. Collateral must comply with Chapter 4, Bank Deposit Law, Section 16500 *et seq.*, and Chapter 4.5, Savings and Loan Association and Credit Union Deposit Law, Section 16600 *et seq.*, of the California Government Code.
- 8.9.2 **Negotiable certificates of deposit (NCDs)** issued by a nationally or state-chartered bank or state of federal savings and loan association, as defined by Section 5102 of the California Financial Code; <u>and</u> which shall have a rating of "A" or better on its long-term debt as provided by a NRSRO; or which shall have the highest letter and number rating for deposits as provided by a NRSRO; or as otherwise approved by the Board of Directors. No more than 30% of the portfolio may be invested in securities pursuant to this section.
- 8.9.3 To be eligible to receive local agency money, a bank, savings association, federal association, or federally insured individual loan company shall have received an overall rating of not less than "satisfactory" in its most recent evaluation by the appropriate federal financial supervisorial agency of its record of meeting the credit needs of California's communities, including low and moderate income neighborhoods, pursuant to Section 2906 of Title 12 of the United States Code.
- 8.10 **Taxable or tax-exempt municipal bonds** issued by any of the 50 United States. Such securities must be rated "A" or higher by a NRSRO; or as otherwise approved by the Board of Directors.
- 8.11 The State of California Local Agency Investment Fund (LAIF). The LAIF is an investment alternative for California's local governments and special districts managed by the State Treasurer's Office. LAIF is more fully described in the Glossary (See Appendix "C"). OCSD shall use LAIF as a short-term cash management facility. Investment of OCSD funds in LAIF shall be subject to investigation and due diligence prior to investing, and on a continual basis to a level of review pursuant to Section 3.0, Standard of Prudence, of this Policy.
- 8.12 The Orange County Treasurer's Money Market Commingled Investment Pool (OCCIP). The OCCIP is a money market investment pool managed by the Orange County Treasurer's Office. OCCIP is more fully described in the Glossary (See Appendix "C"). OCSD has no funds invested in OCCIP at this time. Investment of OCSD funds in OCCIP would be subject to investigation and due diligence prior to investing, and on a continual basis to a level of review pursuant to Section 3.0, Standard of Prudence, of this Policy.
- 8.13 **Repurchase agreements** provided that:
 - 8.13.1 All repurchase agreements shall be collateralized with securities eligible for purchase under this Policy. In order to anticipate

market changes and to provide a level of security for all repurchase agreement transactions, collateralization shall be maintained at a level of at least 102% of the market value of the repurchase agreements and shall be adjusted no less than weekly.

8.13.2 All repurchase agreements must be the subject of a Master Repurchase Agreement between OCSD and the provider of the repurchase agreement. The Master Repurchase Agreement shall be substantially in the form developed by The Bond Market Association.

8.14 Reverse repurchase agreements provided that:

- 8.14.1 No more than five percent (5%) of OCSD's portfolio shall be invested in reverse repurchase agreements, and there shall be no long-term reverse repurchase agreements unless otherwise authorized by the Board of Directors.
- 8.14.2 The maximum maturity of reverse repurchase agreements shall be ninety (90) days.
- 8.14.3 Reverse repurchase agreements shall mature on the exact date of a known cash flow which will be unconditionally available to repay the maturing reverse repurchase agreement.
- 8.14.4 Proceeds of reverse repurchase agreements shall be used solely to supplement portfolio income or to provide portfolio liquidity and shall not be used to speculate on market movements.
- 8.14.5 All reverse repurchase agreements must be the subject of a Master Repurchase Agreement between OCSD and the provider of the reverse repurchase agreement. The Master Repurchase Agreement shall be substantially in the form developed by The Bond Market Association.
- 8.15 Sales of OCSD-owned securities in the secondary market may incur losses in order to improve the risk or return characteristics of the portfolio, to prevent anticipated further erosion of principal, or when trading for securities that result in an expected net economic gain to OCSD.
- 8.16 If securities owned by the OCSD are downgraded below the quality required by this Investment Policy, it shall be OCSD's policy to review the credit situation and make a determination as to whether to sell or retain such securities in the portfolio. If a decision is made to retain the downgraded securities in the portfolio, their presence in the portfolio will be monitored and reported quarterly to the OCSD General Manager, the Administration Committee and Board of Directors.

9.0 Review of Investment Portfolio:

The securities held by OCSD must be in compliance with Section 8.0 "Authorized and Suitable Investments" at time of purchase. If at a later date, a security is no longer in

compliance with Section 8.0, the Treasurer shall report the non-compliant security to the Administration Committee and the Board of Directors and shall include a disclosure in the quarterly Treasurer's Report if the security is held at the date the report is prepared.

10.0 Investment Pools/Mutual Funds:

A thorough investigation of the pool/fund is required prior to investing, and on a continual basis. A questionnaire shall be developed that will provide the following information:

- 10.1 A description of eligible investment securities, and a written statement of investment policy and objectives.
- 10.2 A description of interest calculations and how they are distributed, and how gains and losses are treated.
- 10.3 A description of how the securities are safeguarded (including the settlement processes) and how often the securities are priced and the program audited.
- 10.4 A description of who may invest in the program, how often, and what size deposits and withdrawals are allowed.
- 10.5 A schedule for receiving statements and portfolio listings.
- 10.6 A description of the utilization and level of reserves, retained earnings or other collateral and how they are used by the fund.
- 10.7 A fee schedule, and when and how is it assessed.
- 10.8 Whether the pool/fund is eligible for bond proceeds and/or whether it will accept such proceeds.

11.0 **Collateralization:**

Generally, the value to secure deposits under this Policy shall comply with Section 53652 of the California Government Code. Collateralization will be required for secured time deposits, as more fully described in Section 8.9.1; and repurchase agreements, as more fully described in Section 8.13.1. Collateral will always be held by an independent third-party, as more fully described in Section 12.0. The right of collateral substitution is granted.

12.0 Safekeeping and Custody:

All securities transactions, including collateral for repurchase agreements, entered into by, or on behalf of OCSD, shall be conducted on a **delivery-versus-payment (DVP)** basis. Securities will be held by OCSD's third-party custodian bank, which shall be selected through a competitive process, or that agent's representative, or in the agent's

account at the Federal Reserve Bank, *or within clearing corporations in the U.S.*, and evidenced by book entry statements.

13.0 **Diversification:**

OCSD will diversify its investments by security type, issuer, and financial institution in accordance with the following:

- 13.1 There is no limit on investment in securities issued by or guaranteed by the full faith and credit of the U.S. government.
- 13.2 No more than 20% of the portfolio may be invested in securities of a single agency of the U.S. government, which does not provide the full faith and credit of the U.S. government.
- 13.3 No more than 5% of the portfolio may be invested in securities of any one issuer, other than Supranationals, the U.S. government or its agencies. Investment in mutual funds is not governed by this Section 13.3. See Section 13.8 for conditions of purchase of mutual funds.
- 13.4 No individual holding shall constitute more than 5% of the total debt outstanding of any issuer.
- 13.5 No more than 40% of the portfolio may be invested in banker's acceptances.
- 13.6 No more than 25% of the portfolio may be invested in commercial paper.
- 13.7 No more than 30% of the portfolio may be invested in medium-term (corporate) notes.
- 13.8 No more than 20% of the portfolio may be invested in mutual funds. No more than 10% of OCSD's portfolio may be invested in shares of beneficial interest of any one (1) mutual fund. Money market mutual funds are limited to 20% per issuer and are not subject to the 10% stipulation.
- 13.9 No more than 30% of the portfolio may be invested in negotiable certificates of deposit.
- 13.10 No more than 10% of the portfolio may be invested in eligible municipal bonds.
- 13.11 No more than 20% of the Long Term Operating Monies portfolio may be invested in a combination of mortgage-backed securities, CMOs and asset-backed securities.
- 13.12 No more than the lesser of 15% of the portfolio or the statutory maximum may be invested in LAIF.

- 13.13 No more than 15% of the portfolio may be invested in the Orange County Investment Pool.
- 13.14 No more than 20% of the portfolio may be invested in repurchase agreements.
- 13.15 No more than 5% of the portfolio may be invested in reverse repurchase agreements.

14.0 **Maximum Maturities:**

To the extent possible, OCSD will attempt to match its investments with reasonably anticipated cash flow requirements. The Treasurer shall develop a five-year cash flow forecast, which shall be updated quarterly. Based on this forecast, the Treasurer shall designate, from time-to-time, the amounts to be allocated to the investment portfolio. OCSD monies invested in accordance with this Policy are divided into two (2) categories:

- 14.1 **Liquid Operating Monies**. Funds needed for current operating and capital expenditures are known as Liquid Operating Monies.
 - 14.1.1 The maximum final stated maturity of individual securities in the Liquid Operating Monies account portfolio shall be one (1) year from the date of settlement.
 - 14.1.2 The average duration of the Liquid Operating Monies account portfolio shall be recommended by the Treasurer based on OCSD's cash flow requirements but may never exceed 180 days.
- 14.2 **Long Term Operating Monies**. Funds needed for longer term purposes are known as the Long Term Operating Monies.
 - 14.2.1 The maximum final stated maturity of individual securities in the Long Term Operating Monies account portfolio shall be five (5) years from the date of settlement.
 - 14.2.2 The duration of the Long Term Operating Monies account portfolio shall be recommended by the Treasurer based on OCSD's five-year cash flow forecast but may never exceed 60 months.
 - 14.2.3 The duration of the Long Term Operating Monies account portfolio shall never exceed 120% of the duration as established in accordance with Section 14.2.2.
 - 14.2.4 The duration of the Long Term Operating Monies account portfolio shall never be less than 80% of the duration as established in accordance with Section 14.2.2.

15.0 Internal Control:

The Treasurer shall establish an annual process of independent review by an external auditor. This review will provide internal control by assuring compliance with policies and procedures.

16.0 **Performance Objectives and Benchmarks:**

- 16.1 **Overall objective.** The investment portfolio of OCSD shall be designed with the overall objective of obtaining a rate of return throughout budgetary and economic cycles, commensurate with investment risk constraints and reasonably anticipated cash flow needs.
- 16.2 **The Liquid Operating Monies.** The investment performance objective for the Liquid Operating Monies shall be to earn a total rate of return over a market cycle which exceeds the return on a market index approved by the Administration Committee and by the Board of Directors, when the duration of the portfolio is established. This market index is more fully described in Board Resolution No. OCSD19-21 (see Appendix "B").
- 16.3 The Long Term Operating Monies. The investment performance objective for the Long Term Operating Monies shall be to earn a total rate of return over a market cycle which exceeds the return on a market index selected by the Administration Committee and approved by the Board of Directors, when the duration of the portfolio is established. This market index is more fully described in Board Resolution No. OCSD 19-21 (See Appendix "B").

17.0 **Reporting:**

- 17.1 Monthly transaction reports in accordance with California Government Code Section 53607 shall be submitted by the Treasurer to the Board of Directors.
- 17.2 Quarterly investment reports will be submitted by the Treasurer to the Administration Committee which shall forward the reports to the Board of Directors. The quarterly reports shall provide clear and concise status information on OCSD's portfolios at the end of each reporting period, including performance measures using the benchmarks described in Section 14.0 of this Investment Policy. These reports shall contain listings of individual securities held at the end of each reporting period, and shall disclose, at a minimum, the following information about the risk characteristics of OCSD's portfolio:
 - 17.2.1 Cost and accurate and complete market value of the portfolio.
 - 17.2.2 Modified duration of the portfolio compared to Benchmark.

- 17.2.3 Dollar change in value of the portfolio for a one percent (1%) change in interest rates.
- 17.2.4 Percent of portfolio invested in reverse repurchase agreements, and a schedule which matches the maturity of such reverse repurchase agreements with the cash flows which are available to repay them at maturity.
- 17.2.5 For the Liquid Operating Monies account only, the percent of portfolio maturing within 90 days.
- 17.2.6 Average portfolio credit quality.
- 17.2.7 Percent of portfolio with credit ratings below "A" by any rating agency, and a description of such securities.
- 17.2.8 State that all investments are in compliance with this policy and the California Government Code or provide a listing of any transactions or holdings which do not comply with this policy or with the California Government Code.
- 17.2.9 Time-weighted total rate of return for the portfolio for the prior three months, twelve months, year to date, and since inception compared to the Benchmark returns for the same periods.
- 17.2.10 State that sufficient funds are available for OCSD to meet its operating expenditure requirements for the next six months, or if not, state the reasons for the shortfall.
- 17.3 OCSD's Treasurer shall meet quarterly with the Administration Committee to review investment performance, proposed strategies and compliance with this Investment Policy. External investment advisors may be required to attend said meetings at the discretion of the Chairman of the Administration Committee.

18.0 **Investment Policy Adoption and Revision:**

- 18.1 The Investment Policy of OCSD shall be adopted by resolution of the Board of Directors. The Investment Policy shall be reviewed on an annual basis in accordance with California Government Code Section 53646, by the Administration Committee, which shall recommend revisions, as appropriate, to the Board of Directors. Any modifications made thereto shall be approved by the Board of Directors.
- 18.2 The Administration Committee shall serve as the oversight committee for OCSD's Investment program and shall adopt guidelines for the ongoing review of duration, quality and liquidity of OCSD's portfolio.

ORANGE COUNTY SANITATION DISTRICT INVESTMENT POLICY STATEMENT

1.0 **Policy:**

It is the policy of the Orange County Sanitation District (OCSD) to invest public funds in a manner which ensures the safety and preservation of capital while meeting reasonably anticipated operating expenditure needs, achieving a reasonable rate of return and conforming to all state and local statutes governing the investment of public funds.

- 1.1. This Investment Policy is set forth by OCSD for the following purposes:
 - 1.1.1. To establish a clear understanding for the Board of Directors, OCSD management, responsible employees and third parties of the objectives, policies and guidelines for the investment of the OCSD's idle and surplus funds.
 - 1.1.2. To offer guidance to investment staff and any external investment advisors on the investment of OCSD funds (see Appendix "A").
 - 1.1.3. To establish a basis for evaluating investment results.
- 1.2. OCSD establishes investment policies which meet its current investment goals. OCSD shall review this policy annually, and may change its policies as its investment objectives change.

2.0 **Scope:**

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These funds are accounted for by OCSD as Enterprise Funds as represented in OCSD's Comprehensive Annual Financial Report.

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The standard of prudence to be used by OCSD internal staff, and any authorized investment advisor(s), shall be as described in Section 53600.3 of the California Government Code as follows: Except as provided in subdivision (a) of Section 27000.3, all governing bodies of local agencies or persons authorized to make investment decisions on behalf of those local agencies investing public funds pursuant to this chapter are trustees and therefore fiduciaries subject to the **prudent investor** standard. When investing, reinvesting, purchasing, acquiring, exchanging, selling, or managing public funds, a trustee shall act with care, skill, prudence, and diligence under the circumstances then prevailing, including, but not limited to, the general economic

conditions and the anticipated needs of the agency, that a **prudent person** acting in a like capacity and familiarity with those matters would use in the conduct of funds of a like character and with like aims, to safeguard the principal and maintain the liquidity needs of the agency. Within the limitations of this section and considering individual investments as part of an overall strategy, investments may be acquired as authorized by law.

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5.0 Delegation of Authority:

Authority to manage OCSD's investment program is derived from the 5.1 California Government Code Sections 53600 et seg. and Sections 53635 et seg. The Board of Directors hereby delegates management responsibility for the OCSD investment program to its Assistant General Manager & Director of Finance and Administrative Services/Treasurer, who shall establish written procedures for the operation of the investment program, consistent with this Policy. The Controller/Assistant Treasurer shall be responsible for day-to-day administration, monitoring, and the development of written administrative procedures for the operation of the investment program, consistent with this Policy. The current treasury management procedures are presented in Appendix "B." No person may engage in an investment transaction except as provided under the terms of this Policy and the procedures established by the Treasurer. The Treasurer shall be responsible for all transactions undertaken by OCSD internal staff, and shall establish a system of controls to regulate the activities of internal staff and external investment advisors engaged in accordance with Section 5.3.

- 5.2 The administrative procedures for the operation of OCSD's investment program will provide for, but not be limited to, the following:
 - 5.2.1 Formats for monthly and quarterly reports to the Administration Committee, and the Board of Directors.
 - 5.2.2 Compliance with generally accepted accounting principles of the Government Accounting Standards Board.
 - 5.2.3 Establishment of benchmarks for performance measurement.
 - 5.2.4 Establishment of a system of written internal controls.
 - 5.2.5 Establishment of written procedures for competitive bids and offerings of securities that may be purchased or sold by internal OCSD staff.
 - 5.2.6 Establishment of a Desk Procedures Manual for treasury operations and management.
- 5.3 The Board of Directors of OCSD may, in its discretion, engage the services of one or more registered investment advisors to assist in the management of OCSD's investment portfolio in a manner consistent with OCSD's objectives. Such external investment advisors, which shall be selected through a competitive process, shall be granted discretion to purchase and sell investment securities in accordance with this Investment Policy. Such advisors must be registered under the Investment Advisers Act of 1940, or be exempt from such registration.

6.0 Ethics and Conflicts of Interest:

Officers and employees of OCSD involved in the investment process shall refrain from personal business activities that could conflict with proper execution of OCSD's investment program, or which could impair their ability to make impartial investment decisions. Employees and investment officials shall disclose to the General Manager any material financial interests in financial institutions that conduct business within OCSD's boundaries, and they shall further disclose any large personal financial/investment positions, the performance of which could be related to the performance of positions in OCSD's portfolio.

7.0 Authorized Financial Dealers and Institutions:

7.1 For investment transactions conducted by OCSD internal staff, the Treasurer will maintain a list of financial institutions authorized to provide investment services to OCSD, including "primary" or regional dealers that qualify under Securities and Exchange Commission Rule 15C3-1 (Uniform Net Capital rule), and Federal or State of California chartered banks. No public deposit shall be made except in a qualified public depository as

established by State law.

All financial institutions which desire to become qualified bidders for investment transactions with OCSD must supply the following for evaluation by the Treasurer:

- 7.1.1. Audited financial statements for the institution's three (3) most recent fiscal years.
- 7.1.2. A statement, in the format prescribed by the Government Finance Officers Association (GFOA), certifying that the institution has reviewed OCSD's Investment Policy and that all securities offered to OCSDthe Districts shall comply fully and in every instance with all provisions of the California Government Code and with this Investment Policy. The current statement is presented in Appendix "AC."
- 7.1.3. A statement describing the regulatory status of the dealer, and the background and expertise of the dealer's representatives.

Selection of financial institutions, broker/dealers, and banks authorized to engage in transactions with OCSD shall be made through a competitive process. An annual review of the financial condition of qualified institutions will be conducted by the Treasurer.

7.2 Selection of broker/dealers used by external investment advisors retained by OCSD, shall be in compliance with contract provisions between OCSD and any external investment advisors, and shall be in substantially the following form:

<u>Use of Securities Brokers:</u> Neither the Investment Advisor nor any parent, subsidiary or related firm shall act as a securities broker with respect to any purchases or sales of securities which may be made on behalf of OCSD, provided that this limitation shall not prevent the Investment Advisor from utilizing the services of a securities broker which is a parent, subsidiary or related firm, provided such broker effects transactions on a "cost only" or "nonprofit" basis to itself and provides competitive execution. The Investment Advisor shall provide the <u>OCSD Districts</u> with a list of suitable independent brokerage firms (including names and addresses) meeting the requirements of Government Code Section 53601.5, and, unless otherwise directed by OCSD, the Investment Advisor may utilize the

service of any of such independent securities brokerage firms it deems appropriate to the extent that such firms are competitive with respect to price of services and execution.

8.0 Authorized and Suitable Investments:

All investments shall be made in accordance with the California Government Code including Sections 16429.1 *et seq.*, 53600 *et seq.*, and 53684, and as described within

this Investment Policy. Permitted investments under this Policy shall include:

- 8.1 Securities, obligations, participations, or other instruments of, or issued by, or fully guaranteed as to principal and interest by the US Government, a federal agency, or a US Government-sponsored enterprise pursuant to Section 53601 (f) of the California Government Code. US Treasury securities must make up at least 10% of the portfolio.
- 8.2 **Supranational Obligations** issued or unconditionally guaranteed by the International Bank for Reconstruction and Development, International Finance Corporation, or Inter-American Development Bank. Securities must be eligible for purchase in the United States and be US dollar denominated senior unsecured unsubordinated obligations, with a maximum maturity of five years. Securities eligible for purchase under this section must be rated "AA" or better by a Nationally Recognized Statistical Rating Organization (NRSRO) and shall not exceed 30% of the total portfolio.
- 8.3 Mortgage pass-through security, collateralized mortgage obligation, mortgage-backed or other pay-through bond, equipment lease-backed certificate, consumer receivable pass-through certificate, or consumer receivable-backed bond. Securities eligible for investment under this subdivision shall be rated in a rating category of "AA" or its equivalent or better by an NRSRO and have a maximum remaining maturity of five years or less. Purchase of securities authorized by this subdivision may not exceed 20 percent of the agency's surplus moneys that may be invested pursuant to this section. Purchase of mortgage derivatives, which include interest-only payments (IOs) and principal-only payments (POs); inverse floaters, and RE-REMICs (Real Estate Mortgage Investment Conduits), is hereby prohibited.
- 8.4 Commercial paper of "prime" quality of the highest ranking or of the highest letter and number rating as provided by an NRSRO, and issued by a domestic corporation organized and operating in the United States with assets in excess of \$500 million and having a rating of "A" or better on its long-term debt as provided by an NRSRO. Purchases of eligible commercial paper may not exceed 270 days to maturity from the date of purchase. Purchases of commercial paper shall not exceed 25% of the market value of the portfolio. No more than 5% of the market value of the portfolio, or 10% of the issuer's outstanding paper, may be invested in commercial paper issued by any one (1) eligible corporation.
- 8.5 **Banker's acceptances** issued by institutions, the short-term obligations of which are rated of the highest ranking or the highest letter and number rating as provided by an NRSRO provided that: (a) the acceptance is eligible for purchase by the Federal Reserve System; (b) the maturity does not exceed 180 days; (c) no more than 40% of the total portfolio may be invested in banker's acceptances; and (d) no more than 5% of the total portfolio may be invested in the banker's acceptances of any one (1)

commercial bank.

- 8.6 Medium term (or corporate) notes of a maximum of five (5) years maturity issued by corporations organized and operating within the United States, or issued by depository institutions licensed by the United States, or any state, and operating within the United States with assets in excess of \$500 million, and which is rated in a rating category of "A" or better on its long-term debt as provided by an NRSRO. If, after purchase, the rating of an eligible note falls below the minimum rating category stipulated above, the external investment advisor shall notify OCSDthe District of the downgrade, and shall present an analysis and recommendations as to the disposition of the note consistent with the investment objectives of this Investment Policy. No more than 30% of the portfolio may be invested in medium term notes.
- 8.7 Notes, bonds, or other obligations that are at all times secured by a valid first priority security interest in securities of the types listed by California Government Code Section 53651 as eligible securities for the purpose of securing local agency deposits having a market value at least equal to that required by California Government Code Section 53652 for the purpose of securing local agency deposits. The securities serving as collateral shall be placed by delivery or book entry into the custody of a trust company or the trust department of a bank that is not affiliated with the issuer of the secured obligation, and the security interest shall be perfected in accordance with the requirements of the Uniform Commercial Code or federal regulations applicable to the types of securities in which the security interest is granted.
- 8.8 Shares of mutual funds investing in securities permitted under this policy and under Section 53601 (I) of the California Government Code. Such funds must either: (1) attain the highest ranking, or the highest letter and numerical rating, provided by not less than two of the three largest nationally recognized rating services; or (2) have an Investment Advisor registered with the Securities and Exchange Commission with not less than five (5) years of experience investing in the securities and obligations authorized under this Policy and under California Government Code Section 53601, and with assets under management in excess of \$500 million. The purchase price of shares of beneficial interest purchased pursuant to this policy, and the California Government Code may not include any commission that the companies may charge, and shall not exceed 20% of the District OCSD is surplus money that may be invested pursuant

to this section. No more than 10% of the District's-OCSD's surplus funds may be invested in shares of beneficial interest of any one (1) mutual fund pursuant to this section. Money market mutual funds are limited to 20% per issuer and are not subject to the 10% stipulation.

8.9 Certificates of deposit:

- 8.9.1 **Secured (collateralized) time deposits** issued by a nationally or state-chartered bank or state or federal savings and loan association, as defined by Section 5102 of the California Financial Code, and having a net operating profit in the two (2) most recently completed fiscal years. Collateral must comply with Chapter 4, Bank Deposit Law, Section 16500 *et seq.*, and Chapter 4.5, Savings and Loan Association and Credit Union Deposit Law, Section 16600 *et seq.*, of the California Government Code.
- 8.9.2 **Negotiable certificates of deposit (NCDs)** issued by a nationally or state-chartered bank or state of federal savings and loan association, as defined by Section 5102 of the California Financial Code; <u>and</u> which shall have a rating of "A" or better on its long-term debt as provided by a NRSRO; or which shall have the highest letter and number rating for deposits as provided by a NRSRO; or as otherwise approved by <u>the District's-the</u> Board of Directors. No more than 30% of the portfolio may be invested in securities pursuant to this section.
- 8.9.3 To be eligible to receive local agency money, a bank, savings association, federal association, or federally insured individual loan company shall have received an overall rating of not less than "satisfactory" in its most recent evaluation by the appropriate federal financial supervisorial agency of its record of meeting the credit needs of California's communities, including low and moderate income neighborhoods, pursuant to Section 2906 of Title 12 of the United States Code.
- 8.10 **Taxable or tax-exempt municipal bonds** issued by any of the 50 United States. Such securities must be rated "A" or higher by a NRSRO; or as otherwise approved by the Districts' the Board of Directors.
- 8.11 The State of California Local Agency Investment Fund (LAIF). The LAIF is an investment alternative for California's local governments and special districts managed by the State Treasurer's Office. LAIF is more fully described in the Glossary (See Appendix "CH."). OCSDThe District shall use LAIF as a short-term cash management facility. Investment of OCSDDistrict funds in LAIF shall be subject to investigation and due diligence prior to investing, and on a continual basis to a level of review pursuant to Section 3.0, Standard of Prudence, of this Policy.—See Appendix "D" for investment pool questionnaire.
- 8.12 The Orange County Treasurer's Money Market Commingled Investment Pool (OCCIP). The OCCIP is a money market investment pool managed by the Orange County Treasurer's Office. OCCIP is more fully described in the Glossary- (See Appendix "CH."). OCSDThe District has no funds invested in OCCIP at this time. Investment of OCSDDistrict funds in OCCIP would be subject to investigation and due diligence prior to

investing, and on a continual basis to a level of review pursuant to Section 3.0, Standard of Prudence, of this Policy.

8.13 Repurchase agreements provided that:

- 8.13.1 All repurchase agreements shall be collateralized with securities eligible for purchase under this Policy. In order to anticipate market changes and to provide a level of security for all repurchase agreement transactions, collateralization shall be maintained at a level of at least 102% of the market value of the repurchase agreements, and shall be adjusted no less than weekly.
- 8.13.2 All repurchase agreements must be the subject of a Master Repurchase Agreement between OCSD and the provider of the repurchase agreement. The Master Repurchase Agreement shall be substantially in the form developed by The Bond Market Association.

8.14 Reverse repurchase agreements provided that:

- 8.14.1 No more than five percent (5%) of OCSD's portfolio shall be invested in reverse repurchase agreements, and there shall be no long-term reverse repurchase agreements unless otherwise authorized by the Districts' Board of Directors.
- 8.14.2 The maximum maturity of reverse repurchase agreements shall be ninety (90) days.
- 8.14.3 Reverse repurchase agreements shall mature on the exact date of a known cash flow which will be unconditionally available to repay the maturing reverse repurchase agreement.
- 8.14.4 Proceeds of reverse repurchase agreements shall be used solely to supplement portfolio income or to provide portfolio liquidity, and shall not be used to speculate on market movements.
- 8.14.5 All reverse repurchase agreements must be the subject of a Master Repurchase Agreement between OCSD and the provider of the reverse repurchase agreement. The Master Repurchase Agreement shall be substantially in the form developed by The Bond Market Association.
- 8.15 Sales of OCSD-owned securities in the secondary market may incur losses in order to improve the risk or return characteristics of the portfolio, to prevent anticipated further erosion of principal, or when trading for securities that result in an expected net economic gain to OCSD.
- If securities owned by the OCSD are downgraded below the quality required by this Investment Policy, it shall be OCSD's policy to review the credit situation and make a determination as to whether to sell or retain such securities in the portfolio. If a decision is made to retain the downgraded securities in the portfolio, their presence in the portfolio will be monitored and reported quarterly mentally to the OCSD General

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9.0 Review of Investment Portfolio:

The securities held by OCSD must be in compliance with Section 8.0 "Authorized and Suitable Investments" at time of purchase. If at a later date, a security is no longer in compliance with Section 8.0, the Treasurer shall report the non-compliant security to the Administration Committee and the-Board of Directors and shall include a disclosure in the quarterly Treasurer's Report if the security is held at the date-the-date the report is prepared.

10.0 Investment Pools/Mutual Funds:

A thorough investigation of the pool/fund is required prior to investing, and on a continual basis. A questionnaire shall be developed that will provide the following information:

- 10.1 A description of eligible investment securities, and a written statement of investment policy and objectives.
- 10.2 A description of interest calculations and how they are distributed, and how gains and losses are treated.
- 10.3 A description of how the securities are safeguarded (including the settlement processes) and how often the securities are priced and the program audited.
- 10.4 A description of who may invest in the program, how often, and what size deposits and withdrawals are allowed.
- 10.5 A schedule for receiving statements and portfolio listings.
- 10.6 A description of the utilization and level of reserves, retained earnings or other collateral and how they are used by the fund.
- 10.7 A fee schedule, and when and how is it assessed.
- 10.8 Whether the pool/fund is eligible for bond proceeds and/or whether it will accept such proceeds.

11.0 **Collateralization:**

Generally, the value to secure deposits under this Policy shall comply with Section 53652 of the California Government Code. Collateralization will be required for secured time deposits, as more fully described in Section 8.9.1; and repurchase agreements, as more fully described in Section 8.13.1. Collateral will always be held by an independent third-party, as more fully described in Section 12.0. The right of collateral substitution is

granted.

12.0 Safekeeping and Custody:

All securities transactions, including collateral for repurchase agreements, entered into by, or on behalf of OCSD, shall be conducted on a **delivery-versus-payment (DVP)** basis. Securities will be held by OCSD's third-party custodian bank, which shall be selected through a competitive process, or that agent's representative, or in the agent's account at the Federal Reserve Bank, **or within clearing corporations in the U.S.**, and evidenced by book entry statements.

13.0 **Diversification:**

OCSD will diversify its investments by security type, issuer, and financial institution in accordance with the following:

- 13.1 There is no limit on investment in securities issued by or guaranteed by the full faith and credit of the U.S. government.
- 13.2 No more than 20% of the portfolio may be invested in securities of a single agency of the U.S. government, which does not provide the full faith and credit of the U.S. government.
- 13.3 No more than 5% of the portfolio may be invested in securities of any one issuer, other than Supranationals, the U.S. government or its agencies. Investment in mutual funds is not governed by this Section 13.3. See Section 13.8 for conditions of purchase of mutual funds.
- 13.4 No individual holding shall constitute more than 5% of the total debt outstanding of any issuer.
- 13.5 No more than 40% of the portfolio may be invested in banker's acceptances.
- 13.6 No more than 25% of the portfolio may be invested in commercial paper.
- 13.7 No more than 30% of the portfolio may be invested in medium-term (corporate) notes.
- 13.8 No more than 20% of the portfolio may be invested in mutual funds. No more than 10% of the DistrictOCSD's portfolio may be invested in shares of beneficial interest of any one (1) mutual fund. Money market mutual funds are limited to 20% per issuer and are not subject to the 10% stipulation.
- 13.9 No more than 30% of the portfolio may be invested in negotiable certificates of deposit.

- 13.10 No more than 10% of the portfolio may be invested in eligible municipal bonds.
- 13.11 No more than 20% of the Long Term Operating Monies portfolio may be invested in a combination of mortgage-backed securities, CMOs and asset-backed securities.
- 13.12 No more than the lesser of 15% of the portfolio or the statutory maximum may be invested in LAIF.
- 13.13 No more than 15% of the portfolio may be invested in the Orange County Investment Pool.
- 13.14 No more than 20% of the portfolio may be invested in repurchase agreements.
- 13.15 No more than 5% of the portfolio may be invested in reverse repurchase agreements.

14.0 Maximum Maturities:

To the extent possible, OCSD will attempt to match its investments with reasonably anticipated cash flow requirements. The Treasurer shall develop a five-year cash flow forecast, which shall be updated quarterly. Based on this forecast, the Treasurer shall designate, from time-to-time, the amounts to be allocated to the investment portfolio. OCSD monies invested in accordance with this Policy are divided into two (2) categories:

- 14.1 **Liquid Operating Monies**. Funds needed for current operating and capital expenditures are known as Liquid Operating Monies.
 - 14.1.1 The maximum final stated maturity of individual securities in the Liquid Operating Monies account portfolio shall be one (1) year from the date of settlement.
 - 14.1.2 The average duration of the Liquid Operating Monies account portfolio shall be recommended by the Treasurer based on the OCSD's Districts' cash flow requirements, but may never exceed 180 days.
- 14.2 **Long Term Operating Monies**. Funds needed for longer term purposes are known as the Long Term Operating Monies.
 - 14.2.1 The maximum final stated maturity of individual securities in the Long Term Operating Monies account portfolio shall be five (5) years from the date of settlement.
 - 14.2.2 The duration of the Long Term Operating Monies account portfolio shall be recommended by the Treasurer based on the

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OCSD's District's five-year cash flow forecast, but may never exceed 60 months.

14.2.3 The duration of the Long Term Operating Monies account portfolio shall never exceed 120% of the duration as established in

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accordance with Section 14.2.2.

14.2.4 The duration of the Long Term Operating Monies account portfolio shall never be less than 80% of the duration as established in accordance with Section 14.2.2.

15.0 Internal Control:

The Treasurer shall establish an annual process of independent review by an external auditor. This review will provide internal control by assuring compliance with policies and procedures.—The current treasury management procedures are presented in Appendix "B."

16.0 **Performance Objectives and Benchmarks:**

- 16.1 Overall objective. The investment portfolio of OCSD shall be designed with the overall objective of obtaining a rate of return throughout budgetary and economic cycles, commensurate with investment risk constraints and reasonably anticipated cash flow needs.
- 16.2 **The Liquid Operating Monies.** The investment performance objective for the Liquid Operating Monies shall be to earn a total rate of return over a market cycle which exceeds the return on a market index approved by the Administration Committee, and by the the District's-Board of Directors, when the duration of the portfolio is established. This market index is more fully described in Board Resolution No. OCSD198-XX23 (see Appendix "BE").
- 16.3 **The Long Term Operating Monies.** The investment performance objective for the Long Term Operating Monies shall be to earn a total rate of return over a market cycle which exceeds the return on a market index selected by the Administration Committee and approved by the Point Board of Directors, when the duration of the portfolio is established. This market index is more fully described in Board Resolution No. OCSD 198-XX23 (See Appendix "BE").

17.0 **Reporting:**

17.1 Monthly transaction reports in accordance with California Government Code Section 53607 shall be submitted by the Treasurer to the the District's Board of Directors.

- 17.2 Quarterly investment reports will be submitted by the Treasurer to the Administration Committee which shall forward the reports to the-bistrict's Board of Directors. The quarterly reports shall provide clear and concise status information on OCSD'sthe-District's portfolios at the end of each reporting period, including performance measures using the benchmarks described in Section 14.0 of this Investment Policy. <a href="Sample quarterly reports are presented in Appendix "F."—These reports shall contain listings of individual securities held at the end of each reporting period, and shall disclose, at a minimum, the following information about the risk characteristics of OCSD's portfolio:
 - 17.2.1 Cost and accurate and complete market value of the portfolio.
 - 17.2.2 Modified duration of the portfolio compared to Benchmark.
 - 17.2.3 Dollar change in value of the portfolio for a one-percent (1%) change in interest rates.
 - 17.2.4 Percent of portfolio invested in reverse repurchase agreements, and a schedule which matches the maturity of such reverse repurchase agreements with the cash flows which are available to repay them at maturity.
 - 17.2.5 For the Liquid Operating Monies account only, the percent of portfolio maturing within 90 days.
 - 17.2.6 Average portfolio credit quality.
 - 17.2.7 Percent of portfolio with credit ratings below "A" by any rating agency, and a description of such securities.
 - 17.2.8 State that all investments are in compliance with this policy and the California Government Code, or provide a listing of any transactions or holdings which do not comply with this policy or with the California Government Code.
 - 17.2.9 Time-weighted total rate of return for the portfolio for the prior three months, twelve months, year to date, and since inception compared to the Benchmark returns for the same periods.
 - 17.2.10 State that sufficient funds are available for OCSD to meet its operating expenditure requirements for the next six months, or if not, state the reasons for the shortfall.
- 17.3 OCSD's Treasurer shall meet quarterly with the Administration Committee to review investment performance, proposed strategies and compliance with this Investment Policy. External investment advisors may be required to attend said meetings at the discretion of the Chairman of the Administration Committee.

18.0 **Investment Policy Adoption and Revision:**

- 18.1 The Investment Policy of OCSD shall be reviewed by the Administration Committee and shall be adopted by resolution of the Board of Directors of OCSD. The Investment Policy shall be reviewed on an annual basis in accordance with California Government Code Section 53646, and this Investment Policy, by the Administration Committee, which shall recommend revisions, as appropriate, to the Board of Directors. Any modifications made thereto shall be approved by the Board of Directors.
- 18.2 The Administration Committee shall serve as the oversight committee for OCSD'sthe District's Investment program and shall adopt guidelines for the ongoing review of duration, quality and liquidity of OCSD'sthe District's portfolio.

RESOLUTION NO. OCSD 19-21

A RESOLUTION OF THE BOARD OF DIRECTORS OF THE ORANGE COUNTY SANITATION DISTRICT, AUTHORIZING THE ORANGE COUNTY SANITATION DISTRICT'S TREASURER TO INVEST AND/OR REINVEST THE ORANGE COUNTY SANITATION DISTRICT'S FUNDS, ADOPTING THE ORANGE COUNTY SANITATION DISTRICT'S INVESTMENT POLICY STATEMENT AND PERFORMANCE BENCHMARKS, AND REPEALING RESOLUTION NO. OCSD 18-23

WHEREAS, on December 19, 2018, the Board of Directors adopted Resolution No. 18-23, readopting the Orange County Sanitation District's ("OCSD") Investment Policy Statement, and establishing specific performance benchmarks and objectives, together with a schedule of frequency of investment performance reports; and

WHEREAS, pursuant to California Government Code Section 53607, the Board of Directors may delegate authority to invest and/or reinvest OCSD's funds to the Treasurer for a one-year period; and

WHEREAS, pursuant to California Government Code Section 53646, OCSD is required to review its Investment Policy annually and readopt its Policy at a public meeting, which Policy will establish specific performance benchmarks and objectives, and specific monitoring and reports.

NOW, THEREFORE, the Board of Directors of the Orange County Sanitation District, DOES HEREBY RESOLVE, DETERMINE AND ORDER:

Section 1: That the authority of the Board of Directors to invest or reinvest surplus funds, or to sell or exchange securities so purchased, or to deposit for safekeeping the funds and investments of OCSD with depositories, as provided for in California Government Code Sections 53608 and 53630, is hereby delegated to the OCSD's Treasurer for a one-year period, January 1, 2020 through December 31, 2020, as authorized by California Government Code Section 53607.

<u>Section 2:</u> That the Board of Directors hereby adopts the Investment Policy Statement of the Orange County Sanitation District.

<u>Section 3:</u> That the Board of Directors hereby adopts the following specific performance benchmarks for their two investment funds in accordance with Section 16.0 of the OCSDs Investment Policy:

<u>LIQUID OPERATING MONIES:</u> The Short-Term Operating Fund will be compared to the three-month Bank of America Merrill Lynch T-Bill rate, and the Callan Active Cash Flow Income Style Group. The Callan Active Cash Flow Income Style Group represents a peer group of managers who operate with a maximum maturity of one year.

<u>LONG-TERM OPERATING MONIES:</u> The Long-Term Operating Fund will be compared to the Bank of America Merrill Lynch Corporate and Government One-to-Five Year Maturity Index and to the Callan Defensive Fixed Income Style Group.

Section 4: That the Board of Directors hereby adopts a performance monitoring and reporting schedule, as required by Section 17.0 of OCSD's Investment Policy.

Section 5: That Resolution No. OCSD 18-23 is hereby repealed.

County Sanitation District held De	ecember 18, 2019.	
	David John Shawver Board Chairman	
ATTEST:		
Kelly A. Lore, MMC Clerk of the Board	-	

PASSED AND ADOPTED at regular meeting of the Board of Directors, Orange

STATE OF CALIFORNIA)	SS
COUNTY OF ORANGE)	
District, do hereby certify tha	of the Board of Directors of the Orange County Sanitation the foregoing Resolution No. OCSD 19-21 was passed and g of said Board on the 18th day of December 2019, by the
AYES:	
NOES:	
ABSTENTIONS:	
ABSENT:	
	EOF, I have hereunto set my hand and affixed the official ation District this 18th day of December 2019.
	Kelly A. Lore, MMC Clerk of the Board of Directors Orange County Sanitation District



Orange County Sanitation District

Administration Building 10844 Ellis Avenue Fountain Valley, CA 92708 (714) 593-7433

LEGISLATIVE AND PUBLIC AFFAIRS COMMITTEE

Agenda Report

File #: 2019-836 Agenda Date: 12/18/2019 Agenda Item No: 15.

FROM: James D. Herberg, General Manager

SUBJECT:

PUBLIC AFFAIRS UPDATE FOR THE MONTH OF NOVEMBER 2019

GENERAL MANAGER'S RECOMMENDATION

RECOMMENDATION:

Receive and file the Public Affairs Update for the month of November 2019.

BACKGROUND

Staff will provide an update on recent public affairs activities.

RELEVANT STANDARDS

- Maintain influential legislative advocacy and a public outreach program
- Build brand, trust, and support with policy makers and community leaders
- Maintain collaborative and cooperative relationships with regulators, stakeholders and neighboring communities
- Listen to and seriously consider community input on environmental concerns

PROBLEM

The Orange County Sanitation District (Sanitation District) is well recognized within the water/wastewater industry; however, within our service area there is limited knowledge by our customers of the important work we do to protect public health and the environment. In general, the customers we serve do not realize that when they improperly dispose of waste into the sanitation system, it can negatively affect our sewer lines, our treatment plants, and the quality of water we supply for the Groundwater Replenishment System.

PROPOSED SOLUTION

By providing tours, community outreach, education, and general communication via the Sanitation District's website, social media outlets, and direct mailings, we have the ability to educate the community, local agencies, and businesses on our messaging such as the What2Flush program, energy production, water recycling, biosolids, and our source control program. This, in turn, helps improve the quality of wastewater that is recycled or released to the ocean.

File #: 2019-836 Agenda Date: 12/18/2019 Agenda Item No: 15.

TIMING CONCERNS

N/A

RAMIFICATIONS OF NOT TAKING ACTION

If we do not educate the community, local agencies, and area businesses about the Sanitation District, we may not have the support necessary to deliver our mission.

PRIOR COMMITTEE/BOARD ACTIONS

N/A

ADDITIONAL INFORMATION

November 2019

Activity	#	# of Guests
OCSD/OCWD Tours	4	83
OCSD Tours	12	181
Speaking Engagements	4	110
Events	3	450

Current Activities - November 2019

Groundwater Replenishment System Groundbreaking

On November 8, the Orange County Water District (OCWD) and Sanitation District celebrated the Final Expansion of the Groundwater Replenishment System (GWRS) with a groundbreaking ceremony attended by more than 250 elected officials, project stakeholders, and industry professionals.

The Final Expansion of the GWRS is the third and final phase of the project. The GWRS first began operating in 2008, producing 70 million gallons of water a day (MGD) and, in 2015, the GWRS underwent a 30 MGD expansion. When the Final Expansion is completed in 2023, the GWRS will produce 130 MGD of highly purified water to meet the needs of 1 million people.

Speaking Engagement

On November 14, Rob Thompson, Assistant General Manager, participated in the Construction Management Association of America Southern California Chapter State of the Economy forum alongside executive members from Orange County Public Works and Orange County Transportation Authority. Mr. Thompson presented on the Sanitation District's Capital Improvement Program, highlighting the plan for the next couple of years.

File #: 2019-836 Agenda Date: 12/18/2019 Agenda Item No: 15.

Turing Red Tape Into Red Carpet Awards Ceremony

Last month, staff attended the Orange County Business Council's Ninth Annual Turning Red Tape Into Red Carpet award ceremony. The Sanitation District submitted nominations for the following efforts: Odor and Corrosion Program, Converting Food Waste Into Green Energy, Battery Energy Storage System, and was included in an entry for our partnership with Orange County Health Care and Public Works, South Orange County Wastewater Authority for our joint effort with the Ocean Water Protection Program. We are happy to announce that we won an award in the Sustainable and Green Development Category for our Interim Food Waste Diversion Program.

Communications Audit is Underway

The Communications Audit, led by Tripepi Smith and Associates, is expected to be completed in March 2020. Sanitation District staff and Board members have been interviewed to assess the effectiveness of the Sanitation District's internal and external communication pieces. When complete, recommendations will be made for improvements to the Sanitation District's communication efforts. This valuable information will be used to formulate the Public Affairs Strategic Plan for FY 2020-2022.

Construction Outreach

The Santa Ana River Interceptor (SARI) Rock Stabilization Removal project in the City of Yorba Linda continues. Nearly half of the 22,000 tons of rock have been removed from the Santa Ana River. Work has commenced near residential neighborhoods and a notification was provided to the surrounding community to alert them of activity they may notice. Flyer boxes with copies of the notification were also set up along the bike trail adjacent to the river.

CEQA

N/A

FINANCIAL CONSIDERATIONS

N/A

ATTACHMENTS

The following attachment(s) may be viewed on-line at the OCSD website (www.ocsd.com) with the complete agenda package:

- Outreach Report November 2019
- Media Clips November 2019
- PowerPoint Presentation LaPA Committee Meeting 12/09/2019

Outreach Report November 2019

Date	Event	Attendees
11/1/2019	Chapman Univ. Tour	20
11/2/2019	EcoChallenge	200
11/4/2019	Hope University Tour	9
11/5/2019	CSSD Tour	7
11/7/2019	Speaking Engagement - Biosolids	6
11/7/2019	Speaking Engagement - CA Alliance for Sewer System Excellence	20
11/8/2019	Golden West College Tour	5
11/8/2019	GWRS Expansion Event	200
11/8/2019	Cal Poly Tour	30
11/9/2019	SCC Wastewater Class tour	9
11/14/2019	Speaking Engagement - CMAA	25
11/15/2019	OCC Tour	17
11/15/2019	FV Disaster Prep Expo	50
11/18/2019	GWC Tour	17
11/21/2019	International Bottled Water Assoc. Tour	25
11/22/2019	OCC Tour	30
11/25/2019	CSULB Nursing Tour	13
11/26/2019	New Employee/Open Tour	25
11/26/2019	OCWD Dir. Zahra Tour	1

Table of Contents

<u>GWRS</u>	PAGE 1
Noven	nber 7, 2019 O.C. districts to break ground on final phase of groundwater replenishment system By: Daily Pilot Staff Daily Pilot
Noven	nber 8, 2019 Orange County's pioneering wastewater recycling system embarks on major expansion By: Martin Wisckol OC Register
Noven	nber 8, 2019 Press Release By: Gina Ayala / Rebecca Long
Noven	nber 8, 2019 U.S. EPA celebrates WIFIA project with groundbreaking at Orange County Water District By: Soledad Calvino EPA
Noven	nber 11, 2019 OCWD breaks ground on GWRS final expansion project in California By: NS Energy Staff NS Energy
Novem	nber 12. 2019

November 13, 2019

on major expansion
U.S. Breaking News

The World's Largest Water Reuse Project is in its Final Stages **Environmental Protection**

Orange County's pioneering wastewater recycling system embarks

November	14.	. 2019)
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California's OCWD breaks ground on GWRS final expansion project **Smart Water Magazine**

November 18, 2019

U.S. EPA Celebrates WIFIA Project

Christina Tuser

Water & Wastes Digest

HUMAN INTEREST.....PAGE 26

October 15, 2019

Metropolitan, Sanitation Districts launch new water recycling demo

WaterWorld

October 22, 2019

OCWD Wins AMWA Gold Award for Exceptional Utility Performance **Water OnLine**

October 22, 2019

Poseidon, Doheny desalination plants advance in EPA funding quest

By: Martin Wisckol OC Register

October 22, 2019

U.S. EPA to provide \$585 Million for Climate-Resilient Huntington Beach Seawater Desalination Plant

Business Wire

October 23, 2019

Orange County College invests \$22 million in new training center for maritime programs

By: Lou Ponsi

OC Register

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•	\sim	\sim \sim \cdot	,			•

EPA to Provide \$585 Million for Climate-Resilient Huntington Beach Seawater Desalination

Efficient Gov

October 24, 2019

California college begins construction of Mariner training center Mike Kennedy

American School & University

October 31, 2019

London's sewer's 40-ton fatberg cleared after 3 weeks, debris removed by hand, officials say

By: Stephen Sorace

Fox News

November 4, 2019

2019 Excellence in Environmental Engineering and Science Awards Competition Winners

American Academy of Environmental Engineers and Scientists

IWITTER POSTINGS	PAGE 56
FACEBOOK POSTINGS	Page 57
INSTAGRAM POSTINGS	PAGE 60

Monthly News Clippings



November 2019

Daily Pilot November 7, 2019



Around Town:

O.C. districts to break ground on final phase of groundwater replenishment system



By DAILY PILOT STAFF NOV. 7, 2019 1:49 PM

The Orange County Water District and Orange County Sanitation District will host a groundbreaking event Friday for the final expansion of the groundwater replenishment system in Fountain Valley.

The system, billed as the world's largest potable reuse facility, treats sewer water and protects the county's groundwater basin.

The final expansion, set to be complete in 2023, will allow the system to provide enough water for one million people in north and central Orange County.

The groundbreaking ceremony will run from noon to 1:30 p.m. at 18700 Ward St.

Orange County Register November 8, 2019

ORANGE COUNTY REGISTER

Orange County's pioneering wastewater recycling system embarks on major expansion

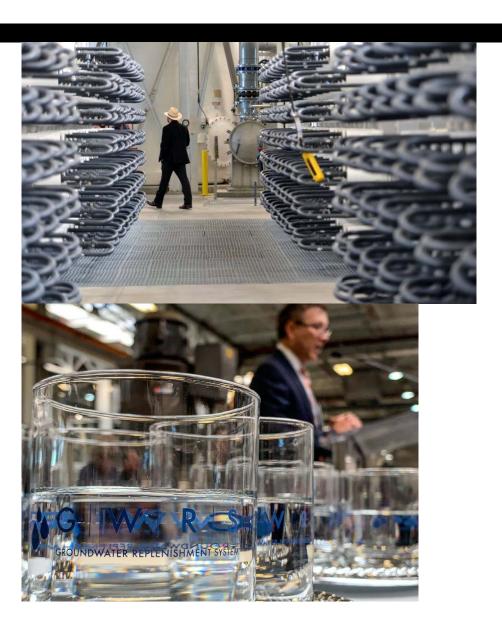
The virtually drought-proof program is touted as the largest of its kind in the world.



By MARTIN WISCKOL | mwisckol@scng.com | Orange County Register PUBLISHED: November 8, 2019 at 4:01 pm | UPDATED: November 8, 2019 at 8:42 pm

Orange County's wastewater recycling program, a pioneering idea that's already touted as the largest of its type in the world, is about to get bigger.

Big enough, in fact, to serve the tap water needs of about 1 million residents, according to the Orange County Water District and Orange County Sanitation District. Dubbed the Groundwater Replenishment System, the project produces water that is half the price of imported water and is virtually immune to both drought and reductions in imports.



The water and sanitation districts, partners in the 11-year-old project, hosted a groundbreaking ceremony Friday to celebrate its expansion. The Fountain Valley event drew about 250 local, state and federal officials, consultants and employees. Actual construction is scheduled to begin next week and be completed in early 2023.

"It's probably one of the most innovative water systems in the world," Vicente Sarmiento, chairman of the water district board, told attendees over the whine of the system's machinery.

The program runs treated wastewater through an additional cleansing process that includes microfiltration, reverse osmosis and ultraviolet light. The result is water that's purer than imports or storm water. The process removes virtually all contaminants, including any trace of PFAS carcinogens.

The water is then used to replenish the groundwater aquifer, where it's stored until the Orange County Water District's 19 member retailers pump it to residential and business customers.

The Orange County Water District supplies water to the north and central parts of the county, accounting for about 2.5 million of the county's 3.2 million residents. The 103,000 acre feet of water currently produced annually by the recycling project accounts for about 25% of the district's total water supply, with imported water providing another 25%.

The expansion will increase annual production of the recycled water to 134,000 acre feet and use all of the sanitation district's reclaimable water, which would otherwise be pumped into the ocean. One acre foot is enough water for about two households of four annually, according to the water district.

Sarmiento reminded attendees at Friday's ceremony that the concept of making wastewater potable wasn't even a pipe dream in the 1960s and 1970s. Today, that idea is increasingly being implemented. Just a few miles up the 405 Freeway in Carson, a pilot project was launched in October that could eventually result in a recycled water project producing 150,000 acre feet a year.

Imported water costs Orange County agencies about \$1,100 an acre foot while groundwater suffused with purified wastewater costs them \$587 including pumping costs, according to John Kennedy, Orange County Water District's executive director of engineering and water resources.

GWRS November 8, 2019

PRESS RELEASE



FOR IMMEDIATE RELEASE

CONTACTS: Gina Ayala, (714) 378-3323, gayala@ocwd.com Rebecca Long, (714) 593-7444, rlong@ocsd.com

ORANGE COUNTY WATER AND SANITATION DISTRICTS BREAK GROUND ON PROJECT THAT RECYCLES 100% OF AVAILABLE WASTEWATER FLOWS INTO DRINKING WATER FOR 1 MILLION PEOPLE

FOUNTAIN VALLEY, Calif. (November 8, 2019) – Today, the Orange County Water District (OCWD) and Orange County Sanitation District (OCSD) celebrated the Final Expansion of the Groundwater Replenishment System (GWRS) with a groundbreaking ceremony attended by elected officials, project stakeholders and industry professionals.

The Final Expansion of the GWRS is the third and final phase of the project. The GWRS first began operating in 2008 producing 70 million gallons of water a day (MGD) and in 2015, it underwent a 30MGD expansion. When the Final Expansion is completed in 2023, the plant will produce 130 MGD.

"Today marks an important milestone in Orange County's water future," said OCWD President Vicente Sarmiento. This is what we work for day in and day out—to provide a high-quality, reliable water supply to 2.5 million people in our service area. Total production will be enough water for 1 million people when the expansion is completed. The GWRS is vital to combatting climate change and sustaining Orange County's water supplies and its thriving economy."

The GWRS, the world's largest water reuse project of its kind, is the result of decades of collaboration between OCWD and OCSD to overcome the stigma associated with these types of projects and bring water reliability to the region.

OCWD and OCSD see wastewater as a resource. Instead of discharging treated wastewater to the Pacific Ocean, OCSD treats it and produces water clean enough to undergo purification at the GWRS. This water is then purified at the GWRS using a three-step advanced process consisting of microfiltration, reverse osmosis and ultraviolet light with hydrogen peroxide. The result is high quality water that meets and exceeds state and federal drinking water standards. This purified water is then injected into a seawater barrier and pumped to recharge basins where it naturally percolates into the

Orange County Groundwater Basin, managed by OCWD, and supplements Orange County's drinking water supplies. Currently, GWRS water accounts for one-third of the water that is put into the basin. "We are honored to partner with the Orange County Water District in ensuring strict source control of the wastewater and working to increase the amount of water sent to the GWRS," stated OCSD Board Chairman, David J. Shawver. "We have made significant investments and are dedicated to the prudent use of public funds for this and all future projects benefiting our community."

The Final Expansion requires a total treated wastewater flow from OCSD of approximately 175 MGD in order to produce 130 MGD of advanced purified recycled water. "This project will allow the region to recycle 100% of OCSD's reclaimable flows, which will be yet another first in the industry," added Shawver

The GWRS is a financially responsible project that produces water at a lower cost than imported water. Funding for the Final Expansion includes \$135 million from the Environmental Protection Agency's Water Infrastructure Finance and Innovation Act (WIFIA) program and \$1.1 million in grants from the U.S. Department of the Interior Bureau of Reclamation Title XVI Water Infrastructure Improvements for the Nation (WIIN) program.

"The Orange County Water District's advanced system expansion will benefit the local community, the economy and the environment," said EPA Pacific Southwest Regional Administrator Mike Stoker. "We are honored to help fund this project and reduce borrowing costs through our WIFIA loan program."

Additionally, the Final Expansion received the highest ratings for all North Orange County projects submitted through the Integrated Regional Water Management (IRWM) program for Prop 1 grant funding managed by the California Department of Water Resources. The project is currently slated to receive \$3.6 million in grants through the IRWM program. The remaining \$186 million will be funded through the Clean Water State Revolving Fund (SRF) Loan program.

For more information about the GWRS and the Final Expansion, please visit https://www.ocwd.com/gwrs.

About the Orange County Water District

The Orange County Water District is committed to enhancing Orange County's groundwater quality and reliability in an environmentally friendly and economical manner. The following cities rely on the groundwater basin, managed by OCWD, to provide 77% of their water demands: Anaheim, Buena Park, Costa Mesa, Cypress, Fountain Valley, Fullerton, Garden Grove, Huntington Beach, Irvine, La Palma, Los Alamitos, Newport Beach, Orange, Placentia, Santa Ana, Seal Beach, Stanton, Tustin, Villa Park, Westminster and Yorba Linda. For more information about OCWD, please visit www.ocwd.com, like @OCWaterDistrict on Facebook, follow @OCWDWaterNews on Twitter, follow @OCWD on Instagram, and follow Orange County Water District on LinkedIn.

About the Orange County Sanitation District

OCSD is a public agency that provides wastewater collection, treatment, and recycling for approximately 2.6 million people in central and northwest Orange County. OCSD is a special district that is governed by a 25-member Board of Directors comprised of 20 cities, four special districts, and one representative from the Orange County Board of Supervisors. OCSD has two operating facilities that treat wastewater from residential, commercial and industrial sources. For more information, about the Orange County Sanitation District visit www.ocsd.com.

EPA November 8, 2019



United States Environmental Protection Agency

News Releases from Region 09 U.S. EPA celebrates WIFIA project with groundbreaking at Orange County Water District

11/08/2019

Contact Information: Soledad Calvino (<u>calvino.maria@epa.gov</u>) 415-972-3512

FOUNTAIN VALLEY, Calif. – Today, the U.S. Environmental Protection Agency (EPA) and the Orange County Water District (OCWD) participated in a groundbreaking ceremony for the Groundwater Replenishment System (GWRS) Final Expansion in Orange County, California. This project is funded in part by a \$135 million Water Infrastructure Finance and Innovation Act (WIFIA) loan.

"Not only will OCWD's Ground Water Replenishment System provide Orange County residents and businesses with an additional local drinking water supply, it will also ensure the community is more resilient against periods of drought," **said EPA Pacific Southwest Regional Administrator Mike Stoker.** "Good water quality and wastewater management is vital to our health, communities, and economy. Through the WIFIA loan program, EPA is helping renew our nation's aging water infrastructure."

"OCWD greatly appreciates the WIFIA funding that will support public water infrastructure in Orange County," **said OCWD President Vicente Sarmiento.** "The GWRS Final Expansion will produce enough water for 1 million people, while also recycling 100% of the reclaimable wastewater from the Sanitation District. It's truly a win-win and we will continue to implement projects and programs that bring increased water reliability to the region."

Today, the OCWD hosted an event in Fountain Valley, California, to break ground on the GWRS Final Expansion project. Speakers included officials from OCWD, Orange County Sanitation District, State Water Resources Control Board and EPA, as well as elected officials. In August 2018, EPA announced the closing of this WIFIA loan. Upon completion, the expanded system will purify treated wastewater from the Orange County Sanitation District to produce an additional 30 million gallons per day of drinking water, which will be stored in the Orange County Groundwater Basin. This additional drought-proof drinking water supply reduces the region's need to import water, benefits the environment through reduced discharges into the ocean, and increases replenishment of the local groundwater source.

The Orange County Water District estimates the project will cost \$310 million. Because the WIFIA program offers loans with low interest rates, the Orange County Water District is expected to save up to \$16 million compared to municipal bonds. Project construction is expected to create 700 jobs and is scheduled to begin in 2019 and be completed in 2023.

Background on WIFIA

Established by the Water Infrastructure Finance and Innovation Act of 2014, the WIFIA program is a federal loan and guarantee program administered by EPA. WIFIA's aim is to accelerate investment in the nation's water infrastructure by providing long-term and low-cost supplemental credit assistance for regionally and nationally significant projects.

EPA has issued 14 WIFIA loans totaling over \$3.5 billion in credit assistance to help finance over \$8 billion for water infrastructure projects and create over 15,000 jobs. Through WIFIA, EPA is playing a leading role in President Trump's efforts to upgrade our nation's infrastructure, protect public health, and create jobs. For more information about the WIFIA program, visit https://www.epa.gov/wifia.

NS Energy November 11, 2019

NS ENERGY

OCWD breaks ground on GWRS final expansion project in California

POWERCLEAN TECHNOLOGYWATER AND WASTEWATER

By NS Energy Staff Writer 11 Nov 2019

The Groundwater Replenishment System final expansion project will help in producing an additional 30 million gallons of drinking water per day



Image: EPA supports water treatment plant in California. Photo: Courtesy of DengdaiFengQi/Pixabay.

The US Environmental Protection Agency (EPA) and the Orange County Water District (OCWD) have announced the start of construction on a new Groundwater Replenishment System (GWRS) final expansion project in Orange County, California.

The plant will help in purifying treated wastewater from the Orange County Sanitation District to produce an additional 30 million gallons per day of drinking water. The drinking water will be stored in the Orange County Groundwater Basin.

It is funded in part by a \$135m Water Infrastructure Finance and Innovation Act (WIFIA) loan.

The plant will act as an additional drought-proof drinking water supply source and will reduce the region's need to import water, benefiting the environment through reduced discharges into the ocean and will increase the replenishment of local groundwater.

The total cost of the project is estimated to be \$310m and with the support from EPA's WIFIA programme, the Orange County Water District could save up to \$16m compared to municipal bonds.

EPA Pacific Southwest Regional Administrator Mike Stoker said: "Not only will OCWD's Ground Water Replenishment System provide Orange County residents and businesses with an additional local drinking water supply, it will also ensure the community is more resilient against periods of drought.

"Good water quality and wastewater management is vital to our health, communities, and economy. Through the WIFIA loan program, EPA is helping renew our nation's aging water infrastructure."

During the project's construction phase, 700 new jobs will be created

The construction phase of the project, which is expected to be completed in 2023, could create up to 700 jobs.

Orange County Water District president Vicente Sarmiento said: "OCWD greatly appreciates the WIFIA funding that will support public water infrastructure in Orange County.

"The GWRS Final Expansion will produce enough water for 1 million people, while also recycling 100% of the reclaimable wastewater from the Sanitation District. It's truly a win-win and we will continue to implement projects and programs that bring increased water reliability to the region."

EPA announced the \$135m loan to Orange County Water District last August.

U.S. Breaking News November 12, 2019

U.S.BreakingNews

Orange County's pioneering wastewater recycling system embarks on major expansion

November 12, 2019

Orange County's wastewater recycling program, a pioneering idea that's already touted as the largest of its type in the world, is about to get bigger.

Big enough, in fact, to serve the tap water needs of about 1 million residents, according to the Orange County Water District and Orange County Sanitation District. Dubbed the Groundwater Replenishment System, the project produces water that is half the price of imported water, and is virtually immune to both drought and reductions in imports.



Cups of water filtered from wastewater sit on stage as Vicente Sarmiento, president of the Orange County Water District, addresses visitors during an expansion groundbreaking ceremony in Fountain Valley, CA, on Friday, Nov 8, 2019. (Photo by Jeff Gritchen, Orange County Register/SCNG)



Assemblyman Steven Choi (CA-68) joins other officials, including, Vicente Sarmiento, president of the Orange County Water District, stripped tie, and David Shawver, chairman of the Orange County Water District, as they toast to, and drink, water that has been filtered from wastewater during an expansion groundbreaking ceremony in Fountain Valley, CA, on Friday, Nov 8, 2019. (Photo by Jeff Gritchen, Orange County Register/SCNG)



Vicente Sarmiento, president of the Orange County Water District, addresses visitors during an expansion groundbreaking ceremony in Fountain Valley, CA, on Friday, Nov 8, 2019. (Photo by Jeff Gritchen, Orange County Register/SCNG)

The water and sanitation districts, partners in the 11-year-old project, hosted a groundbreaking ceremony Friday to celebrate its expansion. The Fountain Valley event drew about 250 local, state and federal officials, consultants and employees. Actual construction is scheduled to begin next week and be completed in early 2023.

"It's probably one of the most innovative water systems in the world," Vincente Sarmiento, chairman of the water district board, told attendees over the whine of the system's machinery.

The program runs treated wastewater through an additional cleansing process that includes microfiltration, reverse osmosis and ultraviolet light. The result is water that's purer than imports or storm water. The process removes virtually all contaminants, including any trace of PFAS carcinogens.

The water is then used to replenish the groundwater aquifer, where it's stored until the Orange County Water District's 19 member retailers pump it to residential and business customers.

The Orange County Water District supplies water to the north and central parts of the county, accounting for about 2.5 million of the county's 3.2 million residents. The 100,000 acre feet of water currently produced annually by the recycling project accounts for about 25% of the district's total water supply, with imported water providing another 25%.

The expansion will increase annual production of the recycled water to 130,000 acre feet and use all of the sanitation district's reclaimable water, which would otherwise be pumped into the ocean. One acre foot is enough water for about two households of four annually, according to the water district.

Sarmiento reminded attendees at Friday's ceremony that the concept of making wastewater potable wasn't even a pipe dream in the 1960s and 1970s. Today, that idea is increasingly being implemented. Just a few miles up the 405 Freeway in Carson, a pilot project was launched in October that could eventually result in a recycled water project producing 150,000 acre feet a year.

Imported water costs Orange County agencies about \$1,100 an acre foot while groundwater suffused with purified wastewater costs them \$587 including pumping costs, according to John Kennedy, Orange County Water District's executive director of engineering and water resources.

As part of Friday's ceremony, Sarmiento invited the officials on stage to a toast with glasses of the purified wastewater.

"The tradition is that we have to finish every last drop," he told them.

Environmental Protection November 13, 2019





The World's Largest Water Reuse Project is in its Final Stages

The final expansion of the Groundwater Replenishment System was celebrated in Orange County yesterday. The project poses high hopes for the future of California's water systems.

Nov 13, 2019

Technology allows us to repurpose used water in a number of ways through chemical processes. Agricultural runoff, potable drinking water, and even wastewater can all undergo water treatment systems to be filtered, repurposed, and used again. But, not surprisingly, this kind of recycling requires funds and the right organizations to support it.

The Orange County Water District (OCWD) and Orange County Sanitation District (OCSD) celebrated the final expansion step in California's most recent water system initiative: the Groundwater Replenishment System (GWRS).

In attendance at the ceremony were elected officials, project stakeholders, and industry professionals to see the last step in the project, due to be completed in 2023. The GWRS first began operating nearly 11 years ago and then produced an average of 70 million gallons of water a day (MGD). Upon completion, it will produce almost double at 130 MDG.

The state of California has long seen struggles in serving its millions of residents with clean and accessible water. Now, with the success of the GWRS, the state and organizations alike have hopes that the project will help serve their water demands to the approximate 2.6 million people in central and northwest Orange County.

The <u>Orange County Water District</u> released the following press release on the ceremony and final step in the project:

Today, the Orange County Water District (OCWD) and Orange County Sanitation District (OCSD) celebrated the Final Expansion of the Groundwater Replenishment System (GWRS) with a groundbreaking ceremony attended by elected officials, project stakeholders and industry professionals.

The Final Expansion of the GWRS is the third and final phase of the project. The GWRS first began operating in 2008 producing 70 million gallons of water a day (MGD) and in 2015, it underwent a 30-MGD expansion. When the Final Expansion is completed in 2023, the plant will produce 130 MGD.

"Today marks an important milestone in Orange County's water future," said OCWD President Vicente Sarmiento. This is what we work for day in and day out—to provide a high-quality, reliable water supply to 2.5 million people in our service area. Total production will be enough water for 1 million people when the expansion is completed. The GWRS is vital to combatting climate change and sustaining Orange County's water supplies and its thriving economy."

The GWRS, the world's largest water reuse project of its kind, is the result of decades of collaboration between OCWD and OCSD to overcome the stigma associated with these types of projects and bring water reliability to the region.

OCWD and OCSD see wastewater as a resource. Instead of discharging treated wastewater to the Pacific Ocean, OCSD treats it and produces water clean enough to undergo purification at the GWRS. This water is then purified at the GWRS using a three-step advanced process consisting of microfiltration,

reverse osmosis and ultraviolet light with hydrogen peroxide. The result is high quality water that meets and exceeds state and federal drinking water standards. This purified water is then injected into a seawater barrier and pumped to recharge basins where it naturally percolates into the Orange County Groundwater Basin, managed by OCWD, and supplements Orange County's drinking water supplies. Currently, GWRS water accounts for one-third of the water that is put into the basin.

"We are honored to partner with the Orange County Water District in ensuring strict source control of the wastewater and working to increase the amount of water sent to the GWRS," stated OCSD Board Chairman, David J. Shawver. "We have made significant investments and are dedicated to the prudent use of public funds for this and all future projects benefiting our community."

The Final Expansion requires a total treated wastewater flow from OCSD of approximately 175 MGD in order to produce 130 MGD of advanced purified recycled water. "This project will allow the region to recycle 100% of OCSD's reclaimable flows, which will be yet another first in the industry," added Shawver.

The GWRS is a financially responsible project that produces water at a lower cost than imported water. Funding for the Final Expansion includes \$135 million from the Environmental Protection Agency's Water Infrastructure Finance and Innovation Act (WIFIA) program and \$1.1 million in grants from the U.S. Department of the Interior Bureau of Reclamation Title XVI Water Infrastructure Improvements for the Nation (WIIN) program.

"The Orange County Water District's advanced system expansion will benefit the local community, the economy and the environment," said EPA Pacific Southwest Regional Administrator Mike Stoker. "We are honored to help fund this project and reduce borrowing costs through our WIFIA loan program."

Additionally, the Final Expansion received the highest ratings for all North Orange County projects submitted through the Integrated Regional Water Management (IRWM) program for Prop 1 grant funding managed by the California Department of Water Resources. The project is currently slated to receive \$3.6 million in grants through the IRWM program. The remaining \$186 million will be funded through the Clean Water State Revolving Fund (SRF) Loan program. For more information about the GWRS and the Final Expansion, please visit https://www.ocwd.com/gwrs.

Smart Magazine November 14, 2019



California's OCWD breaks ground on GWRS final expansion project



Orange County Water District

OCWD takes the limited water supply found in nature and supplements it to provide water for more than 2.5 million people in Orange County, California.

14/11/2019

The Orange County Water District and Orange County Sanitation District celebrated the Final Expansion of the Groundwater Replenishment System with a groundbreaking ceremony attended by elected officials, project stakeholders and industry professionals.

The Final Expansion of the GWRS is the third and final phase of the project. The GWRS first began operating in 2008 producing 70 million gallons of water a day (MGD) and in 2015, it underwent a 30- MGD expansion. When the Final Expansion is completed in 2023, **the plant will produce 130 MGD.**

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The GWRS, the world's largest water reuse project of its kind, is the result of decades of collaboration between OCWD and OCSD to overcome the stigma associated with these types of projects and bring water reliability to the region.

OCWD and OCSD see wastewater as a resource. Instead of discharging treated wastewater to the Pacific Ocean, **OCSD treats it and produces water clean enough to undergo purification at the GWRS**. This water is then purified at the GWRS using a three-step advanced process consisting of microfiltration, reverse osmosis and ultraviolet light with hydrogen peroxide. The result is high quality water that meets and exceeds state and federal drinking water standards.

This purified water is then injected into a seawater barrier and pumped to recharge basins where it naturally percolates into the Orange County Groundwater Basin, managed by OCWD, and supplements Orange County's drinking water supplies. Currently, GWRS water accounts for one-third of the water that is put into the basin.

Chairman, David J. Shawver. "We have made significant investments and are dedicated to the prudent use of public funds for this and all future projects benefiting our community."

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Water & Wastes Digest November 18, 2019



BY CRISTINA TUSER NOV 18, 2019 FACEBOOKTWITTERLINKEDIN

BUSINESS NEWS: U.S. EPA CELEBRATES WIFIA PROJECT

The U.S. EPA and the Orange County Water District (OCWD) participated in a groundbreaking ceremony for the Groundwater Replenishment System (GWRS) expansion in Orange County, Calif.,

U.S. EPA Celebrates WIFIA Project

The U.S. EPA and the Orange County Water District (OCWD) participated in a groundbreaking ceremony for the Groundwater Replenishment System (GWRS) Final Expansion in Orange County, Calif. The project is funded in part by a \$135 million Water Infrastructure Finance and Innovation Act (WIFIA) loan, according to an EPA press release.

"Not only will OCWD's Groundwater Replenishment System provide Orange County residents and businesses with an additional local drinking water supply, it will also ensure the community is more resilient against periods of drought," <u>said EPA Pacific Southwest Regional Administrator Mike Stoker</u>. "Good water quality and wastewater management is vital to our health, communities, and economy. Through the WIFIA loan program, EPA is helping renew our nation's aging water infrastructure."

"The GWRS Final Expansion will produce enough water for 1 million people, while also recycling 100% of the reclaimable wastewater from the Sanitation District," said OCWD President Vicente Sarmiento. "It's truly a win-win and we will continue to implement projects and programs that bring increased water reliability to the region."

Water World October 15, 2019

WaterWorld.

Metropolitan, Sanitation Districts launch new water recycling demoplant

Facility in Carson to develop new local water source for the region, could become one of largest recycling plants in the U.S.



CARSON, CA, OCT 15, 2019 -- In a major step toward the potential construction of one of the largest water recycling plants in the nation, the

Metropolitan Water District of Southern California and the Sanitation Districts of Los Angeles County were joined today by federal, state and local water leaders to celebrate the start of operations at the Regional Recycled Water Advanced Purification Center.

The 500,000-gallon-per-day demonstration facility takes cleaned wastewater from the Sanitation Districts' Joint Water Pollution Control Plant and purifies it using an innovative process that could significantly improve efficiencies and reduce costs in water recycling.

Over the next 15 months, Metropolitan will put this treatment process through rigorous testing to ensure the process effectively removes impurities and the resulting water meets the highest quality standards. The testing and other analyses will help the agencies determine whether to grow the facility to a full-scale plant that could potentially produce up to 150 million gallons of purified water daily — enough to serve more than 500,000 homes and industrial facilities.

"Today marks a key step in Metropolitan's endeavor to directly develop a drought-proof local water supply for millions of Southern Californians," said Metropolitan Board Chairwoman Gloria D. Gray. "Over the last two decades, Metropolitan has steadily diversified the region's water supply portfolio and prepared for a changing climate by investing in conservation and local supply projects. Metropolitan is now scaling that commitment up to a higher level."

Congresswoman Grace Napolitano, State Water Resources Control Board Chairman Joaquin Esquivel and Los Angeles Regional Board Chairwoman Irma Muñoz joined Metropolitan and the Sanitation Districts in celebrating the launch of operations.

"We have long been leaders and advocates in recycling water," said Sanitation Districts General Manager Robert Ferrante. "Most of the water from our other ten plants is currently reused. This project would use the region's largest untapped source of cleaned wastewater. We are excited to have Metropolitan as a partner in finding a solution that will benefit the entire Southern California region."

Construction on the \$17 million demonstration plant began in late 2017. While the water purification process being tested at the facility is based on proven technologies, it uses a new combination of treatment processes – starting with membrane bioreactors and followed by reverse osmosis, ultraviolet light and advanced oxidation – that could significantly increase efficiencies in treatment.

"There are certainly proven technologies to safely recycle water. But as we embark upon this major future investment, we need to explore how the process can be improved," Metropolitan General Manager Jeffrey Kightlinger said. "Others around the globe are watching as well."

In addition to gaining regulatory approval, the research facility will help confirm treatment costs, assess economic viability, and produce data to inform decisions for the future design, operation and optimization of a full-scale project. A later phase of testing will explore the potential of direct potable reuse, through raw water augmentation.

"The Regional Recycled Water Program is an ambitious project that requires the partnership of two large regional agencies with the right knowledge and expertise. We are thankful to be partnering with the Sanitation Districts," Kightlinger added.

As envisioned, the full-scale program, including associated distribution lines, would take about 11 years to construct, once approved. Purified water would be delivered through 60 miles of new pipelines to: four groundwater basins in Los Angeles and Orange counties for groundwater recharge and storage, industrial facilities, and, potentially, two of Metropolitan's existing water treatment plants for direct potable reuse.

Water OnLine October 22, 2019



News | October 22, 2019

OCWD Wins AMWA Gold Award For Exceptional Utility Performance

Fountain Valley, CA — The Orange County Water District (OCWD; the District) received the Association of Metropolitan Water Agencies' (AMWA) 2019 Gold Award for Exceptional Utility Performance. The presentation was made on October 21 at AMWA's Executive Management Conference in Newport, Rhode Island.

The AMWA Gold Awards for Exceptional Utility Performance recognize the large public drinking water systems that exhibit high levels of performance in the areas of product quality, customer satisfaction, employee and leadership development, operational optimization, financial viability, community sustainability, enterprise resiliency, infrastructure strategy and performance, stakeholder understanding and support, and water resource sustainability. Gold Award winners also show achievement in the areas of leadership, strategic business planning, knowledge management, measurement, and continual improvement management. The honor was bestowed by a distinguished panel of peer judges for OCWD's significant contribution to the drinking water industry.

"This award is recognition by your colleagues that your agency has made remarkable efforts to compete in a highly challenging and constantly changing environment. Congratulations on this high achievement," said Diane VanDe Hei, AMWA chief executive officer.

"Acknowledgement by our industry peers for our strong record of effective utility management is a true honor," said OCWD President Vicente Sarmiento. "This prestigious award spotlights our efforts towards community sustainability and pays special tribute to our employees and executive leadership."

The Orange County Water District began in 1933 as a California Special District to protect the local rights to Santa Ana River water and to manage the vast Orange County Groundwater Basin. It is now an international leader in water reuse and groundwater management and is home to the Groundwater Replenishment System—the world's largest advanced water purification project for potable reuse.

OCWD was the first to use reverse osmosis to purify wastewater to drinking water quality; and staff were called as consultants as California shaped its Sustainable Groundwater Management Act in 2014. The District's Philip L. Anthony Water Quality Laboratory is one of four public agency labs in the nation to have an Environmental Protection Agency (EPA) Unregulated Contaminant Monitoring Rule (UCMR) 4 program for five EPA methods. It is also the first laboratory in California to receive certification for polyfluoroalkyl substances (PFAS) detection.

OCWD created the largest constructed wetlands in the West to help purify Santa Ana River waters and for greater water yield while protecting endangered species. The Orange County Groundwater Basin, which OCWD manages, is non-adjudicated, and yet, because of a unique method of assessments and incentives, its 19-member groundwater producers can pump 77% of their drinking water (approx. 104 billion gallons per year) while the basin remains reliable.

Sound planning and investment, high standards for water reliability, exceptional water quality, environmental stewardship, sound financial management, and transparency are the District's hallmarks and standards, and they guide its ultimate mission to provide a reliable, high quality water supply in a cost-effective and environmentally responsible manner for 2.5 million people in north and central Orange County, California.

About Orange County Water District (OCWD)

The Orange County Water District is committed to enhancing Orange County's groundwater quality and reliability in an environmentally friendly and economical manner. The following cities rely on the groundwater basin, managed by OCWD, to provide 77 percent of their water demands: Anaheim, Buena Park, Costa Mesa, Cypress, Fountain Valley, Fullerton, Garden Grove, Huntington Beach, Irvine, La Palma, Los Alamitos, Newport Beach, Orange, Placentia, Santa Ana, Seal Beach, Stanton, Tustin, Villa Park, Westminster and Yorba Linda. For more information about OCWD, please visit www.ocwd.com, like @OCWaterDistrict on Facebook, follow @OCWDWaterNews on Twitter, and follow @OCWD on Instagram.

About Association of Metropolitan Water Agencies (AMWA)

The Association of Metropolitan Water Agencies is an organization of the largest publicly owned water utilities in the United States. AMWA is the voice of metropolitan water systems on federal water policy issues, and its programs foster sustainable, innovative utility management. Headquartered in Washington, DC, additional information about AMWA may be obtained by visiting https://www.amwa.net/. You can follow @AMWA_water on Twitter.

SOURCE: Orange County Water District (OCWD)

Orange County Register October 22, 2019

ORANGE COUNTY REGISTER

Poseidon, Doheny desalination plants advance in EPA funding quest

The low-interest federal loans would help make the projects more financially viable.



By MARTIN WISCKOL | mwisckol@scng.com | Orange County Register PUBLISHED: October 22, 2019 at 4:11 pm | UPDATED: October 22, 2019 at 4:41 pm

Desalination plants proposed for Huntington Beach and Dana Point got a boost Tuesday when the federal EPA selected them to apply for huge low-interest loans that would increase the viability of the projects.

Poseidon's \$1-billion plan for Huntington Beach and the South Coast Water District's \$110 million proposal near Doheny State Beach were two of 38 water projects nationwide chosen to proceed with final applications for the money. Poseidon is pursuing a \$585 million loan while South Coast is seeking \$60 million.

"It's significant," said Karl Seckel, assistant general manager of the Municipal Water District of Orange County. "The loans would improve the economics of the projects. This is good news for both of these projects."

While both plants would provide a drought-proof alternative to imported water, they also have detractors and regulators in their path.

The more controversial Poseidon project needs to receive permits from the Regional Water Quality Control Board and the state Coastal Commission before it can try to finalize a contract with the Orange County Water District. Cost of the desalinated water could prove a key issue in contract approval.

While Poseidon is a private, investor-backed project that would need such a contract, the much smaller Doheny plan is being pursued by a public agency that would sell the water to its own retail customers. But the South Coast Water District is still studying the economics of the proposal and has not yet begun the regulatory permit process beyond approving an environmental study for its own project.

Nonetheless, the Doheny project has been praised by some environmentalists who oppose the Poseidon plan. And those environmentalists aren't the only ones who prefer South Coast's desalination.

The Doheny project also fared better in a study last year by the Municipal Water District. The district, which oversees the distribution of water imported into the county, examined and ranked six major water projects — including variations of two — proposed throughout the county. One variation of the Doheny project ranked first and another ranked fourth. Two versions of the Poseidon project ranked at the bottom of the list.

Seckel was unable to say whether the federal loan would improve Poseidon's ranking. But he did note the impact it would have on the project's financing.

His district's study of the six projects did not include federal loan money for Poseidon and calculated the interest rate at 4.87%. With a \$585 million federal loan at 2% interest, the total blended interest rate for the project would drop to 3.5%, he said.

Business Wire October 23, 2019



U.S. EPA to Provide \$585 Million for Climate-Resilient Huntington Beach Seawater Desalination Plant

BY BUSINESS WIRE

ARTICLE RATING: GIVE IT 1/5

OCTOBER 22, 2019 02:21 PM EDT

Poseidon Water released the following statement in response to <u>today's announcement</u> that the U.S. Environmental Protection Agency has selected the proposed Huntington Beach Desalination Project to apply for \$585 million in credit assistance under the federal government's Water Infrastructure Finance and Innovation Act (WIFIA).

"We are pleased by the U.S. EPA's acknowledgment that the Huntington Beach Desalination Project is an environmentally sound, regionally significant project that will produce clean, safe drinking water and high-quality jobs," said Poseidon Water CEO Carlos Riva. "WIFIA will make a tangible difference for Orange County, providing ratepayers with affordable water that is locally controlled and climate resilient. The program is an excellent example of how the federal government can foster Public-Private Partnerships that modernize our nation's water infrastructure."

In 2015, Poseidon Water and the Orange County Water District entered into a Water Purchase Agreement Term Sheet for the purchase of the plant's full 50 MGD capacity. The Project's WIFIA application was sponsored by the Orange County Water District, which stated, "A WIFIA financing award will help reduce the ratepayer cost of the potable water produced by the desalination Project, accelerating the Project development and ultimately provide a new, locally controlled drought-proof supply of drinking water for Southern California."

The WIFIA program accelerates investment in the nation's water infrastructure by providing long-term, low-cost supplemental loans for regionally and nationally significant projects. The benefits of the credit assistance provided by WIFIA to the Huntington Beach Project will result in a direct financial pass through to Orange

County water ratepayers, which Poseidon estimates will reduce consumer water costs by \$290 million over the life of the Project as compared to current financing options.

The WIFIA program was established by the Water Infrastructure Finance and Innovation Act of 2014, during the last term in public office for former U.S. Senator Barbara Boxer, a California environmental icon.

"When the WIFIA program was established by Congress, it passed with overwhelming bipartisan support. Everyone, regardless of party, knew it would be a great way to reduce costs to the consumer, encourage state of the art technology, create jobs, and help our country meet the challenges of climate change. The legislation created a high bar for a project to meet and the Huntington Beach Project meets every criteria," said Senator Boxer.

This year, EPA will help finance over \$6 billion in water infrastructure investments that will create up to 190,000 jobs, upgrade aging infrastructure, reduce lead exposure, and improve the lives of millions of Americans across the country. In 2018, construction of the final phase of the Orange County Water District's Groundwater Replenishment System received a WIFIA loan.

After a robust, statutorily required review process, the Huntington Beach Desalination Project was selected as one of 38 projects nationwide, representing large and small communities, who submitted letters of interest to EPA in response to the 2019 WIFIA Notice of Funding Availability (NOFA). Together, the selected borrowers will receive WIFIA loans totaling up to \$6 billion to help finance over \$12 billion in water infrastructure investments and create up to 190,000 jobs.

With EPA's WIFIA loan, the Huntington Beach Desalination Plant will provide 50 million gallons per day (56,000-acre-feet per year) of reliable, climate-resilient water to approximately 400,000 people in Orange County. The plant will be Orange County's largest single source of local supply water supply. The plant will provide a highly reliable water supply produced with state-of-the-art technology to reduce energy demands, and it will also be one of the only water infrastructure projects in the state to have a zero net carbon footprint. The Huntington Beach Desalination Project will include over 1.5 million labor hours in Orange County, supporting an estimated 3,000 jobs and infusing \$500 million into the local economy. The Huntington Beach Desalination Plant will open a new chapter in water supply reliability for the Orange County region and the state by tapping the potential of the Pacific Ocean and reducing dependence on strained resources such as the Sacramento-San Joaquin Bay-Delta. It is bolstering the region's self-reliance, and in turn, its future by meeting the needs of future generations.

About Poseidon Water

Poseidon Water is a private company that partners with public agencies to deliver water infrastructure projects. The company's primary focus is developing large-scale reverse osmosis seawater desalination plants implemented through innovative public-private partnerships in which private enterprise assumes the developmental and financial risks. For more information on Poseidon's Carlsbad Desalination Plant, visit carlsbaddesal.com and for more information on Poseidon's Huntington Beach desalination plant, visit HBfreshwater.com.

View source version on businesswire.com: https://www.businesswire.com/news/home/20191022006058/en/

Orange County Register October 23, 2019

ORANGE COUNTY REGISTER

Orange County College invests \$22 million in new training center for its maritime programs



By LOU PONSI |

PUBLISHED: October 23, 2019 at 3:35 pm |

After years of planning, a complicated land purchase and sale and necessary approvals from multiple public agencies, expansion of Orange Coast College's School of Sailing & Seamanship is finally underway.

Construction has begun on a 12,000-square-foot, \$22 million Mariners Training Center across the street from the existing harbor-front school facility in Newport Beach.

A skyway bridge over Pacific Coast Highway will connect the sailing school with the new center, which will be built above ground-level parking and will feature a radar training room, a full mission bridge simulator, state-of-the-art lab space, classrooms, a conference room and a student lounge.

The project is scheduled for completion in fall 2021. It's being paid for through the bond measure voters approved in 2012 to finance nearly \$700 million in improvements and construction in the Coast Community College District.

Brad Avery, director of the School of Sailing and Seamanship, said the program only had two classrooms at the harbor and one back on the Orange Coast College campus. "So this was about providing a new home for this program. It's going to be fantastic."

OCC's School of Sailing & Seamanship opened almost 60 years ago, offering basic boating instruction for the general population.

The program, which currently serves more than 1,500 students annually, has since expanded to include a professional program, offering certificates and associates degrees to students pursuing maritime careers.

Opportunities exist working on commercial shipping vessels, private yachts, charter boats, whale watching and dive boats, cruise ships, passenger ferries and tugboats. Many students go on to earn four-year degrees at maritime colleges.

"We're getting more calls from people looking for employees than we have students," said Sarah Hirsch, director of OCC's Community Boating program. She was recently hired to help oversee the expansion. "It's exciting down here. For us, this is an opportunity to have more classroom space right here where we already have our program."

The seamanship and sailing school had been looking to expand for several years, Avery said. When seven contiguous lots across the street went up for sale 17 years ago, he finally saw the opportunity.

But it took about 15 years for the Coast Community College District to acquire the land, he said.

The Orange County Sanitation District was looking to rebuild pump stations at the time and partnered with college district on the land acquisition.

The sanitation district bought the land, built a pump station first, which took about six years, and then sold a portion of the property to the community college district

"This is an exciting step forward for the college and the community," John Weispfenning, chancellor of the Coast Community College District, said at the recent groundbreaking ceremony. "The Mariners Training Center solidifies Orange Coast College and Newport Beach in preparing students for boating and maritime-related industries."

Nearly all of the vessels and equipment used for teaching students has been donated over the years, Avery said. That includes a 92-foot yacht, the Nordic Star, along with smaller sail boats and power boats.

"One of the provisions is that we keep bettering and expanding to match the needs of the community," Avery said. "A lot of partnerships are going on here to make this work."

Los Angeles Times October 23, 2019

Los Angeles Times

Here's what you can (and can't) do about PFAS contamination in your water



Hundreds of drinking water water utilities across California have been ordered to test for PFAS, a class of toxic chemicals linked to cancer.

(Dania Maxwell / Los Angeles Times) By ANNA M. PHILLIPSSTAFF WRITER OCT. 23, 2019 3 AM

WASHINGTON —

After The <u>Times reported last week</u> that nearly 300 drinking water wells and other water sources in California had been contaminated with toxic chemicals linked to cancer, readers wanted to know what they could do. For many, it was the first time they had read about this class of chemicals, called perfluoroalkyl and polyfluoroalkyl substances — or PFAS. We talked to industry experts, and the following are their best answers to some of the most often-asked questions we received.

Will the water filter pitcher I have in my fridge remove PFAS?

If only it were that easy. Common water pitcher brands like Brita and Pur are perfectly fine if you want to reduce bad-tasting chlorine and contaminants like heavy metals. But they weren't designed to remove PFAS or even reduce their concentration in your tap water.

NSF International, a group that tests and certifies water filtration systems, lists 77 products that can reduce PFAS to below the Environmental Protection Agency's health advisory level. Some of them function like pitchers — you fill them manually and they don't have to be installed under your sink — but they do have to be docked into a filtration system that sits on your counter and has to be plugged in. They cost about \$100-\$150.

What type of home filtration system is best?

According to the <u>Environmental Working Group</u>, or EWG, a public health advocacy organization that has called for more regulation of PFAS, the gold standard for inhouse filtration is a reverse osmosis filter, commonly called RO.

Reverse osmosis filters work by forcing water through a membrane that traps contaminants. These filters are considered the most effective, but they produce large amounts of wastewater — about three times as much water as they treat. Ranging from \$200 to \$1,800, a reverse osmosis system is typically the most expensive option and may require a professional plumber to install it under the sink.

The second best option is an activated carbon filter, which also goes under the sink. These systems are less expensive than reverse osmosis and their cartridges are often cheaper to replace.

EWG doesn't endorse any particular brand and NSF International gives you 10 different manufacturers to choose from.

There are several caveats to these recommendations.

First, the federal government does not regulate PFAS and there is no agreed-upon safe level for drinking water. Though NSF-certified filters are proven to reduce contaminant levels below the EPA guideline, there's debate among scientists and public health advocates about whether the federal government's advisory level is too high.

For example, New Hampshire has <u>the strictest PFAS standards</u> in the country, which are significantly lower than the EPA's level. Whether a home filtration system can meet these tighter standards is unclear.

Also, NSF certifies products to remove the two most common variants in the PFAS class — PFOA and PFOS — but there are thousands more. It's unknown how effective water filters are on the second generation of PFAS.

Just because you live close to a well with elevated levels of PFAS does not mean your tap water comes from that source. California has about 3,000 water providers, some of which purchase water from wholesalers that operate their own groundwater wells.

However, if your water does come from a utility with one or more contaminated wells, keep in mind that the PFAS level found in a well may not be the same as what comes out of your faucet. Some California water utilities have shut down contaminated wells, put them on "emergency-only" status or processed their water through treatment plants. Others have begun blending contaminated sources with clean ones to lower the concentration.

If you're concerned, the best course of action is to call your water provider.

Can I test my tap water for PFAS?

Yes, you can hire a certified laboratory to test your water. It's also possible to sample water yourself and send it to a laboratory, but it's quite complicated. Because these chemicals have been used in a dizzying array of consumer products, cross-contamination is a serious concern.

Michigan's Department of Environmental Quality has <u>detailed instructions</u> that warn against wearing latex gloves, water resistant clothing, or even certain kinds of lotion and sunscreen that contain the contaminants, while collecting samples. It's easy to inadvertently ruin a sample by wearing or touching something with PFAS in it.

If you're interested in testing, California drinking water officials recommend that you contact a <u>laboratory that's accredited</u> for PFAS testing. However, testing is expensive. Prices range from \$400 to \$1,000 per sample.

I get my water from a private well. Should I wait for the state to test it or do it myself?

So far, California's State Water Resources Control Board has tested about 600 water sources — a small fraction of the whole system — and it's unclear how quickly the state will move to require more. State officials have said they are prioritizing wells and other sources near areas that are known to be contaminated, such as military bases, wastewater treatment plants, municipal airports and landfills.

Unlike Michigan, which has committed to testing all of its public water providers, California has not said whether it will do the same, much less turn its attention to private drinking water wells. If you don't want to wait for the state to act, you can have a laboratory test your water.

Will my water bill go up if PFAS are found in my area?

It's possible. Although state-ordered PFAS testing is only beginning in California, already there are examples of water districts spending money to build new treatment facilities or purchasing clean water from elsewhere to replace wells that were shut down. Orange County officials have warned that if the chemicals spread throughout the groundwater basin, residents there could see their water bills rise by as much as 15%.

But because testing is ongoing, it's unclear how widespread or how expensive the cleanup effort will ultimately be. California is still trying to understand the scale of

the problem. As more testing is conducted, it seems likely that state officials will focus on the chemical companies and military branches that introduced PFAS into the environment. In the end, "who pays?" may be a question for the courts.

Efficient Gov October 23, 2019



EPA to Provide \$585 Million for Climate-Resilient Huntington Beach Seawater Desalination Plant

October 23, 2019 by Efficient Gov Staff



The assistance comes through the federal government's Water Infrastructure Finance and Innovation Act.

HUNTINGTON BEACH, Calif. — Poseidon Water released the following statement in response to yesterday's announcement that the U.S. Environmental Protection Agency has selected the proposed Huntington Beach Desalination Project to apply for \$585 million in credit assistance under the federal government's <u>Water Infrastructure Finance and Innovation Act (WIFIA)</u>.

We are pleased by the U.S. EPA's acknowledgment that the Huntington Beach Desalination Project is an environmentally sound, regionally significant project that will produce clean, safe drinking water and high-quality jobs," said Poseidon Water CEO Carlos Riva.

"WIFIA will make a tangible difference for Orange County," he continued, "providing ratepayers with affordable water that is locally controlled and <u>climate resilient</u>. The program is an excellent example of how the federal government can foster <u>Public-Private Partnerships</u> that modernize our nation's water infrastructure."

In 2015, Poseidon Water and the Orange County Water District entered into a Water Purchase Agreement Term Sheet for the purchase of the plant's full 50 MGD capacity.

The Project's WIFIA application was sponsored by the Orange County Water District, which stated, "A WIFIA financing award will help reduce the ratepayer cost of the potable water produced by the <u>desalination</u> Project, accelerating the Project development and ultimately provide a new, locally controlled drought-proof supply of drinking water for Southern California."

The WIFIA program accelerates investment in the nation's water infrastructure by providing long-term, low-cost supplemental loans for regionally and nationally significant projects. The benefits of the credit assistance provided by WIFIA to the Huntington Beach Project will result in a direct financial pass through to Orange County water ratepayers, which Poseidon estimates will reduce consumer water costs by \$290 million over the life of the Project as compared to current financing options.

The WIFIA program was established by the Water Infrastructure Finance and Innovation Act of 2014, during the last term in public office for former U.S. Senator Barbara Boxer, a California environmental icon.

. When the WIFIA program was established by Congress, it passed with overwhelming bipartisan support. Everyone, regardless of party, knew it would be a great way to reduce costs to the consumer, encourage state of the art technology, create jobs, and help our country meet the challenges of climate change. The legislation created a high bar for a project to meet and the Huntington Beach Project meets every criteria," said Senator Boxer.

This year, EPA will help finance over \$6 billion in water infrastructure investments that will create up to 190,000 jobs, upgrade aging infrastructure, <u>reduce lead exposure</u>, and improve the lives of millions of Americans across the country. In 2018, construction of the final phase of the Orange County Water District's Groundwater Replenishment System received a WIFIA loan.

After a robust, statutorily required review process, the Huntington Beach Desalination Project was selected as one of 38 projects nationwide, representing large and small communities, who submitted letters of interest to EPA in response to the 2019 WIFIA Notice of Funding Availability (NOFA).

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The plant will provide a highly reliable water supply produced with state-of-the-art technology to reduce energy demands, and it will also be one of the only water infrastructure projects in the state to have a <u>zero net carbon footprint</u>. The Huntington Beach Desalination Project will include over 1.5 million labor hours in Orange County, supporting an estimated 3,000 jobs and infusing \$500 million into the local economy.

The Huntington Beach Desalination Plant will open a new chapter in water supply reliability for the Orange County region and the state by tapping the potential of the Pacific Ocean and reducing dependence on strained resources such as the Sacramento-San Joaquin Bay-Delta. It is bolstering the region's self-reliance, and in turn, its future by meeting the needs of future generations.

American School & University October 24, 2019

American School&University



Rendering of plans for the Orange Coast College's Mariners Training Center in Newport Beach.

PLANNING & DESIGN>NEW CONSTRUCTION

California college begins construction of Mariner training center

The 12,000-square-foot, \$22 million Mariners Training Center in Newport Beach will enable Orange Coast College's School of Sailing & Seamanship to expand.

Mike Kennedy | Oct 24, 2019

After years of planning, the expansion of **Orange Coast College**'s School of Sailing & Seamanship is finally underway.

The Orange County Register reports that construction has begun on a 12,000-square-foot, \$22 million Mariners Training Center across the street from the existing harbor-front school facility in Newport Beach, Calif.

A skyway bridge over Pacific Coast Highway will connect the sailing school with the center, which will be built above ground-level parking and will feature a radar training room, a full mission bridge simulator, state-of-the-art lab space, classrooms, a conference room and a student lounge.

The project is scheduled for completion in fall 2021. It's being paid for through the bond issue that voters approved in 2012 to finance nearly \$700 million in improvements in the Coast Community College District.

Brad Avery, director of the School of Sailing and Seamanship, says the program had only two classrooms at the harbor and one on the Orange Coast College campus in Costa Mesa. "So this was about providing a new home for this program," he says. "It's going to be fantastic."

The college's School of Sailing & Seamanship opened almost 60 years ago, offering basic boating instruction for the general population.

The program, which now serves more than 1,500 students annually, has since expanded to include a professional program that offers certificates and associate degrees to students pursuing maritime careers.

Opportunities exist working on commercial shipping vessels, private yachts, charter boats, whale watching and dive boats, cruise ships, passenger ferries and tugboats. "We're getting more calls from people looking for employees than we have students," says Sarah Hirsch, director of the college's Community Boating program. "It's exciting down here. For us, this is an opportunity to have more classroom space right here where we already have our program."

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The sanitation district bought the land, built a pump station first, which took about six years, and then sold a portion of the property to the community college district

Nearly all of the vessels and equipment used for teaching students have been donated over the years, Avery says. That includes a 92-foot yacht, the Nordic Star, along with smaller sail boats and power boats.

FOX News Channel October 31, 2019



London sewer's 40-ton fatberg cleared after 3 weeks, debris removed by hand, officials say

By Stephen Sorace | Fox News

British engineers have finally cleared a massive 40-ton block of waste known as a "fatberg" from a South London sewer after spending three weeks chiseling down the clog, officials said.

Engineers with Thames Water, a private utility company serving the London area, used high-powered water jets that blast the congealed blockage loose, the company said in a news release Wednesday. Workers then removed the debris, a combination of fat, grease and other materials, by hand.

"This was a massive and disgusting blockage that took a great deal of effort and teamwork to clear and get the sewer working well again," said Matt Rimmer, Thames Water's head of waste networks.

The mammoth clog, discovered earlier this year, weighed the same as three of London's famed red double-decker buses and took up as much as 80 percent of the sewer's capacity, the news release said. If the huge blob wasn't handled, it could have grown even bigger, causing sewage to back up into homes and businesses. It could have also harmed the environment.



The blob of congealed waste weighed 40 tons, about the same as three of London's famed red buses, Thames Water said. (Thames Water)

WORK BEGINS TO REMOVE MAMMOTH 'FATBERG' UNDER BRITISH TOWN

Fatbergs are formed when grease, fat and oil are disposed of down sinks or other drains and fuse with "unflushable" items like wet wipes, diapers and cotton swabs, according to Thames Water.

"We'd urge everyone to help fight the fatherg by only flushing the 3Ps -- pee, poo and paper -- as well as disposing of fat and oils in the bin, not the sink," Rimmer said.

Several enormous fatbergs have popped up in England over the past several years.

Earlier this year, a 210-foot fatberg was removed from a popular southwestern English resort town. In 2017, an 820-foot fatberg was found in sewers beneath Whitechapel in east London.

American Academy of Environmental Engineers November 4, 2019



November 4, 2019

2019 Excellence in Environmental Engineering and Science™ Awards Competition Winners



The award recipients are listed below. Detailed information on the project categories and awards can be found at: https://www.aaees.org/e3scompetition. Click on the links below to view a full profile of each winning project.

Superior Achievement

Multipronged Collection System Odor Control Program at OCSD; Less Odors and Lower Costs

Entrant: Orange County Sanitation District **Engineer in Charge:** Jeffrey Brown, P.E., BCEE

Location: Fountain Valley, California

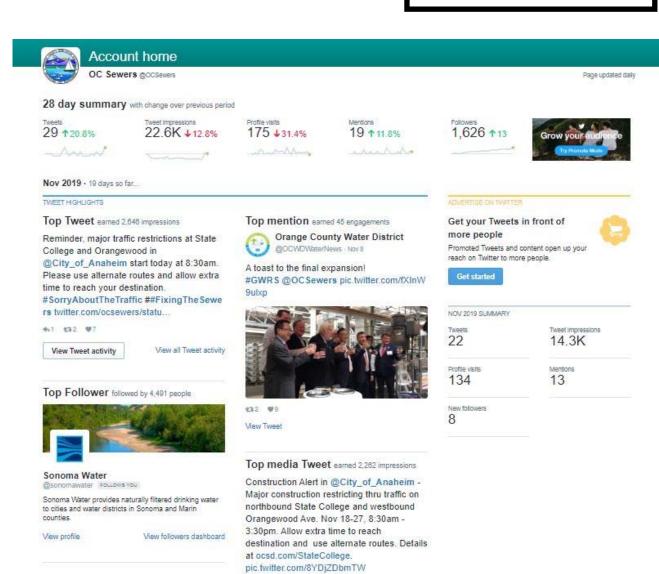
Planning

Honor Award

Wastewater Collection and Treatment Facilities Master Plan

Entrant: Orange County Sanitation District **Engineer in Charge:** Eros Yong, P.E., BCEE **Location:** Fountain Valley, California

Twitter Posts November 2019

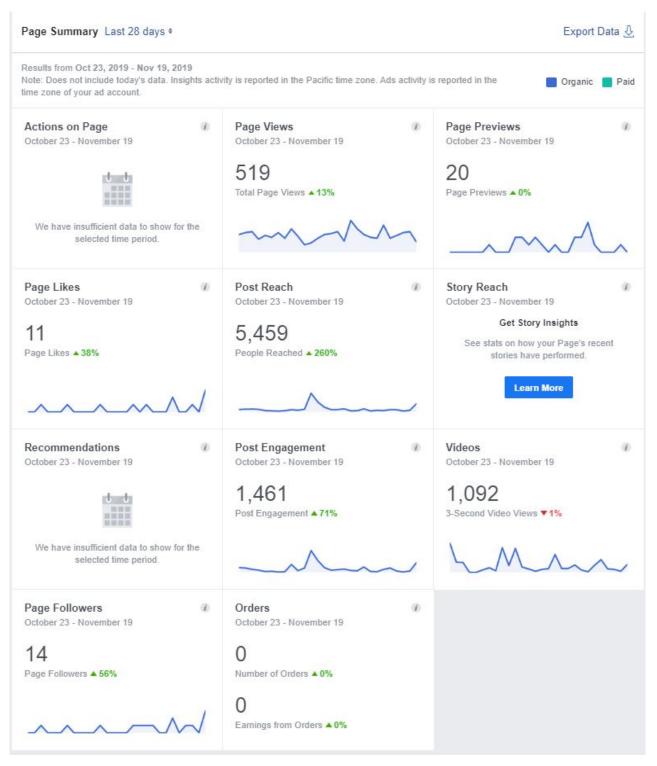


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View Tweet activity

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Facebook Posts November 2019



Published	Post	Type	Targeting	Reach	Engagement
11/20/2019 12:57 PM	Tonight at Plant No. 1 our Steering Committee and Board meeting will		0	63	0
11/19/2019 2:06 PM	Today is #WorldToiletDay! At OCSD we make it our mission to protect	B 4	0	119	5 7
11/19/2019 9:00 AM	Did you know your kitchen plumbing is generally only an inch and a half in	ē	0	828	87 28
11/18/2019 3:30 PM	Construction Alert in @cityofanaheim - tomorrow from 7	-	0	126	0
11/18/2019 7:21 AM	Reminder, major traffic restrictions at State College and Orangewood in	ō	0	132	2 5
11/16/2019 10:00 AM	Construction Alert in City of Anaheim- Municipal Government -	ē	0	369	6 14
11/15/2019 12:00 PM	Happy America Recycles Day! At OCSD every day is America	84	0	179	14
11/15/2019 0:00 AM	Happy #FlashBackFriday! Today's photo shows the construction of our	ē	0	223	18 13
11/13/2019 12:00 PM	Today is #WorldKindnessDay. What random acts of kindness have you	ō	0	98	0
11/13/2019 9:00 AM	Tonight OCSD's Administration Committee meeting starts at 5 p.m.	ē	0	148	5
11/11/2019 9:00 AM	Today we honor all who served our Country. Thank you from the Orange	ō	0	270	19 23
11/08/2019 1:08 PM	Good until the very last drop. Tastes like water because it is water.	m 4	0	264	9
11/08/2019 9:00 AM	Just a reminder that our Administrative Offices will be closed	ō	0	158	0
11/07/2019 12:20 PM	Congratulations and thank you to our 2020 Safety Contest winners who	ē	0	234	21 16
11/06/2019 0:00 AM	Join us for OCSD's Operations Committee meeting tonight at 5 p.m.	ē	0	147	5 1
11/05/2019 0:00 AM	Happy #NationalDonutDay! It's a bummer that our toilets can't eat	ē	0	208	3
11/05/2019 8:00 AM	Today is Election Day! California is holding general district elections, so		0	197	8 4

11/05/2019 8:00 AM	Today is Election Day! California is holding general district elections, so	6	0	197	8 4	Ţ
11/03/2019 12:00 PM	Don't put grease down your kitchen sink because your pipes could end		0	4K	443 122	
11/02/2019 9:55 AM	Stop by and get the coolest bag in town at our booth over at the	804	0	328	21 16	Ī
11/02/2019 9:00 AM	Don't forget to "fall back" this weekend! Daylight savings time	Б	0	264	3 12	1
11/01/2019 12:00 PM	Have anything fun planned this weekend? If not, come visit our		0	151	1 2	Ï
11/01/2019 9:00 AM	Happy November!!! 'Tis the season for peppermint mochas, cozy	Б	0	180	3	1
10/31/2019 12:00 PM	Join us on Monday, November 4 at noon for the Legislative and Public	6	0	158	3 4	I
10/31/2019 11:48 AM	OCSD got all dressed up this year for Halloween.	m 4	0	254	72 25	Ē
10/31/2019 9:00 AM	Happy Halloween from the Orange County Sanitation District!	6	0	179	6 13	ĵ
10/30/2019 7:44 PM	From Night to Daystarting tomorrow construction on State		0	227	5 6	1
10/26/2019 3:10 PM	Pills should not be flushed down the toilet. Learn what to flush and how to	6	0	422	17 23	1
10/25/2019 10:47 AM	Making all the right moves for 65 years. #StateOfTheDistrict	84	0	481	21 28	
10/24/2019 8:45 AM	Here at OCSD we're fond of the good ol' days. Meet the Buffalo Pipe,	6	0	303	25 20	1
10/23/2019 1:50 PM	Imagine dinosaurs destroyed our treatment plants. Imagine if we	m 4	0	400	37 20	1
10/23/2019 9:20 AM	Tonight at Plant No. 1 our Steering Committee and Board meeting will	6	0	180	11 4	Ĭ
10/21/2019 12:31 PM	Here's the Monday pick me up you didn't know you needed. Another tip	m 4	0	186	13 6	1
10/18/2019 9:00 AM	#FlashbackFriday to yesterday when our #OCSDleadership had	804	0	161	27 6	
10/17/2019 11:30 AM		884	0	142	9 5	1

Instagram Posts November 2019



OCSEWERS Edit Profile 🔘

272 posts 714 followers

64 following

OC Sanitation District

The OC Sanitation District provides wastewater collection, treatment, and recycling for approx 2.6 million people in central & north Orange County. www.ocsd.com

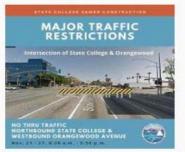


⊕ IGTV

□ SAVED

(i) TAGGED



























Orange County Sanitation District

Administration Building 10844 Ellis Avenue Fountain Valley, CA 92708 (714) 593-7433

LEGISLATIVE AND PUBLIC AFFAIRS COMMITTEE

Agenda Report

File #: 2019-837 Agenda Date: 12/18/2019 Agenda Item No: 16.

FROM: James D. Herberg, General Manager

SUBJECT:

LEGISLATIVE AFFAIRS UPDATE FOR THE MONTH OF NOVEMBER 2019

GENERAL MANAGER'S RECOMMENDATION

RECOMMENDATION:

Receive and file the Legislative Affairs Update for the month of November 2019.

BACKGROUND

The Orange County Sanitation District's (Sanitation District) legislative affairs program includes advocating the Sanitation District's legislative interests, sponsoring legislation (where appropriate), and seeking Local, State, and Federal funding for projects and programs. Staff will provide an update on recent legislative and grant activities.

RELEVANT STANDARDS

- Maintain influential legislative advocacy and a public outreach program
- Build brand, trust, and support with policy makers and community leaders
- Maintain collaborative and cooperative relationships with regulators, stakeholders, and neighboring communities

PROBLEM

Without a strong advocacy program, elected officials may not be aware that the Sanitation District is more than a wastewater treatment plant - treating and sending water to the ocean.

The Sanitation District is an environmentally engaged organization which recycles more than 50 percent of its wastewater. Additionally, to help meet the goal of 100 percent recycling, the Sanitation District uses the byproducts from the wastewater treatment process to produce biosolids to fertilize crops and energy used to help power the two plants in Fountain Valley and Huntington Beach.

PROPOSED SOLUTION

Continue to work with Local, State, and Federal officials to advocate the Sanitation District's legislative interests. Help to create/monitor legislation and grants that would benefit the Sanitation

File #: 2019-837 Agenda Date: 12/18/2019 Agenda Item No: 16.

District, the wastewater industry, and the community as a whole. To assist in our relationship building activities, we will continue to reach out to our elected officials providing facility tours, one-on-one meetings, and trips to D.C. and Sacramento.

TIMING CONCERNS

N/A

RAMIFICATIONS OF NOT TAKING ACTION

If we do not work with Local, State, and Federal elected officials, legislation could be passed that negatively affects the Sanitation District and the wastewater industry as a whole. Additionally, this could affect our chances of receiving grant funding.

ADDITIONAL INFORMATION

The Sanitation District is applying for a grant through CalRecycle's Organics Grant Program for the Food-Waste Co-Digestion facility at Plant No. 2 in Huntington Beach. The amount the Sanitation District would be eligible to receive is up to \$3 million. The grant application is due December 5.

On Thursday, November 21, the Sanitation District signed onto the California Association of Sanitation Agencies' (CASA) coalition letter supporting Congressman Alan Lowenthal (CA-47) and Senator Tom Udall's (D-N.M.) legislation to address the plastic waste crisis. As supported in the Sanitation District's Legislative Platform, the proposal sets requirements for labeling non-flushable wet wipe products and sets parameters for which wipes can be labeled as "flushable" or "sewer and septic safe."

Additionally, the draft language includes provisions that would require wipes manufacturers to include statements about wet wipes containing plastic content.

FINANCIAL CONSIDERATIONS

N/A

ATTACHMENT

The following attachment(s) are included in hard copy and may also be viewed on-line at the OCSD website (www.ocsd.com) with the complete agenda package:

- Federal Update ENS Resources
- Federal Legislative Matrix ENS Resources
- State Update Townsend Public Affairs
- State Legislative Matrix Townsend Public Affairs
- Grant Matrix
- CASA Coalition Wipes Support Letter
- PowerPoint Presentation ENS Resources 12/09/2019 LaPA Committee
- PowerPoint Presentation Townsend Public Affairs 12/09/2019 LaPA Committee



MEMORANDUM

TO: Rebecca Long

FROM: Eric Sapirstein

DATE: November 18, 2019

SUBJECT: Washington Update

Congress and the White House continue to discuss a path forward on finalizing fiscal year 2020 spending bills, to avoid a governmental shutdown on November 21 when the stopgap spending bill expires. An apparent agreement has been reached that would extend governmental operations through December 20, providing House and Senate leadership about three weeks to strike a compromise with the White House to finalize a spending blueprint for all federal agencies for the remaining nine months of the fiscal year. In addition to the focus on spending decisions, congressional leaders made incremental progress on water infrastructure policymaking and are working to break the gridlock on Per- and polyfluoroalkyl substances (PFAS/PFOA) cleanup mandates as part of the National Defense Authorization Act. The following summarizes these and other matters of interest.

Finalizing Fiscal Year 2020 Spending Decisions Likely to Extend into December

Earlier in the month, the Senate approved the first of several "minibus" spending packages. The Senate passed the Interior and Environment Appropriations bill (H.R. 3055) by 84-9. The bill funds the U.S. Environmental Protection Agency (USEPA) as well as the Department of the Interior. The action puts the minibus in a position to be conferenced with the House-passed version of the bill. However, this effort is now likely to be rolled into a massive omnibus spending agreement.

Regardless of the overall effort to strike a deal that includes funding of the border wall project, funding of water infrastructure programs like the State Revolving Loan (SRF) Program and Water Infrastructure Finance and Innovative Act (WIFIA) are expected to be near record levels with the SRF funded at almost \$1.8 for clean water projects. In addition, USEPA's budget is likely to contain funding for the agency to continue studies into PFAS chemicals and how best to regulate these chemicals to protect human health and clean up contaminated groundwater basins. However, as detailed below, efforts to include provisions mandating liability for PFAS contamination under Superfund is unlikely this year.

The Energy and Water Development Appropriations bill (H.R 2740), that provides funding for water recycling projects and related studies, is wrapped into a second "minibus" that is awaiting consideration by the Senate. Along with the Energy and Water Development bill, the second "minibus" also includes the Defense of Department and Homeland Security budgets, and this has stymied progress, because these spending bills would include funding for the border wall project. Nonetheless, it appears increasingly likely that an agreement to provide funding, with a prohibition on the transfer of defense program funding, to increase construction assistance will be fashioned to allow for Senate passage of the "minibus" as part of the overall spending bill that we anticipate in late December. Failing an agreement, it becomes more likely that Congress would settle upon a third and final stopgap spending bill, carrying fiscal year 2019 spending levels into the remaining months of fiscal year 2020. In a worst-case scenario, water recycling funding assistance would remain at approximately \$30 million instead of about \$60 million as contemplated in the proposed fiscal year 2020 spending measures.

House and Senate Committees Remain At Loggerheads on PFAS Issues

The House and Senate Conference Committee that is working to finalize the National Defense Authorization Act (NDAA—H.R. 2500/S. 1790) remain at an impasse as to how to legislate cleanups of groundwater PFAS contamination. As noted in last month's update, the House position is unyielding in its demands to designate PFAS as a hazardous substance under Superfund. The Senate opposes this position, because of concerns that such designation could impose substantial liability on water agencies that simply are delivering water that might contain PFAS. Under Superfund, for example, an agency that conveys contaminated water or disposes of biosolids containing PFAS could be named as a responsible party, triggering legal actions for cleanup contributions. The Senate NDAA version provides for USEPA to develop monitoring and treatment standards under the Safe Drinking Water Act, sidestepping the liability debate.

The intractable nature of the PFAS debate between the House and Senate conference committee members, coupled with a White House veto threat of the House-approved PFAS language in its version of the NDAA, has caused Senator Jim Inhofe (R-OK), who is serving as the conference committee chair, to call for passage of a scaled back NDAA. His approach does not include any PFAS language.

Should this occur, any effort to address PFAS cleanup needs would fall to USEPA to issue its findings on the nature and extent of the PFAS threats and then detail its plans and timetable to regulate the monitoring, treatment and disposal of PFAS contaminants. If this is the outcome, we expect that the PFAS issue and Superfund liabilities will resurface next year. Assuming this occurs, speculation exists that congressional proponents of PFAS Superfund liability would seek to attach PFAS liability provisions to a Water Resources Development Act of 2020.

Clean Water State Revolving Fund Infrastructure Bill Advances in House

The House Committee on Transportation & Infrastructure approved, on a bipartisan basis, the Water Quality Protection and Job Creation Act of 2019 (H.R. 1497). The bill is notable as it is the first substantive step to address clean water and water recycling infrastructure needs. It also provides for a prescriptive approach to secure National Pollutant Discharge Elimination System (NPDES) permits for periods of up to ten years but would eliminate administrative extensions for five-year permits. In the absence of extensions, a state either completes a renewal in a timely manner or it would lose the authority to renew the permit in question and USEPA would assume responsibility. If this were to occur, the permittee would be held harmless during such an event so that it would not be in violation of operating without an NPDES permit. As noted in our prior update, the Senate is unlikely to adopt similar language to eliminate the authority of a state to issue an administrative extension of a five-year permit.

Under the measure, the Clean Water SRF would be authorized at \$14 billion over five years, grants to agencies to construct water recycling projects would be authorized at \$150 million and a series of setaside spending mandates would be provided to support workforce training, green infrastructure and enhanced subsidies for disadvantaged communities to construct water infrastructure.

House floor debate and votes on H.R. 1497 could occur in December, but more likely early next year. The Senate Committee on Environment and Public Works has indicated that any water infrastructure policymaking will not occur outside of its consideration of a Water Resources Development Act of 2020. The committee hopes to begin formal consideration of such a bill in February, but this could be delayed by other Senate business.

Administrative-Related Activities

A handful of notable non-legislative matters occurred over the past month. First, the Administration, acting through USEPA, formally repealed the contentious Waters of the U.S. (WOTUS) rule that the Obama Administration issued. This action means that the application of Clean Water Act mandates returns to the 1990's standard where defining which waters are subject to regulation is made on a case-by-case basis.

OCSD should not experience any adverse impacts, since the existing regulatory exemption for wastewater agencies being subjected additional mandates remains in place. USEPA is expected to issue a new WOTUS rule within the next few months. It is not expected to adversely impact OCSD regulatory compliance activities.

The U.S. Supreme Court also heard oral arguments over a Maui, HI decision that the disposal approach of discharging treated wastewaters through land application that

migrates through groundwater into surface waters is subject to securing an NPDES permit. The court heard arguments from Maui (friend of the court filings, including CASA) that the Clean Water Act reserves such authority to the states and that if the federal government wishes to impose management of groundwater, it cannot be through an NPDES program given the fact that this program is reserved for "point source discharges". While it is never a certainty on how the Court might rule, it seems that a decision to ensure that groundwater regulation remains a state primacy will prevail given the arguments before the Court's Justices.

BILL	AUTHOR	SUMMARY	LATEST ACTION	OCSD POSITION	OTHER POSITIONS				
	Federal Legislation 2019 - 2020								
		Priority							
H.R. 1162	Rep. Grace Napolitano (D-CA)	Water Recycling Investment and Improvement Act. Establishes a grant program for the funding of water recycling and reuse projects, and for other purposes.	House - 6/13/19 Subcommittees Hearings held	Watch	CASA SUPPORTS				
H.R. 1497	Rep. Peter DeFazio (D-OR)	Water Quality Protection and Job Creation Act of 2019. Provides nearly \$23.5 billion in direct infrastructure investment over the next five years to address wastewater infrastructure and local water quality challenges. This bill allocates \$20 billion in grants for the Clean Water State Revolving Fund.	House - 10/29/19 Ordered to be Reported Out as amended by voice vote	Watch	CASA SUPPORTS				
H.R. 535	Rep. Debbie Dingell (D-MI)	PFAS Action Act of 2019. To require the Administrator of the Environmental Protection Agency to shall designate per- and polyfluoroalkyl substances as hazardous substances under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980.	House - 9/26/19 Forwarded to Full Committee by voice vote	Watch	NYC				
H.R. 876	Rep. Peter DeFazio (D-OR)	Pacific Northwest Earthquake Preparedness Act of 2019. Requires the FEMA to develop a plan for the purchase and installation of an earthquake early warning system for the Cascadia Subduction Zone. The term "Cascadia Subduction Zone".	House - 2/6/19 Passed House by voice vote, received in Senate and referred to Committee on Homeland Security and Governmental Affairs	Watch	NYC				
H.R. 667	Rep. Jaime Herrera Beutler (R-WA)	Regulatory Certainty for Navigable Waters Act. Repeals the Waters of the United States rule and amend the Federal Water Pollution Control Act definition of navigable waters, and for other purposes.	House - 2/7/19 Referred to Subcommittee on Water Resources and Environment	Watch	NYC				

BILL	AUTHOR	SUMMARY	LATEST ACTION	OCSD POSITION	OTHER POSITIONS
S. 403	Sen. Sheldon Whitehouse (D-RI)	A bill to encourage the research and use of innovative materials and associated techniques in the construction and preservation of the domestic transportation and water infrastructure system, and for other purposes.	Senate - 2/7/19 Referred to Committee on Environment and Public Works	Watch	NYC
H.R. 977	Rep. Brian Mast (R-FL)	To require the Corps of Engineers to notify affected communities before releasing water contaminated with cyanobacteria from flood risk management projects, and for other purposes.	House - 2/7/19 Referred to Subcommittee on Water Resources and Environment	Watch	NYC
H.R. 892	Rep. Duncan Hunter (R-CA)	To amend the Federal Water Pollution Control Act to limit attorney fees and penalties in citizen suits, and for other purposes.	House - 2/7/19 Referred to Subcommittee on Water Resources and Environment	Watch	NYC
H.R. 358	Rep. Juan Vargas (D-CA)	California New River Restoration Act of 2019. Requires the USEPA to establish a California New River restoration program for the New River. USEPA must (1) implement projects, plans, and initiatives for the New River supported by the California-Mexico Border Relations Council; and (2) provide grants and technical assistance for coordinating restoration and protection activities.	House - 2/7/19 Referred to Subcommittee on Water Resources and Environment	Watch	NYC
S. 376	Sen. Rand Paul (R-KY)	Defense Environment and Property Act of 2019. A bill to amend the Federal Water Pollution Control Act to clarify the definition of navigable waters, and for other purposes.	Senate - 2/7/19 Referred to Committee on Environment and Public Works	Watch	NYC

BILL	AUTHOR	SUMMARY	LATEST ACTION	OCSD POSITION	OTHER POSITIONS
H.R. 658	Rep. Rosa DeLauro	National Infrastructure Development Bank Act. Facilitates efficient investments and financing of infrastructure projects and new job creation through the establishment of a National Infrastructure Development Bank, and for other purposes.	House - 2/7/19 Referred to Subcommittee on Economic Development, Public Buildings, and Emergency Management	Watch	NYC
H.R. 1137	Rep. John Garamendi (D-CA)	To amend the Water Resources Development Act of 1986 to repeal the authority relating to reprogramming during national emergencies.	House - 2/12/19 Referred to the Subcommittee on Water Resources and Environment	Watch	NYC
H.R. 1317	Rep. Harley Rouda (D-CA)	Coastal Communities Adaption Act. Improves the resilience of the built and natural environment to natural disasters and climate change using, among other measures, natural and nature-based features, and for other purposes.	House - 3/619 Referred to Subcommittee on Water Resources and Environment	Watch	NYC
S. 638	Sen. Tom Carper (D-DE)	PFAS Action Act. A bill to require the Administrator of the Environmental Protection Agency to designate per- and polyfluoroalkyl substances as hazardous substances under the Comprehensive Environmental Response, Compensation, Liability Act of 1980, and for other purposes.	Senate - 2/28/19 Referred to Committee on Environment and Public Works	Watch	NYC
S. 611	Sen. Bernie Sanders (I-VT)	Water Affordability, Transparency, Equity, and Reliability Act of 2019. A bill to provide adequate funding for water and sewer infrastructure, and for other purposes.	Senate - 2/28/19 Referred to Committee on Environment and Public Works	Watch	NYC
H.R. 1331	Rep. Angie Craig (D-MN)	Local Water Protection Act. To amend the Federal Water Pollution Control Act to reauthorize certain programs relating to nonpoint source management, and for other purposes.	House - 4/9/19 Passed House 329-56. Received in Senate, referred to Committee on Environment and Public Works	Watch	NYC

BILL	AUTHOR	SUMMARY	LATEST ACTION	OCSD POSITION	OTHER POSITIONS
H.R. 1764	Rep. John Garamendi (D-CA)	To amend the Federal Water Pollution Control Act with respect to permitting terms, and for other purposes.	House - 3/15/19 Referred to Subcommittee on Water Resources and Environment	Watch	CASA, NACWA, ACWA - SUPPORTS
S. 950	Sen. Debbie Stabenow (D-MI)	PFAS Detection Act of 2019. Requires the Director of the United States Geological Survey to perform a nationwide survey of perfluorinated compounds, and for other purposes.	Senate - 3/28/19 Referred to Committee on Environment and Public Works	Watch	NYC
S. 933	Sen. Sheldon Whitehouse (D-RI)	BLUE GLOBE Act. Improves data collection and monitoring of the Great Lakes, oceans, bays, estuaries, and coasts, and for other purposes.	Senate - 3/28/19 Referred to Committee on Commerce, Science, and Transportation	Watch	NYC
S. 914	Sen. Roger Wicker (R-MS)	Coordinated Ocean Observations and Research Act of 2019. Reauthorizes the Integrated Coastal and Ocean Observation System Act of 2009, to clarify the authority of the Administrator of the National Oceanic and Atmospheric Administration with respect to post-storm assessments, and to require the establishment of a National Water Center, and for other purposes.	Senate - 4/3/19 Referred to Committee on Commerce, Science, and Transportation	Watch	NYC
H.R. 2019	Rep. Jerry McNerney (D-CA)	Smart Energy and Water Efficiency Act of 2019. Provides for a smart water resource management pilot program.	House - 4/9/19 Referred to Committee on Science, Space, and Technology	Watch	NYC
H.R. 1904	Rep. Raul Grijalva (D-CA)	Indian Water Rights Settlement Extension Act. Amends the Omnibus Public Land Management Act of 2009 to make the Reclamation Water Settlements Fund permanent.	House - 4/4/19 Committee on Natural Resources Hearings Held	Watch	NYC
H.R. 2205	Rep. David McKinley (R-WV)	Water Quality Certification Improvement Act of 2019. Amends the Federal Water Pollution Control Act to make changes with respect to water quality certification, and for other purposes.	House - 4/11/19 Referred to Subcommittee on Water Resources and Environment	Watch	NYC

BILL	AUTHOR	SUMMARY	LATEST ACTION	OCSD POSITION	OTHER POSITIONS
H.R. 2189	Rep. Dutch Ruppersberger (D-MD)	Digital Coast Act. Requires the Secretary of Commerce, acting through the Administrator of the National Oceanic and Atmospheric Administration, to establish a constituent-driven program to provide a digital information platform capable of efficiently integrating coastal data with decision-support tools, training, and best practices and to support collection of priority coastal geospatial data to inform and improve local, State, regional, and Federal capacities to manage the coastal region, and for other purposes.	House - 9/18/19 Reported out of Committee on Transportation and Infrastructure as amended by unanimous consent	Watch	NYC
S. 1069	Sen Tammy Raldwin (D-WI)	A bill to require the Secretary of Commerce, acting through the Administrator of the National Oceanic and Atmospheric Administration, to establish a constituent-driven program to provide a digital information platform capable of efficiently integrating coastal data with decision-support tools, training, and best practices and to support collection of priority coastal geospatial data to inform and improve local, State, regional, and Federal capacities to manage the coastal region, and for other purposes.	Senate - 11/13/19 Ordered to be Reported out of Committee on Commerce, Science, and Transportation favorably	Watch	NYC
S. 1087	Sen. John Barrasso (R-WY)	A bill to amend the Federal Water Pollution Control Act to make changes with respect to water quality certification, and for other purposes.	Senate - 4/9/19 Referred to Committee on Environment and Public Works	Watch	NYC
H.R. 2473	Rep. Josh Harder (D-CA)	S.A.V.E. Water Resources Act. Promotes water supply reliability and improved water management for rural communities, the State of California, and the Nation, and for other purposes.	House - 6/13/19 Subcommittees Hearings held	Watch	NYC
S. 1251	Sen. Jeanne Shaheen (D-NH)	Safe Drinking Water Assistance Act of 2019. Improves and coordinate interagency Federal actions and provide assistance to States for responding to public health challenges posed by emerging contaminants, and for other purposes.	Senate - 4/30/19 Referred to Committee on Environment and Public Works	Watch	NYC
H.R. 2458		WISE Act. Amends the Federal Water Pollution Control Act to require a certain percentage of funds appropriated for revolving fund capitalization grants be used for green projects, and for other purposes.	House - 5/1/19 Referred to Subcomittee of Water Resrources and Environment	Watch	NYC

BILL	AUTHOR	SUMMARY	LATEST ACTION	OCSD POSITION	OTHER POSITIONS
H.R. 2377	Rep. Brendan Boyle (D-PA)	Protect Drinking Water from PFAS Act of 2019. Requires the Environmental Protection Agency (EPA) to address the level of perfluoroalkyl and polyfluoroalkyl substances (PFAS) in drinking water. Specifically, the EPA must publish a maximum contaminant level goal and promulgate a national primary drinking water regulation for total PFAS. PFAS are man-made chemicals that may lead to adverse human health effects.	House - 9/26/19 Forwarded to Full Committee by voice vote	Watch	NYC
H.R. 2533	Rep. Frank Pallone (D-NJ)	Providing Financial Assistance for Safe Drinking Water Act. To assist community water systems affected by PFAS contamination, and for other purposes.	House - 9/26/19 Forwarded to Full Committee by voice vote	Watch	NYC
H.R. 2566	Rep. Darren Soto (D-FL)	To require the Administrator of the Environmental Protection Agency to revise the Safer Choice Standard to provide for a Safer Choice label for pots, pans, and cooking utensils that do not contain PFAS, and for other purposes.	House - 9/26/19 Forwarded to Full Committee by voice vote	Watch	NYC
H.R. 2577	Rep. Antonio Delgado (D-NY)	PFAS Right-To-Know Act. Amends the Emergency Planning and Community Right-To-Know Act of 1986 to include per- and polyfluoroalkyl substances on the Toxics Release Inventory, and for other purposes.	House - 9/26/19 Forwarded to Full Committee by voice vote	Watch	NYC
S. 1372	Sen. Debbie Stabenow (D-MI)	A bill to encourage Federal agencies to expeditiously enter into or amend cooperative agreements with States for removal and remedial actions to address PFAS contamination in drinking, surface, and ground water and land surface and subsurface strata, and for other purposes.	Senate - 5/8/19 Referred to Committee on Environment and Public Works	Watch	NYC
H.R. 2740	Rep. Rosa De Lauro (D-CT)	Labor, Health and Human Services, Education, Defense, State, Foreign Operations, and Energy and Water Development Appropriations Act, 2020. Making appropriations for energy and water development and related agencies for the fiscal year ending September 30, 2020, and for other purposes.	House - 6/19/19 Passed House 226-203	Watch	NYC

BILL	AUTHOR	SUMMARY	LATEST ACTION	OCSD POSITION	OTHER POSITIONS
H.R. 3055	Rep. Jose Serrano (D-NY)	Commerce, Justice, Science, Agriculture, Rural Development, Food and Drug Administration, Military Construction, Veterans Affairs, Transportation, and House and Urban Development Appropriations Act, 2020. Making appropriations for the Department of the Interior, environment, and related agencies for the fiscal year ending September 30, 2020, and for other purposes.	House - 6/25/19 Pased House 227-194. 11/4/19 - Passed Senate 84-9.	Watch	NYC
H.R. 2705	Rep. Earl Blumenauer (D-OR)	Water Infrastructure Trust Fund Act of 2019. To establish a Water Infrastructure Trust Fund, and for other purposes.	House - 5/15/19 Referred to Subcommittee on Water Resources and Environment	Watch	NYC
H.R. 2755	Rep. Brendan Boyle (D-PA)	Buy America 2.0 Act. To standardize and extend certain Buy America Provisions.	House - 5/16/19 Referred to Subcommittee on Aviation	Watch	NYC
S. 1473	Sen. Kristen Gillibrand (D-NY)	Protect Drinking Water from PFAS Act of 2019. A bill to amend the Safe Drinking Water Act to require the Administrator of the Environmental Protection Agency to set maximum contaminant levels for certain chemicals, and for other purposes.	House - 5/15/19 Referred to Committee on Environment and Public Works	Watch	NYC
S. 1535	Sen. Mark Warner (D-VA)	Reinventing Economic Partnerships and Infrastructure Redevelopment Act. A bill to facilitate efficient investments and financing of infrastructure projects and new, long-term job creation through the establishment of an Infrastructure Financing Authority, and for other purposes.	Senate - 5/16/19 Referred to Committee on Finance	Watch	NYC
H.R. 2776	Rep. Lori Trahan (D-MA)	Stop Sewage Overflow Act. To make certain municipalities eligible for grants under the Federal Water Pollution Control Act, and for other purposes.	House - 5/16/19 Referred to Subcommittee on Water Resources and Environment	Watch	NYC

BILL	AUTHOR	SUMMARY	LATEST ACTION	OCSD POSITION	OTHER POSITIONS
H.R. 2800	Rep. Elissa Slotkin (D-MI)	PFAS Monitoring Act of 2019. To amend the Safe Drinking Water Act to require continued and expanded monitoring of perfluoroalkyl and polyfluoroalkyl substances in drinking water, and for other purposes.	House - 5/16/19 Referred to Committee on Energy and Commerce	Watch	NYC
S. 1507	Sen. Shelley Moore Capito (D-WV)	A bill to include certain perfluoroalkyl and polyfluoroalkyl substances in the toxics release inventory, and for other purposes.	Senate - 6/27/19 Passed as an amendment to National Defense Authorization Act (S. 1790)	Watch	NYC
S. 1613	Sen. Ed Markey (D-MA)	Contaminant and Lead Electronic Accounting and Reporting Requirements for (CLEARR) Drinking Water Act of 2019. Amends the Safe Drinking Water Act to update and modernize the reporting requirements for contaminants, including lead, in drinking water, and for other purposes.	Senate - 5/22/19 Referred to Committee on Environment and Public Works	Watch	NYC
S. 1570	Sen. James Risch (R-ID)	Aquifer Recharge Flexibility Act. Provides flexibility to allow greater aquifer recharge, and for other purposes.	Senate - 7/18/19 Subcommittee Hearings Held	Watch	NYC
H.R. 2871	Rep. Russ Fulcher (R-ID)	Aquifer Recharge Flexibility Act. Provides flexibility to allow greater aquifer recharge, and for other purposes.	House - 6/10/19 Referred to Subcommittee on Water Resources and Environment	Watch	NYC
S. 1604	Sen. Amy Klobuchar (D-MN)	Local Water Protection Act. Amends the Federal Water Pollution Control Act to reauthorize certain programs relating to nonpoint source management, and for other purposes.	Senate - 5/22/19 Referred to Committee on Environment and Public Works	Watch	NYC

BILL	AUTHOR	SUMMARY	LATEST ACTION	OCSD POSITION	OTHER POSITIONS
S. 1730	Sen. Kamala Harris (D-CA)	Living Shorelines Act of 2019. Directs the Administrator of the National Oceanic and Atmospheric Administration to make grants to State and local governments and nongovernmental organizations for purposes of carrying out climate-resilient living shoreline projects that protect coastal communities by supporting ecosystem functions and habitats with the use of natural materials and systems, and for other purposes.	Senate - 6/5/19 Referred to Committee on Commerce, Science and Transportation	Watch	NYC
H.R. 3226	Rep. Andy Kim (D-NJ)	Safe Water for Military Families Act. Directs the Secretary of Defense to prohibit the use of firefighting foam containing perfuoroalkyl or polyfluoroalkyl substances, and for other purposes.	House - 6/12/19 Referred to Committee on Armed Services	Watch	NYC
S. 1837	Sen. Kristen Gillibrand (D-NY)	PIPE Act. A bill to require the Administrator of the Environmental Protection Agency to establish a discretionary grant program for drinking water and wastewater infrastructure projects, and for other purposes.	Senate - 6/13/19 Referred to Committee on Environment and Public Works	Watch	NYC
H.R. 3254	Rep. Antonio Delgado (D-NY)	PIPE Act. To require the Administrator of the Environmental Protection Agency to establish a discretionary grant program for drinking water and wastewater infrastructure projects, and for other purposes.	House - 6/14/19 Referred to Subcommittee on Water Resources and Environment	Watch	NYC

BILL	AUTHOR	SUMMARY	LATEST ACTION	OCSD POSITION	OTHER POSITIONS
H.R. 3521	Rep. Greg Stanton (D-AZ)	Wastewater Infrastructure Workforce Investment Act. To amend the Federal Water Pollution Control Act with respect to wastewater infrastructure workforce development, and for other purposes.	House - 6/27/19 Referred to the Subcommittee on Water Resources and Environment	Watch	NYC
H.R. 3541	Rep. Salud Carbajal (D-CA)	Coastal State Climate Preparedness Act of 2019. To amend the Coastal Zone Management Act of 1972 to require the Secretary of Commerce to establish a coastal climate change adaptation preparedness and response program, and for other purposes.	House - 11/15/19 Placed on Union Calendar	Watch	NYC
S. 2086	Sen. Tammy Duckworth (D-IL)	National Opportunity for Lead Exposure Accountability and Deterrence Act of 2019. To amend the Safe Drinking Water Act to improve transparency under the national primary drinking water regulations for lead and copper, and for other purposes.	Senate - 7/11/19 Referred to Committee on Environment and Public Works	Watch	NYC
S. 1932	Sen. Cory Gardner (R-CO)	Drought Resiliency and Water Supply Infrastructure Act. To support water infrastructure in Reclamation States, and for other purposes.	Senate - 7/18/19 Subcommittee Hearings Held	Watch	CASA, NACWA, NWRA, ACWA - SUPPORTS
H.R. 3115	Rep. Frank Pallone (D-NJ)	Living Shorelines Act of 2019. To direct the Administrator of the National Oceanic and Atmospheric Administration to make grants to State and local governments and nongovernmental organizations for purposes of carrying out climate-resilient living shoreline projects that protect coastal communities by supporting ecosystem functions and habitats with the use of natural materials and systems, and for other purposes.	House -9/25/19 Ordered to be Reported Out as amended by voice vote	Watch	NYC

OCSD Federal Bills of Interest

BILL	AUTHOR	SUMMARY	LATEST ACTION	OCSD POSITION	OTHER POSITIONS
H.R. 3510	Rep. Josh Harder (D-CA)	Water Resources Research Amendments Act. To amend the Water Resources Research Act of 1984 to reauthorize grants for and require applied water supply research regarding the water resources research and technology institutes established under that Act.	House - 7/25/19 Subcommittee on Water, Oceans, and Wildlife held	Watch	NYC
H.R. 3723	Rep. Mike Levin (D-CA)	Desalination Development Act. To promote desalination project development and drought resilience, and for other purposes. Windlife Herd House - 7/25/19 Subcommittee on Water, Oceans, and Wildlife hearing held		Watch	NYC
H.R. 3677	Rep. Dan Kildee (D-MI)	National Opportunity for Lead Exposure Accountability and Deterrence Act of 2017. To amend the Safe Drinking Water Act to improve transparency under the national primary drinking water regulations for lead and copper, and for other purposes.	House - 7/10/19 Referred to Committee on Energy and Commerce	Watch	NYC
H.R. 3919	Rep. Seth Moulton (D-MA)	Creating Opportunity And Sustainability Through Science Act. To require research in coastal sustainability and resilience, to ensure that the Federal Government continues to implement and advance coastal resiliency efforts, and for other purposes.	House - 8/7/19 Referred to Subcommittee on Water, Oceans, and Wildlife	Watch	NYC
S. 2236	Sen. Cory Booker (D-NJ)	Environmental Justice Act of 2019. To require Federal agencies to address environmental justice, to require consideration of cumulative impacts in certain permitting decisions, and for other purposes.	Senate - 7/23/19 Referred to Committee and Public Works	Watch	NYC
H.R. 4033	Rep. Dan Kildee (D-MI)	Water Justice Act. To provide supplemental appropriations for safe and secure water, and for other purposes.	House - 9/4/19 Referred to Subcommittee on Commodity Exchanges, Energy, and Credit	Watch	NYC

BILL	AUTHOR	SUMMARY	LATEST ACTION	OCSD POSITION	OTHER POSITIONS
H.R. 3944	Rep. Kevin Hern (R-OK)	To amend the Water Resources Reform and Development Act of 2014 to modify the procedure for communicating certain emergency risks, and for other purposes.	House - 7/25/19 Referred to Subcommittee on Water Resources and Environment	Watch	NYC
H.R. 3923	Rep. Raul Ruiz (D-CA)	Environmental Justice Act of 2019. To require Federal agencies to address environmental justice, to require consideration of cumulative impacts in certain permitting decisions, and for other purposes.	House - 8/15/19 Referred to Subcommittee on the Constitution, Civil Rights, and Civil Liberties	Watch	NYC
S. 2456	Sen. Tom Udall (D-NM)	Clean Water Through Green Infrastructure Act. To establish centers of excellence for innovative stormwater control infrastructure, and for other purposes.	Senate - 9/10/19 Referred to Committee on Environment and Public Works	Watch	NYC
H.R. 4266	Rep. Denny Heck (D-WA)	Clean Water Through Green Infrastructure Act. To establish centers of excellence for innovative stormwater control infrastructure, and for other purposes.	House - 9/11/19 Referred to Subcommittee on Water Resources and Environment	Watch	NYC
S. 2466	Sen. Kamala Harris (D-CA)	Water Justice Act. To provide supplemental appropriations for safe and secure water, and for other purposes.	Senate - 9/11/19 Referred to Committee on Environment and Public Works	Watch	NYC

BILL	AUTHOR	SUMMARY	LATEST ACTION	OCSD POSITION	OTHER POSITIONS
S. 2470	Sen. Lamar Alexander (R-TN)	Energy and Water Development and Related Agencies Appropriations Act, 2020. Provides FY2020 appropriations for U.S. Army Corps of Engineers civil works projects, the Department of the Interior's Bureau of Reclamation, the Department of Energy (DOE), and independent agencies such as the Nuclear Regulatory Commission.	Senate - 9/12/19 Reported out of Committee on Appropriations 31-0.	Watch	NYC
H.R. 4378	Rep. Nita Lowey (D-NY)	Continuing Appropriations Act, 2020, and Health Extenders Act of 2019	House - 9/18/19 Passed House 301-123. Received in Senate.	Watch	NYC
H.R. 4347	Rep. Matt Cartwright (D-PA)	PREPARE Act of 2019. To enhance the Federal Government's planning and preparation for extreme weather and the Federal Government's dissemination of best practices to respond to extreme weather, thereby increasing resilience, improving regional coordination, and mitigating the financial risk to the Federal Government from such extreme weather, and for other purposes.	House - 9/17/19 Reported out of Committee on Transportation and Infrastructure by voice vote	Watch	NYC
S. 2596	Sen. Tammy Duckworth (D-IL)	Voluntary Water Partnership for Distressed Communities Act of 2019. To amend the Safe Drinking Water Act to authorize certain community water systems to enter into partnerships to improve the water systems, and for other purposes.	Senate - 10/15/19 Referred to Committee on Environment and Public Works	Watch	NYC
S. 2636	Sen. Ben Cardin (D-MD)	Clean Water Infrastructure Resilience and Sustainability Act. To amend the Federal Water Pollution Control Act to establish a program to make grants to eligible entities to increase the resilience of publicly owned treatment works to natural hazards, and for other purposes.	Senate - 10/17/19 Referred to Committee on Environment and Public Works	Watch	NYC
H.R. 4687	Rep. Harley Rouda (D-CA)	SMART Infrastructure Act. To waive certain procurement provisions for a project that receives funds from certain Federal agencies.	House - 10/17/19 Referred to Committees on Transportation and Infrastructure, Science, Space, and Technology, Agriculture, and Energy and Commerce	Watch	NYC

BILL	AUTHOR	SUMMARY	LATEST ACTION	OCSD POSITION	OTHER POSITIONS
H.R. 4780	Rep. Salud Carbajal (D-CA)	National Infrastructure Investment Corporation Act of 2019. To establish a Government corporation to provide loans and loan guarantees for infrastructure projects, and for other purposes.	House - 10/22/19 Referred to Committee on Transportation and Infrastructure	Watch	NYC
S. 2687	Sen. Ben Cardin (D-MD)	Low-Income Water Customer Assistance Programs Act of 2019. To amend the Safe Drinking Water Act and the Federal Water Pollution Control Act to establish pilot programs to assist low-income households in maintaining access to sanitation services and drinking water, and for other purposes.	Senate - 10/23/19 Referred to Committee on Environment and Public Works	Watch	NYC
S. 2674	Sen. Shelley Moore Capito (D-WV)	Assuring Quality Water Infrastructure Act. To amend the Safe Drinking Water Act to establish a grant program for improving infrastructure asset management by small public water systems, and for other purposes.	Senate - 10/23/19 Referred to Committee on Environment and Public Works	Watch	NYC
S. 2767	Sen. Doug Jones (D-AL)	A bill to amend the Federal Water Pollution Control Act to establish a pilot competitive grant program for improving the sharing of water quality data, and for other purposes.	Senate - 10/31/19 Referred to Committee on Environment and Public Works	Watch	NYC

Legend:

ACC-OC- Association of California Cities, Orange County

LOCC- League of California Cities

NYC- Not Yet Considered

CASA- California Association of Sanitation Agencies NACWA - National Association of Clean Water Agencies

ACWA- Association of California Water Agencies

CSDA- California Special Districts Association



To: Orange County Sanitation District

From: Townsend Public Affairs, Inc.

Date: November 20, 2019

Subject: Legislative and Public Affairs Agenda Report

State Political Update

The Legislature will return from Interim Recess on January 6, 2020 to start the second year of the current two-year session. When they return, they face quick deadlines to pass all legislation from last year that did not make it out of its house of origin. The second year of a two-year session is slightly condensed, resulting in quicker policy and appropriations deadlines for bills.

All bills that did not make it out of their first house in 2019 will need to pass their respective house by January 31, 2020. Additionally, legislators will have another opportunity to introduce new legislation in 2020 and will have to do so by the deadline on February 21, 2020.

Although there were several major policy topics addressed this year including housing, homelessness, and public safety, there are still several topics of interest to OCSD that did not make it past the finish line. Potential topics for 2020 that are of interest to OCSD include development impact fees, flushable wipes, ocean discharge reduction mandates, and a potential natural resources/climate change bond.

Utility Power Shutoffs

In response to the wildfires that have erupted across the state the past few months, utility companies have initiated blackouts throughout several local communities. Millions of customers have gone without power to prevent fallen or compromised power lines from sparking a wildfire. In response, Governor Newsom has appointed members to the California Wildlife Safety Advisory Board, a board of independent expert advisors that will advise the California Public Utilities Commission on wildfire safety measures. This Board was established as outlined in AB 1054 (Holden – D, Pasadena) which was signed into law in July 2019.

Additionally, the Governor appointed members to the California Catastrophe Response Council. The Council was established as part of AB 111, the wildfire agencies budget trailer bill. The Council will oversee the operations and management of the Wildfire Fund to pay eligible claims resulting from a wildfire determined to be caused by an electric utility. The Council will direct the Wildfire Fund administrator to prepare and present its operation plans on an annual basis.

Senate Pro Tempore Atkins has also announced the formation of a Senate working group that will study the issue of public safety power shut offs. The members of the working group are the following Senators:

- Susan Rubio (D West Covina)
- Mike McGuire (D San Rafael)
- Hannah-Beth Jackson (D Santa Barbara)
- Ben Hueso (D Chula Vista)
- Benjamin Allen (D Redondo Beach)
- Henry Stern (D Calabasas)
- Nancy Skinner (D Oakland)
- Jerry Hill (D San Mateo)
- Scott Wiener (D San Francisco)

In addition to the working group, the Senate Energy, Utilities and Communications Committee conducted an oversight hearing on November 18 to "begin investigating and reviewing options to address the serious deficiencies with the PSPS process".

Representatives from the Investor Owned Utilities, the Governor's Office, and the CPUC were on hand for several hours to present, answer questions, and consider solutions to Public Safety Power Shutoffs (PSPS) especially as they relate to local and regional public safety concerns. A significant amount of time was also spent discussing other intricacies of related issues including technological solutions as well as funding sources for utility hardening.

TPA anticipates several bills will be introduced next year to address the PSPS process and other issues surrounding power shut offs. We expect that many of these bills will be gut and amends when the Legislature returns in January 2020, as the issue will still be fresh on legislators' minds.

To that end, SB 378 (Wiener – D, San Francisco) will be amended to require the CPUC to create a process where businesses, individuals, and local governments can recover costs as a result of a PSPS. Early draft amendments to the bill would:

- Promote better collection of data on utility equipment in order to assess the risk level prior to a blackout
- Ensure that customers cannot be billed for transmission, distribution, and other costs during a planned blackout
- Prevent utility companies from spending funds hat oppose the formation of a new municipal utilities

TPA will continue to provide timely updates on this issue as it progresses this year and into 2020.

Housing Development Fee Legislation

Beginning this month, Assemblymember Tim Grayson (D - Concord) started to conduct roundtable discussions regarding housing development fees and subsequent 2020 legislation. The Assemblymember intends to use these public hearings and discussions about impact fees with developer advocates and local government representatives to learn more about the issue and brainstorm solutions. We anticipate that the public hearings will result in a housing impact fee bill or package that could significantly impact cities and special districts.

TPA has been working with California Special Districts Association, the League of California Cities, the California State Association of Counties, and others who are part of local government advocacy groups to develop a strategy coming out of these roundtable stakeholder meetings. The goal of TPA and the local government lobby is to ensure that any housing impact fee bill or package does not jeopardize or change OCSD's ability to levy vital connection or capacity fees. TPA anticipates this issue will be a major topic of discussion in the 2020 legislative session and will continue to provide updates as they become available.

BILL	AUTHOR	SUMMARY	LATEST ACTION	OCSD POSITION	LEGISLATIVE PLAN	OTHER POSITIONS
		Proposed Legislation 20	19-2020			
		High Priority				
AB 11	Chiu [D]	Community Redevelopment Law of 2019 Current law dissolved redevelopment agencies as of February 1, 2012, and designates successor agencies to act as successor entities to the dissolved redevelopment agencies. This bill, the Community Redevelopment Law of 2019, would authorize a city or county, or two or more cities acting jointly, to propose the formation of an affordable housing and infrastructure agency by adoption of a resolution of intention that meets specified requirements, including that the resolution of intention include a passthrough provision and an override passthrough provision, as defined.	Two Year Bill	Watch	State Priorities: Continue to monitor the state budget process and actively protect the allocation of local property taxes to special districts.	ACCOC - NYC LOCC - Watch CASA - NYC ACWA - NYC CSDA - Oppose unless amended
AB 68	Ting [D]	Land use: accessory dwelling units. The Planning and Zoning Law authorizes a local agency to provide, by ordinance, for the creation of accessory dwelling units in single-family and multifamily residential zones and sets forth required ordinance standards, including, among others, lot coverage. This bill would delete the provision authorizing the imposition of standards on lot coverage and would prohibit an ordinance from imposing requirements on minimum lot size.	Signed into law	Watch	Legislative and Regulatory Policies: Special Districts - Oppose further state regulations that adversely impact special district financing, operations, and administration.	ACCOC - NYC LOCC - Watch CASA - NYC ACWA - NYC CSDA - Watch
AB 69	Ting [D]	Land use: accessory dwelling units. Current law requires the Department of Housing and Community Development to propose building standards to the California Building Standards Commission, and to adopt, amend, or repeal rules and regulations governing, among other things, apartment houses and dwellings, as specified. This bill would require the department to propose small home building standards governing accessory dwelling units smaller than 800 square feet, junior accessory dwelling units, and detached dwelling units smaller than 800 square feet, as specified, and to submit the small home building standards to the California Building Standards Commission for adoption on or before January 1, 2021.		Watch	Legislative and Regulatory Policies: Special Districts - Oppose further state regulations that adversely impact special district financing, operations, and administration.	ACCOC - NYC LOCC - Watch CASA - NYC ACWA - NYC CSDA - Watch
AB 134	Bloom [D]	Safe Drinking Water Restoration Would require the State Water Resources Control Board to report to the Legislature by July 1, 2025, on its progress in restoring safe drinking water to all California communities and to create an internet website that provides data transparency for all of the board's activities described in this measure. The bill would require the board to develop metrics to measure the efficacy of the fund in ensuring safe and affordable drinking water for all Californians.	Two Year Bill	Watch	State Priorities: Support legislation or regulations that restrict the use of microplastics in any product that is disposed of through the sewer system.	ACCOC - NYC LOCC - Watch CASA - NYC ACWA - NYC CSDA - Watch

BILL	AUTHOR	SUMMARY	LATEST ACTION	OCSD POSITION	LEGISLATIVE PLAN	OTHER POSITIONS
AB 223	Stone [D]	California Safe Drinking Water Act: microplastics The California Safe Drinking Water Act requires the State Water Resources Control Board to administer provisions relating to the regulation of drinking water to protect public health. Current law requires the state board, on or before July 1, 2020, to adopt a definition of microplastics in drinking water and, on or before July 1, 2021, to adopt a standard methodology to be used in the testing of drinking water for microplastics and requirements for 4 years of testing and reporting of microplastics in drinking water, including public disclosure of those results. This bill would require the state board, to the extent possible, and where feasible and cost effective, to work with the State Department of Public Health in complying with those requirements.		Watch	State Priorities: Support legislation or regulations that restrict the use of microplastics in any product that is disposed of through the sewer system.	ACCOC - NYC LOCC - Watch CASA - NYC ACWA - NYC CSDA - Watch
AB 231	Mathis [R]	California Environmental Quality Act: exemption: recycled water. Would exempt from CEQA a project to construct or expand a recycled water pipeline for the purpose of mitigating drought conditions for which a state of emergency was proclaimed by the Governor if the project meets specified criteria. Because a lead agency would be required to determine if a project qualifies for this exemption, this bill would impose a state-mandated local program. The bill would also exempt from CEQA the development and approval of building standards by state agencies for recycled water systems.	Two Year Bill	Watch	State Priorities: Support efforts to reform the California Environmental Quality Act (CEQA)to streamline current procedures and regulations for projects to refurbish or replace existing infrastructure facilities.	ACCOC - NYC LOCC - Watch CASA - NYC ACWA - NYC CSDA - Support
AB 291	Chu	Emergency preparedness Would establish a Local Emergency Preparedness and Hazard Mitigation Fund to support staffing, planning, and other emergency mitigation priorities to help local governments meet emergency management, preparedness, readiness, and resilience goals. The bill would, upon appropriation by the Legislature, require the Controller to transfer \$500,000,000 to the fund. The bill would require the Office of Emergency Services to establish the Local Emergency Preparedness and Hazard Mitigation Fund Committee under the Standardized Emergency Management System Advisory Board.	Two Year Bill	Watch	State Priorities: Secure funding through grants and legislation for infrastructure, collection improvements and alternative renewable energy at the Fountain Valley, Plant No. 1 and Huntington Beach, Plant No. 2.	ACCOC - NYC LOCC - Watch CASA - NYC ACWA - NYC CSDA - Watch
AB 292	Quirk [D]	Recycled water: raw water and groundwater augmentation Current law requires the State Water Resources Control Board, on or before December 31, 2023, to adopt uniform water recycling criteria for direct potable reuse through raw water augmentation, as specified. This bill would eliminate the definition of "direct potable reuse" and instead would substitute the term "groundwater augmentation" for "indirect potable reuse for groundwater recharge" in these definitions. The bill would require, on or before December 31, 2023, the state board to adopt uniform water recycling criteria for raw water augmentation.	Two Year Bill	Watch	Legislative and Regulatory Policies: Water Quality and Supply - Support measures that promote and provide for the use of reclaimed water	ACCOC - NYC LOCC - Watch CASA - NYC ACWA - NYC CSDA - Support

BILL	AUTHOR	SUMMARY	LATEST ACTION	OCSD POSITION	LEGISLATIVE PLAN	OTHER POSITIONS
AB 352	E. Garcia [D]	Wildfire Prevention, Safe Drinking Water, Drought Preparation, and Flood Protection Bond Act of 2020. Would enact the Wildfire Prevention, Safe Drinking Water, Drought Preparation, and Flood Protection Bond Act of 2020, which, if approved by the voters, would authorize the issuance of bonds in the amount of \$3,920,000,000 pursuant to the State General Obligation Bond Law to finance a wildlife prevention, safe drinking water, drought preparation, and flood protection program. The bill would provide for the submission of these provisions to the voters at the November 3, 2020, statewide general election.	Two Year Bill	Watch	Legislative and Regulatory Policies: Grant Funding - Support legislation, bonds, programs and projects that provide funding for: infrastructure construction and rehabilitation, special studies and research or projects relating to security, environmental education, water quality, wastewater processing, urban runoff, wastewater recycling, biosolids and organics management, water quality improvement, resource recovery, or alternative energy.	
AB 405	Rubio [D]	Sales and use taxes: exemption: water treatment. Would exempt from Sales and Use Tax the gross receipts from the sale in this state of, and the storage, use, or other consumption in this state of, chemicals used to treat water, recycled water, or wastewater regardless of whether those chemicals or other agents become a component part thereof and regardless of whether the treatment takes place before or after the delivery to consumers.	Two Year Bill	Watch	Guiding Principles: Seek funds for OCSD projects through grants, appropriations, or other means;□	ACCOC - NYC LOCC - Watch CASA - Support ACWA - NYC CSDA - Support
AB 510	Cooley [D]	Local government records: destruction of records. Current law authorizes the head of a department of a county or city, or the head of a special district to destroy recordings of telephone and radio communications maintained by that county, city, or special district after 100 days if that person receives approval from the legislative body and the written consent of the agency attorney. This bill would exempt the head of a department of a county or city, or the head of a special district from these recording retention requirements if the county, city, or special district adopts a records retention policy governing recordings of routine video monitoring and recordings of telephone and radio communications.	Two Year Bill	Support	Legislative and Regulatory Policies: Security - Support legislation that would create efficiencies around the retention policy of surveillance video for innocuous recordings.	ACCOC - NYC LOCC - Watch CASA - NYC ACWA - NYC CSDA - Sponsor

BILL	AUTHOR	SUMMARY	LATEST ACTION	OCSD POSITION	LEGISLATIVE PLAN	OTHER POSITIONS
AB 587	Friedman [D]	Accessory dwelling units: sale or separate conveyance Current property tax law establishes a welfare exemption under which property is exempt from taxation if the property is owned and operated by a nonprofit corporation that is organized and operated for the purpose of building and rehabilitating single-family or multifamily residences for sale, as provided, at cost to low-income families. This bill would authorize a local agency to allow, by ordinance, an accessory dwelling unit that was created pursuant to the process described above to be sold or conveyed separately from the primary residence to a qualified buyer if certain conditions are met.	Signed into law	Watch	Legislative and Regulatory Policies: Special Districts - Oppose further state regulations that adversely impact special district financing, operations, and administration.	ACCOC - NYC LOCC - Watch CASA - Work w/ author ACWA - NYC CSDA - Watch
AB 756	Garcia [D]	Public water systems: perfluoroalkyl substances and polyfluoroalkyl substances Would authorize the State Water Resources Control Board to order a public water system to monitor for perfluoroalkyl substances and polyfluoroalkyl substances. The bill would require a community water system or a nontransient noncommunity water system, upon a detection of these substances, to report that detection, as specified. The bill would require a community water system or a nontransient noncommunity water system where a detected level of these substances exceeds the response level to take a water source where the detected levels exceed the response level out of use or provide a prescribed public notification.	Signed into law	Watch	Legislative and Regulatory Policies: Source Control - Support legislation and funding mechanisms that reduce the amount of trash, waste, chemicals, and harmful organic material that enter the sewer system.	ACCOC - NYC LOCC - Watch CASA - Watch ACWA - Watch CSDA - Watch
AB 841	Ting [D]	Drinking water: contaminants: perfluoroalkyl and polyfluoroalkyl substances. Would require the Office of Environmental Health Hazard Assessment to adopt and complete a work plan within prescribed timeframes to assess which substances in the class of perfluoroalkyl and polyfluoroalkyl substances should be identified as a potential risk to human health, as provided. The bill would require the office, as part of those assessments, to determine which of the substances are appropriate candidates for notification levels to be adopted by the state board. The bill would require the Office of Environmental Health Hazard Assessment, by January 1, 2022, to provide to the Legislature an update on the assessment.		Watch	Legislative and Regulatory Policies: Source Control - Support legislation and funding mechanisms that reduce the amount of trash, waste, chemicals, and harmful organic material that enter the sewer system.	ACCOC - NYC LOCC - Watch CASA - Watch ACWA - Watch CSDA - Watch
AB 992	Mullin [D]	Open meetings: local agencies: social media Would provide that the Ralph M. Brown Act does not apply to the posting, commenting, liking, interaction with, or participation in, internet-based social media platforms that are ephemeral, live, or static, by a majority of the members of a legislative body, provided that a majority of the members do not discuss among themselves business of a specific nature that is within the subject matter jurisdiction of the legislative body of the local agency.		Watch	Legislative and Regulatory Policies: Special Districts - Oppose further state regulations that adversely impact special district financing, operations, and administration.	ACCOC - NYC LOCC - Watch CASA - Approve ACWA - NYC CSDA - Support

BILL	AUTHOR	SUMMARY	LATEST ACTION	OCSD POSITION	LEGISLATIVE PLAN	OTHER POSITIONS
AB 1080	Gonzalez [D]	California Circular Economy and Plastic Pollution Reduction Act Would establish the California Circular Economy and Plastic Pollution Reduction Act, which would require the Department of Resources Recycling and Recovery, in consultation with the State Water Resources Control Board and the Ocean Protection Council, to adopt, on or before January 1, 2023, regulations to achieve, by 2030, a 75% reduction by manufacturers and retailers of the waste generated from single-use packaging and products offered for sale or sold in the state through source reduction, recycling, or composting.	Two Year Bill	Watch	State Priorities: Support legislation or regulations that restrict the use of microplastics in any product that is disposed of through the sewer system. □	ACCOC - NYC LOCC - Support CASA - NYC ACWA - NYC CSDA - NYC
AB 1180	Friedman [D]	Water: recycled water The California Safe Drinking Water Act requires the State Water Resources Control Board to administer provisions relating to the regulation of drinking water to protect public health. Current law requires, on or before January 1, 2020, the state board to adopt standards for backflow protection and cross-connection control through the adoption of a policy handbook, as specified. This bill would require that handbook to include provisions for the use of a swivel or changeover device to supply potable water to a dual-plumbed system during an interruption in recycled water service.	Signed into law	Watch	Legislative and Regulatory Policies: Recycled Water - support measures that promote and provide for the use of reclaimed water.	ACCOC - NYC LOCC - Watch CASA - Support ACWA - NYC CSDA - Support
AB 1184	Gloria [D]	Public records: writing transmitted by electronic mail: retention Would, unless a longer retention period is required by statute or regulation, require a public agency for purposes of the California Public Records Act to retain and preserve for at least 2 years every writing containing information relating to the conduct of the public's business prepared, owned, or used by any public agency that is transmitted by electronic mail.	Vetoed	Watch	Legislative and Regulatory Policies: Special Districts - Oppose further state regulations that adversely impact special district financing, operations, and administration.	ACCOC - NYC LOCC - Oppose CASA - Watch ACWA - NYC CSDA - Oppose
AB 1588	Gloria [D]	Drinking water and wastewater operator certification programs Current law requires a person who operates a nonexempt wastewater treatment plant to possess a valid, unexpired wastewater certificate or water treatment operator certificate of the appropriate grade. This bill, when applying for certification by the board as a water treatment operator, distribution system operator, or wastewater operator, would require operators of complex industrial facilities, including members of the military and military service veterans, to receive appropriate equivalent experience credit and education credit for work and tasks performed that are directly related to the operation of water or wastewater facilities, as specified.	Signed into law	Watch	Legislative and Regulatory Policies: Special Districts - Oppose further state regulations that adversely impact special district financing, operations, and administration.	ACCOC - NYC LOCC - Watch CASA - Support ACWA - NYC CSDA - Support

BILL	AUTHOR	SUMMARY	LATEST ACTION	OCSD POSITION	LEGISLATIVE PLAN	OTHER POSITIONS
AB 1672	Bloom [D]	Solid waste: flushable products The California Integrated Waste Management Act of 1989, administered by the Department of Resources Recycling and Recovery, generally regulates the disposal, management, and recycling of solid waste. This bill would, among other things, on or after January 1, 2021, prohibit a covered entity, as defined, from labeling a covered product as safe to flush, safe for sewer systems, or safe for septic systems, unless the product is a flushable wipe that meets certain performance standards. The bill would require nonflushable products to be labeled clearly and conspicuously to communicate that they should not be flushed, as specified.	Two Year Bill	Support	Legislative and Regulatory Policies: Source Control - Support legislation that regulates the disposal of flushable wipes.	ACCOC - NYC LOCC - Watch CASA - Sponsor ACWA - Support CSDA - Support
ACA 1	Aguiar-Curry [D]	Local government financing: affordable housing and public infrastructure: voter approval. The California Constitution prohibits the ad valorem tax rate on real property from exceeding 1% of the full cash value of the property, subject to certain exceptions. This measure would create an additional exception to the 1% limit that would authorize a city, county, city and county, or special district to levy an ad valorem tax to service bonded indebtedness incurred to fund the construction, reconstruction, rehabilitation, or replacement of public infrastructure, affordable housing, or permanent supportive housing, or the acquisition or lease of real property for those purposes, if the proposition proposing that tax is approved by 55% of the voters of the city, county, or city and county, as applicable, and the proposition includes specified accountability requirements.	Currently on the Assembly Floor	Watch	Guiding Principles: Seek funds for OCSD projects through grants, appropriations, or other means;	ACCOC - NYC LOCC - Support CASA - Support ACWA - NYC CSDA - Support
SB 1	Atkins [D]	California Environmental, Public Health, and Workers Defense Act of 2019. This bill seeks to freeze federal Clean Air Act, Clean Water Act, Safe Drinking Water Act, Endangered Species Act, Fair Labor Standards Act, Occupational Safety and Health Act and Coal Mine Health and Safety Act requirements to those in place as of January 19, 2017. SB 1 refers to federal requirements existing as of this date, as "baseline federal standards." SB 1 is intended to "ensure continued protections for the environment, natural resources, and public health and safety" in California, even if the noted federal laws are "undermined, amended or repealed" by making the baseline environmental standards the new floor for environmental and worker protections in California	Vetoed	Watch	Legislative and Regulatory Policies: Public Health: Protection of public health is OCSD's core mission. OCSD will work cooperatively with county and state health officers to assure local health protection.	ACCOC - NYC LOCC - Watch CASA - NYC ACWA - Oppose CSDA - NYC

BILL	AUTHOR	SUMMARY	LATEST ACTION	OCSD POSITION	LEGISLATIVE PLAN	OTHER POSITIONS
SB 5	Beall [D]	Local-State Sustainable Investment Incentive Program Would establish in state government the Affordable Housing and Community Development Investment Program, which would be administered by the Affordable Housing and Community Development Investment Committee. The bill would authorize a city, county, city and county, joint powers agency, enhanced infrastructure financing district, affordable housing authority, community revitalization and investment authority, transit village development district, or a combination of those entities, to apply to the Affordable Housing and Community Development Investment Committee to participate in the program and would authorize the committee to approve or deny plans for projects meeting specific criteria.	Vetoed	Watch	State Priorities: Continue to monitor the state budget process and actively protect the allocation of local property taxes to special districts.	ACCOC - NYC LOCC - Support CASA - Watch ACWA - NYC CSDA - Watch
SB 13	Weickowski [D]	Accessory dwelling units Would authorize the creation of accessory dwelling units in areas zoned to allow single-family or multifamily dwelling use. The bill would also revise the requirements for an accessory dwelling unit by providing that the accessory dwelling unit may be attached to, or located within, an attached garage, storage area, or other structure, and that it does not exceed a specified amount of total floor area. Bill was amended to remove the cap on capacity and connection fees that agencies can charge new ADUs.	Signed into law	Watch	Legislative and Regulatory Policies: Special Districts - Oppose further state regulations that adversely impact special district financing, operations, and administration.	ACCOC - NYC LOCC - Oppose unless amended CASA - Work w/ author ACWA - NYC CSDA - Oppose
SB 33	Skinner	Solid waste: reduction and recycling. The California Integrated Waste Management Act of 1989, administered by the Department of Resources Recycling and Recovery, generally regulates the disposal, management, and recycling of solid waste. This bill would state the intent of the Legislature to enact legislation that would address the collapse of foreign recycling markets by reducing solid waste generation, encouraging transition to compostable or recyclable materials, and fostering domestic recycling markets.	Two Year Bill	Watch	Legislative and Regulatory Policies: Biosolids and Biogas - Limit redundant reporting requirements on organics, recyclable material, and solid waste as mandated by AB 901.	ACCOC - NYC LOCC - Watch CASA - NYC ACWA - NYC CSDA - Watch

BILL	AUTHOR	SUMMARY	LATEST ACTION	OCSD POSITION	LEGISLATIVE PLAN	OTHER POSITIONS
SB 134	Hertzberg [D]	Water conservation: water loss performance standards: enforcement. Current law requires the State Water Resources Control Board, no earlier than January 1, 2019, and no later than July 1, 2020, to adopt rules requiring urban retail water suppliers to meet performance standards for the volume of water losses. This bill would prohibit the board from issuing an information order, written notice, or conservation order to an urban retail water supplier that does not meet its urban water use objective if the board determines the urban retail water supplier is not meeting its urban water use objective solely because the volume of water loss exceeds the urban retail water supplier's standard for water loss and the board is taking enforcement action against the urban retail water supplier for not meeting the performance standards for the volume of water losses.	Signed into law	Watch	Legislative and Regulatory Policies: Water Supply - Support legislation and regulation that necessitate the responsible use of water in residential, commercial, and industrial areas	ACCOC - NYC LOCC - Watch CASA - NYC ACWA - NYC CSDA - Support
SB 200		Safe and Affordable Drinking Water Fund. Would establish the Safe and Affordable Drinking Water Fund in the State Treasury to help water systems provide an adequate and affordable supply of safe drinking water in both the near and the long term. The bill would authorize the board to provide for the deposit into the fund of federal contributions, voluntary contributions, gifts, grants, and bequests and would provide that moneys in the fund are available, upon appropriation by the Legislature, to the board to fund grants, loans, contracts, or services to assist eligible recipients.	Signed into law	Watch	State Tactics: Support tax reform that protects public agencies	ACCOC - NYC LOCC - Watch CASA - NYC ACWA - NYC CSDA - Watch
SB 210	Leyva [D]	Heavy-Duty Vehicle Inspection and Maintenance Program. Current law requires the State Air Resources Board, in consultation with the Bureau of Automotive Repair and a specified review committee, to adopt regulations requiring owners or operators of heavy-duty diesel motor vehicles to perform regular inspections of their vehicles for excessive emissions of smoke. Current law requires the state board, in consultation with the State Energy Resources Conservation and Development Commission, to adopt regulations requiring heavy-duty diesel motor vehicles to use emission control equipment and alternative fuels. This bill would require the state board, in consultation with the bureau and other specified entities, to implement a pilot program that develops and demonstrates technologies that show potential for readily bringing heavy-duty vehicles into an inspection and maintenance program.	Signed into law	Recommen d Oppose	Legislative and Regulatory Policies: Air Quality - Support measures that maintain and enhance local decision-making authority, where appropriate, in the development and implementation of air quality attainment strategies	ACCOC - NYC LOCC - Watch CASA - Watch ACWA - Watch CSDA - Watch

OCSD State Bills of Interest

BILL	AUTHOR	SUMMARY	LATEST ACTION	OCSD POSITION	LEGISLATIVE PLAN	OTHER POSITIONS
SB 332	Hertzberg [D]	Wastewater treatment: recycled water. Would declare, except in compliance with the bill's provisions, that the discharge of treated wastewater from ocean outfalls is a waste and unreasonable use of water. The bill would require each wastewater treatment facility that discharges through an ocean outfall and affiliated water suppliers to reduce the facility's annual flow as compared to the average annual wastewater discharge baseline volume, as prescribed, by at least 50% on or before January 1, 2030, and by at least 95% on or before January 1, 2040. The bill would subject the owner or operator of a wastewater treatment facility, as well as the affiliated water suppliers, to a civil penalty of \$2,000 per acre-foot of water above the required reduction in overall volume discharge for the failure to meet these deadlines.	Two Year Bill	Watch	State Legislation: Work with legislators who introduced legislation such as SB 163 (Hertzberg, 2015) in order to ensure that no unrealistic regulations are placed on wastewater treatment facilities, including OCSD	ACCOC - NYC LOCC - Oppose CASA - Oppose ACWA - NYC CSDA - Oppose
SB 457	Hueso [D]	Biomethane: gas corporations Under existing law, the Public Utilities Commission has regulatory authority over public utilities, including gas corporations. Existing law authorizes the commission to fix the rates and charges for every public utility and requires that those rates and charges be just and reasonable. Existing law requires the commission to adopt policies and programs that promote the in-state production and distribution of biomethane, as defined, and that facilitate the development of a variety of sources of in-state biomethane. This bill would require the Public Utilites Commission to extend the program until December 31, 2026. This bill contains other related provisions and other existing laws.	Signed into law	Watch	Legislative and Regulatory Polciies: Biosolids and Biogas - Support streamlined legislation, regulations and policies that encourage the procurement of biogas, biosolids, and compost.	ACCOC - NYC LOCC - Watch CASA - Refer to Committee ACWA - NYC CSDA - NYC
SB 667	Hueso [D]	Greenhouse gases: recycling infrastructure and facilities. Would require the Department of Resources Recycling and Recovery to develop, on or before January 1, 2021, and would authorize the department to amend, a 5-year investment strategy to drive innovation and support technological development and infrastructure, in order to meet specified organic waste reduction and recycling targets, as provided. The bill would require, on or before June 1, 2021, the department, in coordination with the Treasurer, to develop financial incentive mechanisms, including, but not limited to, loans and incentive payments, to fund organic waste diversion and recycling infrastructure.	Two Year Bill	Watch	Legislative and Regulatory Polciies: Biosolids and Biogas - Support the promotion and funding of local pilot programs, studies, and research for the beneficial use of biosolids.	ACCOC - NYC LOCC - Support CASA - Support ACWA - NYC CSDA - NYC

OCSD State Bills of Interest

BILL	AUTHOR	SUMMARY	LATEST ACTION	OCSD POSITION	LEGISLATIVE PLAN	OTHER POSITIONS
SB 732	Allen [D]	Transactions and use tax. Current law establishes the South Coast Air Quality Management District vested with the authority to regulate air emissions from stationary sources located in the South Coast Air Basin and establishes a district board to govern the district. This bill would authorize the south coast district board to impose a transactions and use tax within the boundaries of the south coast district, as specified, with the moneys generated from the transactions and use tax to be used to supplement existing revenues being used for south coast district purposes, as specified.			Polciies: Air Quality - Support air quality legislations, regulations, rules, and policies that	ACCOC - NYC LOCC - Watch CASA - NYC ACWA - NYC CSDA - No position

Legend:

ACC-OC - Association of California Cities, Orange County

LOCC - League of California Cities

NYC - Not Yet Considered

CASA - California Association of Sanitation Agencies

ACWA - Association of California Water Agencies

CSDA - California Special Districts Association

OCSD's Grant and Loan Funding Tracker 2018-2019

Name of Grant/Loan	Synopsis of Grant/Loan	Amount of Grant/Loan	Amount Applying for	Applying Y/N	Project/Program	Reason	Match	Deadline	Category	Rcvd Grant/ Financing Y/N
				STATE						
Organics Grant Program	The Organics Grant Program is part of California Climate Investments, a statewide program that puts billions of capand-trade dollars to work reducing greenhouse gas emissions, strengthening the economy, and improving public health and the environment - particularly in disadvantaged and/or low-income communities. The Capand-Trade program also creates a financial incentive for industries to invest in clean technologies and develop innovative ways to reduce pollution. California Climate Investments projects include affordable housing, renewable energy, public transportation, zero-emission vehicles, environmental restoration, more sustainable agriculture, recycling, and much more. At least 35 percent of these investments are made in disadvantaged and low-income communities.	\$16,112,753 (\$13,312,753 is available for fiscal year (FY) 2018–19, and \$3 million is available for fiscal year (FY) 2019–20)	TBD	Yes if we qualify.	Food-Waste Co-Digestion facility at Plant No.2 in Huntington Beach to accept up to 150 wet tons per day (wtpd) of pre-processed source separated organics.	We will review the possible funding opportunity to determine if it is a fit for the Sanitation District.	TBD	11/21/2019	Energy/Recycling	TBD
Integrated Regional Water Management (IRWM) Grant Program	The Proposition 1 IRWM Grant Program, administered by DWR, provides funding for projects that help meet the long term water needs of the state, including: Assisting water infrastructure systems adapt to climate change; Providing incentives throughout each watershed to collaborate in managing the region's water resources and setting regional priorities for water infrastructure	\$3,000,000.00 per grant award	NA	TBD (Round 2)	NA	TPA and OCSD are monitoring the grant program development from the Santa Ana Watershed Project Authority (SAWPA). The solicitation for bids was announced by SAWPA and staff determined that an application for funding was not warranted due to a lack of eligible and competitive projects.	50%	NA. Will return in 2021 for Round 2	Water	No
				FEDERAL						
The Water Infrastructure Improvements Act (WIIN)	The Title XVI Water Reclamation and Reuse Projects funding opportunity allows for sponsors of water reclamation and reuse projects that are congressionally authorized or are eligible under section 4009(c) of the WIIN Act to request cost-shared funding for planning, design and/or construction of those Projects. Water reclamation and reuse projects provide improved efficiency, flexibility during water shortages and diversifies the water supply.	Reclamation is making up to \$20 million available for those projects authorized under the WIIN Act and \$34 million for the congressionally authorized Title XVI projects.	\$550,000	Yes	Final Expansion of GWRS Headworks (P2-122)	The Sanitation District is applying for Headworks Segregation project that will help to bring more water to the GWRS.	Title 16 will pay up to 25 percent of the available money	7/27/2018	Water/ Infrastructure	No
The Water Infrastructure Improvements Act (WIIN)	The Title XVI Water Reclamation and Reuse Projects funding opportunity allows for sponsors of water reclamation and reuse projects that are congressionally authorized or are eligible under section 4009(c) of the WIIN Act to request cost-shared funding for planning, design and/or construction of those Projects. Water reclamation and reuse projects provide improved efficiency, flexibility during water shortages and diversifies the water supply.	Reclamation is making up to \$20 million available for those projects authorized under the WIIN Act.	\$3 million	Yes	Final Expansion of GWRS Headworks (P2-122)	The Sanitation District applied for Headworks Segregation project that will help to bring more water to the GWRS.	Title 16 will pay up to 25 percent of the available money	6/28/2019	Water/ Infrastructure	TBD
Stormwater and CSO Grant Program	USEPA is authorized to provide grants assistance of public agencies to control stormwater flows and CSO's	Funding cost-share is not identified in the law	TBD	TBD. We will monitor for possible funding opportunities/A	TBD	Funding must be appropriated as part of current FY 2019 budget impasse	TBD	TBD	Water/ Infrastructure	TBD

OCSD's Grant and Loan Funding Tracker 2018-2019

Name of Grant/Loan	Synopsis of Grant/Loan	Amount of Grant/Loan	Amount Applying for	Applying Y/N	Project/Program	Reason	Match	Deadline	Category	Rcvd Grant/ Financing Y/N
The Department of Energy (DOE), USBR and USEPA	The DOE's Office of Energy Efficiency is likely to continue to be funded by Congress to support such efforts as biogas, biosolids and green energy.	A minimum of \$20 million to as much as \$100 million based upon prior years' budgets. USBR could receive as much as \$130 million in support of the WaterSmart (due to increased funding under WIIN) during the next several years. USBR will issue solicitations for innovative approaches to managing water and water treatment through technology and processes.	TBD	TBD. We will monitor for possible funding opportunities	Project Funding Opportunity: Energy production to reduce costs of recycled water through innovative technologies like Aquacritox, Innovative water monitoring technology that can produce efficient real time monitoring and data analysis, Biogas Management and Use Improvements.	We will review the possible funding opportunity to determine if it is a fit for the Sanitation District.	N/A	TBD	Energy	TBD
				Other						
Community Partnering Program Grant	Metropolitan Water District	The primary focus of the Community Partnering Program (CPP) is sponsorship of water conservation and water-use efficiency programs and activities. Applications must be submitted 30 days prior to the start date of the event or program. Requests for a maximum \$2,000 award will be reviewed year-round and funds are awarded throughout the year. Funds are limited, however, and may be depleted prior to the ending of this fiscal year (June 30).		Yes	For Plant No. 1 Signage	Applied	Match	ongoing	Education	Yes
Mass Timber Competition	CalGovOps	The California Government Operations Agency (GovOps) will award \$500,000 in grants as part of the statewide California Mass Timber Building Competition. Grants will be awarded to selected proponent teams presenting viable and repeatable mass timber solutions for commercial and multi-family projects in California. The competition is being hosted by GovOps and administered by WoodWorks – Wood Products Council.		Yes	Headquarters Building	Applied	No	03/18/19	Environment	Yes































November 21, 2019

The Honorable Alan Lowenthal United States House of Representatives Washington, D.C. 20510 The Honorable Tom Udall United States Senate Washington, D.C. 20510

Dear Senator Udall and Representative Lowenthal:

On behalf of the undersigned coalition of public agencies providing wastewater, water recycling and biosolids management services in California, we write to convey our support for your landmark legislation relating to plastic pollution.

Our coalition is especially supportive of the inclusion of provisions in the legislative discussion draft related to the proper labeling of wet wipes products sold in the United States. Wet wipes products made with plastics or other synthetic materials pose a great risk to our communities' clean water infrastructure, public health, and the environment. There are currently no statutory requirements for wet wipes products to be labeled with information about their intended disposal, and many wet wipes that are supposed to go into the trash end up being flushed and contribute to system problems and microplastic pollution. Compounding the problem is the increasing popularity of "flushable" wipes, which look and feel the same as other wipes and create consumer confusion about how to properly dispose of the products intended to be disposed of in the trash.

When wet wipes enter the municipal sewer systems, they commonly rope together and congeal with fats, oils, and grease and other obstructions in the sewer, leading to costly maintenance issues and causing sanitary sewer overflows in private residences, businesses, and our communities. Since over 90% of wet wipes contain plastic fibers, when they are flushed, those fibers shed and can be discharged to waterways in wastewater effluent.

Information gathered by the State of California indicates that in the last decade, the number of sewer spills have decreased by over 55%; however, the percentage of sewer spills related to wet wipes have increased 35% in the same time. In fact, the improper disposal of wet wipes in sewers over this same time period has resulted in over 1.2 sewer spills per week for which public agencies could have been liable for \$350 million in fines for such violations. As such, this addition in your legislation is important to our coalition, and we support its inclusion.

With regard to input on the bill language, we have two comments: (1) we support modifying § 12304(d) such that this bill would expressly utilize the performance standards for flushability developed by the International Water Services Flushability Group, which include a prohibition of plastics, amongst other vital criteria, and (2) we affirm your recognition and prohibition of synthetic materials and fibers such as regenerated cellulose, as these materials are not natural, significantly reduce a wet wipe's ability to disintegrate, and do not biodegrade in the environment in a short period of time thus making them functionally equivalent to microplastics.

For these reasons, our coalition appreciates your initiative to introduce federal legislation on this important topic and look forward to working with you as the legislation progresses.

Sincerely,

Paul D. Jones II, P.E. General Manager Eastern Municipal Water District

Dave Pedersen,
General Manager/Administering Agent
Las Virgenes – Triunfo Joint Powers Authority

Daniel McIntyre General Manager Dublin San Ramon Services District

Roger Bailey General Manager Central Contra Costa Sanitary District

James D. Herberg General Manager Orange County Sanitation District

Vince DeLange General Manager Delta Diablo Sanitary District

Dave Williams
Executive Director
Bay Area Clean Water Agencies

Rick Shintaku, P.E. General Manager South Coast Water District Steve Wagner
General Manager
Goleta Sanitary District

Tyson Zimmerman Assistant General Manager Ironhouse Sanitary District

Paul Bushee General Manager Leucadia Wastewater District

Harlan L. Kelly, Jr. General Manager

San Francisco Public Utilities Commission

Kevin Kildee Mayor City of Camarillo

,

Paul R. Eldredge, P.E. General Manager Union Sanitary District

Shivaji Deshmukh, P.E. General Manager

Inland Empire Utilities Agency

Daniel L. Walters President

Oro Loma Sanitary District

CC: Jessica Gauger, Director of Legislative Advocacy, California Association of Sanitation Agencies Eric Sapirstein, Federal Advocate, California Association of Sanitation Agencies Kristina Surfus, Director of Legislative Affairs, National Association of Clean Water Agencies ORANGE
COUNTY
SANITATION
DISTRICT
LAPA UPDATE



Eric Sapirstein

ENS Resources, Inc.

December 9, 2019



Key legislative activities

PFAS: National Defense Authorization Act

- NDAA Conference Committee Compromise Pending Speaker Review
- Impose "hazardous substance" definition on limited universe of chemicals
- Require "interim guidance" on management and disposal of biosolids, spent filters etc.
- House Committee on Energy and Commerce approves expansive bill

FY 2020 APPROPRIATIONS STATUS

- Stopgap Spending Bill Expires 12/20/19
- Funding of key water infrastructure and water quality programs not controversial
- PFAS program funding possible

EXTENDED NPDES PERMITTERMS

- H.R. 1497 Pending House floor debate once legislative report finalized
- States oppose limits on administrative extensions of five-year permits
- Senate support for simple ten-year permit authorization as part of Water Resources Development Act—Next Year

Questions

T * W N S E N D

PUBLIC AFFAIRS

EST **TPA** 1998



TPA Presentation to:

Orange County
Sanitation District

December 9, 2019

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Agenda

Legislative Schedule & Looking Ahead

FY 2020-2021 State Budget Outlook

Impact Fee Legislation

Legislative Schedule & Looking Ahead

Legislative Schedule & Looking Ahead

- Legislature returns for second of the two-year session January 6, 2020
- Governor's initial January Budget proposal is due January 10
- Accelerated schedule for the second year of the two-year session
- New bill introduction deadline is February 21, 2020



FY 2020-2021 State Budget Outlook

FY 2020-2021 State Budget Outlook

- Legislative Analyst Office (LAO) released its 2020-21 Fiscal Outlook Overview report
- Initial estimate of \$7 billion in General Fund surplus
 - Amount could be used for discretionary one-time spending or on-going programs
- Higher economic risk in FY 2020 –
 2021 compared to previous years
- Recommendation to use the reserves cautiously and pay down debts and building reserves

The 2020-21 Budget: Fiscal Outlook Overview

NOVEMBER 2019



Impact Fee Legislation

Impact Fee Legislation Update

- Assembly Member Grayson (D-Concord): Legislation in 2020 addressing residential and development impact fees
- Impacts fees → barrier to housing
- A series of stakeholder workshops were conducted during the Interim Recess to gather information and perspective
- Terner Report (UC Berkeley) released in August made recommendations to the Legislature to improve implementation of impact fees
- Local agency goal: protect local control of impact fee assessments





Thank You

Cori Williams

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Orange County Sanitation District

Administration Building 10844 Ellis Avenue Fountain Valley, CA 92708 (714) 593-7433

LEGISLATIVE AND PUBLIC AFFAIRS COMMITTEE

Agenda Report

File #: 2019-838 Agenda Date: 12/18/2019 Agenda Item No: 17.

FROM: James D. Herberg, General Manager

SUBJECT:

2020 LEGISLATIVE/REGULATORY PLAN

GENERAL MANAGER'S RECOMMENDATION

RECOMMENDATION:

Approve the Orange County Sanitation District 2020 Legislative and Regulatory Plan.

BACKGROUND

Each year, the Board of Directors adopts a legislative and regulatory plan which is a summary of the Orange County Sanitation District's (Sanitation District) legislative goals, key issues, and policy positions. The legislative and regulatory policies in this document were developed taking into consideration the Sanitation District's priorities, the wastewater industry, and the Sanitation District's member agencies and policy needs.

These Board-approved policies serve as the Sanitation District's official positions of support or opposition on issues of importance to the agency. The legislative and regulatory plan is a dynamic document, adopted annually, and is modified to meet the needs of the Sanitation District as Federal, State, and local policymaking agendas change throughout the year.

RELEVANT STANDARDS

- Maintain influential legislative advocacy and a public outreach program
- Build brand, trust, and support with policy makers and community leaders
- Maintain collaborative and cooperative relationships with regulators, stakeholders, and neighboring communities
- Listen to and seriously consider community input on environmental concerns
- Use all practical and effective means for resource recovery

PROBLEM

Local and Federal legislation and regulations can have significant impacts on the Sanitation District's ability to accomplish our mission. Impacts from legislative action can affect the Sanitation District and our customers either positively or negatively. Also, the Sanitation District and other public agencies are sometimes precluded from pursuing innovations and solutions to problems without new legislation or changes to existing laws and regulations.

File #: 2019-838 Agenda Date: 12/18/2019 Agenda Item No: 17.

PROPOSED SOLUTION

The 2020 Legislative and Regulatory Plan, which will be brought to the Board for approval in December, includes our platform and approach to engaging with Federal, State, and local governments to inform and advocate for the Sanitation District's legislative interests. This program includes sponsoring and monitoring legislation and grants that would benefit the Sanitation District's customers and the wastewater industry, in addition to advancing our mission. The program also includes relationship building activities and outreach to our elected officials by providing facility tours, one-on-one meetings, and trips to D.C. and Sacramento.

TIMING CONCERNS

The 2020 Legislative and Regulatory Plan is scheduled to go to the Board in December for approval and adoption. It is important that the plan be reviewed and approved by the Legislative and Public Affairs Committee in December, prior to the final version that will be submitted to the Board.

RAMIFICATIONS OF NOT TAKING ACTION

If we do not effectively work with the local, State, and Federal elected officials, legislation could be passed that negatively affects the Sanitation District and the wastewater industry as a whole. Additionally, the Sanitation District could miss out on grant funding opportunities.

ATTACHMENT

The following attachment(s) are included in hard copy and may also be viewed on-line at the OCSD website (www.ocsd.com) with the complete agenda package:

Orange County Sanitation District 2020 Legislative and Regulatory Plan

ORANGE COUNTY SANITATION DISTRICT

2020 Legislative and Regulatory Plan



Legislative & Regulatory Affairs Team

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Services		

Legislative Public Affairs Committee

Peter Kim, Chair	Chair
Allan Bernstein	Vice-Chair
Lucille Kring	Member-At-Large
Erik Peterson	Member-At-Large
Christina Shea	Member-At-Large
David Shawver	Board Chair
John Withers	Board Vice-Chair

Orange County Sanitation District 2020 Legislative & Regulatory Plan

Introduction

The Orange County Sanitation District (OCSD) recognizes the need for an active local, state and federal legislative and regulatory advocacy program to ensure that the interests of the ratepayers and the Board of Directors (Board) are protected and supported. Towards that end, the legislative and regulatory team actively engages, pursues, and monitors activities in California and Washington, D.C. and takes appropriate action in support of or opposition to legislative and regulatory initiatives.

Each year, the Board of Directors adopts a legislative and regulatory plan, which is a summary of OCSD's goals, key issues, and policy positions. The legislative and regulatory policies in this document were developed taking into consideration OCSD's priorities, the wastewater industry, and OCSD's member agencies and policy needs. These Board-approved policies serve as OCSD's official positions of support or opposition on issues of importance to the agency. The legislative and regulatory plan is a dynamic document, adopted annually and is modified to meet the needs of OCSD as federal, state, and local policymaking agendas change throughout the year.

The legislative and regulatory team, in conjunction with the Board, may take appropriate action consistent with the legislative and regulatory plan, including, but not limited to, drafting letters, lobbying legislators, regulators, and staff, and crafting bills and proposing legislation and regulations.

Procedure for Taking Positions

- Staff will track bills and proposed regulations of greatest interest to OCSD, particularly those that fall within
 the goals and objectives identified by the Board and included in this plan. Staff will monitor bills and
 proposed regulations being watched by similar agencies in Orange County (Irvine Ranch Water District,
 South Orange County Water Authority, Orange County Water District, Municipal Water District of Orange
 County, etc.) as well as state, federal and national associations such as California Association of Sanitation
 Agencies (CASA), Southern California Alliance of Publicly Owned Treatment Works (SCAP), California Special
 Districts Association (CSDA), Association of California Water Agencies (ACWA), Association of California
 Cities Orange County (ACC-OC), League of California Cities (LOCC), and National Association of Clean Water
 Agencies (NACWA).
- 2. For those bills and proposed regulations that are being tracked and where there is clear policy direction stated in the Board-adopted legislative and regulatory plan or adopted goals, Public Affairs and Regulatory staff can send letters to legislators and regulators and give direction to the lobbyists to advocate that position.
- 3. Where an issue is not urgent, all legislative letters will be hand-signed by the Board Chair or Vice Chair. If a matter is urgent, staff may use the electronic signature, so long as a clear policy direction exists and the General Manager or Designee approves the letter.
- 4. When a bill does not fall within the scope of the legislative and regulatory plan or is a controversial issue, staff will seek direction from the Legislative and Public Affairs Committee.
- 5. If a bill does not fall within the scope of the legislative plan, but the Association of California Cities Orange County (ACCOC), California Association of Sanitation Agencies (CASA), the California Special Districts Association (CSDA) or the National Association of Clean Water Agencies (NACWA) has an adopted position, staff may follow this position but must inform the Legislative and Public Affairs Committee of such action at the next regularly scheduled meeting.

Guiding Priorities

- Seek funds for OCSD projects through grants, appropriations, or other means;
- Maintain local control over governance of special districts and other local entities;
- Oppose redundant regulatory and legislative requirements that cause undue constraints on efficient operations;
- Support legislative regulatory streamlining that promotes public health and the environment.

Federal Priorities

- Advocate for robust federal water infrastructure funding including State Revolving Fund and the Water Infrastructure Improvements for the Nation (WIIN) Act including water infrastructure provisions.
 Additionally, federal support in the form of assistance for disadvantaged communities should be provided.
- Identify and work to secure general and direct federal grants assistance, Water Infrastructure Finance and Innovation (WIFIA) Act assistance, green infrastructure, renewable energy, and water and organic management recycling project assistance.
- Work with Congress and United States Environmental Protection Agency (EPA) to advance implementation
 of the WaterSense Program to increase the use of energy and water use efficient technologies at OCSD
 while protecting against treatment cost increases related to program rulemaking.
- Monitor federal agency grants for funding of traditional wastewater treatment needs, alternative renewable energy, bioenergy, water recycling, biosolids beneficial use, and beach protection.
- Work with Administration and Congress to advance commonsense permitting processes including ten-year National Pollutant Discharge Elimination System (NPDES) permits and programmatic permits issued by United States EPA and the U.S. Army Corps of Engineers to promote reduced costs to ratepayers. Any authority to issue efficient permitting solutions should not impose new requirements or burdens on permittees.
- Work with Congress to address concerns stemming from Mobile Persistent Bioaccumulative Toxic substances (MPBTs) for example: Perfluorooctanoic acid (PFAS). Support federal assistance, including grants to local agencies to support clean-up costs.
- Provide that any funding regime be derived from the manufacturers of PFAS/PFOA chemicals to provide federal grants and low-interest loans to agencies impacted.
- Oppose designation of PFAS as a hazardous waste under Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA).
- Clarify that if PFAS is defined as a hazardous waste under CERCLA that water and wastewater agencies are not subject to any liability clean-up costs, if such agencies are not actively involved in the production of the chemicals and are simply receivers of such chemicals due to the discharge of wastewaters from industry and domestic sewage.
- Work with OCSD's congressional delegation and administration officials to advance resiliency including seismic and infrastructure policies that promote the funding of OCSD's water recycling and other conservation projects. Seek to secure adequate funding of programs authorized in drought relief legislation to facilitate funding of OCSD's project priorities.
- Support legislation, policies and regulations that offer to provide below market bonding rate assistance to
 construct treatment facilities, including credit assistance and infrastructure banks. Focus should be on
 energy recovery technologies, core infrastructure assistance related wastewater treatment, funding of final
 stage of water recycling needs, and related demonstration of evolving technologies to address brine line
 needs.
- Support legislation to label wipes as non-flushable/non-dispersible.

- During the fiscal year 2021 appropriations, identify opportunities to secure federal support of OCSD's capital project needs as part of any budget decision making process for the coming fiscal year.
- Promote restoration of federal deductibility of state and local tax payments and oppose elimination or restriction on the use or availability of tax-exempt financing for public infrastructure.
- Support at least \$3 billion in annual federal appropriations for the Clean Water Act State Revolving Fund (CWSRF). Work with Congress and the United States Environmental Protection Agency to streamline the Clean Water Act permitting processes. Provide assurances that CWSRF appropriations are not transferred to State Drinking Water State Revolving Fund (SRF) needs.
- Support legislation to revise the SRF allocation formula to allow for appropriate and fair share of funding to California consistent with United States EPA study (20% increase in share).
- Support removal of private activity Bond State Volume Cap on water and wastewater facilities to allow for innovative financing options such as public private partnerships.
- Work with the EPA on emerging regulatory issues of concern including integrated plans, method development, monitoring effluent limitations and guidelines, and compounds of emerging concern including but not limited to PFAS and microplastics.
- OCSD will continue to advocate for federal policies that minimize regulatory burdens imposed upon communities and public agencies that seek to adopt programs for the giveback of pharmaceuticals that will result in the reduction of disposal of pharmaceuticals through wastewater treatment facilities. Additionally, OCSD will advocate for federal funding of programs currently authorized that support the development of pharmaceutical management programs including education.
- Support development of infrastructure policies and legislation that will close funding gaps and encourage direct grants assistance in support of projects and programs addressing resiliency needs that protect OCSD investments from natural disasters.
- Work with U.S. Department of Energy and EPA to identify and support efforts to secure funding assistance for OCSD energy-water nexus project demonstrations.
- Oppose EPA's reform to change the cellulosic biofuel value of the co-digestion of organics, which will lower Renewable Identification Number (RIN) credit.

State Priorities

- Secure funding through grants and legislation for infrastructure, collection improvements and alternative renewable energy at the Fountain Valley, Plant No. 1 and Huntington Beach, Plant No. 2.
- Promote a regional distribution/statewide equity approach to the disbursement of State Revolving Fund monies.
- Oppose legislation or any regulations that would mandate volumetric pricing of wastewater.
- Continue to monitor the state budget process and actively protect the allocation of local property taxes to special districts.
- Monitor state legislation as well as State Water Resources Control Board (SWRCB) regulatory activity related to PFAS.
- Work with legislators to address concerns stemming from Mobile Persistent Bioaccumulative Toxic substances (MPBTs) for example PFAS. Support funding opportunities for clean-up costs from the manufacturers of PFAS and through state grants and low-interest loans.

Orange County Sanitation District 2020 Legislative & Regulatory Plan

- Work with legislators who introduced legislation such as SB 163 (Hertzberg, 2015) and SB 332 (Hertzberg, 2019) to ensure that no unrealistic, one size fits all, regulations are placed on wastewater treatment facilities requirements for discharging, including OCSD.
- Oppose state mandates, regulations, or legislation such as AB 1217 (Daly, 2015) that set, alter, or otherwise
 modify the governance structure of special districts, joint powers authorities, or other local government
 entities.
- Support efforts to competitively seek funding for projects that meet the State's goals of expanded water supply and energy reduction.
- Where appropriate, pursue State funding for critical aging infrastructure, through funding sources made available through any agency including but not limited to the SWRCB and the Department of Water Resources.
- Support and participate in Integrated Regional Water Management planning efforts in the Santa Ana River watershed.
- Oppose restrictive and redundant regulatory requirements for biosolids.
- Support the creation of a Statewide Organics Management Plan that includes the beneficial use of biosolids, education, market expansion activities, and mandates to buy-back compost and other organics diverted from landfills.
- Support funding through grants and legislation for a Food Waste/Organic Co-Digestion facility at OCSD.
- Monitor pension reform legislation for clean-up bills and relevant proposed regulations.
- Support the State's efforts to increase the effectiveness and efficiencies of Local Agency Formation Commissions.
- Support efforts to reform the California Environmental Quality Act (CEQA) to streamline current procedures and regulations for projects to refurbish or replace existing infrastructure facilities.
- Actively monitor the Little Hoover Commission hearings and reports related to climate change adaptation, special districts and other topics as it relates to OCSD.
- Support the inclusion of recycled water credits during the development of long-term water conservation legislation and regulations.
- Support legislation or regulations that restrict the use of microplastics and chemicals of emerging concern in any product that is disposed of through the sewer system.
- Support legislation, such as AB 1672 (Bloom), or regulations that discourage the flushing of wipes through the sewer system, unless they meet certain performance standards.

Appendix

- a. Federal Tactics
- b. State Tactics
- c. Legislative and Regulatory Policies

Appendices

Appendix A

Federal Tactics				
Initiative	Action			
Identify and advise on federal funding opportunities for OCSD infrastructure projects	 Schedule meetings with federal agency stakeholders and senior officials in Washington D.C. and district offices to build support for OCSD priority projects; 			
	 Work with congressional delegation to update priority needs; and 			
	 Develop white papers to justify requested assistance through direct grants. 			
2. Seek funding assistance to advance recovery of energy and	 Meet with federal agency officials to discuss funding opportunities and options related to the energy water nexus; and 			
other resources from biosolids and other organics such as food waste	 Work with U.S. Environmental Protection Agency and other agencies to advance energy and water efficient technologies related to WaterSense grant program. 			
3. Seek Infrastructure assistance	Meet with congressional delegation;			
A. Robust funding of State Revolving Fund (SRF) and	 Develop priorities and disseminate to OCSD congressional delegation; 			
revise SRF Allocation Formula B. Innovative Financing C. Project Streamlining	 Advocate before congressional infrastructure committees and applicable Executive Branch officials to secure adoption of alternative water infrastructure financing including credit, loans, public-private-partnerships and grants in addition to direct grants assistance; 			
	 Work to secure legislation and policies that expedite the National Environmental Policy Act and related reviews and approvals; and 			

	 Work with Congress and U.S. Bureau of Reclamation on proposals to provide enhanced alternative water infrastructure financing tools.
4. Support tax reform that protects public agencies	 Work with NACWA and CASA in support of unrestricted use of tax- exempt financing and feasible innovative financing approaches such as infrastructure banks to supplement traditional funding approaches;
	 Work with state and local government stakeholders to restore state and local tax deductibility and advocate before congressional delegation; and
	 Submit testimony and transmit communications on tax-exempt financing and where possible present testimony.
5. Support resiliency legislation, regulations, and policies that support protection of OCSD investments and promote water and biosolids recycling assistance	 Work with delegation and regulators to ensure incorporation of new programs for water and biosolids recycling assistance;
	 Work with NACWA, CASA and ACWA to support resiliency water and biosolids recycling legislation and regulations; and
	 Work with congressional infrastructure committees to secure assistance for resiliency projects.
6. Work with federal agencies on permitting issues	 Work with U.S. Department of Energy on alternative energy permitting issues;
	 Work with U.S. Fish and Wildlife Service on environmental site assessment issues such as incidental take permits under ESA;
	 Advocate to authorize U.S. EPA to provide National Pollutant Discharge Elimination System (NPDES) permits terms for a period of up to 10- years.

Appendix B

Action
 Identify legislation that has the potential to benefit or impact OCSD, as legislation is introduced and amended;
 Identify proposed state and local regulations that are introduced that have the potential to benefit or impact OCSD;
 Recommend positions on identified legislation and proposed regulation to align with OCSD's legislative and regulatory plan;
 Create and continually update a legislative and regulatory matrix to track identified pieces of priority legislation and proposed regulations; and
 Schedule advocacy days in Sacramento with legislators and committee staff and regulators;
 Continue an active letter writing campaign to support or oppose priority legislation and proposed regulations;
 Schedule meetings with legislators, regulators, stakeholders, and senior officials in Sacramento and district offices to build support for OCSD priority projects; and
 Participate in CASA's legislative committees and Regulatory Workgroup and SCAP's air quality, water issues, collection systems, biosolids, and wastewater pretreatment committees.
 Meet with OCSD's Executive Management Team to discuss future capital projects and priorities, and
 Match capital improvements with funding opportunities based on project eligibility.
 Proactively engage in the drafting of grant funding guidelines and provide input to drafting agency or committee to ensure eligibility and competitiveness of OCSD projects and priorities;
 Proactively engage on proposed legislation and regulations that would have an impact on the implementation of funding programs; and
 Identify funding opportunities and provide recommendations for eligible projects. Create an advocacy and outreach schedule on the planning and execution of efforts to seek funds.

4. Monitor and advise on funding available through Cap and Trade	 Monitor the rollout of the Cap and Trade Expenditure Plan for waste diversion projects. Continue to advocate for additional funding in future Cap and Trade Expenditure Plans that OCSD is eligible for;
	 Identify eligible and competitive projects and programs; and
	 Create a schedule on planning and execution of efforts to seek funds, including outreach and advocacy strategy.
5. Monitor and advise on energy or other resource recovery related funding opportunities	 Track energy related grant opportunities;
	 Identify potential projects for funding, including, but not limited to alternative renewable energy, biosolids to energy conversion, organic waste (high strength food waste and fats, oils, and grease) to energy conversion, and greenhouse gas reduction projects;
	 Ensure wastewater interests are protected as significant decisions are made related to renewable energy production financing, mandates, climate change goals, programs and continued efforts to extend the state's emissions reduction target;
	 Schedule meetings with local delegation as well as key members to discuss project benefits and funding opportunity;
	 Support initiatives that help OCSD strive for energy independence by minimizing energy utilization and maximizing useful energy recovery from the sewage it receives;
	 Support fair and reasonable regulations for the pipeline injection of biomethane produced from anaerobic digestion; and
	 Support renewable energy initiatives that are reasonable and fair.
6. Schedule and attend advocacy and outreach meetings to provide OCSD project updates	 Educate current administration, key staff and agencies on priority projects and advocate for funding allocations that align with OCSD priorities;
	 Schedule stakeholder meetings to build support for projects;
	 Hold advocacy meetings in coordination with funding opportunities and project timelines;
	 Work with relevant budget committees, budget sub-committees, policy committees and their staff to advocate for funding allocations that align with OCSD priorities; and
	 Provide full briefings and updates to Orange County legislative delegation and relevant members on OCSD priority projects.
7. Regulatory relief to allow for water recycling and expansion of GWRS	 Outreach with the California Environmental Protection Agency, Department of Toxic Substances, State Water Resources Control Board, Regional Water Quality Control Board, the governor's office, legislative leadership and other appropriate stakeholders.
8. Development and advocacy for design-build legislation targeted at OCSD projects	 Support and advocate for legislation that will expand the approved uses of design-build for OCSD specific projects; and
	 Schedule briefings and updates with Orange County legislative delegation to discuss potential design build legislation.

Orange County Sanitation District 2020 Legislative & Regulatory Plan

9. Development and implementation of a statewide biosolids land application management policy	 Work in conjunction with CASA and SCAP to outreach and educate legislators and regulators to develop an advocacy strategy for regulatory framework that will support statewide objectives to manage biosolids land application.
10. Development and implementation of a strategy to relieve OCSD of cumbersome and outdated bid advertising costs	 Work with relevant legislators and committees to draft legislation that will lessen the cost burden on OCSD of complying with outdated bid advertising requirements; and
	 Conduct outreach with various other Sanitation Districts across the State to form a coalition to support any efforts.
11. Development and advocacy for legislation to raise the contracting and bid threshold for Sanitation Districts	 Meet with local labor groups to initially present the issue;
	 Brainstorm proposed solutions that will give OCSD and other Sanitation District's more flexibility to complete small scale public works projects in house;
	 Work in conjunction with CASA to outreach, educate, and develop an advocacy strategy that will target all Sanitation Districts affected by the current threshold limitations; and
	 Develop and advocate for legislation that will raise the threshold for work that can be performed in house as well as work that is required to be bid.

Appendix C

Legislative and Regulatory Policies

- **1. Air Quality:** OCSD is committed to complying with federal, state, and local air quality laws, rules, regulations, and policies.
 - a. Support air quality legislations, regulations, rules, and policies that emphasize the use of advanced technologies and promote greater flexibility and financial incentives to reduce air emission.
 - Support measures that maintain and enhance local decision-making authority, where appropriate, in the development and implementation of air quality attainment strategies.
 - c. Support legislation and regulations to ensure greater consistency between the California and Federal Clean Air Acts.
 - d. Support strategies that clearly demonstrate and provide for the most cost-effective means for meeting air quality goals.
 - e. Continue to commit to adhere to OCSD's odor policy to assure that OCSD is a good neighbor to the surrounding communities.
 - f. Monitor legislation and regulations that would mandate OCSD to act as an air quality regulator and enforcer.
 - g. Support legislation that would facilitate emission reduction credits for wastewater treatment plants.
 - h. Monitor State's proposed Advanced Clean Trucks (ACT) Regulation especially CARB's plans to accelerate zero- emissions heavy duty vehicle fleets and oppose regulation that would mandate fuel type restrictions.
 - Monitor SCAQMD's development of regulations and guidelines associated with AB 617 in the following areas: (1) implementation of best available retrofit control technology (BARCT) requirements for existing stationary sources; (2) deployment of air monitoring systems in selected communities; and (3) implementation of emissions reduction plans in selected communities.
 - j. Participate in CASA ACE and SCAP's effort to work with California Air Resources Board in development of new default emission factors for air toxics.
 - k. Monitor regulatory development in response to State's goal of achieving Carbon Neutrality.

- I. Support streamlined legislation, funding, regulations and policies that promote the beneficial use of the digester gas.
- m. Oppose redundant and unreasonable requirements, such as double reporting requirements, with respect to criteria pollutants, air toxics, or greenhouse gas emissions, including but not limited to reporting requirements associated with AB 617 (Garcia).
- **2. Biosolids and Biogas:** OCSD strives to beneficially use biosolids through multiple management options performed at reasonable costs that are protective of public health and the environment.
 - Support legislation, regulations and policies that support the beneficial use of biosolids on agricultural lands, landscape, horticulture, California Healthy Soils Initiatives, mine reclamation, fire ravaged lands, superfund sites, brownfields, overgrazed lands, carbon sequestration and wetland restoration.
 - b. Support the promotion and funding of local pilot programs, studies, and research for the beneficial use of biosolids.
 - c. Oppose legislation, regulations, and policies that imposes bans or restrictions on use of biosolids for land application in any region, county, or state.
 - d. Support alternative energy legislation, regulation and policies that encourage use of biosolids as a renewable energy resource.
 - e. Support streamlined legislation, regulations and policies that encourage the procurement of biogas, biosolids, and compost.
 - f. Support CalRecycle, California Air Resources Board (CARB), California Public Utilities Commission, (CPUC), California Energy Commission (CEC), California Department of Food and Agriculture (CDFA), and State Water Resources Control Board (SWRCB) accepting quality standards that allow wastewater treatment plants to inject biogas production into existing pipelines for renewable use.
 - g. Support composter associations and local cities and agencies in education, market expansion activities, and meeting mandates to buy-back compost and other organics diverted from landfills.
 - h. Limit redundant reporting requirements on organics, recyclable material, and solid waste.
- **3. Source Control:** OCSD supports legislative that reduces pollutants and harmful materials that could enter the sewer system.
 - a. Support statewide or targeted public education programs and initiatives that teach appropriate "What To Flush" practices and fats, oils, and grease management.
 - b. Support legislation and funding opportunities that aim to decrease the amount of microplastics and compounds of emerging concern deposited through the sewer system.
 - c. Support legislation that regulates the disposal of flushable wipes.

- d. Support legislation and funding mechanisms that reduce the amount of trash, waste, chemicals, and harmful organic material that enter the sewer system.
- **4. Grant Funding:** OCSD is committed to advancing the state of knowledge in the treatment and management of wastewater through the application of innovative and alternative technologies. To this end, OCSD supports grants assistance to offset its research, special projects and capital improvement projects.
 - a. Support legislation, bonds, programs and projects that provide funding for: infrastructure construction and rehabilitation, special studies and research or projects relating to security, environmental education, water quality, wastewater processing, urban runoff, wastewater recycling, biosolids and organics management, water quality improvement, resource recovery, or alternative energy.
 - b. Support projects that provide for public benefit over projects that are primarily intended for private benefit or gain.
 - c. Oppose proposals placing further requirements on grant recipients that return low value for high administrative costs.
 - d. Support regional collaboration and funding for public agencies for food waste co digestion and recycling projects.
- **5. Innovative Funding**: OCSD is committed to supporting programs that provide the highest quality services to its ratepayers.
 - a. Support programs to leverage federal assistance such as credit assistance and highly subsidized loan assistance.
 - b. Support Public-Private-Partnerships, Public to Public and other financing approaches that can reduce costs only if such projects do not impose costs on OCSD ratepayers.
 - c. Support the full funding of the Clean Water Act- State Revolving Fund Program at \$3 billion annually.
 - d. Seek federal assistance to support water conservation projects such as water recycling, green infrastructure through the Water Infrastructure Finance and Innovation Act (WIFIA) and direct grants to reduce project costs.
- **6. Labor Relations:** OCSD is committed to employer-employee relations including, but not limited to meeting and conferring in good faith with recognized employee organizations regarding the wages, hours of work and other terms and conditions of employment. As Congress considers reforming the federal tax code, many of the provisions subject to reform may impact labor relations.
 - a. Support measures to reform current workers compensation formulas that rely on a proportionate exposure formula.
 - b. Support health insurance reform that does not create additional financial burdens on special

Orange County Sanitation District 2020 Legislative & Regulatory Plan

districts.

- c. Support measures to ease applicability of the Fair Labor Standards Act (FLSA) on public agencies.
- d. Oppose any measure imposing compulsory and binding arbitration with respect to public employees.
- e. Oppose any measure that imposes upon local government mandated employee benefits that are more properly decided at the local bargaining table.
- f. Oppose efforts reducing local control over public employee disputes and imposing regulations on an outside agency.
- g. Oppose any measure granting public employees the right to strike.
- h. Oppose a new mandatory Social Security tax for public employers and public employees.
- 7. Security: OCSD is committed to the safety of all personnel, facilities, and the entire sewer system.
 - a. Support legislation that would create efficiencies around the retention policy of surveillance video for innocuous recordings.
 - b. Support funding for the hardening of essential regional facilities such as water recycling and sewer collection and recycling sites.
 - c. Support legislation and funding for regional emergency management collaboration to protect critical infrastructure.
- **8. Planning:** OCSD ensures the long-range planning of capital improvement programs in order to deliver the highest quality facilities.
 - a. Support reform of existing state, regional and local planning processes only if directly linked to reforms in the current revenue and tax structure of state and local governments.
 - b. Support measures that provide new revenues for growth management and the public facilities necessary to support expected growth.
 - c. Support proposals encouraging regional, sub-regional or countywide cooperation in planning urban development strategies, especially those that provide funding for effective implementation of agreed upon goals.
 - d. Oppose legislation consolidating special districts that fail to address the concerns of cities affected by the proposed consolidation.
 - e. Oppose measures that prevent or restrict the ability of cities or special districts to participate in the Southern California Association of Governments' (SCAG) sub-regional process.

- **9. Public Health:** Protection of public health is OCSD's core mission. OCSD will work cooperatively with county and state health officers to assure local health protection.
 - Support hazard mitigation, emergency response, planning, and recovery through direct legislation, policy directives, and funding toward floodplain security within the Santa Ana River watershed.
 - b. Support (generally) measures that provide for improved public health through regulation.
 - c. Support the protection of public health and environment through the construction and implementation of advanced wastewater treatment technology.
 - d. Support sharing critical information and data from state and county agencies in the interest of protecting the public health and saving taxpayer dollars.
 - e. Monitor legislation that provides additional occupational safety and health standard requirements for employees, contractors, or subcontractors.
- **10. Public Works:** OCSD is committed to the achievement of effective and efficient projects that provide wastewater treatment services that benefit its ratepayers.
 - a. Support measures that provide funding and support to publicly owned treatment works and sewage collection systems.
 - b. Support legislation and regulation that allow public agencies to procure goods and services in manners similar to private industry, thereby reducing overall costs of delivery.
 - c. Support legislation and regulation that improve the Utility Underground Service Alert Program in order to improve coordination, identification, minimize damage, minimize environmental risks, and minimize cost exposure to publicly owned facilities when contractors are performing subsurface work.
 - d. Support a comprehensive response to the state's electricity and natural gas shortages that provide a stable energy supply, respects the ability of municipalities to provide power, recognizes that infrastructure (i.e. emergency and standby generators) exists that could be employed temporarily during periods with minimal air quality impact and protects ratepayers (including cities and special districts) against dramatic rate increases and statewide power outages.
 - e. Support legislation and regulation that allow OCSD to utilize the Best Value Design/Build option for the construction of public works projects.
 - f. Oppose Buy American mandates legislation that would increase project costs or prevent the use of the most innovative technologies.
 - g. Monitor legislation that would require the inspection and possible repair of sewer laterals at the time of sale in residential, commercial, and industrial areas
 - h. Support legislation that allows OCSD to utilize Job Order Contracting to more efficiently contract for routine projects
 - i. Monitor legislation connected with government claims against special districts regarding risk and

- **11.** Tax Reform/Revenue and Taxation: Track pending legislation to ensure OCSD remains in compliance with the government code as it pertains to wastewater system user fees and property tax revenues and the investment of public funds.
 - a. Support measures leading to a greater financial independence from the state that would result in greater stability and predictability in local government budgeting.
 - b. Oppose measures that impose mandated costs for which there is no guarantee of local reimbursement or offsetting benefits.
 - c. Oppose legislation that shifts tax revenues away from local governments without the adequate provision of a constitutionally guaranteed backfill to offset the lost revenues of those local governments.
 - d. Oppose measures that shift existing local revenue sources back to the state, including the special district share of property tax, sales tax, vehicle license fees, and rate payer fees.
 - e. Oppose the use of revenues traditionally used to fund the delivery of municipal services to fund programs for which the state is responsible, particularly the courts, health, and welfare programs.
 - f. Oppose elimination or restriction of state and local tax deduction from federal tax liability of local taxpayers.
 - g. Oppose elimination or restriction on the availability of municipal tax-exempt financing for public infrastructure projects.
- **12. Special Districts:** OCSD supports the maintenance of special districts to provide specific services, in response to citizen's demands, in a cost-effective manner.
 - a. Support outreach to local, regional, and state elected officials to foster a greater understanding regarding the critical relationship between adequate reserves and the successful short-and-long-term operation of water and wastewater agencies.
 - b. Support the work of the Association of California Water Agencies (ACWA), California Association of Sanitation Agencies (CASA), and California Special Districts Association (CSDA) in any future discussions or negotiations pertaining to the legislative and budget issues relative to preserving control of members' reserves.
 - c. Oppose further state regulations that adversely impact special district financing, operations, and administration.
 - d. Oppose measures that create or grant powers to sub-regional or regional bodies that would result in an infringement on clearly local concerns.
 - e. Oppose any administrative or legislative efforts to access or transfer any reserve funds held by

water and wastewater districts.

- f. Oppose the imposition of unfunded, mandated programs on local governments.
- g. Oppose efforts that diminish OCSD's ability to govern efficiently and effectively, including expanding the size of the Board of Directors.
- h. Support alternate methods of public meetings notices that maintain transparency but are more cost efficient and technologically advanced
- **13. Water Quality and Supply:** OCSD is committed to participating collaboratively in the protection of regional water resources for the benefit of the people we serve.
 - a. Support (generally) measures to increase water supply and improve water quality in the region, including drought relief legislations and regulations.
 - b. Support measures that would increase funding for water reuse technologies, including support for the Groundwater Replenishment System project by the Orange County Water District and OCSD to create new water supplies through wastewater recycling.
 - c. Support measures that promote and provide for the use of reclaimed water.
 - d. Support policy development, funding, and research for addressing urban runoff, stormwater, and beach closures, including funding for studies that identify the sources of bacterial, viral and other microbial contaminants and human pathogens.
 - e. Support measures to evaluate water quality standards, as needed, to ensure the objectives are appropriately protecting the designated use.
 - f. Support legislation and regulation that would direct U.S. EPA levied fines to remain in the region.
 - g. Support measures addressing non-point source pollution in order to protect our ocean water quality and provide funding to mitigate its effects, including integrated permitting approaches that can reduce costs and achieve water quality improvements while allowing permits to be tailored to the needs of Orange County and its watershed.
 - h. Support national infrastructure policies that contain aspirational goal that promotes improved water use efficiency in construction of water efficient buildings and communities.
 - i. Support legislation and regulation that promote improved water use efficiency through state assistance in evaluating and implementing new programs and technologies and increasing public awareness of water use efficiency.
 - j. Support legislation and regulation that provide for the development of the watershed approach, including watershed management plans and watershed-based permitting.
 - k. Support legislation and regulation that necessitate the responsible use of water in residential, commercial, and industrial areas.

- I. Support environmental guidelines on government agencies that would safeguard the region while providing increased protections.
- m. Oppose the imposition of statewide fees for environmental cleanup that is caused through private sector actions or are regional in nature (e.g., when the nexus between those responsible for environmental abuse and those required to pay for cleanup or mitigation is absent).
- n. Support approaches to reduce compliance costs associated with stormwater controls including the use of integrated plans.
- o. Monitor state and federal legislation and regulations related to PFAS substances.



STEERING COMMITTEE

Administration Building 10844 Ellis Avenue Fountain Valley, CA 92708 (714) 593-7433

Agenda Report

FROM: James D. Herberg, General Manager

Originator: Lorenzo Tyner, Assistant General Manager

SUBJECT:

MEMORANDUM OF UNDERSTANDING WITH ORANGE COUNTY EMPLOYEES RETIREMENT SYSTEM REGARDING PAYMENT OF UNFUNDED ACTUARIAL ACCRUED LIABILITIES

GENERAL MANAGER'S RECOMMENDATION

RECOMMENDATION:

Adopt Resolution No. OCSD 19-20 entitled, "A Resolution of the Board of Directors of the Orange County Sanitation District authorizing the Execution of the Memorandum of Understanding with the Orange County Employees Retirement System establishing the terms to recognize and apply the Orange County Sanitation District's satisfaction of its Unfunded Accrued Actuarial Liability and deferred Unfunded Accrued Actuarial Liability.

BACKGROUND

On September 9, 2019 and November 1, 2019, the Orange County Sanitation District (Sanitation District) made an Unfunded Accrued Actuarial Liability (UAAL) payment totaling \$38,000,000 in its defined pension plan administered by the Orange County Employees Retirement System (OCERS), which paid off both the Sanitation District's UAAL and proportionate share of the deferred losses not yet recognized in the December 31, 2018 actuarial valuation (deferred investment loss). As a result of the Sanitation District paying off the UAAL, and making the additional payment on the deferred losses, OCERS' actuary recommended that a bookkeeping account be created because the deferred losses are not yet part of the UAAL as reported in the December 31, 2018 Actuarial Valuation. The bookkeeping account provides a mechanism to track the contributions made related to the deferred losses. The balance in the account will be used to offset UAAL as it is recognized in future valuations. The OCERS Board of Retirement approved the bookkeeping account at its October 21, 2019 meeting with direction to staff to memorialize the terms and conditions under which OCERS shall recognize and apply the balance in the new bookkeeping account in future valuations.

OCERS drafted a Memorandum of Understanding (MOU) that specifies how the contributions made by the Sanitation District will be accounted for by OCERS, including how interest will be applied and when balances in the bookkeeping account will be moved out of the account and become valuation assets to cover UAAL. The Sanitation District's General Counsel has reviewed the MOU and drafted Resolution No. OCSD 19-20, which if approved, authorizes the execution of the MOU between OCERS and the Sanitation District.

RELEVANT STANDARDS

Ensure the public's money is wisely spent

PROBLEM

There is currently no mechanism to track the contributions made related to the deferred losses. The balance in the account needs to offset the UAAL as it is recognized in future valuations.

PROPOSED SOLUTION

The bookkeeping account provides a mechanism to track the contributions made related to the deferred losses. The balance in the account will be used to offset UAAL as it is recognized in future valuations. The OCERS Board of Retirement approved the bookkeeping account at its October 21, 2019 meeting with direction to staff to memorialize the terms and conditions under which OCERS shall recognize and apply the balance in the new bookkeeping account in future valuations.

TIMING CONCERNS

OCERS approved the MOU at its October 21, 2019 Board meeting.

RAMIFICATIONS OF NOT TAKING ACTION

OCERS has no direction from the Sanitation District on an agreed upon procedure for tracking the UAAL contributions made by the Sanitation District related to the deferred investment losses as of December 31, 2018.

PRIOR COMMITTEE/BOARD ACTIONS

August 2019 - Board approved up to \$38 million pay-down against its UAAL with OCERS.

January 2017 - Board approved Resolution No. OCSD 17-01 entering into a MOU with OCERS Regarding Payment of Unfunded Actuarial Accrued Liabilities.

ATTACHMENT

The following attachment(s) are included in hard copy and may also be viewed on-line at the OCSD website (www.ocsd.com) with the complete agenda package:

- Resolution No. OCSD 19-20
- Exhibit "A" Memorandum of Understanding

RESOLUTION NO. OCSD 19-20

A RESOLUTION OF THE BOARD OF DIRECTORS OF THE ORANGE COUNTY SANITATION DISTRICT AUTHORIZING THE EXECUTION OF THE MEMORANDUM OF UNDERSTANDING WITH THE ORANGE COUNTY EMPLOYEES RETIREMENT SYSTEM ESTABLISHING THE TERMS TO RECOGNIZE AND APPLY THE ORANGE COUNTY SANITATION DISTRICT'S SATISFACTION OF ITS UNFUNDED ACCRUED ACTUARIAL LIABILITY AND DEFERRED UNFUNDED ACCRUED ACTUARIAL LIABILITY

WHEREAS, as a participating employer in the Orange County Employees Retirement System ("OCERS"), the Orange County Sanitation District ("Sanitation District") contributes to OCERS on an annual basis such contributions as OCERS determines are due and payable to OCERS from the Sanitation District, as an employer, to help fund the retirement and other benefits due to Sanitation District employees and their beneficiaries; and

WHEREAS, the Sanitation District's annual contributions as determined by OCERS are currently calculated as a percentage of pensionable payroll that includes both a normal contribution rate ("Normal Cost") and a rate that reflects the amortization of an unfunded accrued actuarial liability ("UAAL") attributable to the Sanitation District, pursuant to Government Code sections 31453 and 31453.5; and

WHEREAS, as of September 4, 2019, the total UAAL attributable to the Sanitation District was \$8,116,226; and

WHEREAS, as of December 31, 2018, an additional UAAL attributable to the Sanitation District on the books of OCERS totaled \$30,232,235 ("Deferred UAAL"), which amount has been deferred and is projected to be due and payable by the Sanitation District in amortizing installments commencing July 1, 2021; and

WHEREAS, the amortizing installments of Sanitation District's Deferred UAAL in any future year may be more or less than the total UAAL attributable to the Sanitation District in such future year ("Actual UAAL"); and

WHEREAS, as of November 1, 2019, the Sanitation District has contributed \$38,000,000 to OCERS in satisfaction of its UAAL and Deferred UAAL; and

WHEREAS, the Sanitation District and OCERS wish to enter into a Memorandum of Understanding ("MOU") to set forth the terms and conditions under which OCERS shall recognize and apply the Sanitation District's Contribution.

NOW, THEREFORE, the Board of Directors of Orange County Sanitation District, DOES HEREBY RESOLVE, DETERMINE, AND ORDER:

<u>Section 1</u>: The above recitals are true and correct and are incorporated herein by reference.

<u>Section 2</u>: That the Board Chairman is hereby authorized and directed to execute the Memorandum of Understanding as attached hereto as Exhibit "A".

Section 3: The Clerk of the Board shall certify to the adoption of this Resolution.

PASSED AND ADOPTED at a regular meeting of the Board of Directors held December 18, 2019.

	David John Shawver Board Chairman Orange County Sanitation District
ATTEST:	
Kelly A. Lore Clerk of the Board Orange County Sanitation District	
APPROVED AS TO FORM:	

Bradley R. Hogin
General Counsel
Orange County Sanitation District

STATE OF CALIFORNIA		
)	SS
COUNTY OF ORANGE)	

I, Kelly A. Lore, Clerk of the Board of Directors of the Orange County Sanitation District, do hereby certify that the foregoing <u>Resolution No. OCSD 19-20</u> was passed and adopted at a regular meeting of said Board on the 18th day of December 2019, by the following vote, to wit:

AYES: NOES:

ABSTENTIONS:

ABSENT:

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the official seal of Orange County Sanitation District this 18th day of December 2019.

Kelly A. Lore Clerk of the Board of Directors Orange County Sanitation District

MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding ("MOU") is entered into effective the 21st day of October, 2019, by and between the Orange County Employees Retirement System ("OCERS") and the Orange County Sanitation District ("District"), by and through the parties' respective governing bodies.

WHEREAS, OCERS is a multiple employer trust fund that provides retirement, disability and other benefits to the active, deferred and retired employees of the County of Orange, District and other participating employers, and their beneficiaries; and

WHEREAS, the Board of Retirement of OCERS has the sole, exclusive and plenary constitutional and statutory authority to administer the retirement system and invest the funds of the system for the benefit of its members and their beneficiaries; and

WHEREAS, as a participating employer in OCERS, District contributes to OCERS on an annual basis such contributions as OCERS determines are due and payable to OCERS from District, as an employer, to help fund the benefits referred to above; and

WHEREAS, District's annual contributions as determined by OCERS currently are calculated as a percentage of pensionable payroll that includes both a normal contribution rate ("Normal Cost") and a rate that reflects the amortization of an unfunded accrued actuarial liability attributable to District, pursuant to Government Code sections 31453 and 31453.5; and

WHEREAS, as of September 4, 2019, the total unfunded accrued actuarial liability attributable to the District ("UAAL") was \$8,116,226; and

WHEREAS, as of December 31, 2018, an additional unfunded accrued actuarial liability attributable to District on the books of OCERS totaled \$30,232,235 ("Deferred UAAL"), which amount has been deferred and is projected to be due and payable by the District in amortizing installments commencing July 2021; and

WHEREAS, the amortizing installments of District's Deferred UAAL in any future year may be more or less than the total unfunded accrued actuarial liability attributable to the District in such future year ("Actual UAAL"); and

WHEREAS, on or about September 4, 2019, the District contributed \$8,116,226 to OCERS in full satisfaction of its UAAL and accrued interest on the UAAL through the payment date ("UAAL Contribution") that is due and payable by District to OCERS as part of its total contribution for the period July 1, 2020 through and including June 30, 2021; and

WHEREAS, on or about November 1, 2019, the District plans to contribute \$29,883,774 towards the District's Deferred UAAL ("Deferred UAAL Contribution"); and

WHEREAS, on or about November 1, 2016, OCERS established a reserve account on its books and records (the "District Reserve Account") for the purpose of recording and accounting for Deferred UAAL contributions; and

WHEREAS, as of December 31, 2018, the balance in the District Reserve Account was \$0; and

WHEREAS, District and OCERS wish to enter into this MOU to set forth the terms and conditions under which OCERS shall recognize and apply District's UAAL Contribution and Deferred UAAL Contribution; and

WHEREAS, each of the governing bodies of OCERS and District has approved and accepted the terms and conditions of this MOU and has authorized its executive officer to execute this MOU on its behalf.

NOW THEREFORE OCERS and District agree as follows:

1. <u>Crediting of UAAL Contribution</u>. OCERS agrees to credit the UAAL Contribution toward District's UAAL as of December 31, 2018 plus accrued interest through the payment date. No portion of the UAAL Contribution shall be credited toward the Normal Cost portion of District's employer contribution for such period. OCERS shall further recognize the above credits in all financial statements and other reports prepared in accordance with generally accepted accounting principles and as required by the Government Accounting Standards Board. Upon being credited, these amounts shall be considered as "valuation assets" to be counted against the liabilities of District in calculating its share of future unfunded accrued actuarial liabilities.

2. Crediting of Deferred UAAL Contribution.

- A. OCERS shall credit the Deferred UAAL Contribution to the District Reserve Account.
- B. Commencing as of December 31, 2019 and annually thereafter until there is no remaining balance of funds in the District Reserve Account, OCERS shall transfer from the District Reserve Account into an account on OCERS' books and records that is used to record and account for cumulative employer contributions to OCERS for future retirement benefits of active and deferred members the amount necessary to satisfy the Actual UAAL attributed to District, as determined by OCERS pursuant to Government Code sections 31453 and 31453.5. The purpose of this transfer is to ensure that District's future annual employer contribution obligation to OCERS shall consist of either the Normal Cost portion only, or the Normal Cost and amortizing installments of only such amount of future Actual UAAL that exceeds the amount of funds remaining in the District Reserve Account.
- C. None of the moneys in the District Reserve Account shall be considered "valuation assets" on OCERS' books and records, and shall not be counted in

calculating District's share of future Actual UAAL, but shall be held and transferred only as described in this Paragraph 2.B.

- D. OCERS shall not credit any amount of the District Reserve Account to District's Normal Cost portion of its annual employer contribution at any time. District shall remain responsible for making its full Normal Cost contributions to OCERS as determined by OCERS from time to time.
- 3. <u>Commingling of Funds</u>. Upon crediting by OCERS, all amounts of the UAAL Contribution and the Deferred UAAL Contribution shall be commingled with all other funds and assets of the OCERS trust fund, to be administered, invested and disbursed within the sole, exclusive and plenary authority of the OCERS Board of Retirement, as provided by law. None of the UAAL Contribution or the Deferred UAAL Contribution shall remain property of District, nor shall any such funds be disbursed to or on behalf of District for any purpose other than the payment of benefits to OCERS' members and administrative and investment expenses of the retirement system.
- 4. <u>Crediting of Interest</u>. OCERS shall credit (or debit) interest to the District Reserve Account at the actual annual rate of return (or loss) experienced by the entire OCERS trust fund on a calendar year basis. Interest crediting (or debiting) for the calendar year shall occur on or before March 31 of each subsequent year, on the balance in the District Reserve Account as of December 31 of the immediately preceding year.
- 5. OCERS' Sole Right to Determine Contributions and Appropriations. Notwithstanding any provision in this MOU to the contrary, the parties acknowledge and agree that OCERS has the sole, exclusive and plenary authority to determine employer and employee contribution rates and appropriation amounts; that OCERS may change, amend or otherwise alter its practices and policies regarding the setting of contribution rates and amounts of appropriations to be made by its participating employers, including but not limited to District; and that District is obligated to make the contributions and appropriations required by OCERS, all as provided by law.

6. Additional Provisions.

- A. This MOU shall be governed by and interpreted under the laws of the State of California applicable to contracts made and to be performed entirely within the State.
- B. This MOU sets forth the entire agreement between OCERS and District with regard to the subject matter herein, and fully supersedes any and all prior agreements and understandings between them pertaining to the subject matter of this MOU. The parties agree that no change to or modification of this MOU shall be valid or binding unless it is in writing and signed by an authorized signatory for each of the parties.
- C. The language of all parts in this MOU shall be construed as a whole, according to its fair meaning, and not strictly for or against either party. Should

any provision in this MOU be declared or determined to be illegal or invalid, the validity of the remaining parts, terms, or provisions shall not be affected and the illegal or invalid part, term, or provision shall be deemed not to be part of this MOU, and all remaining provisions shall remain valid and enforceable. The parties further agree that in the event any provision of this MOU is held to be illegal or unenforceable, each will fully cooperate with the other to effectuate its purpose to conform the provision(s) to law.

- D. This MOU is deemed to have been drafted jointly by the parties. Any uncertainty or ambiguity shall not be construed for or against any party, since both parties have participated in the negotiations and drafting of this MOU.
- E. This MOU may be executed in one or more counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same instrument. Furthermore, signatures delivered via electronic transmission shall have the same force, validity and effect as the originals thereof.
- F. Should any dispute arise between the parties as to their respective rights and obligations under this MOU, the parties will make a good faith effort to resolve their differences informally and without resort to legal process. Should any such dispute remain unresolved after 90 days after one party notifies the other party in writing of the dispute (unless shortened or extended by mutual agreement of the parties), either party may commence legal action as provided by law to resolve the matter. In any such legal action, the prevailing party shall be entitled to an award of its reasonable attorneys fees and costs of suit.
- 7. <u>Term.</u> This agreement shall terminate and be of no further force or effect at such time as there is no remaining balance in the District Reserve Account.

WITNESS THE EXECUTION HEREOF on the day and year first hereinabove written.

ORANGE COUNTY SANITATION DISTRICT	ORANGE COUNTY EMPLOYEES' RETIREMENT SYSTEM		
ByAuthorized Signatory	ByAuthorized Signatory		
Name:	Name: STEVE DECANEY		
Title:	Title:CEO		
Dated:	Dated: _ October 22, 2019		



BOARD OF DIRECTORS

Administration Building 10844 Ellis Avenue Fountain Valley, CA 92708 (714) 593-7433

Agenda Report

FROM: James D. Herberg, General Manager

SUBJECT:

CONFERENCE WITH LEGAL COUNSEL RE ANTICIPATED LITIGATION - GOVERNMENT CODE SECTION 54956.9(D)(4)

RECOMMENDATION: Convene in Closed Session:

Number of Potential Cases: 1

Initiation of litigation regarding development fees and conditions at Project OCSD Headquarters Building: City of Fountain Valley

BACKGROUND

During the course of conducting the business set forth on this agenda as a regular meeting of the Board, the Chairperson may convene the Board in closed session to consider matters of pending real estate negotiations, pending or potential litigation, or personnel matters.

Reports relating to (a) purchase and sale of real property; (b) matters of pending or potential litigation; (c) employment actions or negotiations with employee representatives; or which are exempt from public disclosure under the California Public Records Act, may be reviewed by the Board during a permitted closed session and are not available for public inspection. At such time the Board takes final action on any of these subjects, the minutes will reflect all required disclosures of information.

RELEVANT STANDARDS

Government Code Sections 54956.8, 54956.9, 54957, or 54957.6, as noted

ATTACHMENT

The following attachment(s) are included in hard copy and may also be viewed on-line at the OCSD website (www.ocsd.com) with the complete agenda package:



MEMORANDUM

TO: Hon. Chair and Members of the Orange County Sanitation District Board of

Directors

FROM: Bradley R. Hogin, Esq.

General Counsel

DATE: December 9, 2019

RE: Closed Session Items

The Board of Directors desires to hold a closed session on December 18, 2019 for the purpose of conferring with its legal counsel regarding potential litigation. Based on existing facts and circumstances, the Board is deciding whether to initiate litigation against another party. The closed session will be held pursuant to the authority of California Government Code Section 54956.9(d)(4). The facts and circumstances are as follows: a dispute has arisen between the City of Fountain Valley and the District regarding fees and conditions that the City seeks to impose on the District's construction of a new headquarters building. In the view of the District, these fees and conditions are unlawful.

Respectfully submitted,

Bradley R. Hogin, General Counse



BOARD OF DIRECTORS

Administration Building 10844 Ellis Avenue Fountain Valley, CA 92708 (714) 593-7433

Agenda Report

FROM: James D. Herberg, General Manager

SUBJECT:

CONFERENCE WITH LEGAL COUNSEL RE ANTICIPATED LITIGATION - GOVERNMENT CODE SECTION 54956.9(D)(4)

RECOMMENDATION: Convene in Closed Session:

Number of Potential Cases: 1

Claim received from Shimmick Construction pertaining to Project No. J-117B - Outfall Low Pump Station Ocean Outfall System Rehabilitation

BACKGROUND

During the course of conducting the business set forth on this agenda as a regular meeting of the Board, the Chairperson may convene the Board in closed session to consider matters of pending real estate negotiations, pending or potential litigation, or personnel matters.

Reports relating to (a) purchase and sale of real property; (b) matters of pending or potential litigation; (c) employment actions or negotiations with employee representatives; or which are exempt from public disclosure under the California Public Records Act, may be reviewed by the Board during a permitted closed session and are not available for public inspection. At such time the Board takes final action on any of these subjects, the minutes will reflect all required disclosures of information.

RELEVANT STANDARDS

Government Code Sections 54956.8, 54956.9, 54957, or 54957.6, as noted

ATTACHMENT

The following attachment(s) are included in hard copy and may also be viewed on-line at the OCSD website (www.ocsd.com) with the complete agenda package:



MEMORANDUM

TO: Hon. Chair and Members of the Orange County Sanitation District Board of

Directors

FROM: Bradley R. Hogin, Esq.

General Counsel

DATE: December 10, 2019

RE: Closed Session Items

The Board of Directors desires to hold a closed session on December 18, 2019 for the purpose of conferring with its legal counsel regarding anticipated litigation. Existing facts and circumstances reflect a significant exposure to litigation against the District. The closed session will be held pursuant to the authority of California Government Code Section 54956.9(d)(4). The facts and circumstances are as follows: The District received a claim for damages from Shimmick Construction pertaining to Project No. J-117B – Outfall Low Pump Station Ocean Outfall System Rehabilitation.

Respectfully submitted,

Bradley R. Hogin, General Counsel



BOARD OF DIRECTORS

Administration Building 10844 Ellis Avenue Fountain Valley, CA 92708 (714) 593-7433

Agenda Report

FROM: James D. Herberg, General Manager

SUBJECT:

CONFERENCE WITH LEGAL COUNSEL RE ANTICIPATED LITIGATION - GOVERNMENT CODE SECTION 54956.9(D)(4)

RECOMMENDATION: Convene in Closed Session:

Number of Potential Cases: 1

Claim received from Terra Insurance Company pertaining to insurance requirements for Orange County Sanitation District Project No. PS17-03 - Active Fault Location Study at Plant No. 2

BACKGROUND

During the course of conducting the business set forth on this agenda as a regular meeting of the Board, the Chairperson may convene the Board in closed session to consider matters of pending real estate negotiations, pending or potential litigation, or personnel matters.

Reports relating to (a) purchase and sale of real property; (b) matters of pending or potential litigation; (c) employment actions or negotiations with employee representatives; or which are exempt from public disclosure under the California Public Records Act, may be reviewed by the Board during a permitted closed session and are not available for public inspection. At such time the Board takes final action on any of these subjects, the minutes will reflect all required disclosures of information.

RELEVANT STANDARDS

• Government Code Sections 54956.8, 54956.9, 54957, or 54957.6, as noted

ATTACHMENT

The following attachment(s) are included in hard copy and may also be viewed on-line at the OCSD website (www.ocsd.com) with the complete agenda package:



MEMORANDUM

TO: Hon. Chair and Members of the Orange County Sanitation District Board of

Directors

FROM: Bradley R. Hogin, Esq.

General Counsel

DATE: December 10, 2019

RE: Closed Session Items

The Board of Directors desires to hold a closed session on December 18, 2019 for the purpose of conferring with its legal counsel regarding potential litigation. Existing facts and circumstances reflect a significant exposure to litigation against the District. The closed session will be held pursuant to the authority of California Government Code Section 54956.9(d)(4). The facts and circumstances are as follows: The District received a claim for damages from Terra Insurance Company pertaining to insurance requirements for Orange County Sanitation District Project No. PS17-03.

Respectfully submitted,

Bradley R. Hogin, General Counsel



BOARD OF DIRECTORS

Administration Building 10844 Ellis Avenue Fountain Valley, CA 92708 (714) 593-7433

Agenda Report

FROM: James D. Herberg, General Manager

SUBJECT:

CONFERENCE WITH REAL PROPERTY NEGOTIATORS - GOVERNMENT CODE SECTION 54956.8

RECOMMENDATION: Convene in Closed Session:

Property: 18475 Bandilier Cir. Fountain Valley, CA - APN No.156-163-15;

Agency negotiators: General Manager, Jim Herberg; Assistant General Manager, Lorenzo Tyner;

Assistant General Manager, Rob Thompson; and Director of Engineering, Kathy Millea.

Negotiating parties: Sukut Real Properties II, LLC

Under negotiation: Price and terms of payment

BACKGROUND

During the course of conducting the business set forth on this agenda as a regular meeting of the Board, the Chairperson may convene the Board in closed session to consider matters of pending real estate negotiations, pending or potential litigation, or personnel matters.

Reports relating to (a) purchase and sale of real property; (b) matters of pending or potential litigation; (c) employment actions or negotiations with employee representatives; or which are exempt from public disclosure under the California Public Records Act, may be reviewed by the Board during a permitted closed session and are not available for public inspection. At such time the Board takes final action on any of these subjects, the minutes will reflect all required disclosures of information.

RELEVANT STANDARDS

• Government Code Sections 54956.8, 54956.9, 54957, or 54957.6, as noted

ATTACHMENT

The following attachment(s) are included in hard copy and may also be viewed on-line at the OCSD website (www.ocsd.com) with the complete agenda package:



MEMORANDUM

TO: Hon. Chair and Members of the Orange County Sanitation District Board of

Directors

FROM: Bradley R. Hogin, Esq.

General Counsel

DATE: December 11, 2019

RE: Closed Session Items

The Board of Directors desires to hold a closed session on December 18, 2019 for the purpose of conferring with its negotiators regarding the purchase of real property. The property is 18475 Bandilier Cir. Fountain Valley, APN No. 156-163-15. The District's negotiators are Jim Herberg, Lorenzo Tyner, Rob Thompson and Kathy Millea. Said closed session will be held pursuant to authority of California Government Code Section 54956.8.

Respectfully submitted,

Bradley R. Hogin, General Counsel

ORANGE COUNTY SANITATION DISTRICT COMMON ACRONYMS

ACWA	Association of California Water Agencies	LAFCO	Local Agency Formation Commission	RWQCB	Regional Water Quality Control Board
APWA	American Public Works Association	LOS	Level Of Service	SARFPA	Santa Ana River Flood Protection Agency
AQMD	Air Quality Management District	MGD	Million Gallons Per Day	SARI	Santa Ana River Interceptor
ASCE	American Society of Civil Engineers	MOU	Memorandum of Understanding	SARWQCB	Santa Ana Regional Water Quality Control Board
BOD	Biochemical Oxygen Demand	NACWA	National Association of Clean Water Agencies	SAWPA	Santa Ana Watershed Project Authority
CARB	California Air Resources Board	NEPA	National Environmental Policy Act	SCADA	Supervisory Control And Data Acquisition
CASA	California Association of Sanitation Agencies	NGOs	Non-Governmental Organizations	SCAP	Southern California Alliance of Publicly Owned Treatment Works
ссти	Closed Circuit Television	NPDES	National Pollutant Discharge Elimination System	SCAQMD	South Coast Air Quality Management District
CEQA	California Environmental Quality Act	NWRI	National Water Research Institute	SOCWA	South Orange County Wastewater Authority
CIP	Capital Improvement Program	O & M	Operations & Maintenance	SRF	Clean Water State Revolving Fund
CRWQCB	California Regional Water Quality Control Board	occog	Orange County Council of Governments	SSMP	Sewer System Management Plan
CWA	Clean Water Act	OCHCA	Orange County Health Care Agency	sso	Sanitary Sewer Overflow
CWEA	California Water Environment Association	OCSD	Orange County Sanitation District	SWRCB	State Water Resources Control Board
EIR	Environmental Impact Report	OCWD	Orange County Water District	TDS	Total Dissolved Solids
EMT	Executive Management Team	OOBS	Ocean Outfall Booster Station	TMDL	Total Maximum Daily Load
EPA	US Environmental Protection Agency	OSHA	Occupational Safety and Health Administration	TSS	Total Suspended Solids
FOG	Fats, Oils, and Grease	PCSA	Professional Consultant/Construction Services Agreement	WDR	Waste Discharge Requirements
gpd	gallons per day	PDSA	Professional Design Services Agreement	WEF	Water Environment Federation
GWRS	Groundwater Replenishment System	POTW	Publicly Owned Treatment Works	WERF	Water Environment & Reuse Foundation
ICS	Incident Command System	ppm	parts per million	WIFIA	Water Infrastructure Finance and Innovation Act
IERP	Integrated Emergency Response Plan	PSA	Professional Services Agreement	WIIN	Water Infrastructure Improvements for the Nation Act
JPA	Joint Powers Authority	RFP	Request For Proposal	WRDA	Water Resources Development Act

ORANGE COUNTY SANITATION DISTRICT GLOSSARY OF TERMS

ACTIVATED SLUDGE PROCESS – A secondary biological wastewater treatment process where bacteria reproduce at a high rate with the introduction of excess air or oxygen and consume dissolved nutrients in the wastewater.

BENTHOS – The community of organisms, such as sea stars, worms, and shrimp, which live on, in, or near the seabed, also known as the benthic zone.

BIOCHEMICAL OXYGEN DEMAND (BOD) – The amount of oxygen used when organic matter undergoes decomposition by microorganisms. Testing for BOD is done to assess the amount of organic matter in water.

BIOGAS – A gas that is produced by the action of anaerobic bacteria on organic waste matter in a digester tank that can be used as a fuel.

BIOSOLIDS – Biosolids are nutrient rich organic and highly treated solid materials produced by the wastewater treatment process. This high-quality product can be recycled as a soil amendment on farmland or further processed as an earth-like product for commercial and home gardens to improve and maintain fertile soil and stimulate plant growth.

CAPITAL IMPROVEMENT PROGRAM (CIP) – Projects for repair, rehabilitation, and replacement of assets. Also includes treatment improvements, additional capacity, and projects for the support facilities.

COLIFORM BACTERIA – A group of bacteria found in the intestines of humans and other animals, but also occasionally found elsewhere, used as indicators of sewage pollution. E. coli are the most common bacteria in wastewater.

COLLECTIONS SYSTEM – In wastewater, it is the system of typically underground pipes that receive and convey sanitary wastewater or storm water.

CERTIFICATE OF PARTICIPATION (COP) – A type of financing where an investor purchases a share of the lease revenues of a program rather than the bond being secured by those revenues.

CONTAMINANTS OF POTENTIAL CONCERN (CPC) - Pharmaceuticals, hormones, and other organic wastewater contaminants.

DILUTION TO THRESHOLD (D/T) – The dilution at which the majority of people detect the odor becomes the D/T for that air sample.

GREENHOUSE GASES (GHG) – In the order of relative abundance water vapor, carbon dioxide, methane, nitrous oxide, and ozone gases that are considered the cause of global warming ("greenhouse effect").

GROUNDWATER REPLENISHMENT SYSTEM (GWRS) – A joint water reclamation project that proactively responds to Southern California's current and future water needs. This joint project between the Orange County Water District and the Orange County Sanitation District provides 70 million gallons per day of drinking quality water to replenish the local groundwater supply.

LEVEL OF SERVICE (LOS) - Goals to support environmental and public expectations for performance.

N-NITROSODIMETHYLAMINE (NDMA) – A N-nitrosamine suspected cancer-causing agent. It has been found in the Groundwater Replenishment System process and is eliminated using hydrogen peroxide with extra ultra-violet treatment.

NATIONAL BIOSOLIDS PARTNERSHIP (NBP) – An alliance of the National Association of Clean Water Agencies and Water Environment Federation, with advisory support from the US Environmental Protection Agency. NBP is committed to developing and advancing environmentally sound and sustainable biosolids management practices that go beyond regulatory compliance and promote public participation to enhance the credibility of local agency biosolids programs and improved communications that lead to public acceptance.

PLUME – A visible or measurable concentration of discharge from a stationary source or fixed facility.

PUBLICLY OWNED TREATMENT WORKS (POTW) - A municipal wastewater treatment plant.

SANTA ANA RIVER INTERCEPTOR (SARI) LINE – A regional brine line designed to convey 30 million gallons per day of non-reclaimable wastewater from the upper Santa Ana River basin to the ocean for disposal, after treatment.

SANITARY SEWER – Separate sewer systems specifically for the carrying of domestic and industrial wastewater. Combined sewers carry both wastewater and urban runoff.

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD) – Regional regulatory agency that develops plans and regulations designed to achieve public health standards by reducing emissions from business and industry.

SECONDARY TREATMENT – Biological wastewater treatment, particularly the activated sludge process, where bacteria and other microorganisms consume dissolved nutrients in wastewater.

SLUDGE – Untreated solid material created by the treatment of wastewater.

TOTAL SUSPENDED SOLIDS (TSS) - The amount of solids floating and in suspension in wastewater.

TRICKLING FILTER – A biological secondary treatment process in which bacteria and other microorganisms, growing as slime on the surface of rocks or plastic media, consume nutrients in wastewater as it trickles over them.

URBAN RUNOFF – Water from city streets and domestic properties that carry pollutants into the storm drains, rivers, lakes, and oceans.

WASTEWATER – Any water that enters the sanitary sewer.

WATERSHED – A land area from which water drains to a particular water body. The Orange County Sanitation District's service area is in the Santa Ana River Watershed.