

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


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

AGENDA

**SPECIAL MEETING OF THE
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY
BOARD OF DIRECTORS**

Wednesday, August 31, 2016
2:00 a.m.

THE BOARD OF DIRECTORS MEETING ROOM IS WHEELCHAIR ACCESSIBLE. IF YOU REQUIRE ANY SPECIAL DISABILITY RELATED ACCOMMODATIONS (I.E. ACCESS TO AN AMPLIFIED SOUND SYSTEM, ETC.), PLEASE CONTACT THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY'S SECRETARY'S OFFICE AT 949-234-5421 AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO THE SCHEDULED MEETING. THIS AGENDA CAN BE OBTAINED IN ALTERNATE FORMAT UPON WRITTEN REQUEST TO THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY SECRETARY AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO THE SCHEDULED MEETING.

AGENDA ATTACHMENTS AND OTHER WRITINGS THAT ARE DISCLOSABLE PUBLIC RECORDS DISTRIBUTED TO ALL, OR A MAJORITY OF, THE MEMBERS OF THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY BOARD OF DIRECTORS IN CONNECTION WITH A MATTER SUBJECT TO DISCUSSION OR CONSIDERATION AT AN OPEN MEETING OF THE BOARD OF DIRECTORS ARE AVAILABLE FOR PUBLIC INSPECTION IN THE AUTHORITY OFFICE, 34156 DEL OBISPO STREET, DANA POINT, CA ("AUTHORITY OFFICE"). IF SUCH WRITINGS ARE DISTRIBUTED TO MEMBERS OF THE BOARD OF DIRECTORS LESS THAN 72 HOURS PRIOR TO THE MEETING, THEY WILL BE AVAILABLE IN THE RECEPTION AREA OF THE AUTHORITY OFFICE AT THE SAME TIME AS THEY ARE DISTRIBUTED TO THE BOARD OF DIRECTORS, EXCEPT THAT, IF SUCH WRITINGS ARE DISTRIBUTED IMMEDIATELY PRIOR TO, OR DURING, THE MEETING, THEY WILL BE AVAILABLE IN THE BOARD OF DIRECTORS MEETING ROOM.

1. **CALL MEETING TO ORDER**

2. **PLEDGE OF ALLEGIANCE**

3. **ORAL COMMUNICATIONS**

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

4. **CONSENT CALENDAR**

A. Minutes of Board of Directors Meeting August 4, 2016.....1

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

B. Minutes of Board of Directors Meeting June 28, 2016.....6

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

C. Minutes of Engineering Committee June 9, 2016.....9

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

D. Approval of Financial Matters.....16

ACTION: The Board will be requested to approve financial summaries for June 2016.

FISCAL IMPACT: Please refer to staff report.

- a) Summary of Disbursements – Exhibit A.....17
- b) Schedule of Funds Available for Reinvestment – Exhibit B.....18
- c) Schedule of Cash and Investments – Exhibit C.....19
- d) Capital Schedule – Exhibit D.....20
 - Capital Projects Graph – Exhibit D1.....21
- e) Budget vs. Actual Expenses:
 - Operations and Environmental Summary – Exhibit E1.....22
 - Residual Engineering, after transfer to Capital – Exhibit E2.....24
 - Administration and Other Consolidated Expenses – Exhibit E3.....25
 - Information Technology (IT) Exhibit E4.....26

E. Operations Reports.....27

- 1) Monthly Operational Report – July 2016.....29
- 2) Ocean Outfall Discharges by Agency.....36
- 3) Beach/Ocean Monitoring Report.....38
- 4) Recycled Water Report.....59
- 5) Pretreatment Report.....63

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

FISCAL IMPACT: None.

F. Capital Improvement Program Status Report.....66

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

FISCAL IMPACT: None.

Project Committee No. 2

G. Change Order – Gateway Pacific Construction Contract [PC2].....79

ACTION: The Board will be requested to approve Change Order 32 to the construction contract with Gateway Pacific for the J.B. Latham Treatment Plant facility Improvements Packages ‘A’ and ‘C’ Project.

FISCAL IMPACT: Refer to staff report.

Project Committee No. 3A

H. Change Order – SS Mechanical Construction Contract [PC3A].....83

ACTION: The Board will be requested to approve Change Orders 10 and 11 to the construction contract with SS Mechanical for the Plant 3A Miscellaneous Improvements 2015 Project.

FISCAL IMPACT: Refer to staff report.

Project Committee No. 17

I. Change Order – Pacific Hydrotech Construction Contract [PC17].....86

ACTION: The Board will be requested to approve Change Orders 4 and 5 to the construction contract with Pacific Hydrotech for the Regional Treatment Plant Cogeneration and Switchgear Upgrade Project.

FISCAL IMPACT: Refer to staff report.

5. ENGINEERING MATTERS

A. Award of Contract – V & A Consulting Engineers [PC15].....89

ACTION: The Board will be requested to approve the award of engineering services contract to V & A Consulting Engineers at a fee of \$83,893.

FISCAL IMPACT: Refer to staff report.

B. Award of Contract – V & A Consulting Engineers [PC17].....94

ACTION: The Board will be requested to approve the award of engineering services contract to V & A Consulting Engineers at a fee of \$118,517.

FISCAL IMPACT: Refer to staff report.

C. Award of Contract – Pacific Hydrotech [PC17].....99

ACTION: The Board will be requested to the award of construction contract to Pacific Hydrotech at a price of \$1,451,200.

FISCAL IMPACT: Refer to staff report.

6. GENERAL MANAGER’S REPORT

A. Letter of Support for Arundo Eradication Project.....108

ACTION: The Board will be requested to receive and file letter of support for the Arundo Eradication Project

FISCAL IMPACT: Refer to staff report.

B. Employee Suggestion Award Program.....111

ACTION: The Evaluation Committee and Personnel Department recommends that the Board of Directors approve the maximum award amount of \$1,000 in accordance with the Employee Suggestion Award Program. The General Manager seeks the concurrence of the Board in issuing the \$1000 award in recognition of this successful project.

FISCAL IMPACT: Refer to staff report.

C. SOCWA's Management Discussion and Analysis of FY 2015-16.....120

ACTION: The Board will be requested receive and file as information item only.

FISCAL IMPACT: Refer to staff report.

D. Selection of Real Estate Valuation Firm.....123

ACTION: The Board will be requested receive and file as information item only.

FISCAL IMPACT: Refer to staff report.

E. General Manager's Status Report.....125

ACTION: The Board will review the General Manager's Status Report:
• Board Questions
• Receive and file

FISCAL IMPACT: Refer to staff report.

7. CLOSED SESSION

A. Closed Session will be conducted under Government Code Section 54956.9 for the following purpose:

POTENTIAL LITIGATION – IN 1 MATTER

Pursuant to Government Code Section 54956.9 a Closed Session will be conducted to confer with legal counsel RE: potential litigation in 1 matter.

8. OTHER MATTERS

A. Open discussion or items received too late to be agendized.

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

9. ADJOURNMENT

NOTE - THE NEXT REGULAR SOCWA BOARD MEETING WILL BE HELD AT
8:30 A.M. ON OCTOBER 6, 2016

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

Board of Directors

August 4, 2016

The Regular Meeting of the South Orange County Wastewater Authority (SOCWA) Board of Directors was held on Thursday, August 4, 2016 at 8:30 a.m. at the Administrative Offices located at 34156 Del Obispo Street, Dana Point, California. The following members of the Board of Directors were present:

MIKE DUNBAR, Emerald Bay Water District	Director
SCOTT GOLDMAN, El Toro Water District	Director
RAY MILLER, City of San Juan Capistrano	Director
JOONE LOPEZ, Moulton Niguel Water District	Director
DOUG REINHART, Irvine Ranch Water District	Director [exit 10:45 a.m.]
TONI ISEMAN, City of Laguna Beach	Vice Chairman
DAN FERONS, Santa Margarita Water District	Chairman
RICK ERKENEFF, South Coast Water District	Director
STEPHAN DOPUDJA, Trabuco Canyon Water District	Director
BILL CAMERON, City of San Clemente	Director [exit 10:10 a.m.]

Staff present:

BETTY BURNETT	General Manager/Secretary
PAT GIANNONE	Bowie, Arneson, Wiles & Giannone
BRIAN PECK	Director of Engineering
BRENNON FLAHIVE	Environmental Compliance Administrator
JIM BURROR	Director of Operations
MARY CAREY	Finance Controller
DINA ASH	Human Resource Analyst
TERI NOSON	Executive Assistant/Assistant Secretary

Also present:

DONALD FROELICH	Moulton Niguel Water District
TREVOR AGRELIUS	Moulton Niguel Water District
MATT COLLINGS	Moulton Niguel Water District
FRED ADJARIAN	El Toro Water District
BOB HILL	El Toro Water District
HECTOR RUIZ	Trabuco Canyon Water District
ANDY BRUNHART	South Coast Water District
BILL GREEN	South Coast Water District
JIM REED	Irvine Ranch Water District
DAVE REBENDSORF	City of San Clemente
SANDRA JACOBS	Santa Margarita Water District
JUSTIN MCCUSKER	Santa Margarita Water District

Chairman Ferons called the meeting to order at 8:35 a.m. and welcomed everyone present. Director Iseman led the Pledge of Allegiance to the Flag of the United States of America.

Oral Comments

Chairman Ferons asked if members of the public desired to address the Board, or desired to reserve addressing the Board during the meeting regarding any item the Agenda. No comments were received.

Ms. Burnett introduced the new SOCWA webpage and provided a brief presentation highlighting the new features and ease of navigation of the webpage.

ACTION TAKEN

No action required.

Consent Calendar

Chairman Ferons referenced the items under the Consent Calendar and asked if there were any questions or comments.

ACTION TAKEN

Motion was made by Director Goldman and seconded by Director Miller to approve the items under the consent calendar.

Motion carried: Aye 10; Nay 0; Abstain 0; Absent 0

Chairman Ferons	Aye
Director Goldman	Aye
Director Ray Miller	Aye
Director Lopez	Aye
Director Reinhart	Aye
Vice Chairman Iseman	Aye
Director Dunbar	Aye
Director Erkeneff	Aye
Director Dopudja	Aye
Director Cameron	Aye

Aliso Creek and San Juan Creek Ocean Outfalls Emergency Response Plan – Award of Engineering Service Contract to Black & Veatch [PC5 & 24]

ACTION TAKEN - Project Committee No. 5

Motion was made by Director Cameron and seconded by Director Erkeneff to approve the award of engineering services contract to Back & Veach at a fee of \$74,700.

Motion carried: Aye 5; Nay 0; Abstain 0; Absent 0

Chairman Ferons	Aye
Director Miller	Aye
Director Lopez	Aye
Director Erkeneff	Aye
Director Cameron	Aye

ACTION TAKEN - Project Committee No. 24

Motion was made by Director Reinhart and seconded by Director Iseman to approve the award of engineering services contract to Black & Veach at a fee of \$74,700.

Motion carried: Aye 6; Nay 0; Abstain 0; Absent 0

Director Goldman	Aye
Director Lopez	Aye
Director Reinhart	Aye
Vice Chairman Iseman	Aye
Director Dunbar	Aye
Director Erkeneff	Aye

The Chairman adjourned the Board meeting for a 10 minute recess at 9:45 a.m. The Board meeting reconvened at 9:55 a.m.

SOCWA Policies on Agency Representation via Weighted Voting

ACTION TAKEN

Motion was made by Director Reinhart and seconded by Director Lopez to direct staff to setup a Special Board of Directors Workshop to discuss the SOCWA JPA Agreement, agency representation and weighted voting with facilitator Michele Tamayo of Tamayo Group, Inc.

Motion carried: Aye 10; Nay 0; Abstain 0; Absent 0

Chairman Ferons	Aye
Director Goldman	Aye
Director Ray Miller	Aye
Director Lopez	Aye
Director Reinhart	Aye
Vice Chairman Iseman	Aye
Director Dunbar	Aye
Director Erkeneff	Aye
Director Dopudja	Aye
Director Rebensdorf	Aye

Ms. Giannone reported that due to a potential conflict of interest Director Dopudja would be recusing himself from the discussion and consideration of the SOCWA Administrative Costs Service Proposals. Director Dopudja exited the Board room at 10:26 a.m.

SOCWA Administrative Costs – Next Steps – Service Proposals

ACTION TAKEN

Motion was made by Director Lopez and seconded by Director Goldman to table the SOCWA Administrative Costs Service Proposals Agenda Item for consider at the Board of Directors Workshop.

Motion carried: Aye 8; Nay 0; Abstain 0; Absent 2

Chairman Ferons	Aye
Director Goldman	Aye
Director Ray Miller	Aye
Director Lopez	Aye
Director Reinhart	Absent
Vice Chairman Iseman	Aye
Director Dunbar	Aye
Director Erkeneff	Aye
Director Dopudja	Absent
Director Rebensdorf	Aye

Director Dopudja reentered the Board room at 10:36 a.m.

Biosolids Management Program Status Report

ACTION TAKEN

Information item only, no action taken.

General Manager's Report

Ms. Burnett provided a brief summary of the General Manager's Report as submitted. An open discussion ensued.

ACTION TAKEN

There being no objection Chairman Ferons directed that the General Manager's Status Report be received and filed.

Other Matters

Chairman Ferons asked if there were any more questions or comments from the Board. No comments were received.

Adjournment

There being no further business, Chairman Ferons adjourned the meeting at 10:45 a.m.

I HEREBY CERTIFY that the foregoing Minutes are a true and accurate copy of the Minutes of the Regular Meeting of the South Orange County Wastewater Authority Board of Directors of August 4, 2016, and approved by the Board of Directors of the South Orange County Wastewater Authority.

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

**SUMMARY OF BOARD ACTIONS
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY**

August 4, 2016

<u>DESCRIPTION</u>	<u>MOTION MADE BY</u>	<u>ACTION</u>
Consent Calendar	Goldman	Approved
Alison & San Juan Creek Creek Ocean Outfalls Emergency Response Plan- Award of Contract to Black & Veach Project Committee No. 5	Cameron	Approved
Project Committee No. 24	Reinhart	Approved
SOCWA Policies on Agency Representation via Weighted Voting	Lopez	Approved
SOCWA Administrative Costs Next Steps Service Proposals	Lopez	Tabled

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

Board of Directors

June 28, 2016

The Regular Meeting of the South Orange County Wastewater Authority (SOCWA) Board of Directors was held on Tuesday, June 28, 2016 at 10:30 a.m. at the Administrative Offices located at 34156 Del Obispo Street, Dana Point, California. The following members of the Board of Directors were present:

MIKE DUNBAR, Emerald Bay Water District	Director
FRED ADJARIAN, El Toro Water District	Alternate Director
RAY MILLER, City of San Juan Capistrano	Director
JOONE LOPEZ, Moulton Niguel Water District	Director
PAUL COOK, Irvine Ranch Water District	Alternate Director
TONI ISEMAN, City of Laguna Beach	Vice Chairman
DAN FERONS, Santa Margarita Water District	Chairman
RICK ERKENEFF, South Coast Water District	Director
STEPHAN DOPUDJA, Trabuco Canyon Water District	Director
BILL CAMERON, City of San Clemente	Director [arrival 10:34 a.m.]

Staff present:

BETTY BURNETT	General Manager/Secretary
PAT GIANNONE	Bowie, Arneson, Wiles & Giannone
BRIAN PECK	Director of Engineering
BRENNON FLAHIVE	Environmental Compliance Administrator
JIM BURROR	Director of Operations
MARY CAREY	Finance Controller
DINA ASH	Human Resource Analyst
TERI NOSON	Executive Assistant/Assistant Secretary

Also present:

DENNIS CAFFERTY	El Toro Water District
DENNIS ERDMAN	South Coast Water District
DAVID SHISSLER	City of Laguna Beach

Chairman Ferons called the meeting to order at 10:30 a.m. and welcomed everyone present. Director Miller led the Pledge of Allegiance to the Flag of the United States of America.

Oral Comments

Chairman Ferons asked if members of the public desired to address the Board, or desired to reserve addressing the Board during the meeting regarding any item the Agenda.

No comments were received.

ACTION TAKEN

No action required.

Consent Calendar

Chairman Ferons referenced the items under the Consent Calendar and asked if there were any questions or comments.

ACTION TAKEN

Motion was made by Director Cook and seconded by Director Iseman to approve the items under the consent calendar.

Motion carried: Aye 10; Nay 0; Abstain 0; Absent 0

Chairman Ferons Aye

Director Adjarian	Aye
Director Miller	Aye
Director Lopez	Aye
Director Cook	Aye
Vice Chairman Iseman	Aye
Director Dunbar	Aye
Director Erkeneff	Aye
Director Dopudja	Aye
Director Cameron	Aye

Resolution No. 2016-05 – Approval of Fiscal Year 2016/2017 Operating & Capital Improvement Budget

ACTION TAKEN

Motion was made by Director Erkeneff and seconded by Director Dunbar to approve Fiscal Year 2016/2017 Operating and Capital budget Resolution No. 2016-05 as submitted and under the current allocation; and, to consider for discussion a change in the weighted vote option at a subsequent Board meeting.

Motion carried: Aye 9; Nay 1; Abstain 0; Absent 0

Chairman Ferons	Aye
Director Adjarian	Aye
Director Ray Miller	Aye
Director Lopez	Nay
Director Cook	Aye
Vice Chairman Iseman	Aye
Director Dunbar	Aye
Director Erkeneff	Aye
Director Dopudja	Aye
Director Cameron	Aye

Update on Allocation Working Group

ACTION TAKEN

Information item, no action required.

Other Matters

Chairman Ferons asked if there were any more questions or comments from the Board. No comments were received.

Adjournment

There being no further business, Chairman Ferons adjourned the meeting at 11:38 a.m.

I HEREBY CERTIFY that the foregoing Minutes are a true and accurate copy of the Minutes of the Special Meeting of the South Orange County Wastewater Authority Board of Directors of June 28, 2016, and approved by the Board of Directors of the South Orange County Wastewater Authority.

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

**SUMMARY OF BOARD ACTIONS
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY**

June 28, 2016

<u>DESCRIPTION</u>	<u>MOTION MADE BY</u>	<u>ACTION</u>
Consent Calendar	Cook	Approved
Resolution No. 2016-05 Fiscal Year 2016/2017 Operating & Capital Improvement	Erkeneff	Approved

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

Engineering Committee

June 9, 2016

The Regular Meeting of the South Orange County Wastewater Authority (SOCWA) Board of Directors was held on Thursday, June 9, 2016, at 8:30 a.m. at their Administrative Offices located at 34156 Del Obispo Street, Dana Point, California. The following members present:

MARC SERNA	Moulton Niguel Water District
ANDY BRUNHART	South Coast Water District
MIKE MARQUIS	City of San Juan Capistrano
DENNIS CAFFERTY	El Toro Water District
DON BUNTS	Santa Margarita Water District [exit 9:25 a.m.]

Absent:

KEVIN BURTON	Irvine Ranch Water District
DAVE REBENSORF	City of San Clemente
HECTOR RUIZ	Trabuco Canyon Water District
MICHAEL DUNBAR	Emerald Bay Service District
DAVID SHISSLER	City of Laguna Beach

Staff present:

BRIAN PECK	Director of Engineering
CHUCK WINSOR	Engineering Consultant
JIM BURROR	Director of Operations
BRENNON FLAHIVE	Environmental Compliance Administrator

Mr. Peck called the meeting to order at 8:33 a.m. and welcomed everyone present.

Public Comments

Mr. Peck asked if members of the public desired to address the Engineering Committee or desired to reserve addressing the Engineering Committee during the meeting regarding any item on the Agenda. No comments were received.

ACTION TAKEN:

No action required.

Review/Approval of Meeting Minutes – April and May 2016

ACTION TAKEN:

Motion was made by Mr. Cafferty and seconded by Mr. Serna to approve the April 14, 2016, and May 12, 2016, Engineering Committee Meeting minutes as submitted.

Motion carried:	Aye 3; Nay 0; Abstain 2; Absent 5
Marc Serna	Aye
Andy Brunhart	Abstain
Mike Marquis	Aye
Michael Dunbar	Absent
David Shissler	Absent
Dennis Cafferty	Aye
Don Bunts	Abstain
Kevin Burton	Absent
Dave Rebensdorf	Absent
Hector Ruiz	Absent

Operations Report

DISCUSSION:

Mr. Burror presented the operations report:

ACTION TAKEN:

No action was necessary for this item.

Outfall Emergency Planning Proposal Review (Project Committees 5 and 24)

DISCUSSION:

Mr. Peck reviewed the scope for the proposed project to update the ocean outfall emergency planning. Mr. Peck noted that both Black & Veatch and Carollo Engineers had been contacted regarding proposing on the work; Black & Veatch and Carollo Engineers are the two firms that have worked on SOCWA's ocean outfalls over the past 10 years. Carollo had opted not to submit a proposal due to the current commitment of their outfall staff members. Mr. Peck reviewed the proposed hours and fees for the Black & Veatch proposal. Several Engineering Committee members commented that while the fee seemed appropriate Black & Veatch had too much time involved in the administration effort rather than the technical portion of the project. The Engineering Committee members did feel that the project had been fairly competed as the opportunity to propose had been offered to Carollo.

ACTION TAKEN:

The present Project Committee No. 5 & 24 members recommended for consideration to the Board of Directors the award of contract to Black & Veatch Corporation for the emergency

plan development for Ocean Outfall repairs subject to Black & Veatch reallocating their labor hours.

J. B. Latham Treatment Plant Facility Improvements Packages A/C Construction Project Update (Project Committee 2)

DISCUSSION:

Mr. Peck noted that the J. B. Latham Treatment Plant Facilities Improvement Packages A/C construction project remains on schedule.

Mr. Peck presented three change orders to the Gateway Pacific contract. Change Order No. 28 involved the replacement of the power feed cable from MCC 'M' to the new Plant 2 Switchboard. The existing 600 MCC cable was to have been reused; however the insulation on the cable was found to have deteriorated. The cost of Change Order No.28 is \$10,540.65.

Change Order No.29 involved the replacement of corroded sludge and water pipelines below walkway. The removal of concrete walkway exposed corroded piping systems that required replacement. The cost of Change Order No. 29 is \$36,774.30.

Change Order No.30 involved the repair of pipeline corrosion at the Effluent Pump Station. The project scope included replacement of cracked pipe supports at Effluent Pump Station; after removal of concrete the underside of the piping was found to have become corroded. The cost of Change Order No. 30 is \$5,939.95.

ACTION TAKEN:

The present Project Committee No. 2 members recommended Change Orders 28, 29 and 30 to the construction contract with Gateway Pacific for the J.B. Latham Treatment Plant Facility Improvements Packages A/C Project for action by the Board of Directors.

J. B. Latham Treatment Plant Facility Improvements Packages B Update (Project Committee 2)

DISCUSSION:

Mr. Peck reviewed three proposed change orders to the Carollo contract for the Package "B" evaluation. Change Order No.5 involved a refinement of the Title 22 layout. The previously completed work involved an effluent management option that would treat 6.2 mgd to produce Title 22 quality effluent. The amendment is a modification to that layout that would include microfiltration modules installed within one aeration basin and all other system components are installed within a new building. extended condition assessment to cover the aeration basins. The cost of Change Order No.5 is \$9,461.00.

Change Order No.6 involves modifying the existing tankage for wet weather events. Added work includes (1) assessing the viability of this type of operation by determining general operational changes required and potential challenges associated with this operating mode; (2) making suggestions for operational and analytical efforts that could be undertaken by SOCWA

in upcoming wet-weather seasons to determine if this operating mode could be feasible; and (3) organize and attending a site visit to a facility that operates primarily only under wet-weather conditions. The cost of Change Order No.6 is \$15,574.00.

Change Order No.7 involves investigating innovative digestion processes. The original project scope was based on an assumption that a new Digester No. 5 would be required. Two innovative processes, CNP's PONDUS and Anaergia's Omnivore, may increase the capacity of existing digesters to an extent that eliminates the need for another digester. This task will conduct high-level exploration of both technologies to assess viability at JBLTP, potential impacts on digestion volume required, and order-of-magnitude costs. The cost of Change Order No.7 is \$7,410.00.

ACTION TAKEN:

The Project Committee No. 2 Engineering Committee members recommended Change Orders 5, 6 and 7 to the engineering contract with Carollo Engineers for the development of the J.B. Latham Treatment Plant Package 'B' Facility Improvements for presentation to the SOCWA Board of Directors.

Plant 3A Primary Treatment Upgrade Construction Project Review (Project Committee 3A)

DISCUSSION:

Mr. Peck noted that the work in Primary Sedimentation Basins No.1 and No.2 had been completed.

Mr. Peck presented two change orders to the S.S. Mechanical contract. Change Order No. 8 involved the launder repair in Primary Sedimentation Basin No.1. This included the welding of new end plates on launders to address corrosion surfaces found after sand blasting. The launder hangers were cut and reattached to new anchors plates to address corrosion on launder supporting ells. The cost of Change Order No.8 is \$20,615.00.

Change Order No. 9 involved the same work as Change Order No.8 except that the work had taken place in Primary Sedimentation Basin No.2. The cost of Change Order No.9 is \$5,358.00.

ACTION TAKEN:

The present Project Committee No. 3A members recommended Change Orders 8 and 9 to the construction contact with S.S. Mechanical for the Plant 3A Miscellaneous Improvements 2015 Project for action by the Board of Directors.

Regional Treatment Plant Underground Piping Reconstruction Preliminary Design Request for Proposals Review (Project Committee 17)

DISCUSSION:

Mr. Peck presented the draft Request for Proposals (RFP) that will address the development of a series of design packages to replace underground piping at the Regional Treatment Plant (RTP) ranging in pipe diameter from 1-inch to 12-inches. The project also includes the final design of drainage improvement to keep storm flows on the plant site. The latter element was requested by SOCWA's Environmental Compliance Department.

ACTION TAKEN:

No action necessary. Engineering Committee members should contact Mr. Peck with any proposed changes to the RFP by June 23, 2016.

Regional Treatment Plant Miscellaneous Improvements 2014 Construction Project Review (Project Committee 17)

DISCUSSION:

Mr. Peck noted that the work was nearing completion; substantial completion is expected in July.

Mr. Peck presented Change Order No.12 to the Pascal & Ludwig contract. Change Order No. 12 involved the repair of corrosion damage to the Secondary Clarifier No. 4 sludge collector mechanism. The work included removal of corroded steel, suction arms and scum collector; replacement of the top 6 inches of the influent well; and removal /replacement of the suction arm blades. The cost of Change Order No.12 is \$24,283.00.

ACTION TAKEN

The present Project Committee No. 17 members recommended Change Order 12 to the construction contract with Pascal & Ludwig Constructors for the Regional Treatment Plant Miscellaneous Improvements 2014 Project for action by the Board of Directors.

Regional Treatment Plant Cogeneration Upgrade Construction Project Review (Project Committee 17)

DISCUSSION:

Mr. Peck reported on the status of the project. Pacific Hydrotech is nearing completion on the digester recoating. All parties are still awaiting the Southern California Edison (SCE) revised design for the new service.

ACTION TAKEN:

No action necessary at this time.

Condition Assessment Request for Proposals (Project Committees 15 and 17)

DISCUSSION:

Mr. Winsor presented the draft Request for Proposals (RFP) that will include four separate condition assessments at the Coastal Treatment Plant (CTP) and the Regional Treatment Plant (RTP). Mr. Serna requested that these items be broken into separate RFP's for the CTP and the RTP. Mr. Peck agreed.

Mr. Peck noted that it was planned to distribute the RFP to three different firms: MWH; V&A Consultants; and HDR Engineering. If any of the Engineering Committee members wish to add any consulting firms to the distribution list they should contact Mr. Peck.

ACTION TAKEN:

No action necessary. Engineering Committee members should contact Mr. Peck with any proposed changes to the RFP by June 23, 2016.

Coastal Treatment Plant Miscellaneous Improvements 2015 Construction Project Review (Project Committee 15)

DISCUSSION:

Mr. Peck noted that (1) the fire hardening improvements had been completed, (2) the new chlorine mixer had been installed, and (3) the work on sodium hypochlorite containment structure is progressing.

Mr. Peck presented one change order to the Pascal & Ludwig contract. Change Order No. 3 involved the modification of the floor slab of the new sodium hypochlorite system containment structure. Excavation for the new containment structure exposed unidentified buried utilities including electrical duct banks, drain lines and water lines. The footings were modified around the duct bank, drain lines removed and the water lines were relocated. The cost of Change Order No.3 is \$14,187.00.

ACTION TAKEN:

The present Project Committee No. 15 members recommended Change Order 3 to the construction contract with Pascal & Ludwig for the Coastal Treatment Plant Miscellaneous Improvements 2015 Project for action by the Board of Directors.

Coastal Treatment Plant Export Sludge System Project Update (Project Committee 15)

DISCUSSION:

Mr. Peck noted that the Coastal Development Permit was unanimously approved by the Coastal Commission on June 8. There were additional special conditions regarding monitoring and mitigation. These are being evaluated; the financial impacts will be presented to the Engineering Committee after these costs have been fully estimated.

Mr. Peck noted that SOCWA staff would be meeting with OC Parks staff regarding the encroachment permit application.

ACTION TAKEN:

No action necessary at this time.

Adjournment

There being no further business, Mr. Peck adjourned the meeting at 9:34 a.m.

I HEREBY CERTIFY that the foregoing Minutes are a true and accurate copy of the Minutes of the Regular Meeting of the South Orange County Wastewater Authority Engineering Committee of June 9, 2016 and approved by the Board of Directors of the South Orange County Wastewater Authority.

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

Agenda Item

Legal Counsel Review: N/A

Meeting Date: August 31, 2016

TO: Board of Directors
FROM: Betty Burnett, General Manager
STAFF CONTACT: Mary Carey, Finance Controller
SUBJECT: Approval of Financial Matters – June 30, 2016

Summary/Discussion

The following selected financial reports are routinely provided monthly to the Board of Directors. The items below were also reviewed by the Finance Committee on August 30, 2016, and recommended to the Board for the actions stated below. The reports included are as follows:

- a) Summary of Disbursements (Exhibit A)
- b) Schedule of Funds Available for Reinvestment (Exhibit B)
- c) Schedule of Cash and Investments (Exhibit C)
- d) Capital Schedule (Exhibit D)
 - Capital Projects – Graph (Exhibit D-1)
- e) Budget vs. Actual Expenses:
 - Operations and Environmental Summary (Exhibit E-1)
 - Residual Engineering, after transfer to Capital (Exhibit E-2)
 - Administration and Other Consolidated Expenses (Exhibit E-3)
 - Information Technology (IT) (Exhibit E-4)

Fiscal impact

During the month of June 2016, disbursements totaled \$6,936,827 and are summarized in the attached Exhibit A. The attached Exhibits B, C, F, and G are informational reports only.

Recommendation

Staff recommends the Board of Directors:

- 1) Ratify the Summary of Disbursements for the period from June 1, 2016 through June 30, 2016 (attached as Exhibit A).
- 2) Receive and file the following as information items:
 - f) Schedule of Funds Available for Reinvestment (Exhibit B)
 - g) Schedule of Cash and Investments (Exhibit C)
 - h) Capital Schedule (Exhibit D)
 - Capital Projects Graph (Exhibit D-1)
 - i) Budget vs. Actual Expenses:
 - Operations and Environmental Summary (Exhibit E-1)
 - Residual Engineering, after transfer to Capital (Exhibit E-2)
 - Administration and Other Consolidated Expenses (Exhibit E-3)
 - Information Technology (IT) (Exhibit E-4)

The Finance Committee concurred in the above recommendations.

Exhibit A

South Orange County Wastewater Authority
Summary of Disbursements for Month of June 2016
Staff Recommendation of Fiscal Matters
(Preliminary)

	<u>Actual</u>
*General Fund	(463,689)
PC 2 - Jay B. Latham Plant	(1,948,448)
PC 3 - SOCWA Plant/PCA AWT	(260,362)
PC 5 - San Juan Creek Ocean Outfally	(417,409)
PC 8 - Pretreatment Proram	(24,900)
PC 12 SO - Water Reclamation Permits	(20,985)
PC 15 - Coastal Treatment Plant/AWT	(1,542,256)
PC 17 - Joint Regional Wastewater Reclamation	(2,015,663)
PC 21 - Effluent Transmission Main	(75,864)
PC 24 - Aliso Creek Ocean Outfall	(167,252)
Total	<u><u>(6,936,827)</u></u>

*Includes Administration, IT, Residual Engineering and Consolidated Expenses.

**SOUTH ORANGE COUNTY WASTEWATER AUTHORITY
SCHEDULE OF FUNDS AVAILABLE FOR REINVESTMENT
as of June 30, 2016**

CASH IN BANK: (BEGINNING BALANCE)	1,451,262.59
L.A.I.F. FUNDS: (BEGINNING BALANCE)	7,793,177.49
VOIDS & ADJUSTMENTS	(\$154)
RECEIPTS:	\$3,470,932
FUND REQUIREMENTS:	
BILLS FOR CONSIDERATION	(\$6,936,827)
FUNDS AVAILABLE FOR REINVESTMENT	\$5,778,391

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

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

- 1). All investment actions executed since the last report have been made in full compliance with the Investment Policy.

- 2). SOCWA does not have sufficient funds currently on hand to meet its expenditure obligations for the next six months (see note) due to the fact that SOCWA bills and receives operational funds on a quarterly basis only.

Betty Burnett
General Manager

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

South Orange County Wastewater Authority
Schedule of Cash And Investments
as of June 30, 2016
(Preliminary)

	(A)	(B)	(C)	(D)	(E)		(F)	
	MVA	A/P	P/R	Petty	LAIF		OPEB	
	1010	1020	1030	Cash	1040	Subtotal	Trust	TOTAL
				1000			1050	
General Fund	\$500	\$800	\$115,907	\$400	\$594,088	\$711,696	\$3,260,174	\$3,971,870
PC 2 - Jay B. Latham Plant	\$500	\$800	\$500	\$400	\$1,065,767	\$1,067,967	\$0	\$1,067,967
PC 3 - SOCWA Plant/PCA AWT	\$300	\$800	\$500	\$0	\$784,739	\$786,339	\$0	\$786,339
PC 5 - San Juan Creek Ocean Outfall	\$358,612	\$800	\$500	\$0	\$17,760	\$377,671	\$0	\$377,671
PC 8 - Pretreatment Program	\$4,360	\$785	\$500	\$0	\$14,344	\$19,989	\$0	\$19,989
PC 12 SO - Water Reclamation Permits	\$6,434	\$800	\$500	\$0	\$48,161	\$55,895	\$0	\$55,895
PC 15 - Coastal Treatment Plant/AWT	\$15,572	\$800	\$500	\$400	\$1,445,832	\$1,463,104	\$0	\$1,463,104
PC 17 - Joint Regional Wastewater Reclamation	\$416,977	\$800	\$500	\$400	\$247,122	\$665,799	\$0	\$665,799
PC 21 - Effluent Transmission Main	\$10,612	\$800	\$500	\$0	\$346,307	\$358,219	\$0	\$358,219
PC 24 - Aliso Creek Ocean Outfall	\$41,355	\$800	\$500	\$0	\$229,058	\$271,713	\$0	\$271,713
Total	\$855,221	\$7,985	\$120,407	\$1,600	\$4,793,177	\$5,778,391	\$3,260,174	\$9,038,565

Notes:

(A) Interest bearing account; all cash receipts are deposited in this account.

(B) Accounts Payable Checks are drawn against this account; money is transferred to this account from the MVA account or LAIF.

(C) Payroll including payroll taxes and related liabilities are drawn against this account; money is transferred to this account from MVA account or LAIF.

(D) Cash on hand with GM's office and held by Chief Operators at each Treatment facility.

(E) LAIF deposits.

(F) OPEB Trust Fund; these funds can only be used for Retiree health benefits.

(H) As a customary practice, contingency balances are evenly distributed in P/R, A/P and MVA accounts,

South Orange County Wastewater Authority
Capital Projects Summaries
as of
June 30, 2016
(Preliminary)

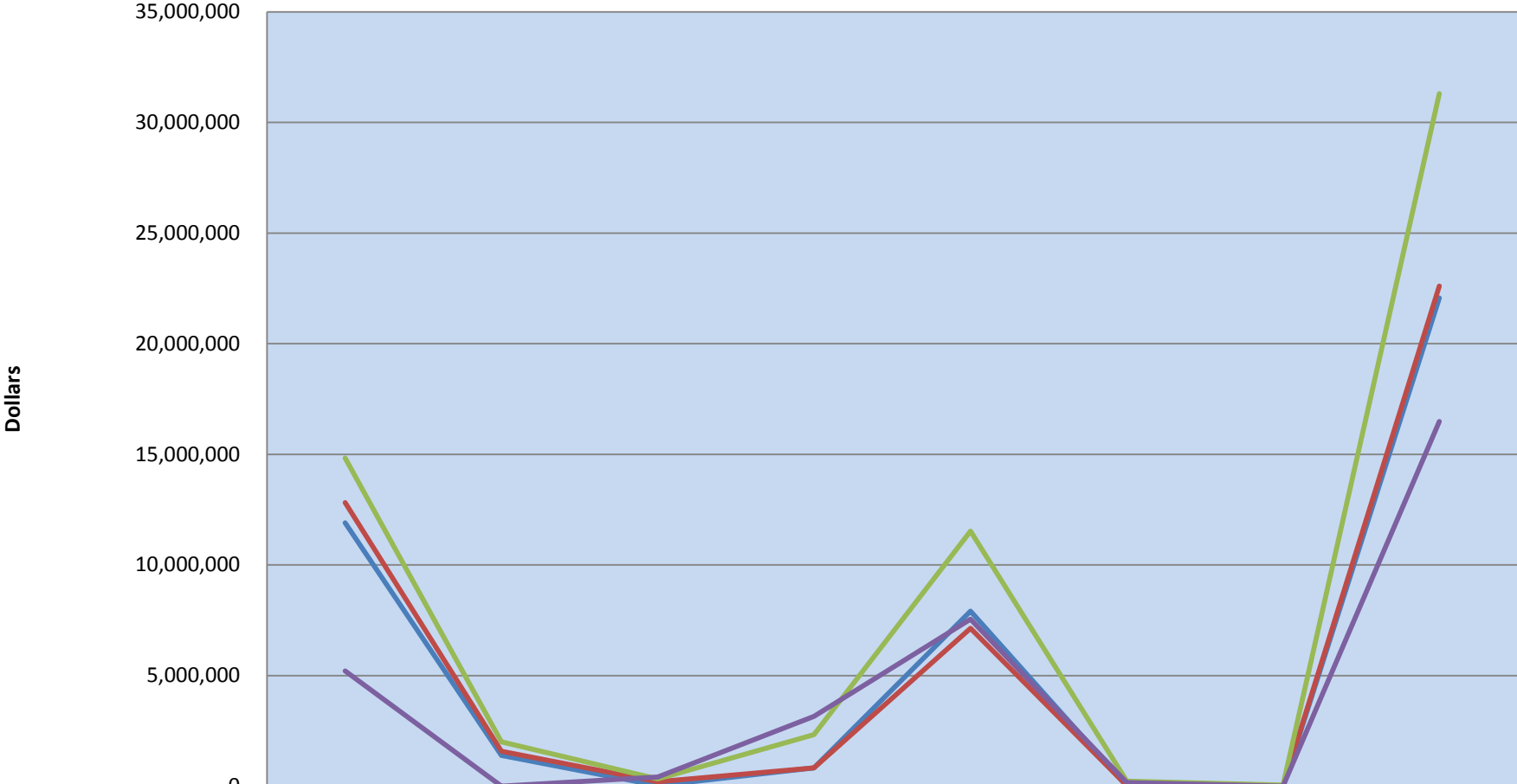
Total Open Capital Projects - All Years						
	Projects Budget	Prior Years Spending	FY 2015-16 Spending	Total Spending	(Over)/Under Budget	% Expended
PC 2-JB Latham	26,874,021	5,691,783	11,908,396	17,600,179	9,273,843	65.5%
PC 3A	2,435,854	312,179	1,385,419	1,697,598	738,256	69.7%
PC 5-San Juan Creek Outfall	325,000	118,018	24,908	142,926	182,074	44.0%
PC 15-Coastal	14,718,851	1,177,975	832,557	2,010,532	12,708,319	13.7%
PC 17-Regional	20,645,402	3,145,630	7,912,632	11,058,262	9,587,140	53.6%
PC 21 Effluent Transmission	425,000		307	307	424,693	0.1%
PC 24 Aliso Creek Outfall	50,000		177	177	49,823	0.4%
Total Large Capital	65,474,128	10,445,585	22,064,396	32,509,981	32,964,147	49.7%
Small Internal Capital	1,279,850		759,065	759,065	520,785	59.3%
Total Capital	66,753,978	10,445,585	22,823,461	33,269,046	33,484,932	49.8%

FY 2015-16 Budget vs. Actual Spending							
Description	Capital Budget	Fiscal Year Spending	(Over)/Under Budget	% Expended	Member Agency Billed	Member Agency Collected	Cash on Hand
PC 2-JB Latham	14,835,110	11,908,396	2,926,714	80.3%	12,812,187	12,812,187	405,889
PC 3A	2,008,310	1,385,419	622,891	69.0%	1,577,721	1,577,721	423,973
PC 5-San Juan Creek Outfall	330,095	24,908	305,187	7.5%	200,000	200,000	57,074
PC 15-Coastal	2,329,487	832,557	1,496,930	35.7%	829,997	829,997	(46,011)
PC 17-Regional	11,525,005	7,912,632	3,612,373	68.7%	7,140,908	7,140,908	199,261
PC 21 Effluent Transmission	228,527	307	228,220	0.1%	25,000	25,000	24,693
PC 24 Aliso Creek Outfall	50,784	177	50,607	0.3%	25,000	25,000	24,823
Total Large Capital	31,307,318	22,064,396	9,242,922	70.5%	22,610,813	22,610,813	1,089,701
Small Internal Capital	1,279,850	759,065	520,785	59.3%	1,229,852	1,229,852	470,787
Total Capital	32,587,168	22,823,461	9,763,707	70.0%	23,840,665	23,840,665	1,560,488

Notes:

- (1) Cash on Hand is as of 6/30/2016 and includes carryovers from prior fiscal years. As projects are completed, all residual Cash is refunded to the Member Agencies.

Capital Projects FY 2015-16 & FY 2016-17 Budget, Midyear Forecast and Year-to-Date Spending 06/30/2016



	PC 2-JB Latham	PC 3A	PC 5-San Juan Creek Outfall	PC 15-Coastal	PC 17-Regional	PC 21 Effluent Transmission	PC 24 Aliso Creek Outfall	Total Large Capital (1)
Spent - YTD	11,908,396	1,385,419	24,908	832,557	7,912,632	307	177	22,064,396
FY 2015-16 Forecast	12,812,187	1,577,721	200,000	829,997	7,140,908	25,000	25,000	22,610,813
Capital Budget 15-16	14,835,110	2,008,310	330,095	2,329,487	11,525,005	228,527	50,784	31,307,319
Capital Budget 16-17	5,211,980	0	414,437	3,149,813	7,551,480	159,719	0	16,487,429

(1) Total Large Capital for "FY 2015-16 Forecast" reflects actual invoiced amount, a change from prior amounts that displayed estimates.

South Orange County Wastewater Authority
O & M & Environmental Safety Costs Summary
YTD - As of June 30, 2016
(Preliminary)

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	FY 2015-16 Original Budget	Midyear 2015-16 Forecast	June YTD Actual	June (Over)/Under Midyear	% Expended June YTD vs. Midyear	
Salaries & Fringe						
Regular Salaries - O&M	\$4,129,220	\$4,017,148	\$4,013,626	\$3,522	99.9%	
Scheduled Holiday Work	\$0	\$0	\$0	\$0		
Overtime Salaries-O&M	\$88,324	\$128,654	\$116,410	\$12,244	90.5%	
Fringe Benefits	\$2,931,744	\$2,849,884	\$3,130,629	(\$280,745)	109.9%	(P)
Standby Pay	\$0	\$21,076	\$44,525	(\$23,449)	211.3%	(E)
Total Salaries & Fringe	\$7,149,288	\$7,016,762	\$7,305,190	(\$288,428)	104.1%	
Other Expenses						
Electricity	\$1,981,700	\$1,360,005	\$1,235,341	\$124,664	90.8%	(Q)
Co-Generation Power Credit	(\$500,000)	(\$620,000)	(\$489,013)	(\$130,987)	78.9%	(I)
Co-Generation Power Credit-Offset	\$0	\$620,000	\$489,013	\$130,987	78.9%	(I)
Natural Gas	\$143,000	\$112,502	\$108,610	\$3,892	96.5%	
Potable & Reclaimed Water	\$58,300	\$80,301	\$67,013	\$13,288	83.5%	
Electricity - 10-EPS - PC 5	\$31,500	\$31,500	\$2,534	\$28,966	8.0%	
Natural Gas - 11-EPS - PC 5	\$400	\$400	\$0	\$400	0.0%	
Biosolids Disposal - 21 B	\$1,632,900	\$1,482,902	\$1,477,697	\$5,205	99.6%	
Grit Hauling - 21A	\$110,600	\$123,000	\$141,376	(\$18,376)	114.9%	(J)
Polymer Products	\$678,800	\$645,001	\$684,250	(\$39,249)	106.1%	(K)
Chlorine/Sodium Hypochlorite	\$576,500	\$538,199	\$351,871	\$186,328	65.4%	
Ferric Chloride	\$238,900	\$244,299	\$245,172	(\$873)	100.4%	
Odor Control Chemicals	\$144,400	\$161,399	\$154,277	\$7,122	95.6%	
Other Chemicals - Misc.	\$3,900	\$4,780	\$1,995	\$2,785	41.7%	
Petroleum Products	\$56,500	\$56,500	\$49,608	\$6,892	87.8%	
Maintenance E & F - Solids - 41A	\$301,900	\$335,202	\$386,885	(\$51,683)	115.4%	(L)
Maintenance Equip. & Facilities (Liquids) 41-B	\$514,000	\$529,562	\$529,461	\$101	100.0%	
Maintenance Equip. & Facilities (Common) 41-C	\$50,300	\$58,519	\$57,891	\$628	98.9%	
Maintenance Equip. & Facilities (Co-Gen) 41-D	\$153,700	\$153,700	\$212,984	(\$59,284)	138.6%	(A)
Maintenance Equip. & Facilities (AWT) 41-E	\$67,100	\$67,100	\$63,713	\$3,387	95.0%	
Contract Services Misc. - 29	\$266,000	\$259,208	\$286,173	(\$26,965)	110.4%	(E)
Contract Services Generators - 29A	\$19,000	\$19,001	\$19,763	(\$762)	104.0%	(B)
Contract Serv - Digester Cleaning - 29E	\$60,000	\$60,000	\$34,641	\$25,359	57.7%	
Contract Services - 29-EPS - PC 5	\$4,000	\$4,000	\$0	\$4,000	0.0%	
Engineering - Misc.	\$295,000	\$344,409	\$305,456	\$38,953	88.7%	
Non-Capital Engineering	\$0	\$0	\$18,851	(\$18,851)		
Misc-Capital-Dilution & Metering Study	\$125,000	\$125,001	\$0	\$125,001	0.0%	
Uniforms	\$33,300	\$33,299	\$31,370	\$1,929	94.2%	
Small Vehicle Expense - 31A	\$16,200	\$25,703	\$19,557	\$6,146	76.1%	
Small Vehicle Fuel - 37A	\$32,500	\$32,498	\$17,185	\$15,313	52.9%	
Diesel Truck Maint - 31B	\$0	\$50,001	\$56,054	(\$6,053)	112.1%	(C)
Diesel Truck Fuel - 37B	\$0	\$12,000	\$9,899	\$2,101	82.5%	
Operating Leases	\$0	\$3,996	\$4,515	(\$519)	113.0%	
Equipment Rental	\$7,200	\$7,200	\$3,664	\$3,536	50.9%	
Permits	\$494,900	\$494,899	\$407,209	\$87,690	82.3%	
Public Notices/ Public Relations	\$500	\$500	\$0	\$500	0.0%	
Outfall Inspection & Port Cleaning	\$190,000	\$190,000	\$8,100	\$181,900	4.3%	
Offshore Monitoring - 20A	\$40,000	\$40,002	\$24,784	\$15,218	62.0%	
Offshore Biochemistry - 20B	\$0	\$4,189	\$4,190	(\$1)	100.0%	
Effluent Chemistry - 20C	\$54,000	\$53,999	\$44,773	\$9,226	82.9%	
Access Road Expenses	\$44,000	\$44,000	\$84,538	(\$40,538)	192.1%	(H)
Storm Damage	\$18,000	\$18,002	\$0	\$18,002	0.0%	
Laboratory Services	\$33,250	\$33,036	\$36,243	(\$3,207)	109.7%	(F)
Laboratory Supplies	\$73,000	\$73,002	\$61,458	\$11,544	84.2%	
MNWD Lab Services and Supplies	\$22,000	\$0	\$16,284	(\$16,284)		(D)
Safety Supplies	\$71,700	\$71,579	\$100,311	(\$28,732)	140.1%	(M)
Audit - Environmental	\$500	\$500	\$0	\$500	0.0%	
Insurance - Property/Liability	\$900	\$100,370	\$193,049	(\$92,679)	192.3%	(E)
Legal Fees	\$5,000	\$12,605	\$133,933	(\$121,328)	1062.5%	(R)
Management Support Services	\$105,860	\$121,938	\$98,630	\$23,308	80.9%	
Travel Expense/Tech. Conferences	\$15,609	\$20,741	\$22,525	(\$1,784)	108.6%	

South Orange County Wastewater Authority
O & M & Environmental Safety Costs Summary
YTD - As of June 30, 2016
(Preliminary)

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	FY 2015-16 Original Budget	Midyear 2015-16 Forecast	June YTD Actual	June (Over)/Under Midyear	% Expended June YTD vs. Midyear	
Membership Dues/Fees	\$5,900	\$12,870	\$8,403	\$4,467	65.3%	
Training Expense	\$39,800	\$44,842	\$48,269	(\$3,427)	107.6%	(E)
Landscaping	\$206,200	\$230,400	\$172,662	\$57,738	74.9%	(G)
Trash Disposal	\$4,650	\$4,652	\$3,498	\$1,154	75.2%	
Janitorial Services	\$40,800	\$40,832	\$32,597	\$8,235	79.8%	
Small Tools & Supplies	\$60,400	\$61,306	\$66,146	(\$4,840)	107.9%	(N)
Office Equipment	\$16,500	\$21,201	\$22,513	(\$1,312)	106.2%	
Office Supplies - All	\$21,700	\$33,201	\$41,568	(\$8,367)	125.2%	(E)
Monthly Car Allowance	\$0	\$31,981	\$33,053	(\$1,072)	103.4%	
Recruitment	\$0	\$0	\$3,111	(\$3,111)		(D)
Vehicle Pay	\$0	\$0	\$0	(\$0)		
Mileage	\$0	\$4,217	\$4,718	(\$501)	111.9%	(E)
Medicare Tax - Reimbursement	\$0	\$0	\$6,680	(\$6,680)		(D)
Group Insurance Waiver	\$0	\$0	\$5,463	(\$5,463)		(D)
Miscellaneous Expense	\$16,300	\$16,301	\$12,048	\$4,253	73.9%	
Shipping/Freight	\$0	\$0	\$162	(\$162)		(D)
Postage Expense	\$0	\$0	\$4	(\$4)		(D)
Sales Tax	\$0	\$0	\$47	(\$47)		(D)
IT Direct	\$0	\$294,730	\$274,869	\$19,861	93.3%	(G)
IT Allocations IN to PC's & Depts.	\$512,397	\$545,434	\$565,179	(\$19,745)	103.6%	(S)
Total Other Expenses	\$9,196,466	\$9,582,516	\$9,114,821	\$467,695	95.1%	
Total Expenses	\$16,345,754	\$16,599,278	\$16,420,011	\$179,267	98.9%	

* Includes budget approvals, \$39,000 for CTP landscaping and \$24,000 for State Revolving Loan inquiry.

(A) Ongoing hot waterline repair at RTP.

(B) There will be no more remaining costs for this line item for this fiscal year.

(C) Boom truck repair.

(D) Inadvertently not included in midyear update

(E) Midyear Budget Forecast used figures through December 2015 before posting of reclass adjustments resulting from software implementation, therefore midyear was understated.

(F) New permit requirements for full priority pollutant testing of recycled water.

(G) As discussed at Board Meeting, any residual funds in this line item will be carried over to next fiscal year.

(H) Security Patrols at AWMA Bridge. Costs were subtracted from the bridge transfer payments to the County by the Member Agencies.

(I) Less wastewater sludge was received from ETWD this FY. This was due to sewer diversions from ETWD to IRWD and it reduced the amount of power produced at RTP.

(J) Lower flows and higher loading to plants caused several equipment failures leading to wetter material going to the landfill.

(K) Operations was able to accept an additional delivery this fiscal year. Next fiscal year's costs will be reduced by an equivalent amount.

(L) Several emergency water line repairs on corroded and buried hot water loop pipes at RTP.

(M) Operations staff purchased additional equipment to implement the confined space and confined space rescue programs.

(N) O&M staff added 8 new employees this fiscal year. The employees needed to be outfitted with additional tools and supplies.

(O) Year end accrual of leave balances earned but not used.

(P) The capital projects to replace the engines at JBL and RTP were delayed into FY16-17. This reduced the need to purchase electricity in FY15-16.

(Q) Meetings

(R) System improvements for Tabware and Financial Edge

**South Orange County Wastewater Authority
Budget vs. Actual Comparison - Engineering
For the Period Ended June 30, 2016
(Premiminary)**

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		FY 2015-16 Original Budget	Midyear 2015-16 Forecast	June YTD Actual	June (Over)/Under Midyear	% Expended June YTD vs. Midyear
Salary and Fringe						
01-5000-03-00-00	Regular Salaries-O&M	\$398,348	\$75,403	\$43,715	\$31,688	58.0%
01-5401-03-00-00	Fringe Benefits IN to PC's & Depts.	\$282,827	\$53,536	\$34,097	\$19,439	63.7%
01-8999-03-00-00	Labor and Fringe to Capital Projects	(\$483,243)	\$0	\$0	\$0	
	Total Payroll Costs	\$197,932	\$128,939	\$77,812	\$51,127	60.3%
Other Expenses						
01-5015-03-00-00	Management Support Services	\$0	\$36,004	\$16,004	\$20,000	44.4%
01-5022-03-00-00	Miscellaneous Expense	\$0	\$10,408	\$7,438	\$2,971	71.5%
01-5023-03-00-00	Office Supplies - All	\$0	\$0	\$37	(\$37)	(B)
01-5034-03-00-00	Travel Expense/Tech. Conferences	\$0	\$0	\$974	(\$974)	(B)
01-5035-03-00-00	Training Expense	\$0	\$0	\$594	(\$594)	(B)
01-5039-03-00-00	Membership Dues/Fees	\$0	\$451	\$862	(\$411)	191.1% (C)
01-5061-03-00-00	Mileage	\$0	\$218	\$98	\$120	44.8%
01-5075-03-00-00	Recruitment	\$0	\$7,642	\$29,815	(\$22,173)	390.1% (A)
01-5309-03-00-00	Operating Leases	\$9,600	\$14,788	\$15,348	(\$560)	103.8%
01-5705-03-00-00	Monthly Car Allowance	\$0	\$0	\$1,938	(\$1,938)	(B)
01-5802-03-00-00	Shipping/Freight	\$0	\$299	\$0	\$299	0.0%
01-6500-03-00-00	IT Allocations in to PC's & Depts.	\$39,081	\$41,601	\$43,107	(\$1,506)	103.6% (D)
	Total Other Expenses	\$48,681	\$111,411	\$116,214	(\$4,803)	104.3%
	Total Expenses	\$246,613	\$240,350	\$194,026	\$46,324	80.7%

(A) Recruitment costs for Senior Engineer Position. Budget was included in Administration Budget at midyear.

(B) Additional detail not included in mid-year update.

(C) Midyear Budget Forecast used figures through December 2015 before posting of reclass adjustments resulting from software implementation, therefore midyear was understated.

(D) System improvements for Tabware and Financial Edge

South Orange County Wastewater Authority
Budget vs. Actual Comparison- Administration
For the Period Ended June 30, 2016
(Preliminary)

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	FY 2015-16 Original Budget	Midyear 2015-16 Forecast	June YTD Actual	June (Over)/Under Midyear	% Expended June YTD vs. Midyear	
Salary and Fringe						
01-5401-04-00-00	Fringe Benefits IN to PC's & Depts.	\$466,739	\$466,739	\$520,442	(\$53,703)	111.5% (E)
01-6000-04-00-00	Regular Salaries-Admin & IT	\$657,379	\$657,379	\$667,234	(\$9,855)	101.5% (I)
01-6001-04-00-00	Overtime Salaries-Admin & IT	\$18,566	\$18,566	\$21,816	(\$3,250)	117.5% (F)
	Total Payroll Costs	\$1,142,684	\$1,142,684	\$1,209,491	(\$66,807)	105.8%
Other Expenses						
01-5018-04-00-00	Public Notices/ Public Relations	\$0	\$15,350	\$1,350	\$14,000	8.8%
01-5023-04-00-00	Office Supplies - All	\$0	\$3,143	\$2,810	\$333	89.4%
01-5027-04-00-00	Insurance - Property/Liability	\$0	\$9,918	\$74	\$9,844	0.7%
01-5037-04-00-00	Office Equipment	\$0	\$6,733	\$7,814	(\$1,081)	116.1% (J)
01-5207-04-00-00	Accrued Vacation	\$123,808	\$0	\$0	\$0	
01-5208-04-00-00	Accrued Sick Pay	\$123,808	\$0	\$0	\$0	
01-5304-04-00-00	Earned Benefit	\$0	\$0	\$2,211	(\$2,211)	
01-6101-04-00-00	Recruitment & Employee Relations	\$0	\$46,190	\$22,310	\$23,880	48.3%
01-6200-04-00-00	Management Support Services	\$292,000	\$170,000	\$176,582	(\$6,582)	103.9%
01-6201-04-00-00	Audit	\$30,000	\$35,000	\$22,900	\$12,100	65.4%
01-6202-04-00-00	Legal	\$62,000	\$62,000	\$75,447	(\$13,447)	121.7% (G)
01-6204-04-00-00	Postage	\$0	\$1,118	\$3,512	(\$2,394)	314.2% (A)
01-6220-04-00-00	Board of Directors - Fees	\$15,000	\$15,000	\$10,854	\$4,146	72.4%
01-6234-04-00-00	Memberships & Trainings	\$112,560	\$105,848	\$56,335	\$49,513	53.2%
01-6239-04-00-00	Travel & Conference	\$57,600	\$57,600	\$24,734	\$32,866	42.9%
01-6240-04-00-00	Scholarship Sponsorship	\$0	\$0	\$1,000	(\$1,000)	(B)
01-6310-04-00-00	Miscellaneous	\$43,800	\$8,871	\$18,236	(\$9,365)	205.6%
01-6311-04-00-00	Mileage	\$0	\$175	\$328	(\$153)	187.6% (A)
01-6317-04-00-00	Contract Services Misc	\$0	\$1,787	\$3,900	(\$2,113)	218.2%
01-6500-04-00-00	IT Allocations in to PC's & Depts.	\$68,857	\$77,573	\$75,950	\$1,623	
01-6601-04-00-00	Shipping/Freight	\$0	\$0	\$1,067	(\$1,067)	(C)
01-6705-04-00-00	Monthly Car Allowance	\$0	\$11,216	\$11,608	(\$392)	103.5%
	Total Other Expenses	\$929,433	\$627,522	\$519,023	\$108,499	82.7%
	Total Expenses	\$2,072,117	\$1,770,206	\$1,728,514	\$41,692	97.6%

(A) Midyear Budget Forecast used figures through December 2015 before posting of reclass adjustments resulting from software implementation, therefore midyear was understated.

(B) Participation in CASA Scholarship Program as Requested by Board.

(C) Additional detail not included in midyear update

(D) Off-site records storage.

(E) Year end accrual of leave balances earned but not used.

(F) System improvements for Tabware and Financial Edge

(G) Increased Meetings

(H) Payrate correction and less leave time taken

(I) Equipment for New Hires

**South Orange County Wastewater Authority
Budget vs. Actual Comparison-IT
For the Period Ended June 30, 2016
(Preliminary)**

8/5/2016 04:10:52 PM

		FY 2015-16 Original Budget	Midyear 2015-16 Forecast	June YTD Actual	June (Over)/Under Midyear	% Expended June YTD vs. Midyear
Salary & Fringe						
01-5401-05-00-00	Fringe Benefits IN to PC's & Depts.	\$49,575	\$49,576	\$52,159	(\$2,583)	105.2%
01-6000-05-00-00	Regular Salaries-Admin & IT	\$69,825	\$69,825	\$66,870	\$2,955	95.8%
01-6001-05-00-00	Overtime Salaries-Admin & IT	\$1,910	\$1,910	\$1,275	\$635	66.7%
	Total Salary & Fringe	\$121,310	\$121,311	\$120,304	\$1,007	99.2%
Other Expenses						
01-5023-05-00-00	Office Supplies - All	\$0	\$191	\$91	\$100	47.6%
01-5028-05-00-00	Small Tools & Supplies	\$0	\$958	\$458	\$500	47.8%
01-5035-05-00-00	Training Expense	\$0	\$0	\$99	(\$99)	
01-5037-05-00-00	Office Equipment	\$0	\$7,626	\$3,626	\$4,000	47.5%
01-5061-05-00-00	Mileage	\$0	\$124	\$83	\$41	66.9%
01-6102-05-00-00	Subscriptions	\$0	\$0	\$168	(\$168)	(A)
01-6200-05-00-00	Management Support Services	\$0	\$0	\$5,021	(\$5,021)	(D)
01-6234-05-00-00	Memberships & Trainings	\$0	\$0	\$5,201	(\$5,201)	(A)
01-6239-05-00-00	Travel & Conference	\$0	\$3,586	\$1,586	\$2,000	44.2%
01-6300-05-00-00	Software Maintenance Agreements	\$75,138	\$51,419	\$45,525	\$5,894	88.5%
01-6301-05-00-00	Hardware Maintenance Agreements	\$136,429	\$136,594	\$150,043	(\$13,449)	109.8%
01-6302-05-00-00	Cloud Subscriptions (Internet)	\$16,076	\$14,336	\$21,049	(\$6,713)	146.8% (B)
01-6303-05-00-00	Telecommunications	\$106,941	\$106,941	\$116,136	(\$9,195)	108.6% (B)
01-6304-05-00-00	SCADA Hardware and Software Support Contracts	\$29,353	\$0	\$0	\$0	
01-6305-05-00-00	IT Professional Services	\$61,888	\$139,388	\$158,000	(\$18,612)	113.4% (C)
01-6306-05-00-00	Small Hardware Purchases (< \$5k)	\$6,000	\$25,064	\$4,692	\$20,372	18.7%
01-6307-05-00-00	Small Software Purchases (<\$5k)	\$12,000	\$13,364	\$13,469	(\$105)	100.8% (B)
01-6308-05-00-00	IT Memberships	\$1,200	\$1,200	\$0	\$1,200	0.0%
01-6309-05-00-00	Operating Leases	\$54,000	\$37,779	\$38,686	(\$907)	102.4% (B)
01-6310-05-00-00	Miscellaneous	\$0	\$455	\$0	\$455	0.0%
	Total Other Expenses	\$499,025	\$539,025	\$563,932	(\$24,907)	104.6%
	Total Expenses before Allocation	\$620,335	\$660,336	\$684,236	(\$23,900)	103.6%
IT Allocations (Out) to PC's & Depts						
01-6400-05-00-00	IT Allocations (OUT) to PC's & Depts.	(\$620,335)	(\$660,336)	(\$684,236)	\$23,900	103.6%
	Total IT Allocations (Out) to PC's & Depts	(\$620,335)	(\$660,336)	(\$684,236)	\$23,900	103.6%
	Total	\$0	\$0	\$0	\$0	0.0%

(A) Expense Recorded After Midyear Budget Revisions

(B) Midyear Budget Forecast used figures through December 2015 before posting of reclass adjustments resulting from software implementation, therefore midyear was understated.

(C) Assetpoint consultant for on-site Tabware training, consulting and development. Blackbaud consulting.

(D) SOCWA Website

Agenda Item

Meeting Date: August 31, 2016

TO: Board of Directors
FROM: Betty Burnett, General Manager
STAFF CONTACT: Jim Burror, Director of Operations
SUBJECT: July 2016 Operations Report

Summary/Discussion

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

1) Monthly Operational Report

A six (6) page overview and comparison of member agency usage of the facilities. This includes influent parameters and recycled water production. The pages also include ongoing calculations used by SOCWA for billing the agencies. Other items include important statistics for regulatory compliance, visitations by the public to the treatment works, and other vendor interactions. The information is broken down by facility and by member agency.

2) SOCWA Ocean Outfall Discharges by Agency

This data shows how much water is being discharged to the ocean each month and for the last 12 months. This data is presented for the member agencies that are planning reuse projects and may wish to utilize water currently being discharged to the ocean.

3) Beach Ocean Monitoring Report

4) Recycled Water Report

5) Pretreatment Report

Fiscal impact

No change

Recommendation

Staff recommends receiving and filing the above mentioned operational reports.

Monthly Operational Report

SOCWA Operational Report July, 2016

Excursion, Complaint, and Violation Events

Events	CTP	RTP	JBL	Totals
Odor	0	5(1)	0	5
Noise	0	0	0	0
Spills	0	0	0	0
Violations	0	0	0	0
Others	0	0	0	0

(1) All 5 odor complaints were attributed to Sulphur Creek

Plant Wastewater Billing Characteristics

Key Parameters	CTP	RTP	JBL TP1	JBL TP2	Totals
Influent (mgd)	3.18	7.49	7.42	0.98	19.07
Effluent (mgd)	1.91	1.35	7.42	1.36	12.03
Peak Flow (mgd)	3.58	17.00	10.86	6.09	37.53
Influent BOD (mg/l)	328	246	281	469	
Influent TSS (mg/l)	524	334	511	567	
Effluent BOD (mg/l)	4.7	3.5	5.3	6.8	
Effluent TSS (mg/l)	4.7	6.0	8.7	8.8	
Effluent Turbidity (NTU)	3.0	4.3	3.5	4.6	

Recycled Water (AWT) Operations

Key Parameters	CTP	RTP	JBL	Totals
Average Flow (mgd)	1.79	6.14		7.93
Days of Operation (days)	31	31		
Total Flow (million gallons)	55.4	190.5		245.9
Plant Irrigation (million gallons)	0.10	0.00	0.23	
AWT Time Online (%)	99.9	84.0		

Wastewater Unit Definitions

mgd = million gallons per day

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

NTU = Nephelometric Turbidity Units

SOCWA Operational Report July, 2016 (cont'd)

Biosolids Management

Biosolids Management Site	CTP	RTP	JBL	Totals
Synagro Compost (tons)		780.0	0.0	780.0
Nursery Products (tons)		171.2	428.9	600.1
Prima Deshecha (tons)		184.7	223.5	408.2
Other: _____ (tons)		0.0	0.0	0.0
Total Processed (tons)		1,135.9	652.4	1,788.3

Summary of Maintenance Activities

Task Type	CTP	RTP	JBL	Totals
Preventative Maintenance	168	534	427	1,129
Corrective Maintenance	156	200	97	453

Site Visitors

Visitor Types	CTP	RTP	JBL	Totals
Regulatory	0	0	4	0
Member Agency	0	3	10	3
Residents	0	0	0	0
Others	12	28	82	40
Tours #/Visitors	0	0	0	0

Grit Disposal Management

Grit & Screenings	CTP	RTP	JBL	Totals
Simi Valley Landfill (tons)	13.8	24.9	NA	38.8

Chemical and Energy Utilization

Chemical/Utility	CTP	RTP	JBL	Totals
Ferric Chloride (tons)	0.1	NA	NA	0.1
Power (kWh)	232,772	147,600	486,861	867,233
Natural Gas (Dth)	NA	NA	NA	NA
Digester Gas (scfm)		8,498,271	0(1)	8,498,271
Digester Gas Power Savings		\$39,079.76		

(1) Engine removed for construction project.

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

Wastewater Unit Definitions

kWh = kilowatt hours

Dth = Dekatherms

scfm = standard cubic feet per minute

SOCWA Operational Report July, 2016 (cont'd)

Agency Wastewater Flows to SOCWA by Facility (Including Internal Waste Streams Used for Billing)

Agency	CTP (mgd)	CTP (%)	RTP (mgd)	JBL (mgd)	JBL (%)	Total (mgd)
CLB	1.897	56.81%				1.90
EBS	0.056	1.68%				0.06
SCWD	1.386	41.51%		1.768	23.84%	3.15
MNWD	0.000	0.00%	7.49	1.400	18.88%	8.89
CSJC				1.848	24.92%	1.85
SMWD				2.400	32.36%	2.40
Total	3.339	100.00%	7.49	7.416	100.00%	18.25

Total Agency Outfall Flows by Outfall System-Billing Flows

Agency	SJCOO (mgd)	SJCOO (%)	SJCOO Meter (mgd)	ACOO (mgd)	ACOO (%)	Total (mgd)	Notes
CLB				1.90	30.50%	1.90	
EBS				0.06	0.90%	0.06	
SCWD	1.77	17.83%		-0.04	-0.66%	1.73	Includes Desalters
MNWD	1.40	14.12%		1.35	21.65%	2.75	
ETWD				1.45	23.28%	1.45	Direct Outfall Only
CSJC	2.22	22.38%				2.22	Includes Desalter
SMWD	2.76	27.87%				2.76	Includes Chiquita
CSC	1.77	17.81%				1.77	Direct Outfall Only
IRWD				1.51	24.33%	1.51	Direct Outfall Only
Total	9.92	100.00%	8.44	6.22	100.00%	16.14	

SOCWA Operational Report July, 2016 (cont'd)

FY Flow/Solids Summary-Billing

Project Committee No. 2 Liquids (JBL)

Agency	Own (mgd)	Own (%)	Budget (mgd)	Budget (%)	Month (mgd)(1)	Month (%)	FY Avg to Date (mgd)	FY Avg to Date (%)
CSJC	4.00	30.77%	3.19	38.02%	1.848	24.92%	1.85	24.92%
MNWD	3.00	23.08%	1.40	16.69%	1.400	18.88%	1.40	18.88%
SCWD	3.75	28.85%	2.00	23.84%	1.768	23.84%	1.77	23.84%
SMWD	2.25	17.31%	1.80	21.45%	2.400	32.36%	2.40	32.36%
Total	13.00	100.00%	8.39	100.00%	7.416	100.00%	7.42	100.00%

Project Committee No. 2 Solids (JBL)

Agency	Own (lbs/d)	Own (%)	Budget (lbs/d)	Budget (%)	Month (lbs/d)	Month (%)	FY Avg to Date (lbs/d)	FY Avg to Date (%)
CSJC	11,572	30.00%	8,620	33.30%	4,223	16.44%	4,223	16.44%
MNWD	8,340	21.62%	5,207	20.16%	5,640	21.96%	5,640	21.96%
SCWD	7,715	20.00%	5,304	20.49%	6,149	23.94%	6,149	23.94%
SMWD	10,946	28.38%	6,695	25.86%	9,668	37.65%	9,668	37.65%
Total	38,573	100.00%	25,826	100.00%	25,680	100.00%	25,680	100.00%

Project Committee No. 5 - Effluent Pumping Station (SJCOO EPS)

Agency	Own (%)	Variable Budget (mgd)	Variable Budget (%)	Month Outfall Flow (mgd)	Month Outfall Flow (%)	Month EPS Outfall Flow (mgd)	Month EPS Outfall Flow (%)
CSC	16.62%	3.00	17.13%	1.77	17.81%		
CSJC	11.08%	3.83	21.87%	2.22	22.38%	1.85	24.92%
MNWD	15.51%	2.42	13.82%	1.40	14.12%	1.40	18.88%
SCWD	12.47%	2.67	15.25%	1.77	17.83%	1.77	23.84%
SMWD	44.32%	5.59	31.92%	2.76	27.87%	2.40	32.36%
Total	100.00%	17.51	100.00%	9.92	0.00%	7.42	100.00%

(1) Influent billing meter summary:

- a. CSJC is metered for two weeks of each month to determine the monthly flow.
The area velocity metering system in the collection system has an accuracy of +/- 20%.
 - b. MNWD is assumed to be 1.4 mgd unless Treatment Plant 3A is discharging to the sewer. If other discharges occur they are estimated.
 - c. SCWD is the summation of the DPSD and Victoria PS meters.
The two metering systems have an accuracy of +/- 10%.
 - d. The Oso Trabuco sewer is metered for two weeks of each month to determine the monthly flow.
The flows from MNWD are subtracted from the metering data collected to determine SMWD's flows. The area velocity metering system in the collection system has an accuracy of +/- 20%.
- Source: Cost Allocation Methodology for Project Committees, Dudek Engineering 2012.

SOCWA Operational Report July, 2016 (cont'd)

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

Project Committee No. 5 - Outfall (SJCOO)

Agency	FY Avg Outfall Flow (mgd)	FY Avg Outfall Flow (%)	FY Avg EPS Outfall Flow (mgd)	FY Avg EPS Outfall Flow (%)
CSC	1.766	15.67%		
CSJC	2.219	19.69%	1.85	24.92%
MNWD	1.887	16.74%	1.40	18.88%
SCWD	1.768	15.68%	1.77	23.84%
SMWD	3.633	32.22%	2.40	32.36%
Total	11.273	100.00%	7.42	100.00%

Project Committee No. 15 (CTP)

Agency	Own (mgd)	Own (%)	Budget (mgd)	Budget (%)	Month (mgd)	Month (%)	FY Avg to Date (mgd)	FY Avg to Date (%)
CLB	2.54	37.91%	1.960	60.61%	1.897	56.81%	1.897	56.81%
EBS	0.20	2.99%	0.061	2.13%	0.056	1.68%	0.056	1.68%
SCWD	2.00	29.85%	1.213	47.12%	1.386	41.51%	1.386	41.51%
MNWD	1.96	29.25%	0.000	0.00%	0.000	0.00%	0.000	0.00%
Total	6.70	100.00%	3.234	100.00%	3.339	100.00%	3.339	100.00%

Project Committee No. 17 Liquids (RTP)

Agency	Budget Liquids (mgd)	Budget Liquids (%)	Month Plant Influent (mgd)	Month Centrate (mgd)	Month Total (mgd)(1)	Month Total (%)	FY Avg to Date (mgd)	FY Avg to Date (%)
CLB	0.01408	0.167%	0.0000	0.0135	0.0135	0.18%	0.0135	0.18%
EBS	0.00044	0.005%	0.0000	0.0004	0.0004	0.01%	0.0004	0.01%
SCWD	0.00871	0.103%	0.0000	0.0099	0.0099	0.13%	0.0099	0.13%
ETWD	0.01719	0.204%	0.0000	0.0133	0.0133	0.17%	0.0133	0.17%
MNWD	8.40541	99.521%	7.4910	0.0721	7.5631	99.51%	7.5631	99.51%
Total	8.44583	100.000%	7.4910	0.1092	7.6002	100.00%	7.6002	100.00%

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

SOCWA Operational Report July, 2016 (cont'd)

FY Flow/Solids Summary (cont'd)

Project Committee No. 17 Solids (RTP)

Agency	Own (lbs/d)	Own (%)	Budget (lbs/d)	Budget (%)	Total Month (lbs)	Total Month (%)	FY Avg Total to Date (lbs)	FY Avg Total to Date (%)
CLB	5,605	11.22%	4,728	12.95%	159,714	12.39%	159,714	12.39%
EBSD	295	0.59%	147	0.40%	4,715	0.37%	4,715	0.37%
SCWD	4,480	8.96%	2,926	8.02%	116,712	9.06%	116,712	9.06%
ETWD	10,200	20.41%	5,903	16.17%	156,642	12.16%	156,642	12.16%
MNWD	29,395	58.82%	22,801	62.46%	850,843	66.03%	850,843	66.03%
Total	49,975	100.00%	36,505	100.00%	1,288,626	100.00%	1,288,626	100.00%

Project Committee No. 24 (ACOO)

Agency	Own (%)	Budget (mgd)	Budget (%)	Month Outfall Flow (mgd)	Month Outfall Flow (%)	FY Avg Outfall Flow (mgd)	FY Avg Outfall Flow (%)
CLB	11.000%	1.49	13.32%	1.897	30.50%	1.897	30.50%
EBSD	0.780%	0.06	0.54%	0.056	0.90%	0.056	0.90%
ETWD	16.302%	2.89	25.83%	1.448	23.28%	1.448	23.28%
IRWD	15.760%	2.62	23.41%	1.513	24.33%	1.513	24.33%
MNWD	43.848%	2.96	26.45%	1.346	21.65%	1.346	21.65%
SCWD	12.310%	1.17	10.46%	-0.041	-0.66%	-0.041	-0.66%
Total	100.000%	11.19	100.00%	6.218	0.00%	6.218	100.00%

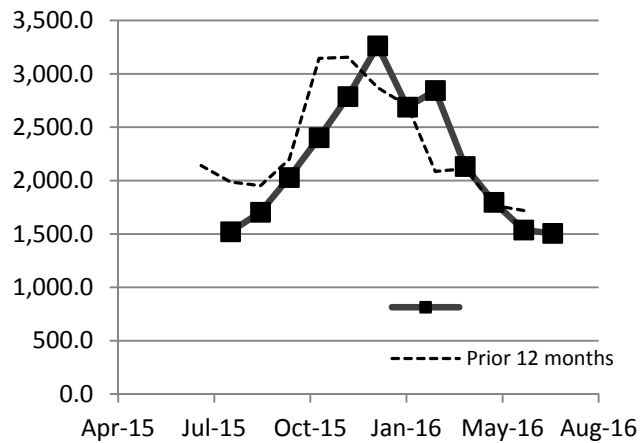
SOCWA Ocean Outfall Discharges by Agency

SOCWA Outfall Discharge Report July, 2016

Agency	SJCOO (mgd)	SJCOO (%)	ACOO (mgd)	ACOO (%)	Total (mgd)
CLB			1.90	30.50%	1.90
EBSD			0.06	0.90%	0.06
SCWD	1.77	17.83%	-0.04	-0.66%	1.73
MNWD	1.40	14.12%	1.35	21.65%	2.75
ETWD			1.45	23.28%	1.45
CSJC	2.22	22.38%			2.22
SMWD	2.76	27.87%			2.76
CSC	1.77	17.81%			1.77
IRWD			1.51	24.33%	1.51
Total	9.92	100.00%	6.22	100.00%	16.14
or Acre-Feet per year equivalent					18,071

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

Jul-16	1,505.9
Jun-16	1,537.5
May-16	1,797.4
Apr-16	2,132.5
Mar-16	2,843.8
Feb-16	2,688.8
Jan-16	3,262.6
Dec-15	2,787.0
Nov-15	2,402.8
Oct-15	2,029.6
Sep-15	1,704.4
Aug-15	1,521.7
Total	26,214.0



Beach Ocean Monitoring Report

ALISO CREEK OCEAN OUTFALL MONITORING REPORT

July 2016

DATE	IRWD LOS ALISOS WRP				EL TORO WRP				SOCWA REGIONAL PLANT				SOCWA COASTAL PLANT				IRWD IDP	IRWD SGU	SCWD ACWRF	ACOO FLOW	Rain Fall inches
	FLOW MGD	TSS mg/L	cBOD mg/L	SS ml/L	FLOW MGD	TSS mg/L	cBOD mg/L	SS ml/L	FLOW MGD	TSS mg/L	cBOD mg/L	SS ml/L	FLOW MGD	TSS mg/L	cBOD mg/L	SS ml/L	FLOW MGD	FLOW MGD	FLOW MGD	MGD	
07/01/16	No Flow				1.199	13.0	5.6	<0.1	0.010	1.8	1.0	0.2	1.672	2.7	4.0	0.1	0.725	0.687	0.103	4.396	
07/02/16	No Flow				1.454	12.2	3.4	<0.1	0.010				2.056				0.852	0.674	0.096	5.142	
07/03/16	No Flow				1.792	10.8	4.2	<0.1	0.620	3.8	2.0	0.1	2.765	17.6	9.0		0.853	0.670	0.105	6.805	
07/04/16	No Flow				1.808	24.0	9.8	<0.1	0.660	3.7	3.0	0.1	2.426	9.1	4.0	0.4	0.852	0.669	0.101	6.516	
07/05/16	No Flow				1.094	12.4	6.3	<0.1	0.970	5.4	4.0	0.1	2.072	3.4	3.0	0.1	0.853	0.670	0.094	5.753	
07/06/16	No Flow				2.294	17.0	9.0	<0.1	3.490	8.0	3.0	0.1	2.326	1.6	<2.0	0.1	0.853	0.669	0.094	9.726	
07/07/16	No Flow				1.236	12.8	6.6	<0.1	7.350	4.8	5.0	<0.1	1.977	2.0	2.0	0.1	0.852	0.682	0.106	12.203	
07/08/16	No Flow				1.076	14.2	6.8	<0.1	3.890	8.0	4.0	<0.1	1.147	2.4	3.0	<0.1	0.853	0.687	0.084	7.737	
07/09/16	No Flow				1.526	6.6	3.3	<0.1	7.540				1.107				0.853	0.688	0.103	11.817	
07/10/16	No Flow				2.069	13.2	5.3	<0.1	3.790	8.0	4.0	<0.1	1.178	8.6	7.0		0.852	0.687	0.111	8.687	
07/11/16	No Flow				1.142	14.2	4.8	<0.1	3.520	7.7	4.0	<0.1	1.190	1.7	4.0	<0.1	0.853	0.686	0.101	7.492	
07/12/16	No Flow				1.697	16.6	5.9	<0.1	5.070	8.3	4.0	<0.1	1.009	2.2	2.0	<0.1	0.853	0.672	0.099	9.400	
07/13/16	No Flow				1.890	22.6	10.6	<0.1	0.920	6.8	4.0	0.2	1.269	2.5	3.0	<0.1	0.852	0.669	0.106	5.706	
07/14/16	No Flow				0.981	11.0	4.5	<0.1	0.020	12.3	5.0	0.1	0.970	3.5	2.0	0.1	0.853	0.669	0.108	3.601	
07/15/16	No Flow				0.851	13.4	4.7	<0.1	0.250	6.8	4.0	0.2	1.852	1.9	3.0	0.1	0.838	0.683	0.098	4.572	
07/16/16	No Flow				2.167	12.2	4.3	<0.1	0.020				1.798				0.851	0.688	0.107	5.631	
07/17/16	No Flow				1.312	14.0	3.4	<0.1	0.100	3.0	5.0	<0.1	2.010	0.9	8.0		0.852	0.687	0.109	5.070	
07/18/16	No Flow				1.058	7.6	4.9	<0.1	1.880	4.2	3.0	0.1	2.254	6.2	5.0	0.1	0.852	0.686	0.096	6.826	
07/19/16	No Flow				1.405	7.8	3.2	<0.1	0.450	14.4	8.0	0.1	2.060	2.1	5.0	<0.1	0.852	0.437	0.111	5.315	
07/20/16	No Flow				1.221	10.6	4.4	<0.1	0.020	4.0	3.0	0.1	2.150	4.4	5.0	0.1	0.852	0.677	0.070	4.990	
07/21/16	No Flow				1.506	9.4	4.5	<0.1	0.040	2.2	1.0	0.1	1.614	3.8	6.0	<0.1	0.852	0.676	0.123	4.811	
07/22/16	No Flow				1.137	6.4	4.3	<0.1	0.070	2.8	2.0	<0.1	1.764	3.0	4.0	0.1	0.840	0.653	0.104	4.568	
07/23/16	No Flow				1.359	12.2	5.3	<0.1	0.010				1.741				0.853	0.662	0.099	4.724	
07/24/16	No Flow				1.658	5.6	5.4	<0.1	0.000				1.947	16.5	11.0		0.852	0.657	0.101	5.215	
07/25/16	No Flow				1.345	16.6	2.4	<0.1	0.250	7.0	4.0	<0.1	2.304	2.2	4.0	<0.1	0.852	0.657	0.099	5.507	
07/26/16	No Flow				1.622	6.6	2.5	<0.1	0.180	7.8	3.0	<0.1	1.879	6.4	6.0	<0.1	0.852	0.667	0.102	5.302	
07/27/16	No Flow				1.640	11.4	4.7	<0.1	0.000				1.730	2.3	5.0	0.1	0.852	0.656	0.101	4.979	
07/28/16	No Flow				1.215	9.0	3.7	<0.1	0.040	3.0	2.0	0.1	1.930	3.6	4.0	0.1	0.852	0.655	0.110	4.802	
07/29/16	No Flow				0.950	9.4	2.9	<0.1	0.020	5.2	3.0	0.1	2.064	3.0	3.0	0.1	0.852	0.656	0.094	4.636	
07/30/16	No Flow				1.663	10.0	2.2	<0.1	0.020				1.910				0.827	0.690	0.115	5.225	
07/31/16	No Flow				1.510	15.2	2.4	<0.1	0.530	4.7	4.0	<0.1	1.947	9.0	7.0		0.853	0.684	0.091	5.615	
AVG	No Flow				1.448	12.2	4.9	<0.1	1.346	6.0	3.5	<0.1	1.810	4.7	4.7	<0.1	0.847	0.666	0.101	6.218	
TOTAL	No Flow				44.88				41.74				56.12				26.24	20.65	3.141	192.77	None

South Orange County Wastewater Authority-Aliso Creek Ocean Outfall

REPORT FOR: July 2016
 REPORT DUE: September 1 2016
 SAMPLE SOURCE: Surf zone
 TYPE OF SAMPLE: Grab

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

Tidal Condition: High Tide 1117

Weather: Overcast

COMMENTS:

STA#	DATE	TIME	Total	Fecal	Entero-	Material of Sewage		Oil & Grease	Odor	Water Color	H2O Temp(F)	Water Condition	Water Outlet	Birds
			Coliform CFU/100ml SM9222B	Coliform CFU/100ml SM9222D	coccus CFU/100ml EPA 1600	Onshore	Offshore							
S3	07/06/16	0940	12	<20	1	None	None	None	None	Green	68	Turbid		
S4	07/06/16	0925	9	<20	<3	None	None	None	None	Green		Turbid		
S5	07/06/16	0910	<20	<20	8	None	None	None	None	Green		Turbid		
S6	07/06/16	0900	<20	<20	<3	None	None	None	None	Green		Turbid		
WEST	07/06/16	0855	9	<20	<3	None	None	None	None	Green		Turbid		
S7	07/06/16	0850	30	<20	<3	None	None	None	None	Green		Turbid		
S8	07/06/16	0815	<20	<20	<3	None	None	None	None	Green		Turbid		
S9	07/06/16	0835	<20	20	<3	None	None	None	None	Green		Turbid		
ACM1	07/06/16	0830	9	9	2	None	None	None	None	Green		Turbid		
S10	07/06/16	0800	<20	<20	<3	None	None	None	None	Green		Slightly Turbid		
S11	07/06/16	0755	20	9	<3	None	None	None	None	Green		Slightly Turbid		
S12	07/06/16	0750	9	<20	<3	None	None	None	None	Green	68	Slightly Turbid		

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

South Orange County Wastewater Authority-Aliso Creek Ocean Outfall

REPORT FOR: July 2016
 REPORT DUE: September 1, 2016
 SAMPLE SOURCE: Receiving water surf zone
 TYPE OF SAMPLE: Grab

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

Tidal Condition: Low Tide 0852

Weather: Partly Cloudy

COMMENTS:

STA#	DATE	TIME	Total Coliform	Fecal Coliform	Entero-coccus	Material of Sewage		Oil & Grease	Odor	Water Color	H2O Temp(F)	Water Condition	Water Outlet	Birds
			CFU/100ml SM9222B	CFU/100ml SM9222D	CFU/100ml EPA 1600	Onshore	Offshore							
S3	07/11/16	0750	<20	<20	<3	None	None	None	None	Green	71	Slightly Turbid		3
S4	07/11/16	0805	<20	<20	<3	None	None	None	None	Green	71	Slightly Turbid		
S5	07/11/16	0818	<20	<20	<3	None	None	None	None	Green		Slightly Turbid		
S6	07/11/16	0834	10	<20	<3	None	None	None	None	Green		Slightly Turbid		
WEST	07/11/16	0839	<20	<20	<3	None	None	None	None	Green	71	Slightly Turbid		
S7	07/11/16	0843	<20	<20	<3	None	None	None	None	Green		Slightly Turbid		
S8	07/11/16	0847	<20	<20	<3	None	None	None	None	Green		Slightly Turbid		
S9	07/11/16	0955	<20	<20	<3	None	None	None	None	Green	71	Slightly Turbid		
ACM1	07/11/16	0951	<20	<20	<3	None	None	None	None	Green		Slightly Turbid		
S10	07/11/16	0927	10	<20	<3	None	None	None	None	Green	71	Slightly Turbid		
S11	07/11/16	0922	10	20	<3	None	None	None	None	Green		Slightly Turbid		
S12	07/11/16	0939	<20	<20	<3	None	None	None	None	Green		Slightly Turbid		

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

South Orange County Wastewater Authority-Aliso Creek Ocean Outfall

REPORT FOR: July 2016
 REPORT DUE: September 1, 2016
 SAMPLE SOURCE: Receiving water surf zone
 TYPE OF SAMPLE: Grab

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

Tidal Condition: High Tide 1035
 Weather: Clear
 COMMENTS:

STA#	DATE	TIME	Total	Fecal	Entero-	Material of Sewage		Oil & Grease	Odor	Water Color	H2O Temp(F)	Water Condition	Water Outlet	Birds
			Coliform CFU/100ml SM9222B	Coliform CFU/100ml SM9222D	coccus CFU/100ml EPA 1600	Onshore	Offshore							
S3	07/20/16	800	<20	<20	<3	None	None	None	None	Green	70	Clear		
S4	07/20/16	1010	<20	<20	<3	None	None	None	None	Green		Clear		
S5	07/20/16	950	<20	<20	<3	None	None	None	None	Green		Clear		
S6	07/20/16	930	<20	<20	<3	None	None	None	None	Green		Clear		
WEST	07/20/16	925	<20	<20	3	None	None	None	None	Green		Clear		
S7	07/20/16	920	<20	<20	3	None	None	None	None	Green		Clear		
S8	07/20/16	910	<20	<20	2	None	None	None	None	Blue		Clear		
S9	07/20/16	845	<10	<10	<10	None	None	None	None	Green		Clear		
ACM1	07/20/16	835	<20	<20	<3	None	None	None	None	Green		Clear		
S10	07/20/16	825	<20	<20	<3	None	None	None	None	Green		Clear		
S11	07/20/16	815	<20	<20	<3	None	None	None	None	Green		Clear		
S12	07/20/16	810	<20	<20	<3	None	None	None	None	Green	71	Clear		

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

South Orange County Wastewater Authority-Aliso Creek Ocean Outfall

REPORT FOR: July 2016
 REPORT DUE: September 1, 2016
 SAMPLE SOURCE: Receiving water surf zone
 TYPE OF SAMPLE: Grab

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

Tidal Condition: Low Tide 0735

Weather: Partly Cloudy

COMMENTS:

STA#	DATE	TIME	Total	Fecal	Entero-	Material of Sewage		Oil & Grease	Odor	Water Color	H2O Temp(F)	Water Condition	Water Outlet	Birds
			Coliform CFU/100ml SM9222B	Coliform CFU/100ml SM9222D	coccus CFU/100ml EPA 1600	Onshore	Offshore							
S3	07/25/16	0830	6	<2	<2	None	None	None	None	Green	76	Slightly Turbid		
S4	07/25/16	0800	4	<2	<2	None	None	None	None	Green		Slightly Turbid		
S5	07/25/16	0745	20	10	<2	None	None	None	None	Green	75	Clear		
S6	07/25/16	1015	10	<4	<2	None	None	None	None	Green		Slightly Turbid		
WEST	07/25/16	1010	<2	<2	<2	None	None	None	None	Green	76	Slightly Turbid		
S7	07/25/16	1005	10	<2	<2	None	None	None	None	Green		Clear		
S8	07/25/16	1000	<4	<4	2	None	None	None	None	Blue		Clear		
S9	07/25/16	0910	<2	2	300	None	None	None	None	Green	75	Slightly Turbid		
ACM1	07/25/16	0915	<10	10	2	None	None	None	None	Green		Slightly Turbid		25
S10	07/25/16	0920	<4	<4	<2	None	None	None	None	Blue		Clear		
S11	07/25/16	0925	4	4	<2	None	None	None	None	Blue		Clear		
S12	07/25/16	0935	4	16	<2	None	None	None	None	Blue		Clear		

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

Aliso Creek Ocean Outfall

Unified Beach Water Quality Monitoring Stations

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

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

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



MONITORING REPORT

Off Shore Stations

South Orange County Wastewater Authority

DISCHARGE: Aliso Creek Ocean Outfall

REPORT FOR: July 2016

REPORT DUE: September 1, 2016

SAMPLE SOURCE: Receiving water, nearshore and offshore

EXACT SAMPLE POINTS: As specified in permit

SAMPLES COLLECTED BY: Seaventures/SOCWA staff

SAMPLES ANALYZED BY: SOCWA Lab

REPORT FREQUENCY: Monthly

SAMPLING FREQUENCY: Monthly

TYPE OF SAMPLE: Grab

Comments: Low Tide 1043

Sta No.	Sample Depth	Sample Date	Total Coliform	Fecal Coliform	Enterococcus	Sample Time	Oil & Grease	Sewage Debris	0 - None 1 - Mild 2 - Moderate 3 - Severe
			CFU/100ml SM9222B	CFU/100ml SM9222D	CFU/100ml EPA 1600				
A-1	Surface	07/13/16	<2	<2	<2	759	0	0	
A-1	Mid depth	07/13/16	<10	<10	<10				
A-2	Surface	07/13/16	<2	<2	<2	743	0	0	
A-2	Mid depth	07/13/16	<10	<10	<10				
A-3	Surface	07/13/16	<2	2	<2	748	0	0	
A-3	Mid depth	07/13/16	<10	<10	<10				
A-4	Surface	07/13/16	<2	<2	<2	803	0	0	
A-4	Mid depth	07/13/16	<10	<10	<10				
A-5	Surface	07/13/16	2	<2	<2	753	0	0	
A-5	Mid depth	07/13/16	<10	<10	<10				
B-1	Surface	07/13/16	<2	<2	<2	739	0	0	
B-1	Mid depth	07/13/16	10	<10	<10				
B-2	Surface	07/13/16	<2	<2	<2	809	0	0	
B-2	Mid depth	07/13/16	<10	<10	<10				
N1	Surface	07/13/16	<2	<2	<2	830	0	0	
N2	Surface	07/13/16	10	<2	<2	825	0	0	
N3	Surface	07/13/16	<2	<2	<2	0824	0	0	
N4	Surface	07/13/16	<2	<2	<2	821	0	0	
N5	Surface	07/13/16	<2	<2	<2	819	0	0	
N6	Surface	07/13/16	<2	<2	<2	818	0	0	
N7	Surface	07/13/16	4	<2	<2	815	0	0	

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

**Compliance Summary Report
Aliso Creek Ocean Outfall 2016**

ACOO Permit Order No. R9-2012-0013

Agency - Facility	Violation Date	Constituent	Effluent Limit Violation	Units	Permit Limit	Reported Value	Potential Fine
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There were no water quality violations during this reporting period.



**SOCWA and MEMBER AGENCY FACILITIES
ACOO Spill / Overflow Report Log - 2016
Order No. R9-2012-0013 ~ NPDES Permit No. CA0107611**

Reporting Agency	Responsible Agency	Estimated Volume (Gallons)	Type of Discharge	Location/Comments	Receiving Waters	Date Reported To State	Date Resolved
				There were no spills in this time period.			

SAN JUAN CREEK OCEAN OUTFALL MONITORING REPORT

July 2016

DATE	J.B. LATHAM FACILITY				SAN CLEMENTE WRP				SMWD CHIQUITA WRP				3-A PLANT				CSJC	SCWD	SJCOO	Rain
	FLOW MGD	TSS mg/L	cBOD mg/L	SS ml/L	FLOW MGD	TSS mg/L	cBOD mg/L	SS ml/L	FLOW MGD	TSS mg/L	cBOD mg/L	SS ml/L	FLOW MGD	TSS mg/L	cBOD mg/L	SS ml/L	Desalter FLOW MGD	Desalter FLOW MGD	FLOW MGD	Fall inches
07/01/16	5.640	7.6	3.8	0.2	2.362	10.7	6.0	<0.1	0.240	10.0	6.3	<0.1	0.066	6.4	5.0	0.1	0.527	No Flow	8.630	
07/02/16	5.710				1.462	12.6	8.0	<0.1	0.140				0.031				0.525	No Flow	8.710	
07/03/16	5.780	5.4	3.9		2.075	13.0	8.0	<0.1	0.350				0.061				0.524	No Flow	9.190	
07/04/16	5.770	4.5	6.0	0.2	2.190	13.6	8.0	<0.1	0.370	26.0	8.0	<0.1	0.047	9.2	7.0	<0.1	0.524	No Flow	9.070	
07/05/16	5.910	23.6	8.3	0.1	2.342	14.0	8.0	<0.1	0.710	12.4	8.8	0.1	0.160	10.4	8.0	<0.1	0.523	No Flow	9.580	
07/06/16	5.890	8.3	5.9	0.2	2.342	13.2	8.0	<0.1	0.190	6.4	6.4	<0.1	0.098	5.2	5.0	<0.1	0.337	No Flow	8.870	
07/07/16	5.860	13.5	7.7	0.1	1.934	14.0	8.0	<0.1	0.090	4.4	4.3	<0.1	0.120	5.2	5.0	0.1	No Flow	No Flow	8.340	
07/08/16	5.400	9.5	6.7	0.1	2.165	10.4	7.0	<0.1	0.100	4.0	5.8	<0.1	0.106	5.0	5.0	0.1	No Flow	No Flow	7.770	
07/09/16	5.630				1.856				1.270				0.137				No Flow	No Flow	7.830	
07/10/16	5.580	8.3	3.9		1.939				0.850				0.102				0.329	No Flow	7.880	
07/11/16	5.530	10.8	5.3	<0.1	2.155	9.7	8.0	<0.1	1.920	6.4	8.6	0.1	0.260	4.8	8.0	<0.1	0.490	No Flow	8.650	
07/12/16	5.580	9.3	3.6	<0.1	1.845	11.5	7.0	<0.1	0.170	12.4	8.3	0.1	0.114	6.0	7.0	<0.1	0.506	No Flow	8.540	
07/13/16	5.420	17.8	11.2	0.1	1.930	11.7	7.0	<0.1	0.320	6.0	7.0	<0.1	0.103	4.8	3.0	<0.1	0.499	No Flow	8.630	
07/14/16	5.420	13.5	5.8	0.4	2.533	8.6	6.0	<0.1	0.050	5.6	4.8	<0.1	0.179	5.2	5.0	<0.1	0.500	No Flow	8.570	
07/15/16	5.420	5.6	4.6	0.2	1.897	10.8	8.0	<0.1	0.170	4.0	3.7	<0.1	0.222	5.6	5.0	<0.1	0.488	No Flow	8.570	
07/16/16	5.170				2.011				0.020				0.068				0.504	No Flow	7.970	
07/17/16	5.420	5.7	6.8		1.937				0.120				0.128				0.506	No Flow	8.480	
07/18/16	5.540	10.3	6.4	0.2	1.773	11.3	8.0	<0.1	0.220	10.8	8.5	<0.1	0.145	6.0	8.0	<0.1	0.503	No Flow	8.890	
07/19/16	5.210	8.1	5.2	<0.1	1.190	13.7	8.0	<0.1	0.060	2.4	7.3	<0.1	0.126	6.4	6.0	<0.1	0.501	No Flow	8.290	
07/20/16	5.290	8.2	5.4	0.2	1.703	14.8	9.0	<0.1	0.020	3.2	5.7	<0.1	0.040	3.6	5.0	0.1	0.326	No Flow	7.800	
07/21/16	5.090	6.0	5.4	<0.1	1.733	9.4	7.0	<0.1	0.010	2.4	6.1	<0.1	0.038	9.2	5.0	<0.1	No Flow	No Flow	7.160	
07/22/16	4.910	3.3	4.0	0.1	2.040	8.6	6.0	<0.1	0.420	6.4	8.7	<0.1	0.122	3.6	5.0	0.1	No Flow	No Flow	7.650	
07/23/16	5.050				1.513				0.030	6.8	8.8	<0.1	0.124	6.4	5.0	<0.1	No Flow	No Flow	7.100	
07/24/16	5.440	2.2	3.0		1.439				0.110	7.6	11.6	<0.1	0.339	6.8	6.0	0.2	No Flow	No Flow	7.770	
07/25/16	5.750	11.9	7.8	0.1	1.336	11.4	8.0	<0.1	1.100	6.4	7.0	<0.1	No Flow				0.341	No Flow	8.950	
07/26/16	5.920	8.5	4.7	0.1	0.870	9.8	7.0	<0.1	0.600	9.2	8.0	<0.1	No Flow				0.493	No Flow	9.120	
07/27/16	6.470	5.4	3.0	0.2	1.064	10.1	7.0	<0.1	0.230	5.2	10.4	<0.1	No Flow				0.510	No Flow	8.630	
07/28/16	6.620	7.5	4.0	0.2	1.521	11.6	8.0	<0.1	0.590	5.2	9.1	<0.1	No Flow				0.512	No Flow	9.290	
07/29/16	6.450	5.2	4.3	0.2	1.036	8.4	7.0	<0.1	0.370	2.8	6.5	<0.1	No Flow				0.512	No Flow	8.560	
07/30/16	6.530				1.325				0.110				No Flow				0.513	No Flow	8.290	
07/31/16	6.670	10.6	10.7		1.230				0.320				No Flow				0.512	No Flow	8.830	
AVG	5.680	8.9	5.7	<0.2	1.766	11.4	7.5	<0.1	0.364	7.2	7.4	<0.1	0.095	6.1	5.7	<0.1	0.371	No Flow	8.439	
TOTAL	176.070				54.748				11.270				2.936				11.505	No Flow	261.610	None

REPORT FOR: July 2016
 REPORT DUE: September 1, 2016
 SAMPLE SOURCE: Receiving water surf zone
 TYPE OF SAMPLE: Grab

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

Tidal Condition: High Tide 1142

Weather: Partly Cloudy

COMMENTS:

STA#	DATE	TIME	Total Coliform	Fecal Coliform	Entero-coccus	Material of Sewage		Oil & Grease	Odor	Water Color	H2O Temp(F)	Water Condition	Water Outlet	Birds
			CFU/100ml SM9222B	CFU/100ml SM9222D	CFU/100ml EPA 1600	Onshore	Offshore							
S0	07/05/16	1015	<40	<40	2	None	None	None	None	Green	72	Turbid		
S1	07/05/16	1035	<40	<40	<4	None	None	None	None	Green		Turbid		
S2	07/05/16	1000	20	<40	<4	None	None	None	None	Green		Turbid		
DSB5	07/05/16	955	20	20	40	None	None	None	None	Brown	73	Turbid		
S3	07/05/16	1045	<40	<40	<4	None	None	None	None	Green		Turbid		
DSB4	07/05/16	1040	<40	20	30	None	None	None	None	Green		Turbid		
S5	07/05/16	1050	<40	20	2	None	None	None	None	Green	72	Turbid		
DSB1	07/05/16	1055	<40	<40	<4	None	None	None	None	Green		Turbid		
SJC1	07/05/16	1010	<100	50	5	None	None	None	None	Green		Turbid		

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

REPORT FOR: July 2016
 REPORT DUE: September 1, 2016
 SAMPLE SOURCE: Receiving water surf zone
 TYPE OF SAMPLE: Grab

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

Tidal Condition: Low Tide 0852

Weather: Partly Cloudy

COMMENTS:

STA#	DATE	TIME	Total	Fecal	Entero-	Material of Sewage		Oil & Grease	Odor	Water Color	H2O Temp(F)	Water Condition	Water Outlet	Birds
			Coliform CFU/100ml SM9222B	Coliform CFU/100ml SM9222D	coccus CFU/100ml EPA 1600	Onshore	Offshore							
S0	07/11/16	816	<20	<20	<2	None	None	None	None	Green	74	Turbid		
S1	07/11/16	822	<20	<20	<2	None	None	None	None	Green		Turbid		
S2	07/11/16	810	<20	<20	<2	None	None	None	None	Green		Turbid		
DSB5	07/11/16	759	<20	<20	5	None	None	None	None	Green		Turbid		
S3	07/11/16	829	<20	<20	<2	None	None	None	None	Green	74	Turbid		
DSB4	07/11/16	832	<20	<20	<2	None	None	None	None	Green		Turbid		
S5	07/11/16	842	<20	<20	<2	None	None	None	None	Green		Turbid		
DSB1	07/11/16	852	<20	<20	<2	None	None	None	None	Green	74	Turbid		
C1	07/11/16	815	<20	<20	<2	None	None	None	None	Green		Turbid		

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

South Orange County Wastewater Authority-San Juan Creek Ocean Outfall

REPORT FOR: July 2016
 REPORT DUE: September 1, 2016
 SAMPLE SOURCE: Receiving water surf zone
 TYPE OF SAMPLE: Grab

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

Tidal Condition: High tide 1111

Weather: Clear

COMMENTS:

STA#	DATE	TIME	Total Coliform	Fecal Coliform	Entero-coccus	Material of Sewage		Oil & Grease	Odor	Water Color	H2O Temp(F)	Water Condition	Water Outlet	Birds
			CFU/100ml SM9222B	CFU/100ml SM9222D	CFU/100ml EPA 1600	Onshore	Offshore							
S0	07/21/16	855	40	20	<20	None	None	None	None	Green		Turbid		
S1	07/21/16	859	<20	<20	<20	None	None	None	None	Green		Turbid		
S2	07/21/16	840	<20	20	<20	None	None	None	None	Green		Turbid		
DSB5	07/21/16	830	200	90	100	None	None	None	None	Green		Turbid		
S3	07/21/16	904	<20	<20	<20	None	None	None	None	Green		Turbid		
DSB4	07/21/16	905	<20	<20	<20	None	None	None	None	Green		Turbid		
S5	07/21/16	915	<20	<20	<20	None	None	None	None	Green		Turbid		
DSB1	07/21/16	925	<20	<20	<20	None	None	None	None	Green		Turbid		
C1	07/21/16	850	20	20	5	None	None	None	None	Green		Turbid		

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

South Orange County Wastewater Authority-San Juan Creek Ocean Outfall

REPORT FOR: July 2016
 REPORT DUE: September 1, 2016
 SAMPLE SOURCE: Receiving water surf zone
 TYPE OF SAMPLE: Grab

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

Tidal Condition: Low Tide 0829
 Weather: Clear
 COMMENTS:

STA#	DATE	TIME	Total	Fecal	Entero-	Material of Sewage		Oil & Grease	Odor	Water Color	H2O Temp(F)	Water Condition	Water Outlet	Birds
			Coliform CFU/100ml SM9222B	Coliform CFU/100ml SM9222D	coccus CFU/100ml EPA 1600	Onshore	Offshore							
S0	07/26/16	0825	20	20	2	None	None	None	None	Green		Turbid		
S1	07/26/16	0830	<20	<20	2	None	None	None	None	Green	76	Turbid		
S2	07/26/16	0820	90	100	100	None	None	None	None	Green		Turbid		
DSB5	07/26/16	0800	<20	<20	4	None	None	None	None	Green	76	Turbid		
S3	07/26/16	0835	<20	<20	2	None	None	None	None	Green		Turbid		
DSB4	07/26/16	0845	<20	<20	<2	None	None	None	None	Green		Turbid		
S5	07/26/16	0900	<20	<20	<2	None	None	None	None	Green		Turbid		
DSB1	07/26/16	0910	<20	<20	<2	None	None	None	None	Green	76	Turbid		
C1	07/26/16	0825	<90	90	10	None	None	None	None	Green		Turbid		

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

San Juan Creek Ocean Outfall

Unified Beach Water Quality Monitoring Stations

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

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



MONITORING REPORT

Offshore

South Orange County Wastewater Authority

DISCHARGE: San Juan Creek Ocean Outfall

REPORT FOR: July 2016

REPORT FREQUENCY: Monthly

REPORT DUE: September 1, 2016

SAMPLE SOURCE: Receiving water, nearshore and offshore

SAMPLING FREQUENCY: Monthly

EXACT SAMPLE POINTS: As specified in permit

TYPE OF SAMPLE: Grab

SAMPLES COLLECTED BY: Seaventures/SOCWA staff

SAMPLES ANALYZED BY: SOCWA Lab

Comments: Low Tide 1043

Sta No.	Sample Depth	Sample Date	Total Coliform CFU/100ml SM9222B	Fecal Coliform CFU/100ml SM9222D	Enterococcus CFU/100ml EPA 1600	Sample Time	Oil & Grease	Sewage Debris	
A-1	Surface	07/13/16	<2	<2	<2	922	0	0	0 - None
A-1	Mid depth	07/13/16	10	<10	<10				1 - Mild
A-2	Surface	07/13/16	<2	<2	<2	926	0	0	2 - Moderate
A-2	Mid depth	07/13/16	<10	<10	<10				3 - Severe
A-3	Surface	07/13/16	<2	<2	<2	929	0	0	
A-3	Mid depth	07/13/16	<10	<10	<10				
A-4	Surface	07/13/16	<2	<2	<2	938	0	0	
A-4	Mid depth	07/13/16	<10	<10	<10				
A-5	Surface	07/13/16	<2	<2	<2	932	0	0	
A-5	Mid depth	07/13/16	<10	<10	<10				
B-1	Surface	07/13/16	<2	<2	<2	915	0	0	
B-1	Mid depth	07/13/16	<10	<10	<10				
B-2	Surface	07/13/16	2	<2	<2	948	0	0	
B-2	Mid depth	07/13/16	<10	<10	<10				
N1	Surface	07/13/16	2	<2	<2	908	0	0	
N2	Surface	07/13/16	2	<2	<2	905	0	0	
N3	Surface	07/13/16	<2	<2	<2	900	0	0	
N4	Surface	07/13/16	<2	<2	<2	855	0	0	
N5	Surface	07/13/16	<2	<2	<2	852	0	0	
N6	Surface	07/13/16	<2	<2	<2	849	0	0	

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

**Compliance Summary Report
San Juan Creek Ocean Outfall 2016**

SJCOO Permit Order No. R9-2012-0012							
Agency	Violation Date	Constituent	Effluent Limit Violation	Units	Permit Limit	Reported Value	Potential Fine
There were no water quality violations during this period.							



SOCWA and MEMBER AGENCY FACILITIES
SJCOO Spill / Overflow Report Log - 2016
Order No. R9-2012-0012 ~ NPDES Permit No. CA0107417

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

Recycled Water Report

**Compliance Summary Report
Recycled Water Permit
2016**

Waste Discharge Requirement Order 97 - 52							
Agency - Facility	Violation Date	Constituent	Effluent Limit Violation	Units	Permit Limit	Reported Value	Remarks
SCWD-CTP	1/4/2016	Manganese	12-Month	mg/L	0.05	0.06	
SOCWA - RTP	1/4/2016	Manganese	Daily	mg/L	0.06	0.07	
SMWD - Chiquita WRP	1/21/2016	Total Coliform	Monitoring	MPN/100ml	Daily	None	Monitoring Violation
SOCWA - RTP	2/11/2016	Manganese	Daily	mg/L	0.06	0.07	
SOCWA - RTP	2/11/2016	Manganese	12-Month	mg/L	0.05	0.06	
SCWD-CTP	2/9/2016	Manganese	12-Month	mg/L	0.05	0.06	
SCWD-3A	2/9/2016	Manganese	12-Month	mg/L	0.05	0.06	
SOCWA - RTP	3/1/2016	Manganese	12-Month	mg/L	0.05	0.06	
SCWD-CTP	3/1/2016	Manganese	12-Month	mg/L	0.05	0.06	
SMWD-3A	4/7/2016	Manganese	12-Month	mg/L	0.05	0.06	
SMWD - Nichols	4/7/2016	TDS	Daily	mg/L	1100	1110	
SOCWA - RTP	4/14/2016	Manganese	12-Month	mg/L	0.05	0.06	
SOCWA - RTP	4/14/2016	Manganese	12-Month	mg/L	0.05	0.06	
SCWD-CTP	4/14/2016	Manganese	12-Month	mg/L	0.05	0.06	
SMWD - OCWRP	4/24/2016	Total Coliform	Monthly	MPN/100ml	23	70	Sample result on 4/3/16 was 49 & on 4/24/16 was 70, exceeding 23 in one month
SOCWA - RTP	5/10/2016	Manganese	12-Month	mg/L	0.05	0.06	
SCWD-CTP	5/10/2016	Manganese	12-Month	mg/L	0.05	0.06	
SOCWA - RTP	6/14/2016	Manganese	12-Month	mg/L	0.05	0.06	
SCWD-CTP	6/14/2016	Manganese	12-Month	mg/L	0.05	0.06	
SOCWA - RTP	7/5/2016	Manganese	12-Month	mg/L	0.05	0.06	
SCWD-CTP	7/5/2016	Manganese	12-Month	mg/L	0.05	0.06	

**Recycled Water Quality
Summary
2016**

SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

QUARTERLY RECYCLED WATER MONITORING

Monitoring Period Ending: July 31, 2016

Constituent	Units	12-month Avg Maximum Permit Limit	IRWD-LAWRP 12-month Average	ETWD-WRP 12-month Average	TCWD 12-month Average	SMWD Oso 12-month Average	SMWD Chiquita 12-month Average	SMWD Nichols 12-month Average	MNWD-3A 12-month Average	MNWD-RTP 12-month Average	SCWD-CTP 12-month Average
			*	*							***
TDS	mg/L	1000	868	1011	1000	960	971	1090	1010	970	1042
Chloride	mg/L	375	177	184	240	181	200	290	231	238	247
Sulfate	mg/L	400	201	278	300	285	300	350	310	331	297
Sodium	mg/L	None	211	168	200	140	99	240	170	184	195
Alkalinity	mg/L	None								269	200
Adjusted SAR	Ratio	None	4.90		6.70	4.14	2.99	6.08	5.03	4.37	4.63
Iron	mg/L	0.3	0.013	0.020	0.027	0.010	0.120	0.010	0.290	0.250	0.140
Manganese	mg/L	0.05	0.014	0.010	0.005	0.021	0.035	0.022	0.070	0.057	0.051
MBAS	mg/L	0.5	0.07	<0.10	0.07	0.10	0.10	0.10	0.10	0.08	<0.10
Boron	mg/L	0.75	0.36	0.320	0.36	0.27	0.36	0.35	0.32	0.32	0.27
Fluoride	mg/L	None	0.43	1.47	0.28	1.37	0.64	1.36	1.03	0.91	0.90
Total Organic Carbon	mg/L	None	9.0		8.7	6.8	7.6	7.1	9.8	11.0	10.0

* Region 8 recycled water discharges from the LAWRP & ETWD WRP are based on limits in their individual Region 8 WDR Orders

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

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

SOCWA Service Area Recycled Water Production (Ac-Ft) - 2016

Agency	Facility or Region	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Annual Totals
CSJC ¹	3-A Plant/MNWD	0.00	1.82	6.76	23.86	28.38	26.04	12.92						99.78
CSJC ²	Chiquita/SMWD	8.53	16.14	16.23	21.95	22.83	25.94	NR						111.62
CSJC ³	Non-Domestic Well	0.88	0.38	2.41	0.27	0.00	20.48	48.18						72.60
ETWD	Region 8	23.42	55.08	52.33	105.24	133.64	172.46	137.72						679.89
IRWD														
	⁴ IRWD - 8	11.00	43.30	37.20	95.60	84.80	98.50	111.30						481.70
	⁴ IRWD - 9	8.80	33.60	31.30	59.20	62.40	88.10	104.40						387.80
SCWD	SOCWA CTP	35.37	76.63	47.88	94.72	112.39	122.75	170.09						659.83
MNWD	JRP	103.73	233.36	250.70	470.52	536.66	630.13	584.56						2809.66
	3-A Plant	0.00	38.94	0.00	126.06	171.24	178.12	185.33						699.69
	⁵ CTP	-0.43	14.22	-1.88	5.04	3.09	6.45	25.37						51.86
SMWD	Oso Creek	158.48	107.56	138.93	143.01	140.89	131.78	150.50						971.15
	Chiquita	66.20	269.51	240.11	388.28	380.84	459.30	502.25						2306.49
	Nichols	0.00	1.47	1.58	1.45	1.60	1.81	2.09						10.00
TCWD	RRWRP	53.49	48.18	52.36	48.80	52.35	50.10	45.24						350.52
TOTALS		461.37	908.01	854.80	1533.15	1676.81	1953.53	2041.66	0.00	0.00	0.00	0.00	0.00	9429.33

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

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

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

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

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

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

NR = No Report

Pretreatment Report

Agenda Item

Legal Counsel Review: N/A

Meeting Date: August 31, 2016

TO: SOCWA Board of Directors
FROM: Betty Burnett, General Manager
STAFF CONTACT: Katie Greenwood, Source Control Manager
SUBJECT: Monthly Pretreatment Report, July and August 2016
San Juan Creek Ocean Outfall
NPDES Permit #CA0107417 Order #R9-2012-0012
Aliso Creek Ocean Outfall
NPDES Permit #CA0107611 Order #R9-2012-0013

Summary of Program Activities

- SOCWA completed amending its pretreatment ordinance to include a hazardous waste discharge notification provision as stated in the federal regulations 40CFR403.12(p)(1) during the April 2, 2015 Board meeting. Currently the CSC, CLB, ETWD, IRWD, MNWD, SMWD, SCWD and TCWD have completed amending their pretreatment ordinances. **CSJC is in the last stage of amending its pretreatment ordinance and will submit a copy to SOCWA once signed and finalized.** (EBSD has no industrial users). This action to update the pretreatment ordinances is considered non-substantial and was begun by SOCWA prior to May 31, 2015, start date as stated in the response to the 2014 PCA.
 - With the assistance of SOCWA Staff, CSJC Staff prepared a City Council Agenda Report set to go before the Council on September 6, 2016.
- SOCWA Staff continues to utilize the CA Manufactures Directory to perform industrial waste surveys and identify potential industry requiring a permit to discharge wastewater.
 - Federal pretreatment regulations require SOCWA conduct an annual Industrial Waste Survey of its entire jurisdiction to identify new industry. SOCWA manages a running IU Survey list/spreadsheet of all identified commercial and industrial businesses located in each Member Agency's (MA's) jurisdiction. Each MA IU Survey list is updated as often as possible. **SMWD, MNWD, IRWD** and **ETWD** frequently send SOCWA copies of "Will Serve" notices which describe new business and whether or not a grease interceptor is required. SOCWA would like to set-up similar procedures with the **CSC, CSJC, CLB** and **SCWD** in the very near future. SOCWA also maintains a subscription to an online database called the California Manufacturers Directory through which potential new industry may be sorted by zip code, standard industrial classification (SIC) code, and number of people employed. This sorted list may then be cross referenced with each MA IU Survey list to identify IU sites which have not been surveyed and may need to be.
- SOCWA Staff has started the annual site inspections and monitoring/sampling of all SIU/CIU's in the SOCWA service area. This is a required activity of the SOCWA approved pretreatment program. The information and data obtained from these required activities will be incorporated into the SOCWA Pretreatment Annual Report.

- SOCWA Staff completed the Semi-Annual Pretreatment Report narrative. This report was uploaded to the State California Integrated Water Quality System (CIWQS) electronic database on August 15, 2016.
- SOCWA Staff has provided MAs with the required reporting forms to assist in the production of the annual pretreatment report, which is due to regulatory agencies by March 1, 2017. Influent and effluent data from each of the treatment plants and the narrative portion of the report will be submitted electronically to the State. The CSC has already submitted their plant influent and effluent data for their section in the annual report. Staff will record the requested data when received from the member agencies.

Trainings and Outreach

- SOCWA Staff attended the EPA Region VI Annual Pretreatment Workshop in Frisco, TX August 1-3, 2016.
- SOCWA Staff attended the CWEA P3S Committee Meeting and Math Training Session on August 9, 2016.
- SOCWA Staff is planning to participate in the annual California Coastal Clean-up Day event on Saturday, September 17, 2016. Staff plans to set-up a booth to provide educational material and engage the public in conversation about SOCWA's environmental goals and water related subjects and issues.

Inspection Related Activities

- SOCWA Staff is scheduled to continue inspecting diversion sites located in the City of Dana Point on September 8, 2016.
 - SOCWA currently manages 18 Nuisance Water Diversion Permits, some with multiple diversion sites.
- SOCWA Staff inspected the following industrial sites on the following dates:
 - South Coast Fashion Jewelry – August 22, 2016
 - Global Power – August 16, 2016
 - Dynacast (IRWD) – July 7, 2016
 - Forespar (SMWD) – July 12, 2016

Permit Related Activities

The following permits were issued or are in the process of being drafted for issuance:

- SCWD-N4-006-09-16 – Nuisance Water Diversion for Headlands Reserves (Baby Beach) – Dana Point is working with SCWD to take over permit responsibility through additional Diversion Agreement Extension.
- IRWD-1-001 – Dynacast – SOCWA Staff has been working with the facility to include treated oily mop water in wastewater discharge. The oily mop water is subject to Metal Molding and Casting Point Source Category with production-based discharge standards.
- MNWD-4-011 - Crown Valley Parkway Project – SOCWA Staff issued a wastewater discharge permit to allow the discharge of groundwater during bridge footing drain construction.

Summary of Enforcement Events

- SOCWA Staff issued a notice of non-compliance (NON) on July 20, 2016 to Vadnais (SMWD/SMWD) for obtaining Self-Monitoring Report sample outside of the reporting period and for submitting an incomplete monthly pH log.

**Summary of Activities and Types of IUs in the SOCWA Service Area.
 YTD through August 16, 2016.**

MA		Events	Permit	NIWD	BMP	FSE	OSE	Closed	Enforcement	# of IUs
CLB	(S)	2	3	2	5	8	110	0	0	130
CSC	(M)	18	5	35	18	181	1283	0	3	1543
CSJC	(S)	5	2	27	59	137	1669	0	0	1899
ETWD	(M)	0	0	98	0	262	134	0	0	494
EBSD	(U)	0	1	0	0	0	0	0	0	1
IRWD	(S)	2	3	51	19	63	922	0	2	1062
MNWD	(S)	63	4	125	40	595	2021	7	0	2855
SMWD	(S)	9	6	20	18	168	711	2	3	937
SCWD	(S)	0	14	33	7	148	184	0	1	387
TCWD	(S)	0	11	0	0	7	33	0	0	51
SOCWA	(S)	2	3	0	0	0	0	0	1	6
Totals		101	52	391	328	1569	7067	9	10	9365
Dentist (All)										371
									Total Known IUs	9736

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

NIWD = Non-industrial Waste Discharger.
 BMP = Best Management Practices.
 FSE = Food Service Establishment.
 OSE = Other Surveyed Establishment.
 YTD = Year to Date.

Agenda Item

Legal Counsel Review: N/A

Meeting Date: August 31, 2016

TO: Board of Directors

FROM: Betty Burnett, General Manager

STAFF CONTACT: Brian Peck, Director of Engineering

SUBJECT: Capital Improvement Program Status Report

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

**SOUTH ORANGE COUNTY WASTEWATER AUTHORITY
PROJECT COMMITTEE NO. 2(R) - JB LATHAM TREATMENT PLANT CAPITAL PROJECTS
(*16/'17)**

<i>Task Code</i>	<i>Description</i>	<i>Phase</i>	<i>Status</i>
CAPITAL IMPROVEMENT PROJECT LIQUIDS			
1144	Water System Piping Improvements (2014)	Study	Study completed. Remaining work is part of the Package 'B' Improvements.
1161	Aeration/Secondary Upgrade (2009)	Constuction	Part of the Package 'A/C' Improvements. Gateway Pacific has substantially completed the aeration improvements.
1145	4MGD Diversion Flow Meter & Control Structure (2012)	Design	Part of the Package 'B' Improvements.
1110	East Primary Influent Channel Repair (2015)	Design	Part of the Package 'B' Improvements.
20162RL1	Preliminary and Primary Treatment Improvements (Package "B") (2016)	Design	Workshop held with SOCWA staff on August 9, 2016. Carollo is currently working on the development of the cost model.
20162RL2	Effluent Standby Generator ATS Replacement (2016)	Design	Gateway Pacific is preparing the shop drawings for the new equipment as part of this work.
3252	Plant 1 Standby Power Generator Replacement (2017)	Design	RFP for design services to be issued in October, 2016.
3251	Effluent Flow Meter Replacement (2017)	Design	RFP for design services to be issued in October, 2016.
3250	Plant 1 Grit Basin Improvements (2017)	Design	RFP for design services to be issued in October, 2016.
3253	Effluent System Valve Replacement (2017)	Design	RFP for design services to be issued in October, 2016.
1112	Facility Improvements - Structural Repair (2015)	Constuction	Part of the Package 'A/C' Improvements. Gateway Pacific has substantially completed the structural improvements.

**SOUTH ORANGE COUNTY WASTEWATER AUTHORITY
PROJECT COMMITTEE NO. 2(R) - JB LATHAM TREATMENT PLANT CAPITAL PROJECTS
(‘16/’17)**

<i>Task Code</i>	<i>Description</i>	<i>Phase</i>	<i>Status</i>
CAPITAL IMPROVEMENT PROJECT COMMON			
1153	Energy Building Roof Reconstruction (2015)	Design	Part of the Package 'B' Improvements.
20162RC1	Diesel Storage Tank (2016)	Design	Approved shop drawings have been submitted to Gateway Pacific. Awaiting delivery of tank.
20162RC2	Foul Air System Evaluation (2016) (NCP)	Study	The proposed services for this work will be combined with a project at the Regional Treatment Plant. RFP was issued on August 18, 2016.
1147	West Side Power System Upgrade (2013)	Constuction	Pacific has received and installed the new switchgear. The new service from SDG&E has been energized. Gateway Pacific currently installing modified VFD's for raw sewage pumps.
1150	Hoist System for Maintenance Shop (2013)	Design	Part of the Package 'B' Improvements.
3260	SCADA System Upgrade (2017)	Construction	Project underway by SOCWA Operations department.
20172RC1	Plant Drain System Study (2017) (NCP)	Study	RFP for engineering services to be issued in November, 2016.

**SOUTH ORANGE COUNTY WASTEWATER AUTHORITY
PROJECT COMMITTEE NO. 2(R) - JB LATHAM TREATMENT PLANT CAPITAL PROJECTS
('16/'17)**

<i>Code</i>	<i>Description</i>	<i>Phase</i>	<i>Status</i>
CAPITAL IMPROVEMENT PROJECT SOLIDS			
1115/1151	Facility Improvements - Co-Generation Reconstruction (2015)	Construction	Part of the Package 'A/C' Improvements. Gateway Pacific currently installing the new co-generation equipment in the Energy Building.
3272	Dewatering System Controls Upgrade (2017)	Construction	SOCWA Operations staff is reviewing proposals from two vendors.
20172RS1	Dewatering System Condition Assessment (2017) (NCP)	Condition Assessment	RFP for engineering services to be issued in October, 2016.
20172RS2	Heating System Condition Assessment (2017) (NCP)	Condition Assessment	RFP for engineering services to be issued in October, 2016.
1116	Facility Improvements - Solids Area (2015)	Design	Part of the Package 'B' Improvements.

**SOUTH ORANGE COUNTY WASTEWATER AUTHORITY
PROJECT COMMITTEE NO. 3A(R) - PLANT 3A CAPITAL PROJECTS
(16/17)**

<i>Task Code</i>	<i>Description</i>	<i>Phase</i>	<i>Status</i>
CAPITAL IMPROVEMENT PROJECTS			
1253	Surface Drainage Improvements (2014)	Construction	S.S. Mechanical has substantially completed this work.
1273	Primary Sedimentation Upgrade (2011)	Construction	Coating work completed. S.S. Mechanical is installing new mechanical equipment in Primary Sedimentation Basins No.3 and No.4.
1250	Channel & Basin Lining Repair (2013)	Construction	Coating work completed. S.S. Mechanical is installing new mechanical equipment in Primary Sedimentation Basins No.3 and No.4.
1294	Electrical/Structural Repairs (2003)	Construction	S.S. Mechanical has substantially completed this work.

**SOUTH ORANGE COUNTY WASTEWATER AUTHORITY
PROJECT COMMITTEE NO. 5 - SAN JUAN CREEK OCEAN OUTFALL CAPITAL PROJECTS
(‘16/‘17)**

<i>Task Code</i>	<i>Description</i>	<i>Phase</i>	<i>Status</i>
CAPITAL IMPROVEMENT PROJECTS			
99	Junction Structure Rehabilitation Design	Design	Black & Veatch and Dudek are currently working on resource agency and Coastal Commission permit applications.
20165R2	Emergency Plan Development (2016) (NCP)	Study	Project awarded to Black & Veatch. Kick-off meeting scheduled for September 1, 2016.
20165R3	Dilution Study (2017) (NCP)	Study	RFP for evaluation services to be issued in September 2016.

**SOUTH ORANGE COUNTY WASTEWATER AUTHORITY
PROJECT COMMITTEE NO. 15(R) - COASTAL TREATMENT PLANT CAPITAL PROJECTS
(*16/'17)**

<i>Task Code</i>	<i>Description</i>	<i>Phase</i>	<i>Status</i>
CAPITAL IMPROVEMENT PROJECTS LIQUIDS			
1352	Lighting System Improvements (2014)	Construction	This item is part of the Miscellaneous Improvements 2015 project; this project is currently in shop drawing phase.
1363	Fire Protection (2013)	Construction	This item is part of the Miscellaneous Improvements 2015 project; this work has been substantially completed.
1367	Export Sludge Line Repair & Rip Rap (R - 2) (2012)	Study	Report has been finalized. Protection in this area has been largely addressed through the routing of the new Export Sludge pipeline as well as through minor embankment protection features that will be integrated with Export Sludge System replacement.
1368	RAS Hypochlorite System (2013)	Construction	This item is part of the Miscellaneous Improvements 2015 project. Pascal & Ludwig has completed the installation of the new chemical pipelines from the containment area to the RAS feedpoints.
1310	Aeration System Modification Design (2015)	Design	Evaluation by CH2MHill is ongoing. Progress meeting with CH2MHill held on August 1, 2016.
1311	Headworks Overflow Pipe Modifications (2015)	Construction	This item is part of the Miscellaneous Improvements 2015 project; this project is currently in shop drawing phase.
1313	Structural Modifications - Site (2015)	Construction	This item is part of the Miscellaneous Improvements 2015 project; this work has been substantially completed.
1314	East Primary Influent Gates (2015)	Design	Project will bid as part of CTP Miscellaneous Improvements 2016 in October, 2016.

**SOUTH ORANGE COUNTY WASTEWATER AUTHORITY
PROJECT COMMITTEE NO. 15(R) - COASTAL TREATMENT PLANT CAPITAL PROJECTS
(*16/'17)**

<i>Task Code</i>	<i>Description</i>	<i>Phase</i>	<i>Status</i>
CAPITAL IMPROVEMENT PROJECTS LIQUIDS			
1315	Grit System Knife Gate Valve Replacement (2015)	Design	Project will bid as part of CTP Miscellaneous Improvements 2016 in October, 2016.
201615RC1	Switchgear Replacement Design (2016)	Design	Evaluation by CH2MHill is ongoing. Progress meeting with CH2MHill held on August 1, 2016.
201615RC2	Grating Rebate and Concrete Repair Between Aeration Basins and Primary Basins (2016)	Design	Project will bid as part of CTP Miscellaneous Improvements 2016 in August, 2016.
201615RC3	Influent/Overflow Condition Assessment (2016)	Study	SOCWA has retained V&A to perform this work; work is scheduled to take place in the first two weeks of September.
201615RC4	Grating Rebate and Concrete Repair Between HW Building and Primary Basins (2016)	Design	Project will bid as part of CTP Miscellaneous Improvements 2016 in October, 2016.
201615RC6	CTP Facility Upgrade Design (2016)	Design	Evaluation by CH2MHill is ongoing. Progress meeting with CH2MHill held on August 1, 2016.
1316	Existing Export Sludge Wetwell Refurbishment (2015)	Construction	This item is part of the Miscellaneous Improvements 2015 project; recoating work is expected to take place in the fourth week of August.
1386	Export Sludge System (1997)	Design	The project has been approved by the California Coastal Commission. Dudek is working on permit application for County of Orange Encroachment Permit.
3550	Export Sludge Pump Addition (2017)	Design	Project will bid as part of CTP Miscellaneous Improvements 2016 in October, 2016.
3552	SCADA System Improvements (2017)	Construction	Project underway by SOCWA Operations department.
3553	Plant Drainage Improvements (2017)	Design	RFP for design services to be issued in October, 2016.
3554	Odor Scrubber Bleach Tank Replacement (2017)	Design	Project will bid as part of CTP Miscellaneous Improvements 2016 in October, 2016.
201715RC6	Conceptual Building Design (2017) (NCP)	Study	RFP to be issued in October.

**SOUTH ORANGE COUNTY WASTEWATER AUTHORITY
PROJECT COMMITTEE NO. 15(R) - COASTAL TREATMENT PLANT CAPITAL PROJECTS
(‘16/‘17)**

<i>Task Code</i>	<i>Description</i>	<i>Phase</i>	<i>Status</i>
CAPITAL IMPROVEMENT PROJECTS LIQUIDS			
1356	Scrubber Upgrade (2013)	Construction	The stack extension has been completed; the replacement of the chemical feed pumps will be bid as part of CTP Miscellaneous Improvements 2016 in October, 2016.
CAPITAL IMPROVEMENT PROJECT AWT			
1361	Disinfection System Upgrade (AWT) (2011)	Construction	This item is part of the Miscellaneous Improvements 2015 project. Pascal & Ludwig has completed the foundation in the new chemical containment area and is currently installing the canopy.
1357	Hypochlorite Tank (AWT) (2013)	Construction	The new tank has been delivered to the site.
201615RA1	AWT Applied Water Pump Replacement (2016)	Design	Dudek has submitted the 90% complete drawings for review; projec will be bid as part of CTP Miscellaneous Improvements 2016 in October, 2016.
201715RA1	Effluent Equalization System Condition Assessment (2017) (NCP)	Condition Assessment	Recommendation for award of contract to V&A Consultants to be made at September 1, 2016, Board Meeting.
201715RA2	Contact Basins Condition Assessment (2017) (NCP)	Condition Assessment	Recommendation for award of contract to V&A Consultants to be made at September 1, 2016, Board Meeting.
1319	Chlorine Mixer Replacement (2015)	Construction	This item is part of the Miscellaneous Improvements 2015 project; the work is substantially complete.

**SOUTH ORANGE COUNTY WASTEWATER AUTHORITY
PROJECT COMMITTEE NO. 17(R) - REGIONAL TREATMENT PLANT CAPITAL PROJECTS
(16/17)**

Task Code	Description	Phase	Status
CAPITAL IMPROVEMENT PROJECT LIQUIDS			
1444	Secondary Electrical System Rerouting (2014)	Design	RFP has been distributed; proposals due on September 29, 2016.
1445	Primary Gallery Upgrade (2014)	Design	After discussion with MNWD staff SOCWA staff will delay this work in order to perform a more comprehensive upgrade.
1480	AWT Backwash Pipe Relocation (2014)	Construction	This project has been completed.
1446	Waste Activated Sludge VFD Control Panel (2013)	Design	RFP has been distributed; proposals due on September 29, 2016.
1451	Odor Control Scrubber Control Panel No. 1 (2013)	Design	The proposed modifications to the scrubber control panel would require the shutdown of the scrubber for over a week. Options are being evaluated.
201617RL1	Influent Manholes 1 and 2 and Sewer Repair (2016)	Construction	Part of RTP Miscellaneous Improvements 2016. A recommendation for award of contract to Pacific Hydrotech will be presented at the August 31, 2106 Board Meeting.
201617RL2	Influent Junction Structure Gate Replacement (2016)	Construction	Part of RTP Miscellaneous Improvements 2016. A recommendation for award of contract to Pacific Hydrotech will be presented at the August 31, 2106 Board Meeting.
201617RL3	Influent Junction Structure and Pipe Condition Assessment (2016) (NCP)	Condition Assessment	Work to be completed in conjunction with RTP Miscellaneous Improvements 2016.
201617RL4	AWT Water Quality Instrumentation (2016)	Design	Part of RTP Miscellaneous Improvements 2016. A recommendation for award of contract to Pacific Hydrotech will be presented at the August 31, 2106 Board Meeting.
201617RL5	Primary Influent Channel Condition Assessment (2016) (NCP)	Condition Assessment	Recommendation for award of contract to V&A Consultants to be made at September 1, 2016, Board Meeting.

**SOUTH ORANGE COUNTY WASTEWATER AUTHORITY
PROJECT COMMITTEE NO. 17(R) - REGIONAL TREATMENT PLANT CAPITAL PROJECTS
('16/'17)**

Task Code	Description	Phase	Status
CAPITAL IMPROVEMENT PROJECT LIQUIDS			
201617RL6	Grit Basin Drop Gate and Weir Replacement (2016)	Design	Part of RTP Miscellaneous Improvements 2016. A recommendation for award of contract to Pacific Hydrotech will be presented at the August 31, 2106 Board Meeting.
1494	Secondary Clarifier Retrofit (2) (2013)	Construction	This project has been completed.
1495	Secondary Clarifier Retrofit (2012)	Construction	This project has been completed.
3752	AWT No.2 Upgrade Design (2017)	Design	RFP's were issued on September 19, 2016.
201717RL1	Effluent Equalization Pond and Gate Condition Assessment (2017) (NCP)	Condition Assessment	Consultants to be made at September 1, 2016, Board Meeting.
1410	Aeration System Analysis (2015)	Study	Work in progress by Hazen and Sawyer.
CAPITAL IMPROVEMENT PROJECT COMMON			
1497	Switchgear Upgrade (2006)	Construction	Pacific Hydrotech is constructing the new raceways within the Energy Building.
3760	Develop Buried Piping Reconstruction Master Plan (2017)	Study	RFP issued; proposals due September 1
3761	External Lighting Upgrade (2017)	Design	Purchase order issued to Hazen and Sawyer.
3763	Reroute Plant Drains (2017)	Design	RFP issued; proposals due September 1
3762	Secondary Access Road CEQA (2017)	Permitting	Dudek submitting proposal for CEQA preparation.
3764	SCADA System Improvements (2017)	Construction	Project underway by SOCWA Operations department.
1415	Security Fencing (2015)	Design	Part of RTP Miscellaneous Improvements 2016. A recommendation for award of contract to Pacific Hydrotech will be presented at the August 31, 2106 Board Meeting.

**SOUTH ORANGE COUNTY WASTEWATER AUTHORITY
PROJECT COMMITTEE NO. 17(R) - REGIONAL TREATMENT PLANT CAPITAL PROJECTS
(16/17)**

Task Code	Description	Phase	Status
CAPITAL IMPROVEMENT PROJECT COMMON			
1416	Access Bridge Upgrades (2015)	Design	Part of RTP Miscellaneous Improvements 2016. A recommendation for award of contract to Pacific Hydrotech will be presented at the August 31, 2106 Board Meeting.
CAPITAL IMPROVEMENT PROJECT SOLIDS			
1454	Digester Dome Recoating (2014)	Construction	Pacific Hydrotech has substantially completed this work.
1468	Digester Dome Recoating (2011)	Construction	This project has been completed.
1478	Underground Piping Upgrade (2006)	Construction	Work proceeding on relocation of underground piping.
1452	Odor Control Scrubber Control Panel No. 2 (2013)	Design	The proposed modifications to the scrubber control panel would require the shutdown of the scrubber for over a week. The installation of a temporary scrubber is beyond the original budget for the project. Options are being evaluated.
1491	Co-Generation System Retrofit (2008)	Construction	Pacific Hydrotech has installed new boiler and co-generation engine.
201617RS1	Recoat Top of Digesters (2016)	Design	Part of RTP Miscellaneous Improvements 2016. A recommendation for award of contract to Pacific Hydrotech will be presented at the August 31, 2106 Board Meeting.

**SOUTH ORANGE COUNTY WASTEWATER AUTHORITY
PROJECT COMMITTEE NO. 24 - ALISO CREEK OCEAN OUTFALL CAPITAL PROJECTS
(16/17)**

<i>Task Code</i>	<i>Description</i>	<i>Phase</i>	<i>Status</i>
CAPITAL IMPROVEMENT PROJECTS			
201624R1	Emergency Plan Development (2016) (NCP)	Study	Project awarded to Black & Veatch. Kick-off meeting scheduled for September 1, 2016.

Agenda Item

Budgeted: Yes
Budget amount: \$18,427,870
Line Items: PC 2 Tasks 1112, 1147, 1115, 1151, 1161, and 20162RS1
Legal Counsel Review: No
Meeting Date: August 31, 2016

TO: Project Committee 2

FROM: Betty Burnett, General Manager

STAFF CONTACT: Brian Peck, Director of Engineering

SUBJECT: Change Orders to Gateway Pacific Construction Contract for the J. B. Latham Treatment Plant Facility Improvements Packages 'A' and 'C' Project

Recommendation

The Engineering Committee recommends that the Board of Directors approve Change Order 32 to the construction contract with Gateway Pacific for the J. B. Latham Treatment Plant Facility Improvements Packages 'A' and 'C' Project.

Change Orders

1. Approve Change Order 32 for the Cogeneration System Upgrade (PC 2, Task 1115).

CO #	CO Item	Description	Change Order Price	Total Change Order Price*	Status
32	Add Overhead HVAC Duct for New Cogeneration Engine	Cogeneration engine supplier requires a flow of air around engine that was not shown in the drawings.	\$47,775.26	\$113,134.07	SOCWA Staff Recommended

* Cumulative for specific budget task code.

Advisory Status

Reviewed and recommended by the SOCWA Engineering Committee on August 11, 2016.

Financial Status

Original Contract Amount:	_____	\$ 13,951,363.00
Net change by previous change orders:	_____	\$ 540,303.22
Contract amount prior to this change order:	_____	\$ 14,491,666.22
Net increase, decrease due to this change order:	_____	\$ 47,775.26
New contract amount, including this change order:	_____	\$ 14,539,441.48

The overall project remains within budget. The revised project ledger is presented in Table 1. The allocation of the change order costs is shown below.

Task	1115
Member Agency	Solids
Moulton Niguel Water District	\$10,329.01
City of San Juan Capistrano	\$14,332.58
Santa Margarita Water District	\$13,558.62
South Coast Water District	\$9,555.05
Total	\$47,775.26

Change Order No.32

Change Order No.32 involves a significant cost increase to address additional ducting required in the Engine Room to provide cooling for the engine. The additional ducting needed is shown in Exhibit A. The need for this ducting was identified in discussions between the design firm (Carollo Engineers) and the engine supplier (Western Energy).

Table 1

Project Cost Ledger: J.B. Latham Treatment Plant Facility Improvements
 Packages A and C
 (Millions)

	Aeration and Secondary Improvements	Structural Modifications	West Side Power Sys. Upgrade	Co- Generation Upgrade	Total *
<u>Budget (2016/2017)</u>	7.4	0.7	3.7	6.6	18.4
<u>Budget Task Codes</u>	1161	1112	1147	1115	
<u>Actual Bid Costs-</u> <u>Constr.</u>	4.911	0.471	2.556	6.013	13.951
<u>Construction Change</u> <u>Orders</u>	0.058	0.135	0.155	0.104	0.452
<u>Study & Design</u> <u>(Upfront Costs)</u>	1.268	0.000	0.241	0.000	1.509
Contingency	0.600	0.200	0.252	0.580	1.632
Construction Management	0.595	0.055	0.263	0.463	1.375
San Diego Gas & Electric (SDG&E)	0.000	0.000	0.200	0.000	0.200
Total Project Costs	7.4	0.7	3.7	6.6	18.5
<u>Spending</u>					
Spending	(7.0)	(0.7)	(3.4)	(5.3)	(16.4)
Remaining Spending	(0.4)	(0.0)	(0.3)	(1.3)	(2.1)
Remaining Budget	0.0	0.0	0.0	0.0	0.0
*Grants				0.8	0.8
Net SOCWA Costs	7.4	0.7	3.7	5.8	17.7

* Excludes budget and costs associated with Diesel Storage Tank and Effluent Pump Station Automatic Transfer Switch.

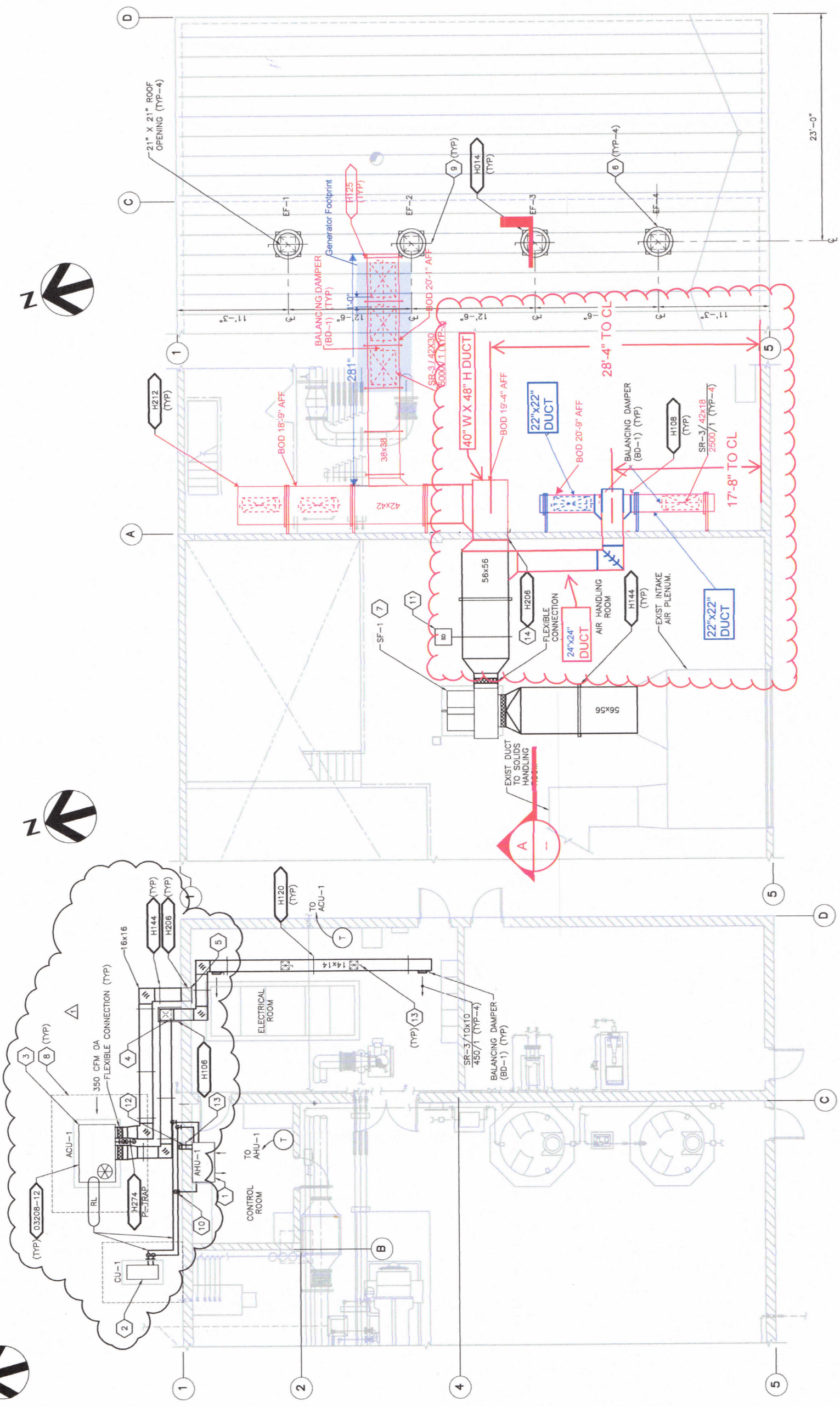


KEYNOTES:

- 1 CEILING MOUNTED HEAT PUMP. MOUNT BOTTOM OF UNIT AT 8'-6" AFF.
- 2 CONDENSING UNIT LOCATED ON GRADE. PROVIDE CONCRETE EQUIPMENT PAD PER S300/TYP.
- 3 PACKAGED AIR CONDITIONING UNIT LOCATED ON GRADE. PROVIDE CONCRETE EQUIPMENT PAD PER S300/TYP.
- 4 14"x14" SA UP TO BOD EL AT 7'-4" AFF.
- 5 TERMINATE 16"x16" RA DUCT FLUSH WITH WALL. PROVIDE 1/2"x1/2" ALUMINUM MESH SCREEN IN REMOVABLE FRAME OVER OPENING.
- 6 ROOF MOUNTED EXHAUST FAN. EXTEND 18" X 18" EA DUCT TO GYPSUM CEILING. TERMINATE DUCT 24" BELOW CEILING WITH 1/2"x1/2" ALUMINUM MESH SCREEN IN REMOVABLE FRAME. PROVIDE EQUIPMENT CURB WITH FAN. PROVIDE SMOKE DETECTOR IN DUCT BELOW CEILING.
- 7 FLOOR MOUNTED INLINE SUPPLY FAN. PROVIDE EQUIPMENT SUPPORTS TO SECURE TO FLOOR.
- 8 MANUFACTURER REQUIRED SERVICE CLEARANCE. DO NOT BLOCK.
- 9 BACKDRAFT DAMPER (BDD-3)
- 10 CONDENSATE DRAIN ROUTED THROUGH EXTERIOR WALL AND TERMINATE 6" ABOVE GRADE. CONDENSATE DRAIN SHALL NOT BE ROUTED OVER ELECTRICAL EQUIPMENT.
- 11 SMOKE DETECTOR LOCATED IN SA DUCT.
- 12 4" OA DUCT THROUGH EXTERIOR WALL. PROVIDE STAINLESS STEEL WALL VENT WITH SCREEN. LUXURY METALS MODEL SWR554 OR APPROVED EQUAL.
- 13 BALANCING DAMPER (BD-1).
- 14 NEW 56"x56" DUCT SHALL BE ROUTED THROUGH EXISTING 56"x56" OPENING.

NOTES:

1. ROOM THERMOSTATS MOUNTED AT 60" AFF. LABEL WITH IT'S CONTROL DEVICE.
2. REFRIGERANT LINES (RL) AND CONDENSATE LINE WALL PENETRATIONS SHALL BE INSTALLED PER DETAIL P304/TYP.



PARTIAL LOWER PLAN A
3/16" = 1'-0"

PARTIAL UPPER PLAN B
3/16" = 1'-0"

PARTIAL ROOF PLAN C
3/16" = 1'-0"

02/06/15	TOM	CONFORMED DOCUMENTS	DESIGNED CG	DISCIPLINE ENGINEER	ORIGINAL SEALED BY THOMAS G. MOSSINGER SEPTEMBER 2014 CA 26798	PROJECT ENGINEER	ORIGINAL SEALED BY JEFFERY A. WEISHAAR SEPTEMBER 2014 CA 75245	HDR HDR Engineering, Inc. carollo	SOCWA South Orange County Wastewater Authority	SOUTH ORANGE COUNTY WASTEWATER AUTHORITY J.B. LATHAM TP AERATION UPGRADES AND COGENERATION PROJECT MECHANICAL MODIFICATIONS TO EXISTING COGENERATION BUILDING HVAC PLANS	VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING 0 1"	JOB NO. DRAWING NO. M-40-06 SHEET NO. 51 OF 124
03/26/15	JAW	CAROLLO DESIGN CLARIFICATION 001	CHECKED MZ	FILENAME:							IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	CONFORMED DOCUMENTS
REV	DATE	BY	DESCRIPTION									

Agenda Item

Budgeted: Yes
Budget amount: \$3,365,000.00
Line Items: PC 3A Tasks 1210, 1250, 1253, and 1273
Legal Counsel Review: No
Meeting Date: August 31, 2016

TO: Project Committee 3A

FROM: Betty Burnett, General Manager

STAFF CONTACT: Brian Peck, Director of Engineering

SUBJECT: Change Order to S.S. Mechanical Contract for the Plant 3A Miscellaneous Improvements 2015 Project

Recommendation

The Engineering Committee recommends that the Board of Directors approve Change Orders 10 and 11 to the construction contract with S.S. Mechanical for the Plant 3A Miscellaneous Improvements 2015 Project.

Change Orders

1. Recommend Change Orders 10 and 11 for the Plant 3A Miscellaneous Improvements 2015 Project.

CO #	CO Item	Description	Change Order Price	Cumulative Change Order Amount	Status
10	Deduct Launder Repair Work In Primary Sedimentation Basins No. 3 and No.4	Condition of launders found to be in such poor condition that it was decided to replace launders in subsequent project rather recoating as part of current project.	(\$45,850.00)	\$82,741.00	SOCWA Engineering Committee Recommended

CO #	CO Item	Description	Change Order Price	Cumulative Change Order Amount	Status
11	Removal and Replacement of Drain/Removal and Reinstallation of Access Covers	Removal and replacement of 4" CIP drain line with 4" PVC pipe and fittings. Removal and replacement of Odor Control Tower access covers to allow inspection by SMWD staff.	\$7,360.00	\$90,101.00	SOCWA Engineering Committee Recommended

Advisory Status

Reviewed and recommended by the SOCWA Engineering Committee on August 11, 2016.

Financial Status

Original Contract Amount:	_____	\$ 1,578,000.00
Net change by previous change orders:	_____	\$ 128,591.00
Contract amount prior to this change order:	_____	\$ 1,706,591.00
Net increase, decrease due to this change order:	_____	\$ -38,490.00
New contract amount, including this change order:	_____	\$ 1,668,101.00

The overall project remains within budget. The updated project ledger is presented in Table 1. The allocation of these change order costs is shown below.

Task	1273
Moulton Niguel Water District	-\$27,662.76
Santa Margarita Water District	-\$10,827.24
Total	-\$38,490.00

Table 1
 Project Cost Ledger: Plant 3A
 Miscellaneous Improvements 2015
 (Millions)

	Primary Sedimentation Upgrade	Basins Lining Repair	Aeration Upgrade	Trench Drain System	Total
<u>Budget (2016/17)</u>	0.925	0.300	2.100	0.040	3.365
<u>Budget Task Codes</u>	1273	1250	1210	1253	
<u>Actual Bid Costs-Constr.</u>	0.942	0.160	0.420	0.056	1.578
<u>Construction Change Orders</u>	-0.020	0.000	0.105	0.005	0.090
<u>Previous Costs (Prior Construct and Design)</u>	0.055	0.000	0.075	0.000	0.130
Contingency	-0.072	0.115	1.480	-0.021	1.502
Construction Management	0.020	0.025	0.020	0.000	0.065
Total Project Costs	0.925	0.300	2.100	0.040	3.365
<u>Spending</u>					
Total Current Spending	(1.150)	(0.320)	(0.690)	(0.056)	(2.216)
Remaining Spending	0.225	0.020	(0.410)	0.016	(0.149)
Remaining Budget	0.000	0.000	1.000	0.000	1.000

Agenda Item

Budgeted: Yes
Budget amount: \$12,119,778
Line Items: PC 17 Tasks 1468, 1478, 1491, and 1497
Legal Counsel Review: No
Meeting Date: August 31, 2016

TO: Project Committee 17

FROM: Betty Burnett, General Manager

STAFF CONTACT: Brian Peck, Director of Engineering

SUBJECT: Change Order to Pacific Hydrotech Construction Contract for the Regional Treatment Plant Cogeneration and Switchgear Upgrade Project

Recommendation

The Engineering Committee recommends that the Board of Directors approve Change Orders 4 and 5 to the construction contract with Pacific Hydrotech for the Regional Treatment Plant Cogeneration and Switchgear Upgrade Project.

Change Orders

1. Recommend Change Orders 4 and 5 to the construction contract for the Cogeneration Upgrade (PC 17, Task 1497).

CO #	CO Item	Description	Change Order Price	Cumulative Change Order Amount*	Status
4	Change Entrance Door at Energy Building	Enlarge entrance door to Energy Building to accommodate switchgear.	\$4,425.60	\$405,053.50	SOCWA Engineering Committee Recommended
5	Lower Electric Cable Tray in Energy Building	Lower cable tray to prevent possible conflict with movement of equipment by overhead crane.	\$1,863.79	\$406,917.29	SOCWA Engineering Committee Recommended

* Cumulative for specific budget task code.

Advisory Status

Reviewed and recommended by the SOCWA Engineering Committee on August 11, 2016.

Financial Status

Original Contract Amount:	_____	\$ 8,925,217.00
Net change by previous change orders:	_____	\$ 371,321.25
Contract amount prior to this change order:	_____	\$ 9,296,538.25
Net increase, decrease due to this change order:	_____	\$ 6,289.39
New contract amount, including this change order:	_____	\$ 9,302,827.64

The overall project remains within budget. The revised project ledger is presented in Table 1. The allocation of these change order costs is shown below.

Task	1497
El Toro Water District	\$645.29
Emerald Base Service District	\$20.75
City of Laguna Beach	\$394.34
Moulton Niguel Water District	\$4,913.90
South Coast Water District	\$315.10
Total	\$6,289.39

Table 1
Project Cost Ledger: Regional Treatment Plant
Cogeneration and Switchgear Upgrades

(Millions)

	Switchgear Upgrade	Underground Piping Relocation	Digester Recoating	Co-Generation Upgrade	Total
Budget (2016/17)	3.475	0.636	1.024	7.585	12.720
Budget Task Codes	3715-000	3721-000	3720-000	3722-000	
<u>Actual Bid Costs-Constr.</u>	1.930	0.156	0.316	6.520	8.922
<u>Construction Change Orders</u>	0.407	0.000	0.000	-0.029	0.378
<u>Previous Costs (Prior Construct and Design)</u>	0.365	0.292	0.621	0.443	1.721
Contingency	0.412	0.148	0.057	0.276	0.893
Construction Management	0.211	0.040	0.030	0.375	0.656
Southern California Edison (SCE)	0.150	0.000	0.000	0.000	0.150
Total Project Costs	3.475	0.636	1.024	7.585	12.720
<u>Spending</u>					
Total Current Spending	(2.400)	(0.200)	(0.400)	(3.500)	(6.500)
Remaining Spending	(1.075)	(0.436)	(0.624)	(4.085)	(6.220)
Remaining Budget	1.075	0.436	0.624	4.085	6.220
*Grants				1.700	1.700
Net SOCWA Costs	3.475	0.636	1.024	5.885	11.020

Agenda Item

Budgeted: Yes

Budget amount: \$92,700

Line Item: PC 15 Tasks 4006-000 and 4007-000

Legal Counsel Review: No

Meeting Date: August 31, 2016

TO: Project Committee 15 Board of Directors

FROM: Betty Burnett, General Manager

STAFF CONTACT: Brian Peck, Director of Engineering

SUBJECT: Coastal Treatment Plant Condition Assessments - Award of Engineering Services Contract to V & A Consulting Engineers

Summary

This agenda item provides a recommendation for the award of an engineering services contract to V & A Consulting Engineers (V & A) for condition assessments for the Coastal Treatment Plant.

Background

The project includes the condition assessment of two areas:

- Chlorine Contact Basin
- Secondary Effluent Equalization Basin

The condition assessment is to address the following aspects of each area: (1) structural concrete, (2) exposed metals, (3) exposed piping, and (4) gates, valves and process equipment.

The Coastal Treatment Plant (CTP) Advanced Wastewater Treatment (AWT) facility was constructed in 1982 and expanded in 1988. The current AWT has the ability to produce 2.5 MGD of recycled water. The Chlorine Contact Basins are part of the AWT facility. The two basins have sluice gates and drain gates which may need replacement due to corrosion and poor sealing. This condition assessment project is to determine the condition of the reinforced concrete and other metal appurtenances, including sluice gates, drain gates, mixers, and other equipment mounted in or on the basins.

The CTP secondary effluent equalization basin was originally constructed as one of two Imhoff tanks on the plan site in the late 1940's. In the 1980's one tank was converted into its current role as an equalization basin for secondary effluent prior to discharge to either the AWT facility or to the outfall. The tank is a cylindrical reinforced concrete structure with a circular opening at the top with aluminum covers that were installed in 2009. PVC piping is mounted at the bottom of the tank to periodically distribute pressurized air into the tank. This condition assessment project is to determine the condition of the reinforced concrete cylindrical structure as well as the condition of any metal appurtenances, including metal covers, grating, ductile iron pipe, valves and pumps. An additional goal of the work is to map the piping to and from the basin.

Requests for Proposals

Requests for Proposals (RFP's) for engineering services were submitted to the following four engineering firms:

- AECOM
- HDR Engineering
- MWH Americas
- V&A

Proposals were received on August 4, 2016, from HDR and V & A. AECOM and MWH Americas declined to propose due to other project commitments.

Discussion/Analysis

Comparison of Proposals

The Engineering Committee for Project Committee 15 AWT reviewed each of the proposals. A summary of each proposal is presented in Table 1.

TABLE 1 - PROPOSAL SUMMARY

Firm	HDR	V & A
Senior or Project Manager	Brien Clark	Debra Kaye
Project Engineer	Mersedeh Akhoondan, Greg Frost	Clinton McAdams
Principal	Graham Bell	Jose Villalobos
Subconsultants	Jamison Engineering for Field Activities, Confined Space operations	Jamison Engineering for Field Activities, Confined Space operations Cardo for subsurface utility investigation and pipe mapping
Qualifications	Completed similar field and condition assessment projects at Long Beach Water Department, South Tahoe Public Utility District and Las Virgenes Municipal Water District	Completed similar condition assessment projects at JB Latham Treatment Plant, Coastal Treatment Plant, IEUA, OCSD, and others
QA/QC	Graham Bell	Brian Briones
Total Labor Hours	382	186
Project Schedule	Per page 10 of Proposal, HDR states that they will follow the schedule for the shutdowns in January 2017 as outlined in the RFP, therefore they appear to meet the RFP schedule requirements.	Completion of all items from Notice to Proceed to Final Report in 12 weeks with 1 week of field work for each of the two chlorine contact basins and 1 week of field work for the Secondary Effluent Equalization Basin within the treatment plant
Contract Issues	None	None

The Engineering Committee found that each proposal offered essentially the same services. However, the HDR proposal involved a much higher level of effort. The Engineering Committee believed that the level of effort proposed by V & A was appropriate for the desired work; therefore the Engineering Committee recommended award of contract to V & A.

The proposed fees for each firm are as shown below:

- HDR: \$127,925.00
- V & A: \$ 83,893.00

The scope of work for the proposed project is presented in Exhibit 1.

Advisory Committee Review

The Coastal Treatment Plant Condition Assessment proposals were reviewed by the Engineering Committee for Project Committee 15 AWT on August 11, 2016. The Engineering Committee recommended award of the engineering services contract to V & A.

Fiscal Impact

The proposed engineering services fee for the condition assessment is \$83,893.00. Funding for the project is as shown in Table 2. The cost for the chlorine basin assessment (Task 4007-000) is over budget; however, the cost for the combined condition assessments is well under the total budget.

TABLE 2 - BUDGET SUMMARY

Project Committee	Task	Budget	Expended to Date	Remaining Budget	Proposed Engineering Cost
15	4006-000	\$61,800.00	\$0.00	\$61,800.00	\$44,431.00
15	4007-000	\$30,900.00	\$0.00	\$30,900.00	\$39,462.00
Total	-	\$92,700.00	\$0.00	\$92,700.00	\$83,893.00

The project costs are completely allocated to the South Coast Water District as both of the items are Project Committee 15 AWT.

Recommendation

The following action is recommended:

Approval of the award of the engineering services contract to V & A Consulting Engineers at a fee of \$83,893.00.

Exhibit 1
Scope of Work

Tasks for each of the individual condition assessments include the following:

1. Project Management and Document Review. FIRM shall review all applicable drawings and existing documentation for each individual project condition assessment. FIRM shall schedule and monitor the field work necessary to conduct the condition assessment, including budgeting for and providing support for the physical tasks involved and reports required at the end.
2. Condition Assessment:
 - a. Visual Assessment, including taking photographs and interpretation thereof.
 - b. Concrete Sounding – tapping of concrete surfaces with a hammer, to determine soundness of concrete, etc.
 - c. Concrete Penetration Testing
 - d. Concrete Surface pH Testing
 - e. Surface Penetrating Radar
 - f. Coating, if any, evaluation
 - g. Metal surfaces, including piping and gates, evaluation
 - h. VANDA Reinforced Concrete Condition Index
 - i. Core Sampling of Concrete: take 2 core samples, each 3-inch diameter by 6-inch long, from each concrete structure. One sample is to be tested for compressive strength; the other for petrographic analysis per ASTM C856
3. Letter Report on results of condition assessment for each individual project.

Tasks specific to each condition assessment are presented below.

Coastal Treatment Plant Chlorine Contact Basin

Tasks are to include the following:

1. Isolate each individual Chlorine Contact Basin such that one can be taken out of service while performing the condition assessment while keeping the rest in service.
2. Determine the condition and operational integrity of the each Chlorine Contact Basin, including the reinforced concrete structure and all metal appurtenances, including sluice gates and drain gates.
3. Identify rehabilitation and/or replacement scope and cost for the gates.

Coastal Treatment Plant Secondary Effluent Equalization Basin

Tasks are to include the following:

1. Determine the condition and operational integrity of the reinforced concrete structure as well as any metal appurtenances including but not limited to metal covers. FIRM shall also evaluation the condition of the diffuser system.

2. FIRM shall map the underground piping entering and existing the basin. FIRM shall pothole where additional information is needed. FIRM shall prepare an AUTOCAD map showing relative location of underground piping. FIRM shall provide narrative of operation of basin with buried valves.
3. FIRM shall evaluate condition of buried valves based on information provided by SOCWA operations staff. FIRM shall Identify rehabilitation and/or replacement scope and cost for the valves.

The FIRM is responsible for all isolation, dewatering, cleaning, access, safety and permitting needed to perform the condition assessment.

Agenda Item

Budgeted: Yes

Budget amount: \$128,750

Line Item: PC 17 Tasks 4008-000 and 4016-000

Legal Counsel Review: No

Meeting Date: August 31, 2016

TO: Project Committee 17 Board of Directors

FROM: Betty Burnett, General Manager

STAFF CONTACT: Brian Peck, Director of Engineering

SUBJECT: Regional Treatment Plant Condition Assessments - Award of Engineering Services Contract to V & A Consulting Engineers

Summary

This agenda item provides a recommendation for the award of an engineering services contract to V & A Consulting Engineers (V & A) for condition assessments for the Regional Treatment Plant.

Background

The project includes the condition assessment of two areas:

- Effluent Equalization Pond and Control Gates
- Plant Primary Influent Channel

The condition assessment is to address the following aspects of each area: (1) structural concrete, (2) exposed metals, (3) exposed piping, and (4) gates, valves and process equipment.

The Regional Treatment Plant (RTP) Effluent Equalization Pond is an open pond-type facility for storing secondary treated wastewater effluent. The pond was built as part of the original plant construction in 1982. Originally the bottom of the basin lined with a bentonite clay layer while the sides were built of rip-rap. In 1998 the basin was paved with concrete. On the upstream side of this basin is a series of six (6) control gates or sluice gates which control the flow and from the secondary effluent equalization pond. SOCWA plant staff members have indicated that some of the gates are becoming difficult to open and close. This condition assessment project is to determine the condition of the basin floor wall, inlet/outlet pipe and the six control gates. An additional goal of the work is to estimate the quantity of solids that need to be removed from the pond (this removal will be done in the winter of 2017/2018).

The RTP Primary Influent Channel is a reinforced concrete channel that conveys influent wastewater from the three (3) grit chambers to the six (6) rectangular primary sedimentation basins or tanks. This condition assessment project is to determine the condition of the concrete in the channel as well as the condition of any metal appurtenances, including slide gates and covers in and around this channel.

Requests for Proposals

Requests for Proposals (RFP's) for engineering services were submitted to the following four engineering firms:

- AECOM
- HDR Engineering
- MWH Americas
- V&A

One proposal was received on August 4, 2016, from V & A. AECOM and MWH Americas declined to propose due to other project commitments. HDR Engineering attended the pre-proposal meeting on July 13, 2016, asked questions during pre-proposal period and declined to propose at the last minute.

Discussion/Analysis

Comparison of Proposals

The Engineering Committee for Project Committee 17 Liquids reviewed the V & A proposal. A summary of the proposal is presented in Table 1.

TABLE 1 - PROPOSAL SUMMARY

Firm	V & A
Senior Project Manager	Debra Kaye
Project Engineer	Clinton McAdams
Principal	Jose Villalobos
Subconsultants	Jamison Engineering for Field Activities
Qualifications	Completed similar Condition Assessment projects at JB Latham Treatment Plant, Coastal Treatment Plant, IEUA, and OCSD
QA/QC	Brian Briones
Total Labor Hours	259
Project Schedule	Completion of all items from Notice to Proceed to Final Report in 10 weeks with 1 week of field work for each of the two areas within the treatment plant
Contract Issues	None
Proposal Requirement Compliance	Complied

The Engineering Committee found that the qualifications, the approach and the level of effort identified in the V & A proposal were satisfactory.

The scope of work for the proposed project is presented in Exhibit 1.

Advisory Committee Review

The Regional Treatment Plant Condition Assessment proposal was reviewed by the Engineering Committee for Project Committee 17 Liquids on August 11, 2016. The Engineering Committee recommended award of the engineering services contract to V & A.

Fiscal Impact

The proposed engineering services fee for the condition assessment is \$118,517.00. Funding for the project is as shown in Table 2. The cost for the condition assessments are within the available budget.

TABLE 2 - BUDGET SUMMARY

Project Committee	Task	Budget	Expended to Date	Remaining Budget	Proposed Engineering Cost
17	4008-000	\$78,750.00	\$0.00	\$78,750.00	\$70,544.00
17	4016-000	\$50,000.00	\$0.00	\$50,000.00	\$47,973.00
Total	-	\$128,750.00	\$0.00	\$128,750.00	\$118,517.00

The project costs are completely allocated to the Moulton Niguel Water District as both of the items are Project Committee 17 Liquids.

Recommendation

The following action is recommended:

Approval of the award of the engineering services contract to V & A Consulting Engineers at a fee of \$118,517.00.

Exhibit 1
Scope of Work

Tasks for the overall condition assessments include the following:

1. Project Management and Document Review. FIRM shall review all applicable drawings and existing documentation for each individual project condition assessment. FIRM shall schedule and monitor the field work necessary to conduct the condition assessment, including budgeting for and providing support for the physical tasks involved and reports required at the end.
2. Condition Assessment:
 - a. Visual Assessment, including taking photographs and interpretation thereof.
 - b. Concrete Sounding – tapping of concrete surfaces with a hammer, to determine soundness of concrete.
 - c. Concrete Penetration Testing
 - d. Concrete Surface pH Testing
 - e. Surface Penetrating Radar
 - f. Coating, if any, evaluation
 - g. Metal surfaces, including piping and gates, evaluation
 - h. VANDA Reinforced Concrete Condition Index
 - i. Core Sampling of Concrete: take 2 core samples, each 3-inch diameter by 6-inch long, from each concrete structure. One sample is to be tested for compressive strength; the other for petrographic analysis per ASTM C856
3. Letter Report on results of condition assessment for each individual project.

Tasks specific to each condition assessment are presented below.

1. The FIRM will be required to make a condition assessment of the physical condition of the sides and bottom of the pond. FIRM shall evaluate concrete, rip-rap and any exposed metal. SOCWA shall drain by pumping-down the water level in the existing basin as low as reasonably possible. The FIRM shall note that 6 to 12 inches of water may remain in the pond. FIRM will still be responsible to perform isolations of both the remaining water and remaining “sludge” in specific localized areas within the bottom and sides of the existing basin by whatever means necessary to accomplish the following activities. (1) Clean to the extent possible all remaining water and debris in two separate locations on the bottom of the reinforced concrete pavement to expose at least a square patch 5 feet by 5 feet (25 sq. ft.) of cleaned concrete (two patches total at the bottom of the basin) from which to do the concrete condition assessment as required; (2) clean sufficient portions of the Inlet/Outlet Structure and then assess the condition of the exposed concrete and any portions of the exposed metal of this structure; and (3) clean sufficient portions in two separate locations of the “shotcrete” rip-rap on the sides of the basin to expose at least a square patch of 5 feet by 5 feet (25 sq. ft.) from which to do the assessment as required. Note that FIRM is not required to take core samples of concrete in the Equalization Pond.
2. The FIRM will be required to make a condition assessment of the physical condition of each of the six control or sluice gates to see (1) whether or not the gates are operable; (2) whether or not the physical metal structure of those gates is compromised due to

corrosion or physical breakage; and (3) whether or not the concrete surrounding the gates is physically deteriorated, spalling, cracked and broken, or in good condition.

3. Identify rehabilitation and/or replacement scope and cost for the gates.
4. The FIRM shall estimate the amount of material remaining in the bottom of the Equalization Pond and shall estimate the cost to clean basin and dispose solids in a subsequent project.

Regional Treatment Plant Primary Influent Channel

Tasks are to include the following:

1. Isolate at least three (3) portions of the RTP Primary Influent Channel such that the flow coming through from each of the three (3) grit chambers can be controlled separately such that individual portions of the Primary Influent Channel can be taken out of service, one at a time, while keeping the flow in service to the other portions of the channel, while the condition assessment is being done.
2. Determine the condition and operational integrity of the concrete channel itself, as well as the covers, slide/stop gates, and any metal appurtenances.

The FIRM is responsible for all isolation, dewatering, cleaning, access, safety and permitting needed to perform the condition assessment.

Agenda Item

Budgeted: Yes

Budget Amount: \$1,860,000

Line Item: PC 17 Tasks 3707-000, 3708-000, 3712-000, 3713-000, 3717-000, 3718-000, 3710-000, and 3723-000

Legal Counsel Review: No

Meeting Date: August 31, 2016

TO: Project Committee 17 Board of Directors

FROM: Betty Burnett, General Manager

STAFF CONTACT: Brian Peck, Director of Engineering

SUBJECT: Award of Construction Contract to Pacific Hydrotech for the Regional Treatment Plant Miscellaneous Improvements 2016 Project

Summary

This agenda item provides a recommendation for the award of a construction contract to Pacific Hydrotech for the Regional Treatment Plant Miscellaneous Improvements 2016 Project.

Background

The Regional Treatment Plant (RTP) Miscellaneous Improvements 2016 Project encompasses rehabilitation and replacement work throughout the treatment plant. The key elements of the work are listed below:

1. **Influent Sewer/Manhole Rehabilitation:** Work includes the removal and replacement of the coating inside Manholes No.1 and No.2. This is a continuation of the work that was previously done to reconstruct Manholes No.3 and No.4 under a previous contract. The work also includes the replacement of the liner within the 42-inch diameter influent sewer. The work will also include a condition assessment of Manholes B, C and No.5.
2. **Influent Junction Structure Slide Gate Replacement:** The three slide gates at the Influent Junction Structure have deteriorated to the point that they can no longer be used to isolate flow. This project will replace the three gates.
3. **Grit Basin Stop Gate and Weir Replacement:** The three grit basins can only be isolated with SOCWA staff members physically climbing into the adjacent channels while they are carrying flow. The proposed project involves the installation of new gates that only require access from the main basin deck.
4. **Access Bridge and Bridge Approach Improvements:** The proposed project implements improvements identified by TetraTech as part of an evaluation of the condition of the access bridge. These improvements include modification of the guardrail system and seismic support of the piping which is suspended from the bridge. Other improvements will be done to support the installation of a new gate (which will be installed under separate contract).

5. **Digester Roof Recoating:** The internal concrete and metal recoating of the last of the four anaerobic digesters has been completed as part of the Cogeneration and Switchgear Upgrade project. The proposed project involves the repair of the coating on the exterior of the four digester domes. This work does not require sandblasting the entire surface; only the removal of damaged portions of the existing coating. These areas will then be encapsulated with the new coating material,
6. **Water Quality Instrumentation Replacement:** This portion of the work includes the replacement of two turbidimeters and two chlorine residual analyzers located in the AWT No.2 Control Building. These units are used for process control and regulatory compliance in the production of recycled water.

Discussion/Analysis

Bidding Process

Bid documents were made available to the following list of contractors on June 28, 2016:

- Filanc
- Gateway Pacific
- Olsson Construction
- Pacific Hydrotech
- Pascal & Ludwig
- S.S. Mechanical
- Schuler Engineering

Two bids were received and opened on August 3, 2016. The results of these bids are summarized in Table 1. The detailed bids are presented in Exhibit A.

Table 1 Overall Base Bid Prices

Contractor	Bid Price
Gateway Pacific	\$ 1,997,314.00
Pacific Hydrotech	\$ 1,473,900.00

Pacific Hydrotech is the apparent low bidder at \$1,473,900.00. The documents included an alternate bid item that allowed a different routing for bypass piping. Execution of this alternate bid item will lower the Pacific Hydrotech price to \$1,451,200.

Budget Evaluation

A comparison of the apparent low bid amount with the budget is presented in Table 2.

Table 2 - Budget and Bid Comparison

	Bid Amount	Task Code	Budget	Available Budget	Const. Man.	Contingency
Influent Sewer System Upgrade	\$783,500	3707-000 and 3708-000	\$860,000	\$835,000	\$25,000	\$26,500
Grit Basin Stop Gates	\$275,200	3712-000 and 3713-000	\$400,000	\$375,000	\$10,000	\$89,800
Bridge & Bridge Approach Imps.	\$170,000	3717-000 and 3718-000	\$290,000	\$195,000	\$5,000	\$20,000
Digester Roofing System	\$164,600	3723-000	\$225,000	\$215,000	\$25,000	\$25,400
Water Quality Inst. Replacement	\$57,900	3710-000	\$85,000	\$85,000	\$0.00	\$27,100
	\$1,451,200		\$1,860,000	\$1,705,000	\$65,000	\$188,800

The budget of the Influent Sewer System Upgrade (Task Codes 3707-000 and 3708-000) includes the \$335,000 balance from the now completed Disinfection System Upgrade. The decision to transfer the unused amount from this budget item rather than increasing the budget for the Influent Sewer System Upgrade was made during the preparation of the Fiscal Year 2016/2017 budget.

Table 2 shows that the overall budget is sufficient to support the project. The project will have a contingency of 13% of the construction contract price.

Advisory Committee Review

The Regional Treatment Plant Miscellaneous Improvements 2016 Project bids were reviewed by the Engineering Committee on August 11, 2016. The Engineering Committee recommended the award of contract to Pacific Hydrotech along with the budget shift as noted in the previous section.

Fiscal Impact

The proposed contract amount with Pacific Hydrotech is \$1,451,200.

The current status of the involved budget items is shown in Table 3.

Table 3 Budget Status

	Task Code	Budget	Expended to Date	Budget Remaining
Influent Sewer System Upgrade	3707-000 and 3708-000	\$860,000	\$25,000	\$835,000
Grit Basin Stop Gates	3712-000 and 3713-000	\$400,000	\$25,000	\$375,000
Bridge & Bridge Approach Imps.	3717-000 and 3718-000	\$290,000	\$50,000	\$240,000
Digester Roofing System	3723-000	\$225,000	\$10,000	\$215,000
Water Quality Inst. Replacement	3710-000	\$85,000	\$0	\$85,000
		\$1,860,000	\$110,000	\$1,750,000

The allocation of the proposed project cost is presented in Table 4.

The ledger for the project is presented in Exhibit B.

Table 4 - Allocation of Proposed Contract Cost

	Influent Sewer System Upgrade	Grit Basin Stop Gates	Bridge & Bridge Approach Imps.	Digester Roofing System	Water Quality Inst. Replacement	
Task Code	3707-000 and 3708-000	3712-000 and 3713-000	3717-000 and 3718-000	3723-000	3710-000	
Cost Center	Liquids	Liquids	Common	Solids	Liquids	Total
El Toro Water District	\$0	\$0	\$17,442	\$33,595	\$0	\$51,037
Emerald Bay Service District	\$0	\$0	\$561	\$971	\$0	\$1,532
City of Laguna Beach	\$0	\$0	\$10,659	\$18,468	\$0	\$29,127
Moulton Niguel Water District	\$783,500	\$275,200	\$132,821	\$96,818	\$57,900	\$1,346,239
South Coast Water District	\$0	\$0	\$8,517	\$14,748	\$0	\$23,265
Total	\$783,500	\$275,200	\$170,000	\$164,600	\$57,900	\$1,451,200

Requested Action

The following actions are requested:

Transfer \$335,000 from Task 1464 Disinfection System Upgrade to Tasks 3707-000 and 3708-000 Influent Sewer Manhole Repair.

Approval of the award of construction contract to Pacific Hydrotech at a price of \$1,451,200.

**EXHIBIT A
 BID SUMMARY
 RTP Miscellaneous Improvements 2016**

		Base Bid Item A - Influent Sewer System Upgrade	Gateway	Pacific Hydro Tech
	1	Mobilization/Demobilization	\$85,000.00	\$120,000.00
	2	Temporary Bypass	\$190,000.00	\$402,700.00
	3	RCP Influent Sewer-Repair	\$100,000.00	\$14,600.00
	4	Rehabilitate Manhole No. 1	\$75,000.00	\$20,900.00
	5	Rehabilitate Manhole No. 2	\$75,000.00	\$27,500.00
	6	CCTV Final Inspection	\$5,000.00	\$31,500.00
	7	Temporary Bypass for Junction Structure Slide Gate Modifications	\$200,000.00	\$124,900.00
	8	Construct Slide Gate Modification @ influent junction structure	\$205,814.00	\$57,300.00
	9	Spill Prevention, Control and Countermeasures Plan	\$15,000.00	\$4,300.00
	10	Sheeting, Shoring and Bracing Plan	\$1,500.00	\$500.00
	11	Other	\$0.00	\$2,000.00
		TOTAL BASE BID A	\$952,314.00	\$806,200.00

		Base Bid Item B -Grit Basin Stop Gates		
	1	Mobilization/Demobilization	\$50,000.00	\$12,300.00
	2	Temporary Bypass for Grit Tank Rehab	\$75,000.00	\$157,700.00
	3	Rehab 3 Grit Tank Stop Gates	\$75,000.00	\$27,000.00
	4	Rehab 3 Grit Tank Weir Stop Gates	\$75,000.00	\$69,900.00
	5	other	\$25,000.00	\$8,300.00
		TOTAL BASE BID B	\$300,000.00	\$275,200.00

		Base Bid Items C - Bridge and Bridge Approach Improvements		
	1	Mobilization/Demobilization	\$10,000.00	\$12,300.00
	2	Double Swing Chain Link Gate Removal and Disposal	\$2,500.00	\$2,000.00
	3	Install Metal gate Posts	\$2,500.00	\$2,700.00
	4	Removal of portions of existing chain link fencing, removal of existing traffic barrier postes and metal guard rail/posts	\$2,500.00	\$5,900.00
	5	Install portions of chain link fencing, posts and appurtenances, installation of portions of "Caltrans Midwest Guardrail System"	\$25,000.00	\$85,300.00

**EXHIBIT A
 BID SUMMARY
 RTP Miscellaneous Improvements 2016**

		Base Bid Items C - Bridge and Bridge Approach Improvements	Gateway	Pacific Hydro Tech
	6	Install Cast-in-place reinforced concrete curbs	\$5,000.00	\$21,300.00
	7	Install Sway Bracing	\$2,500.00	\$39,300.00
	8	Other	\$75,000.00	\$1,200.00
		TOTAL BASE BID C	\$125,000.00	\$170,000.00
		Base Bid Items D - Digester Roofing System		
	1	Mobilization/Demobilization	\$50,000.00	\$12,300.00
	2	Replacement of Digester 1 Roof Coating System	\$75,000.00	\$37,100.00
	3	Replacement of Digester 2 Roof Coating System	\$75,000.00	\$37,100.00
	4	Replacement of Digester 3 Roof Coating System	\$75,000.00	\$37,100.00
	5	Replacement of Digester 4 Roof Coating System	\$75,000.00	\$37,100.00
	6	Other	\$100,000.00	\$3,900.00
		TOTAL BASE BID D	\$450,000.00	\$164,600.00
		Base Bid Items E - Water Quality Instrumentation Replacement		
	1	Mobilization/Demobilization	\$25,000.00	\$6,200.00
	2	Replacement of Chlorine Residual Analyzers/Controllers	\$35,000.00	\$27,600.00
	3	Replacement of Turbidity Meters/Controller	\$35,000.00	\$23,600.00
	4	Other	\$75,000.00	\$500.00
		TOTAL BASE BID E	\$170,000.00	\$57,900.00
		Total Contract Price	\$1,997,314.00	\$1,473,900.00
		Alternative Bid Item		
		Temporary Bypass Sewage Pumping for Manhole 1 & 2	\$180,000.00	\$380,000.00

**BID SUMMARY
STATEMENTS BY BIDDER**

	Item	Manufacturer	Manufacturer
	Digester Roofing System	Hydro-Stop	Hydro-Stop
	Chlorine Residual Analyzers	Wallace & Tiernan	Wallace and Tiernan
	Turbidimeters	Hach	Hach
	Temporary Handling of Sewage	STP	Premier Pump and Power
	Polyurethane Coating	Sancom	Life Last
	Protective Coating of Sewage Handling Structures	Tnemec	Sherwin-Williams
	Slide Gates	Waterman	Waterman
	Slide Gates	Waterman	Waterman

	Division of work	Subcontractors	Subcontractors
	Coating Rehab	Sancon Engineering	National Coating
	Sewage Bypass	Charles King	
	Roof Coating	Innovated Painting & Water Proofing	JW Roofing
	Fence		Alcorn Fence
	Electrical	Southern Contracting	

Exhibit B

Project Cost Ledger: Regional Treatment Plant
Miscellaneous Improvements 2016
(Millions)

	Influent Sewer System Upgrade	Grit Basin Stop Gates and Weirs	Bridge and Bridge Approach Imps.	Digester Roofing System Rehab,	Water Quality Inst. Replacement	Total
Budget (2016/2017)	0.860	0.400	0.290	0.225	0.085	1.860
Budget Task Codes	3707/3708	3712/3713	3717/3718	3723	3710	
<u>Actual Bid Costs-</u>						
<u>Constr.</u>	0.784	0.275	0.170	0.165	0.058	1.451
<u>Construction Change</u>						
<u>Orders</u>	0.000	0.000	0.000	0.000	0.000	0.000
<u>Study & Design</u>						
<u>(Upfront Costs)</u>	0.025	0.025	0.050	0.010	0.000	0.110
Contingency	0.0265	0.0900	0.0200	0.0254	0.0271	0.1890
Construction Management	0.025	0.010	0.005	0.025	0.000	0.065
Gate Installation	0.000	0.000	0.045	0.000	0.000	0.045
Total Project Costs	0.860	0.400	0.290	0.225	0.085	1.860
<u>Spending</u>						
Total Current Spending	(0.025)	(0.025)	(0.050)	(0.010)	0.000	(0.060)
Remaining Spending	(0.835)	(0.375)	(0.240)	(0.215)	(0.085)	(1.510)
Remaining Budget	0.000	0.000	0.000	0.000	0.000	0.000

Agenda Item

Legal Counsel Review: No

Meeting Date: August 31, 2016

TO: Board of Directors

FROM: Betty Burnett, General Manager

SUBJECT: Letter of Support for Arundo Eradication Project

Background

The Mission Resource Conservation District (MRCD) has requested a letter of support from SOCWA for grant funding of Arundo removal under the *Southern California Coastal Watersheds Arundo Eradication Project: San Juan, Santa Margarita, San Luis Rey and San Diego Watersheds*.

Arundo is a giant reed which has been significantly changing the river environments in Southern California. Arundo, which originated in Asia and was introduced to the U.S. around the 1700s, is a robust perennial grass that can grow up to four inches per day. The reed is very invasive due to its broad root system and often chokes out other plant life. It propagates through its roots, and because the roots are shallow, the plant is easily spread by floods. In addition to invasiveness, Arundo uses three times as much water as willows, drawing down water tables or transpiring large amounts of water from semi-arid aquifers. Arundo is a fire hazard when it dries out, and a flood hazard when mats of Arundo form during a flood, blocking the river. Additionally, Arundo can alter channel morphology by retaining sediments and constricting flows.

While great strides in Arundo eradication have been made through the South Orange County Team Arundo as funding becomes available, especially in the Aliso Creek Watershed, there is still more work to be done throughout south Orange County.

Discussion/Analysis

The MRCD, with support from the County of Orange, is applying for Proposition 1 California Stream Flow Enhancement Program grant funding through the Wildlife Conservation Board for an *Arundo donax* (Arundo) eradication project in the San Juan Hydrologic Unit, which includes the entire South Orange County Watershed Management Area, among other coastal watersheds in Southern California. MRCD is seeking a letter of support, which will be submitted with their grant application.

Supporting our local resource conservation district benefits the South Orange County Watershed Management Area by leveraging MRCD's technical and financial assistance to conduct this project on both public and private properties. Conservation districts are citizen-directed organizations that work in coordination with other local, state and federal agencies to apply a broad range of solutions to resource problems.

SOCWA was provided the attached letter of support for the project.

Recommendation

Receive and file.

Fiscal Impact

None.

attachment - Draft of letter or support



South Orange County Wastewater Authority

August 24, 2016

Proposition 1 Grant Review Committee
CA Wildlife Conservation Board
1807 13th Street, Suite 103
Sacramento, CA 95811-7137

Dear Grant Review Committee:

This letter is to express the support of the South Orange County Wastewater Authority (SOCWA) for the funding request made by Mission Resource Conservation District (District) for its project, *Southern California Coastal Watersheds Arundo Eradication Project: San Juan, Santa Margarita, San Luis Rey and San Diego Watersheds (Project)*, which project is submitted to the Wildlife Conservation Board's Proposition 1 'California Stream Flow Enhancement Program.'

The District, with support from the County of Orange, is proposing to greatly expand *Arundo* eradication efforts on the San Juan Watershed. The requested funding will enhance stream flow, improve habitat for fish and wildlife, and reduce wildfire and flood risk. The requested funding will also help ensure that the successful results from previous *Arundo* removal projects are not impacted by *Arundo* stands that have been left untreated.

In addition, the Project will protect highly populated areas from flood and fire risk due to *Arundo's* ability to alter hydrology, geomorphology, and fluvial processes. The District's proven ability to manage large scale invasive removal projects across multiple watersheds and garner project collaboration from multiple organizations makes them a prime candidate to receive the requested funding.

SOCWA fully supports the effort of Mission Resource Conservation District as it seeks funding for the removal of *Arundo* in the San Juan, Santa Margarita, San Luis Rey and San Diego Watersheds. This important project will help protect Southern California's water resources.

Sincerely,

South Orange County Wastewater Authority

Betty Burnett
General Manager

Agenda Item

Legal Counsel Review: No

Meeting Date: August 31, 2016

TO: SOCWA Board of Directors
FROM: Betty Burnette, General Manager
STAFF CONTACT: Dina Ash, Human Resources Administrator
SUBJECT: Employee Suggestion Award Program

Summary

All employees are encouraged to submit new ideas which will improve the way the Agency operates – increase productivity, save time or money, eliminate waste or duplication or improve customer service or quality of work life.

Discussion/Analysis

An employee suggestion was to fabricate a tool that can be used to close gate valves that need to be closed to perform pump maintenance. Hard to reach valves can be extremely difficult to close. The fabricated tool can be used to avoid costly shutdowns.

Current solution is to execute a plant shut down, hire contractors and schedule employee overtime.

The tool material is stainless steel; the workmanship shows professional fabrication. This tool is designed to be used multiple times a year, and will assist staff in performing regular maintenance.

Advisory Committee Review

All suggestions are reviewed by the Personnel Department and an Evaluation Committee comprised of the O&M Superintendent, a supervisor from the Maintenance, Laboratory and Operations Departments. The General Manager reviewed and recommends the award.

Fiscal impact

Approximate annual savings between \$14,000 and \$20,000

Recommendation

In accordance with the Employee Suggestion Award Program, the Personnel Department and the Evaluation Committee have recommended the maximum award amount of \$1,000.

The General Manager seeks the concurrence of the Board in issuing the \$1000 award in recognition of this successful effort.

attachment(s) Gate Valve Tool Pictures x 2
Employee Suggestion Award Program Policy

SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

EMPLOYEE SUGGESTION AWARD PROGRAM

I. POLICY

All employees are encouraged to submit new ideas which will improve the way the Agency operates -- increase productivity, save time or money, eliminate waste or duplication or improve customer service or quality of work life.

A. DEFINITIONS

The following terms shall have the meaning respectively ascribed to them unless otherwise apparent from the context:

1. "Intangible Benefits" means the result of a suggestion which may not result in quantifiable savings, such as improved employee morale, safety, quality, communication, and service.
2. "Tangible Benefits" means the result of a suggestion which will produce quantifiable savings, such as save time, labor, space, material and supplies.

B. ELIGIBILITY

1. Any employee of the Agency is eligible to submit a suggestion. However, monetary awards will not normally be given to an employee whose duties and responsibilities would reasonably be expected to include improved Agency operations (i.e. General Manager, Assistant General Manager, Engineer, Plant Superintendent, Chief Operator/Assistant Superintendent, Laboratory Supervisor, Maintenance Supervisor).

II. PROCEDURE

A. SUBMISSION

1. The following steps are to be followed when submitting a suggestion:
 - a. Describe the present method or system, identifying the problem with that method or system.
 - b. Describe how the suggestion will improve the current method or system.
 - c. Explain how the suggestion will affect the general safety and welfare of the public and/or Agency personnel as well as other intangible areas as defined in Section I-A-1.
 - d. Estimate the savings in the following areas resulting from the implementation of the suggestion:

- 1). Amount of man-hours saved annually
 - 2). Dollar and man-hour savings due to less lost-time accidents
 - 3). Potential dollar savings due to decreased risk of legal action
 - 4). Dollar amount of material savings
 - 5). Give product name, including model number, name of vendor, manufacturer and/or supplier of materials to be used to implement the suggestion
 - 6). Quantity of materials saved and frequency of savings
 - 7). Equipment savings
 - 8). Savings in any area not listed
 - 9). Any installment costs
- e. Include sketches, pictures or other supplementary information with the above listed information.
2. The following suggestions are ineligible:
- a. Complaints
 - b. Routine maintenance suggestions
 - c. Suggestions under consideration within the past 12 months
 - d. Suggestions already implemented, unless submitted by the original suggester within 30 days of the implementation date.
 - e. Duplicate or anonymous suggestions
 - f. Suggestions that deal with salary adjustments and job classifications.
 - g. Suggestions that call attention to a problem but offer no solution.
3. Suggestions should be typed, if possible, and must include the names of the employees submitting the suggestion and the date submitted.
4. All suggestions shall be submitted to the Personnel Department in a sealed envelope marked "Suggestion Award Program".
5. In cases of duplicate suggestions, the suggestion bearing the earliest date of receipt will receive the consideration of award.

B. REVIEW

1. All suggestions shall be reviewed by the Personnel Department for clarity, content and completeness. Ineligible suggestions will be returned with a full explanation.

2. The Human Resource Department shall forward all eligible suggestions to the Evaluation Committee for consideration of feasibility.
3. The Evaluation Committee shall be comprised of the Plant Superintendent, and a supervisor from the Maintenance, Laboratory and Operations Divisions.
4. The Evaluation Committee shall make the final evaluation and recommend a level of award recognition for General Manager approval.
5. The General Manager shall consider the recommendations of the Evaluation Committee and approve or modify said recommendations.
6. The Agency's Board of Directors shall authorize payment of cash award and/or presentation of certificate.
7. Suggestions that are not used are considered property of the suggester for one (1) year. If that suggestion is used during that year, the suggester will be given appropriate recognition. The suggester may re-submit his/her suggestion anytime during that twelve (12) month period.
8. Decisions regarding eligibility of employees and the type and/or amount of awards are final.

C. AWARD

1. Employee Suggestion Awards are categorized as either monetary or non-monetary.
 - a. Non-monetary awards are Certificates of Recognition and are used to recognize an employee for submitting a suggestion that resulted in an intangible benefit.
 - b. Monetary awards will be given for suggestions resulting in tangible benefits. The suggester will earn ten (10) percent of the "net annual savings" or "net annual increase in revenue" with a minimum of \$100 and a maximum of \$1,000.
2. Split awards will be authorized for accepted suggestions formally submitted by two or more employees. Monetary awards will be divided equally among all the eligible persons whose names appear on the suggestion.
3. Suggestions receiving monetary awards will become the exclusive property of the Agency.
4. All awards will be presented at the regular meeting of the Agency's Board of Directors.
5. No more than \$20,000 worth of awards will be granted in any one fiscal year.

EXHIBIT "A"

SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

**Employee Suggestion Award Program
Suggestion Submittal Instructions**

To submit a suggestion, use the Suggestion Form included in this packet, and follow these steps:

1. Suggestions should be typed, if possible, and must include the names of the employees submitting the suggestion and the date submitted.
2. Describe the present method or system, identifying the problem with that method or system.
3. Describe how your suggestion will improve the current method or system. Indicate product name, including model number, name of vendor, manufacturer and/or supplier of materials to be used to implement your suggestion, if applicable.
4. Explain how your suggestion will affect the general safety and welfare of the public and/or Agency personnel as well as other intangible areas such as employee morale and communication.
5. Estimate the savings in the following areas resulting from the implementation of your suggestion:
 - A. Amount of man-hours saved annually
 - B. Dollar and man-hour savings due to less lost-time accidents
 - C. Potential dollar savings due to decreased risk of legal action
 - D. Dollar amount of material savings
 - E. Quantity of materials saved and frequency of savings
 - F. Equipment savings
 - G. Savings in any area not listed
 - H. Any installment costs
6. Include sketches, pictures or other supplementary information with the above listed information.
7. Submit your suggestion to the Human Resource Department in a sealed envelope marked "Suggestion Award Program".

Please review your suggestion form to ensure that you have clearly documented all the details regarding your suggestion including all costs, savings and materials involved. If you need assistance in estimating the man-hour savings, and/or product material costs, please contact your supervisor.

The following suggestions are ineligible: Complaints; Routine maintenance suggestions; Suggestions already implemented within the past 12 months; Duplicate or anonymous suggestions; Suggestions that deal with salary adjustments and job classifications, and Suggestions that call attention to a problem but offer not solution.

Date Received

No.

SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

**Employee Suggestion Award Program
Suggestion Form**

Title of Suggestion _____ Date _____

Affected Department _____

SUGGESTER #1

Name _____ Department _____

Job Title _____

Signature _____

SUGGESTER #2

Name _____ Department _____

Job Title _____

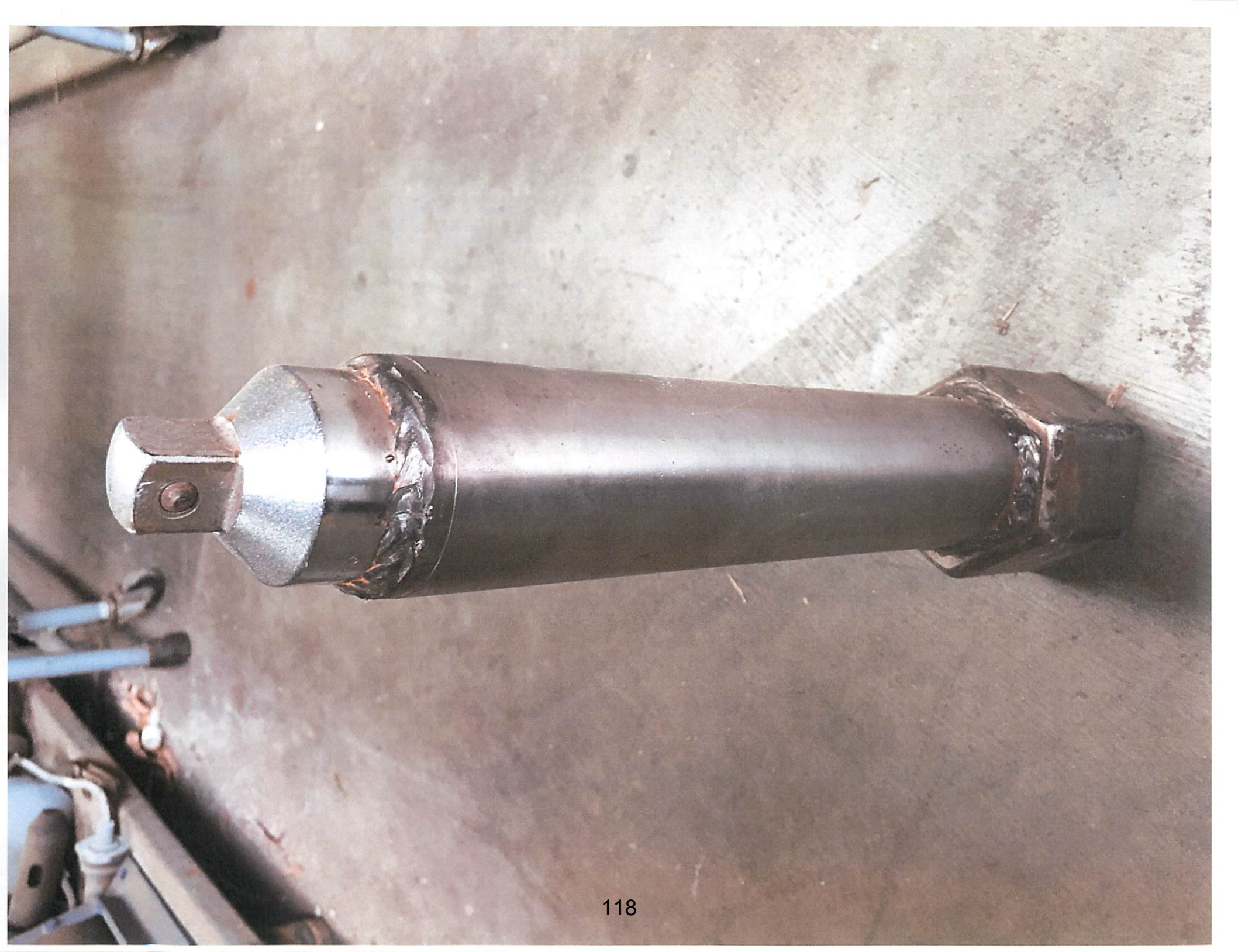
Signature _____

SUGGESTER #3

Name _____ Department _____

Job Title _____

Signature _____





Agenda Item

Budgeted: N/A
Budget amount: N/A
Line Item: N/A
Legal Counsel Review: N/A
Meeting Date: August 31, 2016

TO: Board of Directors
FROM: Betty Burnett, General Manager
STAFF CONTACT: Mary Carey, Finance Controller
SUBJECT: SOCWA's Management Discussion and Analysis of FY 2015-16

Summary

This agenda item is Management's Discussion and Analysis of FY 2015-16 O&M and Capital Expenditures compared to Budget. The following information was reviewed at the Finance Committee on August 30, 2016.

A summary of O&M follows:

O&M Budget vs. Actual				
	FY 2015-16 Budget	FY 2015-16 Actual	** (Over)/Under Budget	% Expended
*O&M, Operations and Environmental Compliance, Safety	16,345,754	16,420,011	(74,257)	100.5%
Residual Engineering	246,613	194,026	52,587	78.7%
Administration	2,072,117	1,728,514	343,603	83.4%
IT	620,335	684,236	(63,901)	110.3%
IT transferred to PC's and Departments	(620,335)	(684,236)	63,901	110.3%
Total SOCWA	18,664,484	18,342,551	321,933	98.3%

* Includes subsequent budget approvals, \$39k for CTP landscaping and \$24k for State Revolving Loan inquiry

** FY 2014-15 USE AUDIT Refund was **\$1,517,965**.

The Authority met its objective to improve Budget Accuracy and not request and hold Member Agency Funds until the completion of year end USE AUDIT reporting.

The O&M Budget variance is \$322k under budget which is a \$1.2MM or 79% improvement over the previous year budget variance.

Budget Carryovers to FY 2016-17

- Landscaping, \$57,738

Midyear Forecast Approval Carryover to FY 2016-17

- PC 17, RTP, IT Direct costs for SCADA, \$19,861

O&M (Operations and Environmental Compliance, Safety) by Project Committee									
PC 02	PC 12	PC 03	PC 05	PC 15	PC 17	PC 21	PC 24	PC 08	SOCWA
5,530,338	203,229	43,957	398,679	2,807,421	6,906,438	602	333,548	195,799	16,420,011
33.7%	1.2%	0.3%	2.4%	17.1%	42.1%	0.0%	2.0%	1.2%	100.0%

Significant projects not included in original Budget

1. IT Direct costs for RTP SCADA system, \$275k
2. Legal Fees Budget was \$67,000 between Admin. and O&M, with only \$5k budgeted to O&M purposes; however, the Authority incurred significant legal expenses allocable to O&M, and it was \$121k over budget primarily due to:
 - PC2, JB Latham, \$40k, primarily due to an agreement with Zephyr Company, the successor to Makar. The costs of negotiation of the agreement were not estimated for the FY legal budget. The successful negotiation included:
 - Agreement to raise the height of the wall along the property line.
 - Agreement to pay for the costs of treatment of the water discharged to the JB Latham Plant.
 - Costs of permitting, insurance and maintenance related to the use of the Storm Water Pump Station.
 - Agreement by the Developer to comply with the requirements to be permitted for discharge of water into the Plant consistent with the permitting requirements for diverted water.
 - The negotiations resulted in Board approval of an agreement acceptable to Zephyr.
 - Also, for PC 15, Coastal Treatment Plant, \$89k, primarily due to the AWMA Bridge matter. The original cost estimate for the Bridge transfer was in the neighborhood of \$1 million. The resolution at the lower cost offset the legal expenses incurred.

Other costs not included in Budget

Property and Liability Insurance, \$193k

FY 2015-16 Capital Budget vs. Actual						
	Capital Budget	Fiscal Year Spending	(Over)/Under Budget	% Expended	Member Agency Billed	*Cash on Hand
Large Capital	31,307,318	22,064,396	9,242,922	70.5%	22,610,813	1,089,701
Small Internal Capital	1,279,850	759,065	520,785	59.3%	1,229,852	470,787
Total Capital	32,587,168	22,823,461	9,763,707	70.0%	23,840,665	1,560,488

* Cash on Hand is as of 6/30/2016 and includes carryovers from prior fiscal years. As projects are completed, all residual Cash is refunded to the Member Agencies.

The Authority had a very successful and aggressive year in making progress on Large Capital Projects, expending over 70% of the budget; and invoicing less than 3% of what was needed for Capital Outlays.

Recommendation

The Finance Committee has reviewed the above information and recommends to the Board of Directors to receive and file the above as information items only.

Agenda Item

Budgeted: Yes
Budget amount: \$40,000
Line Item: Included in Admin Management Support
Legal Counsel Review: No
Meeting Date: August 30, 2016

TO: Finance Committee
FROM: Betty Burnett, General Manager
STAFF CONTACT: Mary Carey, Finance Controller
SUBJECT: Selection of Real Estate Valuation Firm to Provide Appraisal Services for SOCWA's Real Properties, Land and Buildings

The following information was reviewed by the Finance Committee on August 30, 2016. Finance Committee concurs in the action of the staff.

Summary

As the Board is aware, SOCWA's "Real Property Assets" have not been recorded in SOCWA's financial records and a correction of fixed asset records is needed. The approved budget includes the funding for a Real Estate Valuation Firm to inventory and value land and buildings; the General Manager will move forward to enter into an agreement with **Sycamore Valuation** in the amount of \$34,089, to provide historical Use Value for 45 buildings and 13 land parcels.

The contract amount is within the General Manager's spending authority.

Discussion/Analysis

Requests for Proposals

Two firms were asked to submit proposals for the Valuation Project:

Real Estate Valuation Firms	Hours	Quote	Firms Selected based on:
Sycamore Valuation	107	34,089	Recommended by SMWD previous CFO
Overland Pacific Cutler, Inc.	315	73,325	SOCWA's GM has worked with OPC in the past.

Background

The following real properties became the properties of SOCWA when the listed Predecessors were combined to form SOCWA:

**South Orange County Wastewater Authority
Property Listings and Valuations
In Dollars**

Orange County Assessor's Secured Assessment Roll							
Parcel	Title Owner	1/1/2016 Land Value	Land Base Year	Land Base Year Assessment	1/1/2016 Improvements/Buildings	Improvements Base Year	*Improvements Base Year Assessment
668-251-05	South East Regional Reclamation Authority	658,692	1975 (1981-82 used)	358,146	11,915,685	1975 (1981-82 used)	6,478,819
668-251-07	South East Regional Reclamation Authority	98,956	1987	60,000	830,638	1995	489,995
120-191-66	Aliso Water Management Agency	4,928	1980	2,692			0
120-191-79	Aliso Water Management Agency	17,835	1983	10,000		1983	0
654-083-05	Aliso Water Management Agency	5,387	1982	0		1982	0
654-381-02	Aliso Water Management Agency	168	1980 (1984-85 used)	107			0
654-381-09	Aliso Water Management Agency	2,771,915	1998	2,055,000	57,758,540	1998	42,820,099
654-381-15	Aliso Water Management Agency	3,217	1988	2,000		1988	0
654-381-18	Aliso Water Management Agency	45,257	1988	27,998		1987	0
654-381-20	Aliso Water Management Agency	0	1989	0		1989	0
641-241-13	Aliso Water Management Agency	57,533	1975 (1978-79 used)	7,370			0
644-213-14	Aliso Water Management Agency	44,062	1975 (1978-79 used)	5,650			0
120-191-81		49,969	1983	28,000		1983	0

* Orange County Assessor's Office does not have Record of Improvements Content/what makes it up. The Buildings will require a complete inventory and appraised value for each unit.

Scheduled Completion Date

The work is scheduled for completion by the end of September and the results will be used To update the Authority's Financial Records for Fiscal Year 2015-16.

Financial Impact

There will be a Significant Improvement/Increase in the Authority's Net Position.

Recommendation

Information item, receive and file.

Agenda Item

Legal Counsel Review: No

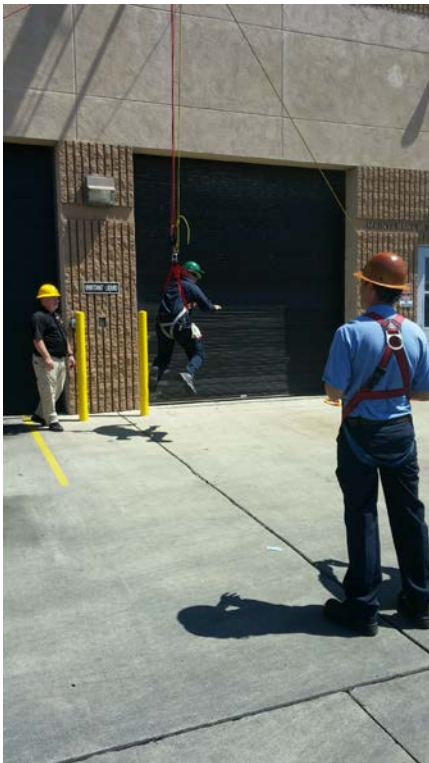
Meeting Date: August 31, 2016

TO: SOCWA Board of Directors
FROM: Betty Burnett, General Manager
SUBJECT: General Manager's Status Report

Old Business

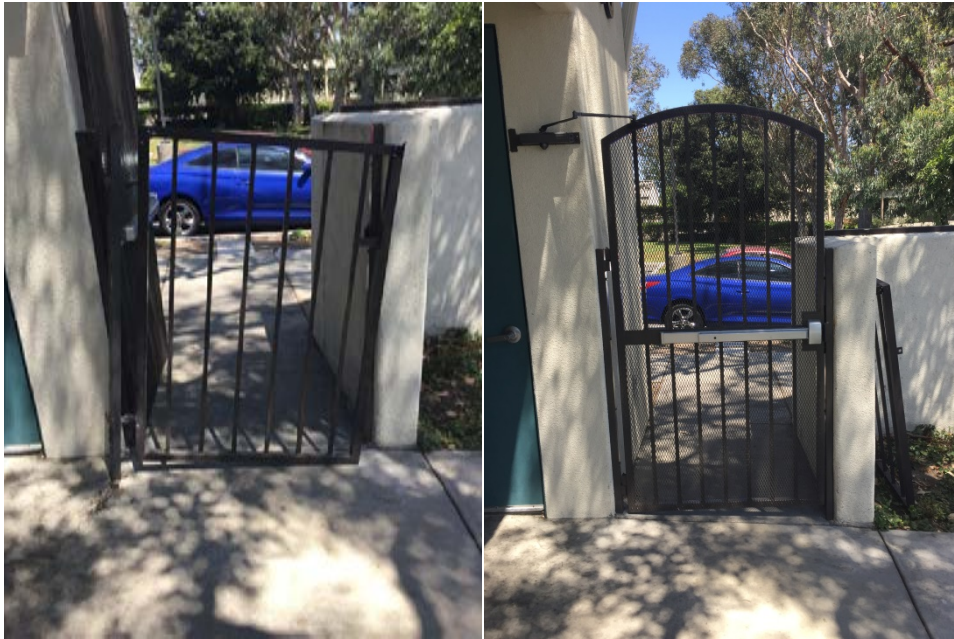
Confined Space Safety Training

During August 2016, all SOCWA Operations, Maintenance, Electrical and SCADA Systems staff are participating in the annual refresher of Confined Space Entry Training. This training prepares employees through hands-on training for confined space entry and rescue. Employees learn how to recognize confined circumstances and how to prepare, enter and exit safely. They also learn how to address accident scenarios where a fellow employee may become disabled in a confined space. This is important safety training for all staff and recommended by CSRMA. SOCWA O&M staff have done an exceptional job at taking and adhering to the training and SOCWA's Environmental Compliance Safety/Risk Manager, Sean Peacher is to be commended for starting up the training last year and completing the refresher course as organized for this year.



Gate/Security System Improvements

This month, the exterior entry gates at JBL were replaced with lockable and non-scalable units. JBL continually has homeless individuals in the area. These new gates will help deter them from coming into the treatment plant through the administration buildings pedestrian access gates. These gates will also help ensure that regular visitors to the plant go through the front entrance and sign in. This will help staff track who is on site in the event of an emergency.



Before

After

Aliso and Woods Canyon August Fire Update

As the Board was notified at the August 4, 2016 Board Meeting, a brush fire broke out Tuesday August 2, 2016 at approximately 3:45pm near the intersection of Cottage and Wood Canyon Road (on the edge of Wood Canyon Wilderness Park). Attached hereto please find a memo from Sean Peacher, SOCWA's Environmental Compliance Safety/Risk Manager, with additional detail surrounding that incident.

New Business

SCAP Biosolids Trends Survey

Attached please find SOCWA's response to the SCAP Biosolids Trends Survey. SCAP is planning to release the overall results of its survey near the close of the 2016 calendar year.

Please note that Jim Burror, Director of Operations will be scheduling a SOCWA TAC Group meeting in the next several weeks to work on SOCWA's Master Plan Update for Biosolids.

County OC Alert System Participation

SOCWA Staff recently renewed the MOU for participation in the OC Alert Emergency Notification System. In August, several staff members attended training on the use of the OC Alert System.

CASA Conference Attendance

The General Manager attended the August, 2016 Conference of the California Association of Sanitation Agencies. Highlights of the program were as follows:

CSRMA Presentations

CSRMA held several information presentations on Tuesday of the conference week (8/9/16), these included addressing potential liability exposures in construction.

In the discussion of covering construction contracting risk a new "insuring" product was discussed that may become a part of the CSRMA portfolio for sanitation agencies. That product is the owners professional protective insurance product. An OPPI can be purchased for individual or large scale consolidated projects (of value \$25 million or more) or an OPPI can be set up in a pooled arrangement whereby smaller value projects tag onto the product's coverage. An OPPI addresses third party and first party coverage in design defect or professional liability situations. Typical construction professional liability for design or engineering work will not offer professional liability additional insured status to agencies. The product is designed to avoid a disincentive to design professionals to under insure their work by allowing for recovery by the policy from the hired design professional on the work or professional service.

CSRMA's training day also covered employee safety in discussion of the proper preparation, documentation and adherence to job safety assessments (JSAs) and their relationship to employee training program objectives.

Federal Legislative Committee

The SOCWA GM continued as Chair of the CASA Fed Leg Committee. Topics covered included the drought relief legislation (something will pass congress at some point), the outlook for the remainder of the calendar year and continued congressional interest in citizen suit reform and the extension of NPDES permit terms.

An overview report was also provided by EPA staff on the WIFIA Program (Water Infrastructure Financing and Innovation Act). The funding for this program is dedicated to the "set up" of the program by EPA at this time, but it is believed that Congress will appropriate \$25 million for the program in the coming year as actual program startup funding. The funding will be through EPA, and made available to state and local government agencies (as well as federal and tribal). The focus of the funding is on project assistance for flood control and clean water, including

brackish, desalinated and recycled water projects. The type of projects of most interest to EPA to assist are those reasonably anticipated to exceed \$20 million or for smaller communities \$5 million in projected cost. If WIFIA funding is used, SRF funding and other borrowed funding can also still be used.

DPR Discussion

Traci Mimamide, Chief Operating Office for LA Sanitation, provided an update on Direct Potable Reuse regulatory developments. She noted that the Science Panel Report is now on the State Water Board's web-site. She predicted that DPR regulations for blending to well water resources and with surface water (indirect projects) are not a long way off, but she described that "flange to flange" projects ("direct") may be many years away from becoming a reality.

Advanced Water Purification Project

The GM toured the Monterey Water Pollution Control Authority's demonstration facility which is known as Pure Water Monterey. The project brings into the POTW headworks flows from runoff and ag drains and demonstrates technology for producing a high quality drinking water. Of interest, for many years MWPCA has produced recycled water that is used to irrigate food crops. The Pure Water Monterey project will be used as a ground water replenishment source water. See attached project flier.

Memorandum

DATE: August 24, 2016

TO: Betty Burnett

FROM: Sean Peacher, Environmental Compliance Safety/Risk Manager

SUBJECT: Aliso and Woods Canyon August Fire Update

A brush fire broke out Tuesday August 2, 2016 at approximately 3:45pm near the intersection of Cottage and Wood Canyon Road (on the edge of Wood Canyon Wilderness Park). At the time of the fire, the Coastal Treatment Plant (CTP) Chief Operator received a phone call from the OC Parks Senior Park Ranger notifying SOCWA of the fire. The CTP Chief Operator was in the Administration Building at CTP and could see helicopters in the vicinity of the reported fire. The Senior Park Ranger suggested SOCWA evacuate the plant due to the fire, but that shelter-in-place may be possible. The Chief Operator indicated that it is probably best to evacuate. OC Parks was in the process of evacuating visitors presently in the park, and attempting to prevent additional visitors from entering the park due to the active fire.

After the call from OC Parks, the Chief Operator announced "Code 2" on the CTP loudspeaker system and checked to make sure all plant personnel received notification of the immediate evacuation. The Chief Operator notified SOCWA's Director of Operations via telephone of the fire and that plant personnel were evacuating (to the south through The Ranch Golf Course). The Chief Operator checked the plant while driving out to ensure all plant personnel were evacuated, including contractors working onsite prior to the fire. The General Manager of the golf course was contacted by the Chief Operator once to the golf course to notify the course of the call received from OC Parks and evacuation of CTP. The Chief Operator also stopped to notify personnel located at the South Coast Water District (SCWD) facility near the golf course.

Once the Director of Operations was notified of the evacuation, O&M personnel present at the JB Latham (JBL) Plant were notified of the fire and for standby employees to be on alert until more information is known. The Director of Operations informed SOCWA's Environmental Compliance Safety Risk Manager (Safety Manager) of the fire and evacuation of CTP. The Safety Manager contacted the OCFA Fire Dispatch Supervisor at (714) 573-6522 to notify the OCFA that SOCWA received notice of the fire and has evacuated CTP of all plant personnel. The OCFA informed SOCWA's Safety Manager that the fire was limited to a small approximately 30 foot by 30 foot area and that the helicopters just pulled off the fire as OCFA is onsite with ground crews. SOCWA's Director of Operations monitored the OCFA website which indicated 28 OCFA firefighters were onsite at the time to contain and extinguish the fire.

According to information SOCWA received the day after the fire (Wednesday August 3, 2016) from the Senior Park Ranger, "the vegetation fire started at approximately 3:45 at the intersection of Cottage and Wood Canyon Rd. The fire was on the southeast side of the road, just above Aliso and Wood Canyon Wilderness Park." According to the Senior Park Ranger, when she arrived just a few minutes after the fire had started there were already 5 OCFA units parked along Wood Canyon Road working to put out the fire. The plume of smoke was about 50 feet high and 50 feet wide, and the total size of the fire was approximately 1/10 of an acre.

According to information the Senior Park Ranger provided, "OCFA determined the cause of the fire was due to a thick layer of pine mulch, with the sun hitting right on it and just enough wind depth to start flames." Fire Fighters reportedly worked on the location for approximately 2 hours soaking and spreading mulch. The fire was not determined to be on park property.

During emergency conditions, it is the stated policy of SOCWA to; Protect the health and safety of all plant employees, Maintain adequate wastewater treatment and protect the facilities, Not endanger neighbors or individuals in the general vicinity.

Below is a review of the actions taken in response to the recent fire:

- Plant personnel received notice of a nearby fire and successfully evacuated all plant personnel safely and quickly without incident and all individuals accounted for
- The Chain of Command was followed and immediate action was taken to minimize the nature of the emergency, protect the safety of all plant personnel, protect the general public, and to ensure the protection of the plant's physical facilities
- The CTP Chief Operator followed proper procedures to ensure plant was evacuated and offsite contacts were notified (SOCWA internal contacts and external contacts)
- Support personnel at JBL responded properly when contacted by CTP (completed internal SOCWA contacts, also contacted OCFA to notify fire response of evacuation of critical infrastructure and to receive additional fire information from OCFA)
- Response Time – The estimated time it took for a full site evacuation is 10 minutes (to the golf course). This is believed to be a sufficient evacuation time (based on this specific fire location, intensity, and other known factors at time of evacuation)
- Recent efforts to improve structures and landscaping for fire prevention and hardening appear to have been beneficial given this event and other fire activities in the region

Below is a review of the lessons learned in response to the recent fire:

- Situational Awareness - All employees should be aware of their surroundings at all times (be on alert for smoke), awareness is to be heightened during fire danger months
- Critical Facility Infrastructure – All employees to keep all fire doors closed at all times for proper facility protection in case of requirement for immediate facility evacuation
- Designated off-site location for all employees to meet at as a rally point for a head count during an emergency (to be updated in SOCWA's Safety Manual)
- Update Emergency Contact List to include additional SOCWA contact numbers and external contact numbers (including OCFA, OC Parks, and The Ranch Golf Course)
- Try to improve emergency access through The Ranch Golf Course (add SOCWA key to keyed access gate if possible and improved maintenance of emergency access road)

Below is additional fire prevention/response information (from Fire Safety for Water Utility Field Staff Training instructed by the OCFA in July 2015 and attended by SOCWA):

- The ignitability of the area is determined by the fuel size and type. During high humidity, fuels are less ignitable.
- Several topographic features effect fire intensity and spread such as the slope (steep or flat), canyons (wide or narrow), ridges (saddle or chimney), and aspect.
- A smoke column is a good indicator of wind direction and direction the fire is heading. If the smoke column is going straight up it is difficult to tell the direction the fire will burn. The direction of the fire will be indicated by the smoke column as the fire moves.
- Physical barriers such as roads, green belts, fuel breaks, creeks, and rivers affect the intensity and spread of wildland fires.
- Use the acronym LACES (Lookout, Awareness, Communications, Escape Routes, and Safety Zones) and work in teams of two at a minimum.
- Drive with vehicle headlights on, windows rolled up, and nothing combustible in the bed of the vehicle.
- Always slow down when driving near fire – going in may be easy, but leaving rapidly amongst heat and smoke will create confusion and possible injuries of other personnel.
- Make a note of time/distance back to main roads and always have an alternate route.
- If shelter in place is needed, shelter from a concrete wall or building is highly preferred over a vehicle as the plastic in the vehicle will melt causing life threatening fumes.

2015-2016 SCAP Biosolids Trends Survey

Name of Agency: SOCWA

SCAP is attempting to profile current biosolids trends throughout California. Please take a few minutes to answer the following questions regarding your agency's biosolids recycling activities. SCAP will compile the data and distribute to enable all of its members to gain insight into statewide biosolids recycling activities.

The intent of this survey is to quantify specific biosolids information from SCAP agencies in order to identify current industry trends from the following issues:

- Biosolids production volumes
- Solids digestion and dewatering technologies employed
- Biosolids management and transportation rates
- Agency challenges
- Agencies 5-year biosolids management plans
- Biosolids marketing efforts
- Identify social media outlets for biosolids marketing
- Biosolids management technologies and destinations

1. How many tons of biosolids did your agency produce?

	2014	2015	2016 (projected)
Wet Tons	22,771	22,251	22,200
Biosolids Quality	Other	Other	Other

<--- Select from Drop Down Menu

2. Where did you send your agency's biosolids in 2015 and 2016?

Facility Name	Total Wet Tons	Biosolids Quality	Management Option	Contractor(s)	Location/Destination (i.e. County and State)	Miles	Technology	Tipping Fee (\$/ton)	Transportation cost (\$/ton)
JBL	5,652.81	Other	Composting	Nursery Products	San Bernardino County, CA	134			
JBL	2,896.56	Other	Soil Blending Landfill - Direct Burial	NA	Prima Deshecha Landfill, San Jaun Capistrano, CA	18			
RTP	1,887.21	Class B	Composting	Nursery Products	San Bernardino County, CA	131			
RTP	2,629.28	Class B	Soil Blending Landfill - Direct Burial	NA	Prima Deshecha Landfill, San Jaun Capistrano, CA	22			
RTP	9,185.26	Class B	Composting	Synagro	South Kern Industrial Complex, Kern County, CA	174			
		Please Select	**Please Select**						

		Please Select	**Please Select**						
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^ ----- Select from Drop Down Menu ----- ^

3. What type of solids digestion technology does your agency use to stabilize solids? Please identify from the drop-down list below

Facility Name	Solids Digestion Technology
JBL	Mesophilic anaerobic digestion (single stage)
RTP	Mesophilic anaerobic digestion (single stage)
	Please Select
	Please Select
	Please Select

If Other, Please describe:

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4. Dewatering

What is the average percent solids are your agency's biosolids?

Facility Name	% Solids	Dewatering Process	Equipment Manufacturer
JBL	24.6%	Centrifuge	Andritz
RTP	23.2%	Centrifuge	Andritz
		Please Select	
		Please Select	
		Please Select	

If Other, Please describe:

--

5. What are the main challenges your agency faces with biosolids recycling? Please choose all that apply to your agency and prioritize your choices (1 being the highest). Please identify other challenge

Challenge	Priority
Rising Costs	1 <--- Select from Drop Down Menu
Public Perception/Relations	5 <--- Select from Drop Down Menu

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Pure Water Monterey
A Groundwater Replenishment Program

ADVANCED WATER PURIFICATION DEMONSTRATION FACILITY



WHAT IS PURE WATER MONTEREY?

The Pure Water Monterey project will provide a clean, safe and sustainable source of water for Monterey County. It emphasizes advanced water recycling technology, replenishment of the groundwater supply and protection of the environment.

WHERE IS THE WATER FROM?

No other advanced water treatment project recycles the waters that Pure Water Monterey does. Agribusiness Processing Wash Water, Stormwater, Agricultural Irrigation Return Flows and Domestic Wastewater are all utilized to produce up to 10,000 acre-feet of purified water. Sustainable cooperation meets technological innovation for the benefit of everyone!

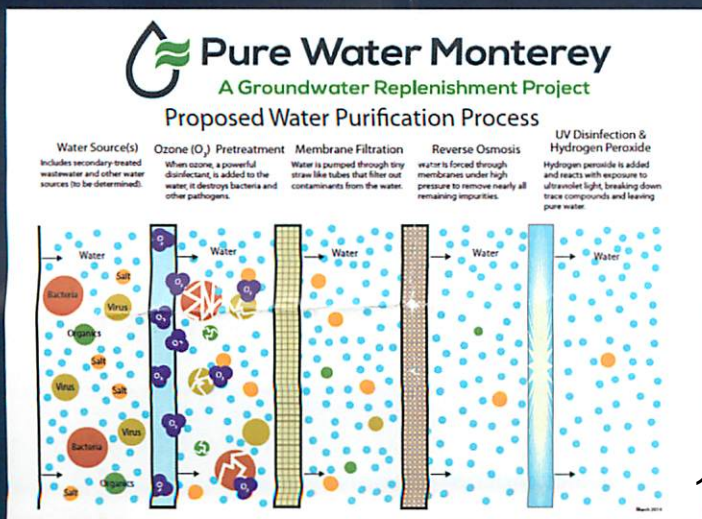
FACILITY TESTS MULTIPLE SOURCE WATERS

The advanced water treatment demonstration facility tests water from a multitude of sources to determine the feasibility of use by homes, businesses, industrial industries and agricultural interests.

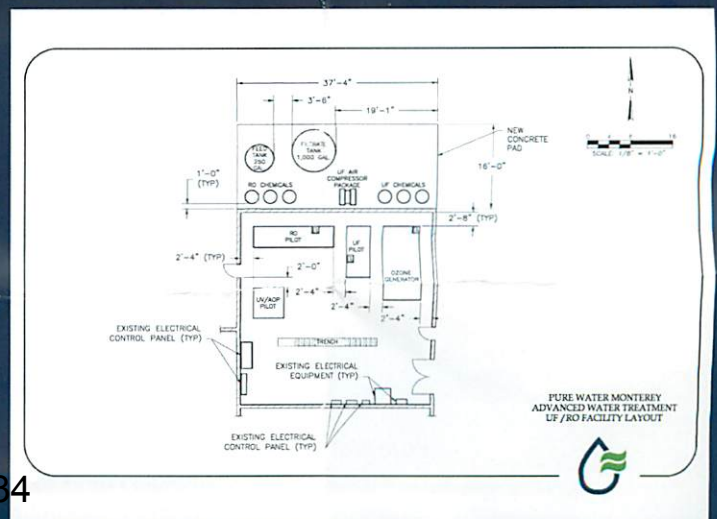
TESTING THE WATERS...

In late 2013, the Pure Water Monterey Advanced Water Treatment Pilot Facility was brought online. Its main purpose is to provide a thorough and real-time analysis of the treatment of the various source waters identified in the project. Additionally, the facility also provides data on the overall treatment of the water through five distinct steps. This sampling of five different water sources effluents for various water quality characteristics and compounds of emerging concern was used to create the appropriate environmental documentation for completing the development of the project's now released Draft Environmental Impact Report.

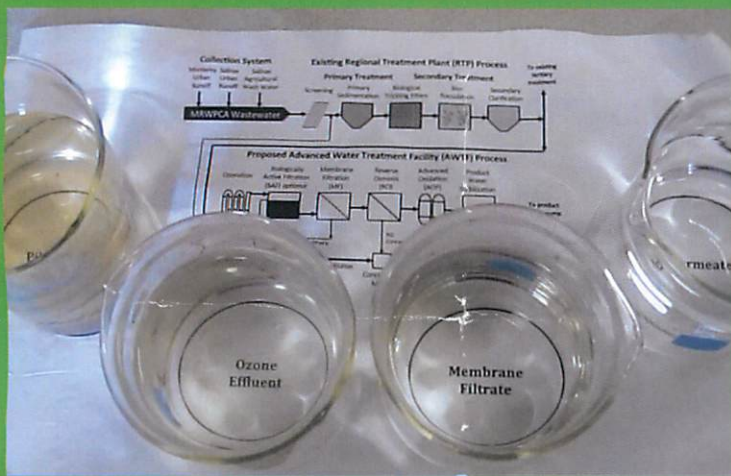
HOW DOES IT WORK?



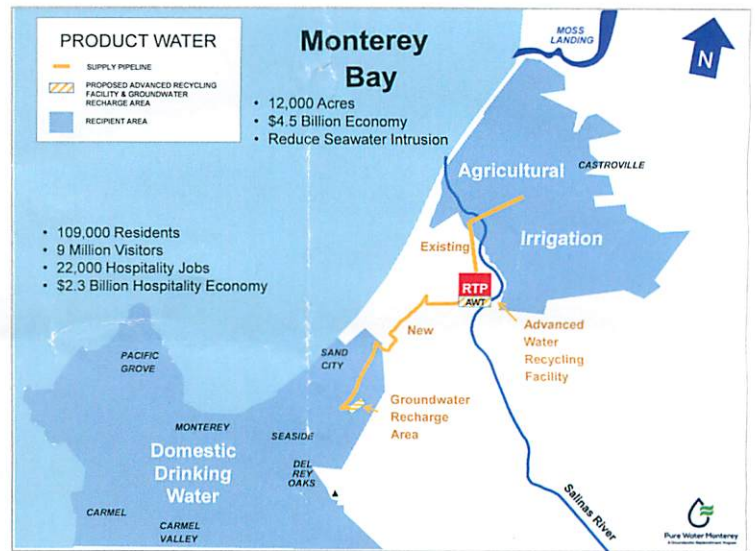
PROVEN TECHNOLOGY



THE FUTURE OF WATER IN ACTION...



WHERE DOES THE WATER GO?



HOW DOES PURE WATER MONTEREY HELP MONTEREY COUNTY?

- In 2014, The Demonstration Facility Allowed 800 Million Gallons Of Recycled Water To Be Diverted For Agricultural Uses During The Drought, A Practice That Continues In 2015
- Augments And Protects Potable And Groundwater Resources
- Protects Against Additional Seawater Intrusion
- Reduces Diversions From Waterways, Supporting Healthy Riparian And Aquatic Systems
- Improves Water Quality In Surface Water And Monterey Bay By Diverting, Treating And Reusing Impaired Waters
- Provides A Long-Term, Reliable And Resilient Water Supply For Agricultural, Urban And Environmental Uses



Pure Water Monterey is a multi-agency project jointly developed by the Monterey Peninsula Water Management District and the Monterey Regional Water Pollution Control Agency

www.purewatermonterey.org

