

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**

Thursday, October 6, 2016  
8:30 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 Special Board of Directors Meeting August 31, 2016.....1

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

B. Minutes of Special Board of Directors Meeting September 1, 2016.....7

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

C. Minutes of Engineering Committee July 14, 2016.....9  
ACTION: The Board will be requested to approve subject Minutes.

D. Minutes of Engineering Committee August 11, 2016.....12  
ACTION: The Board will be requested to approve subject Minutes.

E. Minutes of Technical Advisory Committee September 14, 2016.....16  
ACTION: The Board will be requested to approve subject Minutes.

F. Minutes of Technical Advisory Committee August 14, 2014.....19  
ACTION: The Board will be requested to approve subject Minutes.

G. Minutes of Technical Advisory Committee July 15, 2014.....22  
ACTION: The Board will be requested to approve subject Minutes.

H. Approval of Financial Matters.....25  
ACTION: The Board will be requested to approve financial summaries for July 31 and August 31, 2016.  
FISCAL IMPACT: Please refer to staff report.

- a) Summary of Disbursements
  - Month of July 2016 - Exhibit A.....27
  - Month of August 2016 – Exhibit A-1.....28
- b) Schedule of Funds Available for Reinvestment – Exhibit B.....29
- c) Schedule of Cash and Investments – Exhibit C.....30
- d) Capital Schedule – Exhibit D.....31
  - Capital Projects Graph – Exhibit D1.....32
- e) Budget vs. Actual Expenses:
  - Operations and Environmental Summary – Exhibit E1.....33
  - Residual Engineering, after transfer to Capital – Exhibit E2.....35
  - Administration and Other Consolidated Expenses – Exhibit E3.....36
  - Information Technology (IT) Exhibit E4.....37

I. Operations Reports.....38

- 1) Monthly Operational Report – August 2016.....40
- 2) Ocean Outfall Discharges by Agency.....47
- 3) Beach/Ocean Monitoring Report.....49
- 4) Recycled Water Report.....71
- 5) Pretreatment Report.....75

ACTION: The Board will be requested to receive and file subject reports.  
FISCAL IMPACT: None.

J. Capital Improvement Program Status Report.....78  
ACTION: The Board will be requested to receive and file subject reports.  
FISCAL IMPACT: None.

**Project Committee No. 3A**

K. Change Order – SS Mechanical Construction Contract [PC3A].....90

ACTION: The Board will be requested to approve Change Order 12 to the construction contract with SS Mechanical for the Plant 3A Miscellaneous Improvements 2015 Project.

FISCAL IMPACT: Refer to staff report.

**5. ENGINEERING MATTERS**

A. Award of Contract – Lee & Ro [PC17].....93

ACTION: The Project Committee No. 17 Board will be requested to approve the award of engineering services contract Lee & Ro at a fee of \$189,831.

FISCAL IMPACT: Refer to staff report.

**6. GENERAL MANAGER’S REPORT**

A. Biosolids Management Strategic Plan Update [PC2 & 17].....98

ACTION: The Board will be requested to review information and policy discussion of Technical Advisory Committee recommendations.

FISCAL IMPACT: Refer to staff report.

B. General Manager’s Status Report.....101

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 NOVEMBER 3, 2016

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

**Board of Directors**

**August 31, 2016**

The Regular Meeting of the South Orange County Wastewater Authority (SOCWA) Board of Directors was held on Wednesday, August 31, 2016 at 2:00 p.m. at the Administrative Offices located at 34156 Del Obispo Street, Dana Point, California. The following members of the Board of Directors were present:

SCOTT GOLDMAN, El Toro Water District	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
ANDY BRUNHART, South Coast Water District	Director
STEPHAN DOPUDJA, Trabuco Canyon Water District	Director
DAVE REBENS DORF, City of San Clemente	Alternate Director

Absent:

MIKE DUNBAR, Emerald Bay Water District	Director
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Staff present:

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

Also present:

MATT COLLINGS	Moulton Niguel Water District
FRED ADJARIAN	El Toro Water District
DENNIS ERDMAN	South Coast Water District
RICK ERKENEFF	South Coast Water District

Chairman Ferons called the meeting to order at 2:00 p.m. and welcomed everyone present. Director Dopudja requested a brief adjournment in memory of Jim Haselton, Board Director of Trabuco Canyon Water District. Director Brunhart 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.

Director Lopez requested that item 4B. Minutes of the Board of Directors Meeting June 28, 2016, be pulled from the consent calendar.

**ACTION TAKEN**

Motion was made by Director Miller and seconded by Director Cook to approve the items under the consent calendar sans item 4B. Minutes of the Board of Directors Meeting June 28, 2016. Director Brunhart noted for the record that he was abstaining from Consent Calendar items 4A. Minutes of Board of Directors Meeting August 4, 2016, and 4C. Minutes of Engineering Committee June 9, 2016.

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

Chairman Ferons	Aye
Director Goldman	Aye
Director Miller	Aye
Director Lopez	Aye
Director Cook	Aye
Vice Chairman Iseman	Aye
Director Dunbar	Absent
Director Brunhart	Aye
Director Dopudja	Aye
Director Rebensdorf	Aye

**4B. Minutes of the Board of Directors Meeting June 28, 2016**

For the record, Director Lopez stated that MNWD would reiterate prior to the approval of the Minutes for the June 28, 2016 Meeting, that MNWD had stated at that meeting its position as to the Operating and Capital Budgets.

**ACTION TAKEN**

Motion was made by Director Brunhart and seconded by Director Goldman to approve item 4B. Minutes of the Board of Directors Meeting June 28, 2016.

Motion carried:           Aye 8; Nay 1; Abstain 0; Absent 1

Chairman Ferons	Aye
Director Goldman	Aye
Director Miller	Aye
Director Lopez	Nay
Director Cook	Aye
Vice Chairman Iseman	Aye
Director Dunbar	Absent
Director Brunhart	Aye
Director Dopudja	Aye
Director Rebensdorf	Aye

**Engineering Matters**

**Award of Contract – V&A Consulting Engineers – PC15**

**ACTION TAKEN**

Motion was made by Director Brunhart and seconded by Director Iseman to approve the award of engineering services contract to V&A Consulting at a fee of \$83,893.

Motion carried:           Aye 3; Nay 0; Abstain 0; Absent 1

Director Lopez	Aye
Vice Chairman Iseman	Aye
Director Dunbar	Absent
Director Brunhart	Aye

**Award of Contract – V&A Consulting Engineers – PC17**

**ACTION TAKEN**

Motion was made by Director Lopez and seconded by Director Iseman to the award of engineering services contract to V&A Consulting at a fee of \$118,517.

Motion carried:           Aye 4; Nay 0; Abstain 0; Absent 1

Director Goldman	Aye
Director Lopez	Aye
Vice Chairman Iseman	Aye
Director Dunbar	Absent
Director Brunhart	Aye

**Award of Contract – Pacific Hydrotech – PC17**

**ACTION TAKEN**

Motion was made by Director Goldman and seconded by Director Lopez to award the construction contract to Pacific Hydrotech at a price of \$1,451,200.

Motion carried:           Aye 4; Nay 0; Abstain 0; Absent 1

Director Goldman	Aye
Director Lopez	Aye
Vice Chairman Iseman	Aye
Director Dunbar	Absent
Director Brunhart	Aye

**General Manager's Status Report**

**Letter of Support for Arundo Eradication Project**

**ACTION TAKEN**

There being no objection Chairman Ferons directed that the letter of support for the Arundo Eradication Project be received and filed.

**Employee Suggestion Award Program**

**ACTION TAKEN**

Motion was made by Director Lopez and seconded by Director Cook to approve the maximum award amount of \$1,000 in accordance with the Employee Suggestion Award Program.

Motion carried:	Aye 9; Nay 0; Abstain 0; Absent 1
Chairman Ferons	Aye
Director Goldman	Aye
Director Miller	Aye
Director Lopez	Aye
Director Cook	Aye
Vice Chairman Iseman	Aye
Director Dunbar	Absent
Director Brunhart	Aye
Director Dopudja	Aye
Director Rebensdorf	Aye

**SOCWA's Management Discussion and Analysis of FY2015-16**

**ACTION TAKEN**

There being no objection Chairman Ferons directed that the Analysis of FY2015-16 O&M and Capital Expenditures report be received and filed.

**Selection of Real Estate Valuation Firm**

Comment for the record was provided by Director Lopez as to the source of funding for the Real Estate Valuation being out of the Administration Budget for SOCWA, specifically that MNWD would not have approved the funding for this item.

**ACTION TAKEN**

There being no objection Chairman Ferons directed that the Selection of Real Estate Valuation Firm report be received and filed.

**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.

The Chairman adjourned the Board meeting for a five (5) minute recess at 2:40 p.m.

The Board meeting reconvened at 2:45 p.m. and went into closed session at 2:45 p.m.

**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.

The Board meeting reconvened at 3:11 p.m.

**Report Out of Closed Session**

Chairman Ferons reported that there were no reportable actions for Closed Session.

**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 3:12 p.m.

I HEREBY CERTIFY that the foregoing Minutes are a true and accurate copy of the Minutes of the Special Meeting of the South Orange County Wastewater Authority Board of Directors of August 31, 2016, and approved by the Board of Directors of the South Orange County Wastewater Authority.

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



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

August 31, 2016

<b><u>DESCRIPTION</u></b>	<b><u>MOTION MADE BY</u></b>	<b><u>ACTION</u></b>
Consent Calendar	Miller	Approved
Award of Contract – PC15 V&A Consulting Engineers	Brunhart	Approved
Award of Contract – PC17 V&A Consulting Engineers	Lopez	Approved
Award of Contract – PC17 Pacific Hydrotech	Goldman	Approved
Employee Suggestion Award Program	Lopez	Approved

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

**Board of Directors**

**September 1, 2016**

The Regular Meeting of the South Orange County Wastewater Authority (SOCWA) Board of Directors was held on Thursday, September 1, 2016 at 8:30 a.m. at the Dana Point Inn located at 24800 Dana Point Harbor Drive, Dana Point, California. The following members of the Board of Directors were present:

FRED ADJARIAN, El Toro Water District	Alternate Director
RAY MILLER, City of San Juan Capistrano	Director
JOONE LOPEZ, Moulton Niguel Water District	Director
DOUG REINHART, Irvine Ranch Water District	Director
TONI ISEMAN, City of Laguna Beach	Vice Chairman
DAN FERONS, Santa Margarita Water District	Chairman
ANDY BRUNHART, South Coast Water District	Director
STEPHAN DOPUDJA, Trabuco Canyon Water District	Director
DAVE REBENS DORF, City of San Clemente	Alternate Director

Absent:

MIKE DUNBAR, Emerald Bay Water District	Director
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Staff present:

BETTY BURNETT	General Manager/Secretary
PAT GIANNONE	Bowie, Arneson, Wiles & Giannone
BRIAN PECK	Director of Engineering
JIM BURROR	Director of Operations
JEANETTE COTINOLA	Procurement/Contracts Administrator [exit 2:30 p.m.]
TERI NOSON	Executive Assistant/Assistant Secretary

Also present:

MICHELE TAMAYO	Tamayo Group, Inc.
DENNIS ERDMAN	South Coast Water District
RICK ERKENEFF	South Coast Water District
RICHARD GARDNER	Public Citizen

Chairman Ferons called the meeting to order at 8:37 a.m. and welcomed everyone present.

**Public 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.

Mr. Gardner provided brief comments regarding the process and potential outcome of the proposed change in voting process.

**ACTION TAKEN**

No action required.

**SOCWA Joint Powers Authority Agreement**

Ms. Tamayo provided brief opening statements regarding the meeting process and goals. An open discussion continued through the Board meeting.

The Chairman adjourned the Board meeting for a brief recess at 10:05 a.m.

The Board meeting reconvened at 10:35 a.m.

Ms. Tamayo continued the meeting process and an open discussion ensued.

The Board members agreed that the proposed outline presented by Director Dopudja merited further consideration. Therefore, the Directors will each bring the outlined proposal back to their prospective Boards with the noted questions. This approach will be done in conjunction with a six (6) month consideration period. A SOCWA Board meeting will be scheduled at the end of October to allow the Board to review the responses from each member agency Board.

**Service Proposal Evaluation of Administration Expense Allocation**

**ACTION TAKEN**

There being no objection Chairman Ferons directed that this item be tabled for later review.

The Chairman adjourned the Board meeting for a brief recess at 11:30 a.m.

The Board meeting reconvened at 11:40 a.m. and went into closed session at 11:41 a.m.

**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.

The Board meeting reconvened at 12:26 a.m.

**Report Out of Closed Session**

Chairman Ferons reported that there were no reportable actions for Closed Session.

**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 12:27 p.m.

I HEREBY CERTIFY that the foregoing Minutes are a true and accurate copy of the Minutes of the Special Meeting of the South Orange County Wastewater Authority Board of Directors of September 1, 2016, and approved by the Board of Directors of the South Orange County Wastewater Authority.

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

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

**Engineering Committee**

**July 14, 2016**

The Regular Meeting of the South Orange County Wastewater Authority (SOCWA) Board of Directors was held on Thursday, July 14, 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
RICK SHINTAKU	South Coast Water District
MIKE MARQUIS	City of San Juan Capistrano
DENNIS CAFFERTY	El Toro Water District
DON BUNTS	Santa Margarita Water District
MICHAEL DUNBAR	Emerald Bay Service District

Absent:

KEVIN BURTON	Irvine Ranch Water District
DAVE REBENS DORF	City of San Clemente
HECTOR RUIZ	Trabuco Canyon Water District
DAVID SHISSLER	City of Laguna Beach

Staff present:

BRIAN PECK	Director of Engineering
CHUCK WINSOR	Engineering Consultant
JIM BURROR	Director of Operations

Also Present:

DENNIS ERDMAN	South Coast Water District
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Mr. Peck called the meeting to order at 8:32 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.

**Review/Approval of Meeting Minutes**

**ACTION TAKEN**

Motion was made by Mr. Bunts and seconded by Mr. Cafferty to approve the June 9, 2016, Engineering Committee Meeting minutes as submitted.

Motion carried:	Aye 4; Nay 0; Abstain 2; Absent 4
	Marc Serna                      Aye
	Rick Shintaku                 Abstain
	Michael Dunbar               Abstain
	David Shissler                Absent
	Mike Marquis                 Aye
	Dennis Cafferty               Aye
	Don Bunts                      Aye
	Kevin Burton                 Absent
	Dave Rebensdorf             Absent
	Hector Ruiz                    Absent

**Operations Report**

DISCUSSION

Mr. Burror presented the Operations Report.

ACTION TAKEN

No action necessary at this time.

**J.B. Latham Treatment Plant Facility Improvements Packages A/C Construction Project Update [PC 2]**

DISCUSSION

Mr. Peck noted that the J. B. Latham Treatment Plant Facilities Improvement Packages A/C construction project remains on schedule for completion in October. Mr. Peck noted that there were no new change orders to present for the Gateway Pacific contract.

Mr. Peck presented a contract amendment request from HDR Engineering for changes to their construction services contract. The total amendment request is for \$132,978. The letter request notes that the majority of this request is based on increased review of shop drawings. Gateway Pacific has submitted 219 shop drawings; the HDR Engineering construction services contract is based on 105 shop drawings. Mr. Peck indicated that he believes that increased hours and fee noted by HDR are merited. However, Mr. Peck also indicated that HDR had not adequately defined the rationale for the amendment. SOCWA staff will work with HDR to more accurately describe the added scope of work.

ACTION TAKEN

SOCWA staff is to work with HDR Engineering to refine the contract amendment request for presentation at the August Engineering Committee meeting.

**Plant 3A Primary Treatment Upgrade Construction Project Review [PC 3A]**

DISCUSSION

Mr. Peck noted that the work had been completed in Primary Sedimentation Basins No. 1 and No.2; work has shifted to Basins No.3 and No.4. The project is on track for an August, 2016 completion. Mr. Peck indicated that there were no new change orders to present for the project.

ACTION TAKEN

No action necessary at this time.

**Regional Treatment Plant Switchgear and Cogeneration Upgrade Project Update [PC 17]**

DISCUSSION

Mr. Peck stated that the revised drawing for the modified utility service had been received from Southern California Edison (SCE). Pacific Hydrotech, Carollo Engineers and Butier Engineering are currently reviewing; however, there do not appear to be any unexpected requirements. Mr. Peck indicated that there were no new change orders to present for the project.

ACTION TAKEN

No action to be taken at this time.

**Regional Treatment Plant AWT No. 2 Upgrade Design Request for Proposals Review [PC 17]**

DISCUSSION

Mr. Peck presented the draft Request for Proposals (RFP) for the final design of the AWT No.2 Filter Upgrade at the Regional Treatment Plant (RTP). This is a Project Committee (PC) 17 Liquids item; therefore, Mr. Peck noted that the Moulton Niguel Water District (MNWD) was the only involved Engineering Committee member. Mr. Peck also presented the list of

intended recipients of the RFP. Mr. Peck asked to receive comments on the draft RFP by July 29, 2016.

**ACTION TAKEN**

No action necessary at this time. SOCWA staff will revise and distribute the RFP after receiving member agency comments.

**Coastal Treatment Plant Miscellaneous Improvements 2015 Project Update [PC 17]**

**DISCUSSION**

Mr. Peck stated that the concrete containment area for the new sodium hypochlorite system had been completed. The contractor Pascal & Ludwig is currently working on the shade over the pumping and panel area. The project appears on track for completion in December, 2016. Mr. Peck indicated that there were no new change orders to present for the project.

**ACTION TAKEN**

No action taken at this time.

**Coastal Treatment Plant Export Sludge System Project Update [PC15]**

**DISCUSSION**

Mr. Peck reported that SOCWA staff and Dudek had met with OC Parks. The meeting was productive and addressed both mitigation and road access issues. Dudek is working on the County of Orange Encroachment permit.

**ACTION TAKEN**

No action necessary at this time.

**Adjournment**

There being no further business, Mr. Peck adjourned the meeting at 8:54 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 July 14, 2016 and approved by the Board of Directors of the South Orange County Wastewater Authority.

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

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

**Engineering Committee**

**August 11, 2016**

The Regular Meeting of the South Orange County Wastewater Authority (SOCWA) Engineering Committee was held on Thursday, August 11, 2016, at 8:30 a.m. at their Administrative Offices located at 34156 Del Obispo Street, Dana Point, California. The following members of the Directors were present:

DENNIS CAFFERTY	El Toro Water District
MARC SERNA	Moulton Niguel Water District
DAVE REBENS DORF	City of San Clemente
MIKE MARQUIS	City of San Juan Capistrano
RICK SHINTAKU	South Coast Water District
DAVID SHISSLER	City of Laguna Beach

Absent:

MICHAEL DUNBAR	Emerald Bay Service District
KEVIN BURTON	Irvine Ranch Water District
DON BUNTS	Santa Margarita Water District
HECTOR RUIZ	Trabuco Canyon Water District

Staff present:

BRIAN PECK	Director of Engineering
RONI YOUNG-GRANT	Associate Engineer
CHUCK WINSOR	Engineering Consultant
JIM BURROR	Director of Operations

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 – July 14, 2016**

**ACTION TAKEN**

This item was tabled to the September 8, 2016, Engineering Committee.

**Operations Report**

**DISCUSSION**

Mr. Burror noted that both the biosolids management strategic plan rough draft and the received biosolids management proposals (addressing future contract expirations) had been distributed to the Engineering Committee members. Mr. Burror indicated that a separate Technical Advisory Committee Meeting would be convened to review these items.

**ACTION TAKEN**

No action necessary at this time.

**Capital Project Status Update**

**DISCUSSION**

Mr. Peck made a presentation on the status of existing SOCWA capital projects/

**ACTION TAKEN**

No action necessary at this time.

**San Juan Creek Ocean Outfall Junction Structure Upgrade Status Report [PC2]**

DISCUSSION

Mr. Peck reviewed the status of the Junction Structure Upgrade project. Mr. Peck noted that the project was on hold while the issues with the State Lands Commission were explored.

ACTION TAKEN

No action necessary at this time.

**Plant 3A Primary Treatment Upgrade Construction Project Review [PC3A]**

DISCUSSION

Mr. Peck noted that S.S. Mechanical is currently working in Primary Sedimentation Basins No.3 and No.4.

Mr. Peck presented two change orders to the S.S. Mechanical contract. Change Order No. 10 involved a deduct for rehabilitation work on the launders in Primary Sedimentation Basins No.3 and No 4. Based on the condition of the launders it had been determined to defer this work until a separate project during which the launders would be replaced. The deduct price of Change Order No.10 is \$45,850.00.

Change Order No. 11 involved removal and replacement of a drain line and the removal/reinstallation of access covers. Removal and replacement of a 4" CIP drain line with 4" PVC pipe and fittings was necessary due to the corroded condition of the pipeline. Removal and replacement of Odor Control Tower access covers was request to allow inspection by Santa Margarita Water District (SMWD) staff. The cost of Change Order No.11 is \$7,360.00.

Mr. Peck noted that the change orders had been reviewed and recommended by SMWD staff.

ACTION TAKEN

The present Project Committee No. 3A members recommended Change Orders 10 and 11 to the construction contact with S.S. Mechanical for the Plant 3A Miscellaneous Improvements 2015 Project for action by the Board of Directors.

**J.B. Latham Treatment Plant Facility Improvements Packages A/C Construction Project Review [PC2]**

DISCUSSION

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

Mr. Peck presented one change order to the Gateway Pacific contract. Change Order No. 32 involved the addition of an overhead HVAC duct for the new cogeneration engine. The addition of this ducting was confirmed after the engine supplier indicated that there was insufficient cooling for the new engine. The cost of Change Order No.32 is \$47,775.26. Discussion ensued regarding the high price of this change order and the culpability of the design engineer. Mr. Peck indicated that the overall change orders due to error and omission was well below 1% of the original contract value; therefore, this is deemed to be a successful design at this point in the construction project. Mr. Peck indicated that he would provide more information at the September Engineering Committee meeting.

Discussion ensued regarding the HDR request for additional funds for construction services. Mr. Peck indicated that he would work with HDR to provide a more detailed request.

ACTION TAKEN

The present Project Committee No. 2 members recommended Change Order 32 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.



**Regional Treatment Plant Switchgear and Cogeneration Upgrade Project Update [PC17]**

**DISCUSSION**

Mr. Peck presented two change orders to the Pacific Hydrotech contract. Change Order No. 4 involved a change in the entrance door size at the Energy Building. The enlargement is necessary to accommodate the size of the proposed switchgear. The cost of Change Order No.4 is \$4,425.60.

Change Order No. 5 involved lowering of the electric cable tray in the Energy Building. Lowering the tray was necessary to prevent possible conflict with the movement of equipment with the overhead crane. The cost of Change Order No.5 is \$1,863.79.

**ACTION TAKEN**

The present Project Committee No. 17 members recommended Change Orders 4 and 5 to the construction contact with Pacific Hydrotech for the Regional Treatment Plant Switchgear and Cogeneration Upgrade Project for action by the Board of Directors.

**Regional Treatment Plant Miscellaneous Improvements 2016 Bid Review [PC17]**

**DISCUSSION**

Mr. Peck reviewed the scope and the bid process for the Regional Treatment Plant Miscellaneous Improvements Project. Mr. Peck indicated that two bids had been received from Gateway Pacific and Pacific Hydrotech. S.S. Mechanical is still in the process of working out its bonding conditions; the remaining general contractors indicated that they did not have the resources to pursue the project. Mr. Peck noted that Pacific Hydrotech bid was approximately \$500,000 less than the Gateway Pacific bid. Pacific Hydrotech will already be mobilized on the Regional Plant site for the Cogeneration project through July, 2017.

**ACTION TAKEN**

The Engineering Committee recommended the award of contract to Pacific Hydrotech at a price of \$1,451,200 and the proposed budget shift of \$335,000 from the completed Sodium Hypochlorite Upgrade Project to the Influent Sewer Manhole Repair project.

**Regional Treatment Plant Condition Assessment 2016/17 Proposal Review [PC17]**

**DISCUSSION**

Mr. Winsor discussed scope of the condition assessment and the RFP process. Mr. Winsor noted that a single proposal had been received from V & A Consultants. Discussion ensued regarding the proposal and the work.

**ACTION TAKEN**

The Engineering Committee recommended the award of contract to V & A Consultants at a fee of \$118,517.00.

**Coastal Treatment Plant Condition Assessment 2016/17 Proposal Review [PC15]**

**DISCUSSION**

Mr. Winsor discussed scope of the condition assessment and the RFP process. Mr. Winsor noted that proposals were received from HDR Engineering and V & A Consultants. Discussion ensued regarding the proposals and the work. The Engineering Committee felt that the estimate of effort identified by V & A Consultants was more consistent with the scope of work.

**ACTION TAKEN**

The Engineering Committee recommended the award of contract to V & A Consultants at a fee of \$83,893.00.

**Adjournment**

There being no further business, Mr. Peck adjourned the meeting at 10:12 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 August 11, 2016, and approved by the Board of Directors of the South Orange County Wastewater Authority.

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

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

**Technical Advisory Committee**

**September 14, 2016**

The Special Meeting of the South Orange County Wastewater Authority (SOCWA) Technical Advisory Committee was held on Wednesday, September 14, 2016, at 9:00 a.m. at their Administrative Offices located at 34156 Del Obispo Street, Dana Point, California. The following members of the Directors were present:

HECTOR RUIZ	Trabuco Canyon Water District
ERIC BAUMAN	City of San Juan Capistrano
DAVE REBENS DORF	City of San Clemente
JOSE ZEPEDA	Irvine Ranch Water District
RICK SHINTAKU	South Coast Water District
MIKE DUNBAR	Emerald Bay Services District
DON BUNTS	Santa Margarita Water District
DENNIS CAFFERTY	El Toro Water District
DAVID SHISSLER	City of Laguna Beach

Staff present:

BETTY BURNETT	General Manager
JIM BURROR	Director of Operations

Mr. Burror called the meeting to order at 9:09 a.m. and welcomed everyone present.

**Public Comments**

No comments were received.

**Review/Approval of Minutes for July 15, 2014 and August 14, 2014**

**ACTION TAKEN**

Motion was made by Mr. Rebensdorf and seconded by Mr. Bauman to approve the Technical Advisory Committee minutes for July 15, 2014, and August 14, 2014.

Motion carried:           Aye 8; Nay 0; Abstain 1; Absent 0

Hector Ruiz	Aye
Eric Bauman	Aye
Dave Rebensdorf	Aye
Jose Zepeda	Aye
Rick Shintaku	Aye
Mike Dunbar	Aye
Don Bunts	Abstain
Dennis Cafferty	Aye
David Shissler	Aye

**Review Proposals Resulting from Request for Proposal 16-001 Open Options (On & Offsite) Biosolids Management Services and 2016 Biosolids Management Strategic Plan Workshop**

The consensus of the Committee's Workshop discussion was to provide the staff with the following direction for inclusion in a Biosolids Management Strategic Plan update for the SOCWA Board of Directors:

A. Update the policy guidance for staff as recommended below:

From the following:

- i. SOCWA maintains control over its Biosolids program.
- ii. Continue to seek both reuse and disposal within the County.
- iii. Limit increased impacts to the neighbors surrounding the treatment plants.
- iv. Adhere to environmentally sound practices.
- v. Equally consider long term economic responsibilities to the rate payers.
- vi. Update Plan every 2 years.

To the following:

- i. SOCWA maintains control over its Biosolids program.
- ii. Continue to monitor Biosolids management options through our affiliates (SCAP and CASA) within the local region. This includes financial and regulatory vulnerabilities to existing Biosolids management options.
- iii. Limit increased impacts to the neighbors surrounding the treatment plants.
- iv. Adhere to environmentally sound practices and equally consider long-term economic responsibilities to the ratepayers.
- v. Update the Plan every 5 years, when events occur that require the Plan to be updated to stay relevant, or one (1) year prior to the issuance of a new major Biosolids Request for Proposals.
- vi. Biosolids management planning should include contingency planning to minimize impacts to SOCWA from sudden changes in the Biosolids market.

This updated policy guidance also included some recommended implementation measures to be employed by SOCWA staff when implementing these policy statements including the following:

- a. SOCWA facilities planning for onsite driers, and other onsite technologies, will be conducted within the facilities planning documents to allow for the full impact of locating onsite technologies at the constrained treatment plant sites to be developed and assessed. The Biosolids Management Strategic Plans will then focus on residuals management.
- b. The long-range facilities plans should include capital improvements to allow SOCWA to produce Class B Biosolids instead of Sub-Class B by increasing Digester capacities. This will better position SOCWA for potential changes in Biosolids markets.
- c. SOCWA will maintain at least three (3) management options for each treatment plant.
- d. SOCWA will continue to meld the overall Biosolids management costs for all the PC's This is as long as one PC is not causing additional Biosolids management costs due to facility or treatment plant constraints.
- e. Staff will contact the County of Orange to discuss how SOCWA might participate in their ongoing effort to plan for all organics (including Biosolids) to be diverted from the landfills in the near future. This includes reviewing management costs at

the landfills in light of other management options falling below the current landfill tipping fee.

- B. Provide these updates in the form of an Addendum to the 2006 Biosolids Management Strategic Plan.
- C. Retain both Nursery Products and Synagro (Arizona Soils) after a best and final offer is requested from each vendor. The results will be presented to the SOCWA Board of Directors for award of contracts to both vendors.

**Adjournment**

There being no further business, Mr. Burror adjourned the meeting at 10:47 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 Technical Advisory Committee of September 14, 2016, and approved and ratified by the Board of Directors of the South Orange County Wastewater Authority.

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

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

**Technical Advisory Committee**

**August 14, 2014**

The Special Meeting of the South Orange County Wastewater Authority (SOCWA) Technical Advisory Committee was held on Thursday, August 14, 2014 at 10:02 a.m. at their Administrative Offices located at 34156 Del Obispo Street, Dana Point, California. The following members of the Technical Advisory Committee were present:

MATT COLLINGS	Moulton Niguel Water District
KRIS HANBERG	Trabuco Canyon Water District
ZIAD MAZBOUDI	City of San Juan Capistrano
DAVE REBENDS DORF	City of San Clemente
RANDY LEE	Irvine Ranch Water District
MARISSA POTTER	South Coast Water District
DON BUNTS	Santa Margarita Water District
DAVID SHISSLER	City of Laguna Beach

Absent:

MIKE DUNBAR	Emerald Bay Services District
MARK PAGE	El Toro Water District

Staff present:

JIM BURROR	Director of Operations
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Public Present:

RUS MILLER	ANERGIA
DAVID SCHNEIDER	ANERGIA

Mr. Burror called the meeting to order at 9:00 a.m. and welcomed everyone present.

**Public Comments**

There were no public comments.

**Review RFP 14-005 Service and Maintenance of Odor Control and Emergency Chlorine Vapor Scrubber System Proposal**

Mr. Burror presented the results from the recent Service and Maintenance of Odor Control and Emergency Chlorine Vapor Scrubber System Request for Proposals. The Committee reviewed the proposal results.

**ACTIONS TAKEN**

A motion was made by Ms. Potter and seconded by Mr. Mazboudi to recommend approval of a contract with Integrity Municipal Services, Inc. for service and maintenance of odor control and emergency chlorine vapor scrubber systems for two (2) years with up to 3 annual optional renewals.

Motion carried:	Aye 8; Nay 0; Abstain 0; Absent 0
	Matt Collings           Aye
	Kris Hanberg           Aye
	Ziad Mazboudi        Aye
	Dave Rebensdorf     Aye
	Randy Lee            Aye
	Marissa Potter        Aye
	Don Bunts            Aye
	David Shissler        Aye

The cost structure is as follows:

SOCWA Facilities

<b>Unit / Services</b>	<b>Labor \$</b>	<b>Cost per</b>	<b>Material Costs</b>	<b>Mark Up %</b>
LO/PRO® multi-stage Odor Control Systems				
Monthly Service (calibration and reporting)(a)	\$525	Per Unit	Direct Costs plus Mark Up	20%
Acid Wash (Calibration, Internal Inspection, and reporting)(a)	\$800	Per Unit	Direct Costs plus Mark Up	20%
RJ-2000 Emergency Chlorine Vapor Scrubber System				
Monthly Service (calibration and reporting)(a)	\$350	Per Unit	Direct Costs plus Mark Up	20%
Acid Wash (Calibration, Internal Inspection, and reporting)(a)	\$6,800	Per Unit	Direct Costs plus Mark Up	20%
Emergency Call for services on any unit	\$85	Per Hr	Direct Costs plus Mark Up	20%
Major Repairs (Non-Standard Services) on any unit	\$85	Per Hr	Direct Costs plus Mark Up	20%

Santa Margarita Water District Facilities

<b>Unit / Services</b>	<b>Labor \$</b>	<b>Cost per</b>	<b>Material Costs</b>	<b>Mark Up %</b>
Western Technology Associates (IPS, Inc.) Horizontal Flow Packed Media Scrubbers				
Monthly Service (calibration and reporting)(a)	\$525	Per Unit	Direct Costs plus Mark Up	20%
Acid Wash (Calibration, Internal Inspection, and reporting)(a)	\$800	Per Unit	Direct Costs plus Mark Up	20%
Western Technology Associates (IPS, Inc.) Horizontal Flow Packed Media Scrubbers				
Monthly Service (calibration and reporting)(a)	\$525	Per Unit	Direct Costs plus Mark Up	20%
Acid Wash (Calibration, Internal Inspection, and reporting)(a)	\$800	Per Unit	Direct Costs plus Mark Up	20%
Emergency Call for services on any unit	\$85	Per Hr	Direct Costs plus Mark Up	20%
Major Repairs (Non-Standard Services) on any unit	\$85	Per Hr	Direct Costs plus Mark Up	20%

City San Clemente Facilities

<b>Unit / Services</b>	<b>Labor \$</b>	<b>Cost per</b>	<b>Material Costs</b>	<b>Mark Up %</b>
Wet Packed Tower Vertical Flow Packed Media Scrubbers				

Monthly Service (calibration and reporting)(a)	\$525	Per Unit	Direct Costs plus Mark Up	20%
Acid Wash (Calibration, Internal Inspection, and reporting)(a)	\$800	Per Unit	Direct Costs plus Mark Up	20%
Emergency Call for services on any unit	\$85	Per Hr	Direct Costs plus Mark Up	20%
Major Repairs (Non-Standard Services) on any unit	\$85	Per Hr	Direct Costs plus Mark Up	20%

**Anergia, Inc. Unsolicited Proposal Review**

Representatives from Anergia, Inc. gave a short presentation to the Committee on the proposed project in Rialto, California. The Committee discussed the option of SOCWA providing a Letter of Intent to participate in the project. The Committee did not agree to provide this Letter at this time. The consensus was that Anergia, Inc. could participate in the next Biosolids request for proposals issued by SOCWA.

ACTION TAKEN

None

**Adjournment**

There being no further business, Mr. Burror adjourned the meeting at 11:41 a.m.

I HEREBY CERTIFY that the foregoing Minutes are a true and accurate copy of the Minutes of the Special Meeting of the South Orange County Wastewater Authority Technical Advisory Committee on August 14, 2014, and approved and ratified by the Board of Directors of the South Orange County Wastewater Authority.

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



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

**Technical Advisory Committee**

**July 15, 2014**

The Special Meeting of the South Orange County Wastewater Authority (SOCWA) Technical Advisory Committee was held on Thursday, September 19, 2013 at 9:00 a.m. at their Administrative Offices located at 34156 Del Obispo Street, Dana Point, California. The following members of the Technical Advisory Committee were present:

MATT COLLINGS	Moulton Niguel Water District
KRIS HANBERG	Trabuco Canyon Water District
ZIAD MAZBOUDI	City of San Juan Capistrano
DAVE REBENS DORF	City of San Clemente
RANDY LEE	Irvine Ranch Water District
MARISSA POTTER	South Coast Water District

Absent:

MIKE DUNBAR	Emerald Bay Services District
DON BUNTS	Santa Margarita Water District
MARK PAGE	El Toro Water District
DAVID SHISSLER	City of Laguna Beach

Staff present:

JIM BURROR	Director of Operations
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Public Present:

RUS MILLER	ANERGIA
DAVID SCHNEIDER	ANERGIA

Mr. Burror called the meeting to order at 9:00 a.m. and welcomed everyone present.

**Public Comments**

There were no public comments.

**Review Grit and Screenings Services Bid Results**

Mr. Burror presented the results from the recent Grit and Screening Notice Inviting Bids.

**ACTIONS TAKEN**

A motion was made by Mr. Collings and seconded by Mr. Mazboudi to recommend approval of a contract with Athens Service, Inc. for hauling Grit and Screenings for two (2) years with up to three (3) annual optional renewals with the below prices; motion also includes 1) a provision in the contract that allows for a 60-day cancellation, 2) direction to staff to contact the local landfill operator again to discuss the possibility of taking these materials to the local landfill after staff retests the materials for dryness and oil and grease content, and 3) contacting the vendor to try to extend the IRWD pricing to their Michelson Water Reclamation Facility.

Motion carried: Aye 6; Nay 0; Abstain 0; Absent 4

Matt Collings	Aye
Kris Hanberg	Aye
Ziad Mazboudi	Aye
Dave Rebensdorf	Aye
Randy Lee	Aye
Marissa Potter	Aye
Mike Dunbar	Absent
Don Bunts	Absent
Mark Page	Absent
David Shissler	Absent

Pricing as follows:

Facility	Truck and Trailer	Single Run with Another Job (1)	Weekend or Holiday Surcharge	Standby Time When Documented	Cancellation Charge (4 hr max)
SOCWA Regional Treatment Plant	\$909.86	\$545.92	\$195.00	\$95.00 / hr	\$95.00 / hr
SOCWA JB Latham Treatment Plant	\$955.22	\$573.13	\$195.00	\$95.00 / hr	\$95.00 / hr
SOCWA 3A Treatment Plant	\$859.85	\$515.91	\$195.00	\$95.00 / hr	\$95.00 / hr
SOCWA Coastal Treatment Plant	\$877.46	\$526.48	\$195.00	\$95.00 / hr	\$95.00 / hr
SMWD Chiquita WRF	\$877.46	\$526.48	\$195.00	\$95.00 / hr	\$95.00 / hr
ETWD WWTP	\$841.16	\$504.70	\$195.00	\$95.00 / hr	\$95.00 / hr
IRWD LAWRP	\$977.25	\$586.35	\$195.00	\$95.00 / hr	\$95.00 / hr
CSC WRP	\$972.06	\$583.24	\$195.00	\$95.00 / hr	\$95.00 / hr

**Review 3A Biosolids Hauling Bid Results**

Mr. Burror presented the results from the recent 3A Biosolids hauling bid results Notice Inviting Bids. The Committee reviewed the bid results.

**ACTION TAKEN**

A motion was made by Mr. Collings and seconded by Mr. Mazboudi to recommend approval of a contract award to Terra Renewal for hauling 3A Biosolids to Prima Deshecha Landfill for two (2) years with up to 3 annual optional renewal with the below conditions, and a two provisions in the contract that 1) allows for a 60-day cancellation, and 2) allows for the contract to be assumed by SMWD or MNWD.

Conditions:

- Trip fee to landfill at \$550
- Standby fees when documented at \$85/hr
- Cancellation Charge at \$85/hr with a maximum of 4 hours

Motion carried:                      Aye 6; Nay 0; Abstain 0; Absent 4

Matt Collings	Aye
Kris Hanberg	Aye
Ziad Mazboudi	Aye
Dave Rebensdorf	Aye
Randy Lee	Aye
Marissa Potter	Aye
Mike Dunbar	Absent
Don Bunts	Absent
Mark Page	Absent
David Shissler	Absent

**Anergia, Inc. Presentation On Biosolids Management Option**

Representatives from Anergia, Inc. gave a short presentation to the Committee on the proposed project in Rialto, California. The Committee discussed the option of SOCWA providing a Letter of Intent to participate in the project. The Committee requested that staff agenzize this topic at the next meeting for discussion and possible action.

**ACTION TAKEN**

None

**Adjournment**

There being no further business, Mr. Burror adjourned the meeting at 10:31 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 Technical Advisory Committee on July 15, 2014, and approved and ratified by the Board of Directors of the South Orange County Wastewater Authority.

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

# Agenda Item

**Legal Counsel Review:** N/A

**Meeting Date:** October 6, 2016

**TO:** Board of Directors  
**FROM:** Betty Burnett, General Manager  
**STAFF CONTACT:** Mary Carey, Finance Controller  
**SUBJECT:** Approval of Financial Matters – July 31 and August 31, 2016

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## Summary/Discussion

The following selected financial reports are routinely provided monthly to the Board of Directors. This information is presented, including the Monthly Financial Report, to the Finance Committee and could include a request for the Board to approve recommendations of the Finance Committee. The reports included are as follows:

- a) Summary of Disbursements
  - For Month of July 2016 (Exhibit A)
  - For Month of August 2016 (Exhibit A-1)
- 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 July 2016, disbursements totaled \$1,542,151 and are summarized in the attached Exhibit A. The month of August 2016, disbursements totaled \$4,110,309 and are summarized in the attached Exhibit A1. 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 July 1, 2016 through August 31, 2016 (attached as Exhibit A and A1).
- 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)

Exhibit A

**South Orange County Wastewater Authority**  
**Summary of Disbursements for Month of July 2016**  
Staff Recommendation of Fiscal Matters

	<u>Actual</u>
*General Fund	(513,989)
PC 2 - Jay B. Latham Plant	(271,814)
PC 3 - SOCWA Plant/PC3A AWT	(412)
PC 5 - San Juan Creek Ocean Outfall	(8,796)
PC 8 - Pretreatment Proram	(5,597)
PC 12 SO - Water Reclamation Permits	(17,586)
PC 15 - Coastal Treatment Plant/AWT	(338,170)
PC 17 - Joint Regional Wastewater Reclamation	(378,703)
PC 21 - Effluent Transmission Main	0
PC 24 - Aliso Creek Ocean Outfall	(7,084)
Total	<u><u>(1,542,151)</u></u>

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

**South Orange County Wastewater Authority**  
**Summary of Disbursements for Month of August 2016**  
 Staff Recommendation of Fiscal Matters

	<u>Actual</u>
*General Fund	(900,074)
PC 2 - Jay B. Latham Plant	(1,187,892)
PC 3 - SOCWA Plant/PC3A AWT	(4,928)
PC 5 - San Juan Creek Ocean Outfall	(25,111)
PC 8 - Pretreatment Proram	(7,960)
PC 12 SO - Water Reclamation Permits	(4,141)
PC 15 - Coastal Treatment Plant/AWT	(581,513)
PC 17 - Joint Regional Wastewater Reclamation	(1,366,292)
PC 21 - Effluent Transmission Main	(519)
PC 24 - Aliso Creek Ocean Outfall	(31,879)
Total	<u><u>(4,110,309)</u></u>

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

**SOUTH ORANGE COUNTY WASTEWATER AUTHORITY  
SCHEDULE OF FUNDS AVAILABLE FOR REINVESTMENT  
as of August 31, 2016**

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CASH IN BANK: (BEGINNING BALANCE)	379,823.91
L.A.I.F. FUNDS: (BEGINNING BALANCE)	4,798,050.45
VOIDS & ADJUSTMENTS	\$0
RECEIPTS:	\$10,018,522
FUND REQUIREMENTS:	
BILLS FOR CONSIDERATION	(\$4,110,309)
<b>FUNDS AVAILABLE FOR REINVESTMENT</b>	<b>\$11,086,087</b>

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.

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**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 August 31, 2016**

	(A)	(B)	(C)	(D)	(E)		(F)	
	<b>MVA</b>	<b>A/P</b>	<b>P/R</b>	<b>Petty</b>	<b>LAIF</b>		<b>OPEB</b>	
	<b>1010</b>	<b>1020</b>	<b>1030</b>	<b>Cash</b>	<b>1040</b>	<b>Subtotal</b>	<b>Trust</b>	<b>TOTAL</b>
				<b>1000</b>			<b>1050</b>	
General Fund	\$500	\$0	\$890	\$400	\$63,193	\$64,983	\$3,473,384	\$3,538,367
PC 2 - Jay B. Latham Plant	\$500	\$99,484	\$1,500	\$400	\$4,176,617	\$4,278,502	\$0	\$4,278,502
PC 3 - SOCWA Plant/PCA AWT	\$500	\$0	\$1,500	\$0	\$791,469	\$793,469	\$0	\$793,469
PC 5 - San Juan Creek Ocean Outfally	\$500	\$0	\$1,500	\$0	\$697,455	\$699,455	\$0	\$699,455
PC 8 - Pretreatment Proram	\$500	\$0	\$1,500	\$0	\$44,030	\$46,030	\$0	\$46,030
PC 12 SO - Water Reclamation Permits	\$500	\$0	\$1,500	\$0	\$101,589	\$103,589	\$0	\$103,589
PC 15 - Coastal Treatment Plant/AWT	\$500	\$23,848	\$1,500	\$400	\$1,997,011	\$2,023,259	\$0	\$2,023,259
PC 17 - Joint Regional Wastewater Reclamation	\$15,851	\$122,276	\$1,500	\$400	\$2,108,057	\$2,248,084	\$0	\$2,248,084
PC 21 - Effluent Transmission Main	\$500	\$0	\$1,500	\$0	\$416,335	\$418,335	\$0	\$418,335
PC 24 - Aliso Creek Ocean Outfall	\$500	\$6,087	\$1,500	\$0	\$402,294	\$410,381	\$0	\$410,381
Total	\$20,351	\$251,695	\$14,390	\$1,600	\$10,798,050	\$11,086,087	\$3,473,384	\$14,559,471

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.
- (G) 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  
August 31, 2016**

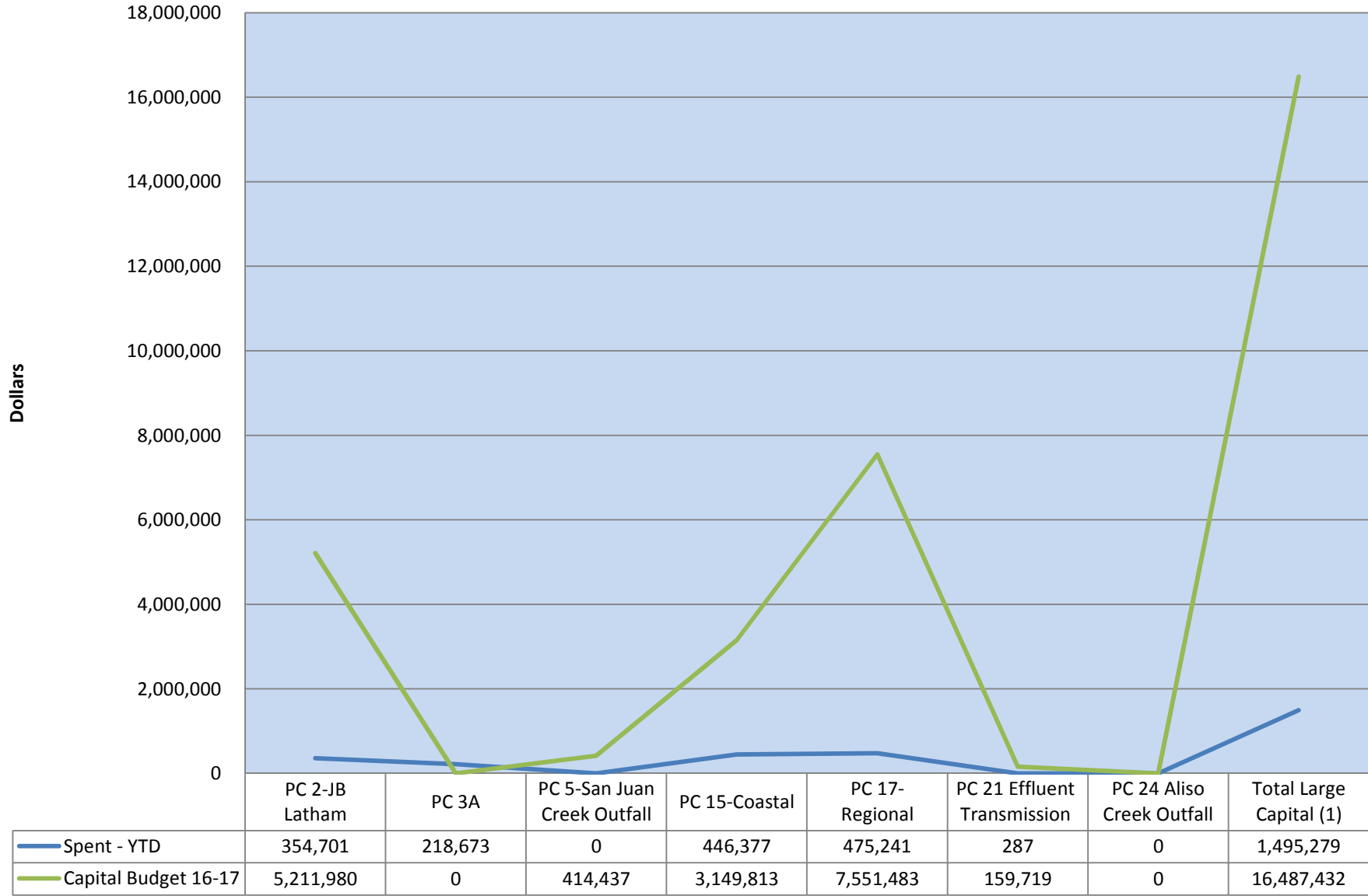
<b>Total Open Capital Projects - All Years</b>						
	<b>Projects Budget</b>	<b>Prior Years Spending</b>	<b>FY 2016-17 Spending</b>	<b>Total Spending</b>	<b>(Over)/Under Budget</b>	<b>% Expended</b>
PC 2-JB Latham	26,874,021	17,606,382	354,701	17,961,083	8,912,938	66.8%
PC 3A	2,435,854	1,697,599	218,673	1,916,272	519,582	78.7%
PC 5-San Juan Creek Outfall	325,000	142,927	0	142,927	182,073	44.0%
PC 15-Coastal	14,718,851	2,012,251	446,377	2,458,628	12,260,223	16.7%
PC 17-Regional	20,645,402	11,063,502	475,241	11,538,743	9,106,659	55.9%
PC 21 Effluent Transmission	425,000	307	287	594	424,406	0.1%
PC 24 Aliso Creek Outfall	50,000	177	0	177	49,823	0.4%
<b>Total Large Capital</b>	<b>65,474,128</b>	<b>32,523,144</b>	<b>1,495,279</b>	<b>34,018,423</b>	<b>31,455,705</b>	<b>52.0%</b>
<b>Total Capital</b>	<b>65,474,128</b>	<b>32,523,144</b>	<b>1,495,279</b>	<b>34,018,423</b>	<b>31,455,705</b>	<b>52.0%</b>

<b>FY 2016-17 Budget vs. Actual Spending</b>							
<b>Description</b>	<b>Capital Budget</b>	<b>Fiscal Year Spending</b>	<b>(Over)/Under Budget</b>	<b>% Expended</b>	<b>Member Agency Billed</b>	<b>Member Agency Collected</b>	<b>Cash on Hand</b>
PC 2-JB Latham	5,211,980	354,701	4,857,279	6.8%	3,171,962	3,171,962	3,055,967
PC 3A	0	218,673	(218,673)	0.0%	0	0	405,804
PC 5-San Juan Creek Outfall	414,437	0	414,437	0.0%	67,596	67,596	240,307
PC 15-Coastal	3,149,813	446,377	2,703,436	14.2%	432,107	355,484	430,150
PC 17-Regional	7,551,483	475,241	7,076,242	6.3%	1,815,427	1,815,427	1,457,306
PC 21 Effluent Transmission	159,719	287	159,432	0.2%	2,548	2,548	24,406
PC 24 Aliso Creek Outfall	0	0	0		0	0	24,823
<b>Total Large Capital</b>	<b>16,487,432</b>	<b>1,495,279</b>	<b>14,992,153</b>	<b>9.1%</b>	<b>5,489,640</b>	<b>5,413,017</b>	<b>5,638,763</b>
Non-Capital Engineering	891,500	0	891,500	0.0%	263,009	258,819	258,819
Small Internal Capital	1,254,100	52,603	1,201,497	4.2%	313,525	292,389	239,786
<b>Total Capital</b>	<b>18,633,032</b>	<b>1,547,882</b>	<b>17,085,150</b>	<b>8.3%</b>	<b>6,066,174</b>	<b>5,964,225</b>	<b>6,137,368</b>

Notes:

(1) Cash on Hand is as of 8/31/2016 and includes carryovers from prior fiscal years. As projects are completed, all residual Cash is refunded to the Member Agencies.

### Capital Projects FY 2016-17 Budget Vs Actual Year-to-Date Spending 08/31/2016



(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  
Year-to-Date as of August 31, 2016**

Exhibit E-1

	FY 2016-17 Orig Bdgt	Actual	(Over)/Under Budget	% Expended	
Salary and Fringe					
**5000-**-**	Regular Salaries-O&M	4,249,384	705,211	3,544,173	16.6%
**5001-**-**	Overtime Salaries-O&M	79,080	23,924	55,156	30.3%
**5306-**-**	Scheduled Holiday Work	50,700	1,489	49,211	2.9%
**5401-**-**	Fringe Benefits IN to PC's & Depts.	3,017,080	501,874	2,515,206	16.6%
**5700-**-**	Standby Pay	137,588	13,000	124,588	9.4%
	Total Payroll Costs	7,533,832	1,245,498	6,288,334	16.5%

Other Expenses

**5002-**-**	Electricity	1,809,012	192,453	1,616,559	10.6%	(2)
**5003-**-**	Natural Gas	167,304	17,811	149,493	10.6%	
**5004-**-**	Potable & Reclaimed Water	59,208	7,528	51,680	12.7%	(9)
**5005-**-**	Co-generation Power Credit	(450,004)	(73,589)	(376,415)	16.4%	
**5006-**-**	Chlorine/Sodium Hypochlorite	542,404	83,524	458,880	15.4%	(14)
**5007-**-**	Polymer Products	646,504	57,594	588,910	8.9%	
**5008-**-**	Ferric Chloride	251,800	28,451	223,349	11.3%	
**5009-**-**	Odor Control Chemicals	167,404	24,474	142,930	14.6%	
**5010-**-**	Other Chemicals - Misc.	5,000	0	5,000	0.0%	
**5011-**-**	Laboratory Services	35,700	7,165	28,535	20.1%	
**5012-**-**	Grit Hauling - 21A	113,200	12,737	100,463	11.3%	
**5013-**-**	Landscaping	160,000	38,618	121,382	24.1%	
**5014-**-**	Engineering - Misc.	335,000	11,504	323,496	3.4%	
**5015-**-**	Management Support Services	294,024	8,850	285,174	3.0%	(10)
**5016-**-**	Audit - Environmental	500	0	500	0.0%	
**5017-**-**	Legal Fees	88,004	468	87,536	0.5%	
**5018-**-**	Public Notices/ Public Relations	500	0	500	0.0%	
**5019-**-**	Contract Services Misc. - 29	270,408	28,991	241,417	10.7%	
**5021-**-**	Small Vehicle Expense - 31A	19,444	3,339	16,105	17.2%	(15)
**5022-**-**	Miscellaneous Expense	16,804	1,368	15,436	8.1%	
**5023-**-**	Office Supplies - All	33,604	8,457	25,147	25.2%	
**5024-**-**	Petroleum Products	58,400	4,023	54,377	6.9%	
**5025-**-**	Uniforms	34,408	7,938	26,470	23.1%	(3)
**5026-**-**	Small Vehicle Fuel - 37A	33,704	2,509	31,195	7.4%	
**5027-**-**	Insurance - Property/Liability	110,188	35,714	74,474	32.4%	
**5028-**-**	Small Tools & Supplies	63,128	12,041	51,087	19.1%	(11)
**5030-**-**	Trash Disposal	4,808	658	4,150	13.7%	(11)
**5031-**-**	Safety Supplies	91,500	29,405	62,095	32.1%	(4)
**5032-**-**	Equipment Rental	7,204	0	7,204	0.0%	
15-5033-01-00-00	Recruitment	0	200	(200)	0.0%	
**5034-**-**	Travel Expense/Tech. Conferences	40,016	1,173	38,843	2.9%	
**5035-**-**	Training Expense	62,496	3,930	58,566	6.3%	
**5036-**-**	Laboratory Supplies	75,508	12,269	63,239	16.2%	
**5037-**-**	Office Equipment	21,404	425	20,979	2.0%	
**5038-**-**	Permits	488,020	17,343	470,677	3.6%	(5)
**5039-**-**	Membership Dues/Fees	12,012	2,360	9,652	19.6%	
**5040-**-**	Natural Gas - 11-EPS - PC 5	396	0	396	0.0%	
**5041-**-**	Electricity - 10-EPS - PC 5	31,500	0	31,500	0.0%	
**5042-**-**	Contract Services - 29-EPS - PC 5	4,104	0	4,104	0.0%	
**5044-**-**	Offshore Monitoring - 20A	40,008	4,214	35,794	10.5%	
**5045-**-**	Offshore Biochemistry - 20B	0	11	(11)	0.0%	
**5046-**-**	Effluent Chemistry - 20C	52,004	5,716	46,288	11.0%	
**5047-**-**	Access Road Expenses	45,400	0	45,400	0.0%	
**5048-**-**	Storm Damage	18,600	0	18,600	0.0%	
**5049-**-**	Biosolids Disposal - 21B	1,524,604	170,642	1,353,962	11.2%	
**5050-**-**	Contract Services Generators - 29A	19,704	0	19,704	0.0%	
**5052-**-**	Janitorial Services	50,008	5,748	44,260	11.5%	
**5053-**-**	Contract Serv - Digester Cleaning - 29E	0	2,999	(2,999)	0.0%	
**5054-**-**	Diesel Truck Maint - 31B	29,512	12,185	17,327	41.3%	(6)
**5055-**-**	Diesel Truck Fuel - 37B	12,200	884	11,316	7.2%	
**5056-**-**	Maintenance Equip. & Facilities (Solids) 41-A	311,500	67,726	243,774	21.7%	(7)
**5057-**-**	Maintenance Equip. & Facilities (Liquids) 41-B	530,400	130,677	399,723	24.6%	(12)
**5058-**-**	Maintenance Equip. & Facilities (Common) 41-C	60,300	29,559	30,741	49.0%	(8)

### South Orange County Wastewater Authority O & M & Environmental Safety Costs Summary Year-to-Date as of August 31, 2016

	FY 2016-17 Orig Bdgt	Actual	(Over)/Under Budget	% Expended	
**-5059-**-**	Maintenance Equip. & Facilities (Co-Gen) 41-D	158,500	21,203	137,297	13.4%
**-5060-**-**	Maintenance Equip. & Facilities (AWT) 41-E	57,600	13,479	44,121	23.4%
**-5061-**-**	Mileage	4,952	452	4,500	9.1%
**-5067-**-**	Port Cleaning	0	0	0	0.0%
**-5068-**-**	MNWD Potable Water Supplies & Svcs.	23,996	4,993	19,003	20.8%
**-5069-**-**	Misc-Capital-Dilution & Metering Study	65,004	0	65,004	0.0%
**-5077-**-**	IT Direct	150,004	0	150,004	0.0%
17-5101-01-00-00	Employee Recognition	0	275	(275)	0.0%
**-5105-**-**	Co-Generation Power Credit - Offset	450,004	73,589	376,415	16.4%
17-5302-01-03-00	Bonus	0	2,600	(2,600)	0.0%
**-5303-**-**	Group Insurance Waiver	0	1,397	(1,397)	0.0%
**-5305-**-**	Medicare Tax Payments for Employees	0	2,520	(2,520)	0.0%
**-5309-**-**	Operating Leases	7,004	420	6,584	6.0%
**-5705-**-**	Monthly Car Allowance	37,320	6,460	30,860	17.3%
**-5802-**-**	Shipping/Freight	0	77	(77)	0.0%
02-6309-01-00-00	Operating Leases	0	420	(420)	0.0%
**-6500-**-**	IT Allocations in to PC's & Depts.	577,252	75,316	501,936	13.0%
	Total Other Expenses	9,930,492	1,223,292	8,707,200	12.3%
	Total Expenses	<b>17,464,324</b>	<b>2,468,790</b>	<b>14,995,534</b>	<b>14.1%</b>

(13)

- (1) New Equipment Startup and Troubleshooting Issues, elevated level of odor complaints and see below too
- (2) Engines off - Electricity usage will drop significantly after engine project is completed in December.
- (3) New employee equipment purchases.
- (4) Employee boots and online training for the year is completed and expenses will be lower for the remainder of the year
- (5) Many permits are paid for at the beginning of the fiscal year. Expenses will be minimal for the rest of the year.
- (6) Completed annual services and repairs.
- (7) Purchased equipment for several projects that started at the beginning of the Fiscal Year
- (8) Completed several security gate upgrades and replaced failed AC unit on personnel building, PC 15.
- (9) Water usage the same as last year. Higher than expected rate increases for water usage.
- (10) Annual billing for bidding support services. Expense rate should drop for the remainder of the year.
- (11) Several projects started at the beginning of the Fiscal Year
- (12) Replacing failing valves at a rate higher than expected for the year.
- (13) Replaced a failing pump earlier than expected in the Fiscal Year.
- (14) Ending warmer month usage. Winter usage will drop demand and expenses will fall back in line.
- (15) Completed annual maintenance on vehicles.

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

For the Period Ended August 31, 2016

	FY 2016-17 Ori	Actual	(Over)/Under Budget	% Expended
<b>Salary and Fringe</b>				
01-5000-03-00-0 Regular Salaries-O&	\$103,896.00	\$12,452	\$91,444	12.0%
01-5401-03-00-0 Fringe Benefits IN to P	\$73,764.00	\$8,841	\$64,923	12.0%
05-5000-03-11-0 Regular Salaries-O&	\$0.00	\$166	(\$166)	0.0%
21-5000-03-13-0 Regular Salaries-O&	\$0.00	\$336	(\$336)	0.0%
21-5401-03-13-0 Fringe Benefits IN to P	\$0.00	\$238	(\$238)	0.0%
24-5000-03-11-0 Regular Salaries-O&	\$0.00	\$166	(\$166)	0.0%
<b>Total Payroll Costs</b>	<b>\$177,660.00</b>	<b>\$22,198</b>	<b>\$155,462</b>	<b>12.5%</b>
<b>Other Expenses</b>				
01-5014-03-00-0 Engineering - Misc.	\$1,200.00	\$1,950	(\$750)	162.5%
01-5015-03-00-0 Management Support S	\$39,996.00	\$0	\$39,996	0.0%
01-5022-03-00-0 Miscellaneous Expens	\$11,004.00	\$0	\$11,004	0.0%
01-5039-03-00-0 Membership Dues/F	\$1,200.00	\$30	\$1,170	2.5%
01-5061-03-00-0 Mileage	\$396.00	\$0	\$396	0.0%
01-5203-03-00-0 Workers Compensati	\$396.00	\$0	\$396	0.0%
01-5309-03-00-0 Operating Leases	\$15,000.00	\$3,305	\$11,695	22.0%
01-5705-03-00-0 Monthly Car Allowan	\$5,820.00	\$808	\$5,012	13.9%
01-5802-03-00-0 Shipping/Freight	\$300.00	\$0	\$300	0.0%
01-6500-03-00-0 IT Allocations in to P	\$44,028.00	\$1,888	\$42,140	4.3%
<b>Total Other Expenses</b>	<b>\$119,340.00</b>	<b>\$7,981</b>	<b>\$111,359</b>	<b>6.7%</b>
<b>Total Expenses</b>	<b>\$297,000.00</b>	<b>\$30,179</b>	<b>\$266,821</b>	<b>10.2%</b>

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

For the Period Ended August 31, 2016

	FY 2016-17 Budget	Actual	(Over)/Under Budget	% Expended
<b>Salary and Fringe</b>				
01-5401-04-00-0 Fringe Benefits IN to PC's & Depts.	\$484,884	\$82,605	\$402,279	17.0%
01-6000-04-00-0 Regular Salaries-Admin & IT	\$682,932	\$117,345	\$565,587	17.2%
01-6001-04-00-0 Overtime Salaries-Admin & IT	\$19,308	\$3,475	\$15,833	18.0%
<b>Total Payroll Costs</b>	<b>\$1,187,124</b>	<b>\$203,425</b>	<b>\$983,699</b>	<b>17.1%</b>
<b>Other Expenses</b>				
01-5018-04-00-0 Public Notices/ Public Relations	\$15,996	\$0	\$15,996	0.0%
01-5019-04-00-0 Contract Services Misc. - 29	\$1,800	\$0	\$1,800	0.0%
01-5020-04-00-0 Postage Expense	\$1,200	\$0	\$1,200	0.0%
01-5023-04-00-0 Office Supplies - All	\$9,996	\$0	\$9,996	0.0%
01-5027-04-00-0 Insurance - Property/Liability	\$39,720	\$28	\$39,692	0.1%
01-5033-04-00-0 Recruitment	\$2,004	\$0	\$2,004	0.0%
01-5035-04-00-0 Training Expense	\$2,496	\$0	\$2,496	0.0%
01-5037-04-00-0 Office Equipment	\$8,004	\$0	\$8,004	0.0%
01-5039-04-00-0 Membership Dues/Fees	\$2,496	\$0	\$2,496	0.0%
01-5061-04-00-0 Mileage	\$204	\$0	\$204	0.0%
01-5207-04-00-0 Accrued Vacation	\$0	\$0	\$0	0.0%
01-5208-04-00-0 Accrued Sick Pay	\$0	\$0	\$0	0.0%
01-6101-04-00-0 Recruitment & Employee Relations	\$9,996	\$1,855	\$8,141	18.6%
01-6102-04-00-0 Subscriptions	\$996	\$86	\$910	8.6%
01-6200-04-00-0 Management Support Services	\$215,004	\$23,813	\$191,191	11.1%
01-6201-04-00-0 Audit	\$35,004	\$0	\$35,004	0.0%
01-6202-04-00-0 Legal	\$62,004	\$7,555	\$54,449	12.2%
01-6203-04-00-0 Outside Services	\$2,004	\$809	\$1,195	40.4%
01-6204-04-00-0 Postage	\$696	\$556	\$140	79.8%
01-6220-04-00-0 Board of Directors - Fees	\$0	\$0	\$0	0.0%
01-6223-04-00-0 Office Supplies - Admin	\$0	\$414	(\$414)	0.0%
01-6234-04-00-0 Memberships & Trainings	\$91,116	\$0	\$91,116	0.0%
01-6239-04-00-0 Travel & Conference	\$23,904	\$680	\$23,224	2.8%
01-6240-04-00-0 Scholarship Sponsorship	\$996	\$0	\$996	0.0%
01-6310-04-00-0 Miscellaneous	\$15,000	\$1,204	\$13,796	8.0%
01-6311-04-00-0 Mileage	\$504	\$147	\$357	29.2%
01-6317-04-00-0 Contract Services Misc	\$0	\$325	(\$325)	0.0%
01-6500-04-00-0 IT Allocations in to PC's & Depts.	\$122,172	\$12,413	\$109,759	10.2%
01-6601-04-00-0 Shipping/Freight	\$0	\$88	(\$88)	0.0%
01-6705-04-00-0 Monthly Car Allowance	\$12,000	\$2,308	\$9,692	19.2%
<b>Total Other Expenses</b>	<b>\$675,312</b>	<b>\$52,282</b>	<b>\$623,030</b>	<b>7.7%</b>
<b>Total Expenses</b>	<b>\$1,862,436</b>	<b>\$255,706</b>	<b>\$1,606,730</b>	<b>13.7%</b>

## South Orange County Wastewater Authority

## Budget vs. Actual Comparison-IT

Exhibit E-4

For the Period Ended August 31, 2016

	<u>FY 2016-17 Budget</u>	<u>Actual</u>	<u>(Over)/Under Budget</u>	<u>% Expended</u>
<b>Salary &amp; Fringe</b>				
01-5401-05-00 Fringe Benefits IN to PC's & Dept	\$52,572	\$8,022	\$44,550	15.3%
01-6000-05-00 Regular Salaries-Admin & IT	\$74,052	\$11,299	\$62,753	15.3%
01-6001-05-00 Overtime Salaries-Admin & IT	\$2,004	\$118	\$1,886	5.9%
<b>Total Salary &amp; Fringe</b>	<b>\$128,628</b>	<b>\$19,439</b>	<b>\$109,189</b>	<b>15.1%</b>
<b>Other Expenses</b>				
01-5023-05-00 Office Supplies - All	\$252	\$0	\$252	0.0%
01-5028-05-00 Small Tools & Supplies	\$504	\$0	\$504	0.0%
01-5035-05-00 Training Expense	\$1,692	\$0	\$1,692	0.0%
01-5037-05-00 Office Equipment	\$6,000	\$0	\$6,000	0.0%
01-5061-05-00 Mileage	\$348	\$0	\$348	0.0%
01-6239-05-00 Travel & Conference	\$2,496	\$0	\$2,496	0.0%
01-6300-05-00 Software Maintenance Agreement	\$57,144	\$9,964	\$47,180	17.4%
01-6301-05-00 Hardware Maintenance Agreeeme	\$12,912	\$0	\$12,912	0.0%
01-6302-05-00 Cloud Subscriptions (Internet)	\$9,516	\$1,680	\$7,836	17.7%
01-6303-05-00 Telecommunications	\$109,020	\$17,817	\$91,203	16.3%
01-6305-05-00 IT Professional Services	\$241,500	\$15,369	\$226,131	6.4%
01-6306-05-00 Small Hardware Purchases (< \$	\$34,896	\$14,485	\$20,411	41.5%
01-6307-05-00 Small Software Purchases (<\$5k)	\$48,540	\$0	\$48,540	0.0%
01-6308-05-00 IT Memberships	\$156	\$0	\$156	0.0%
01-6309-05-00 Operating Leases	\$44,004	\$9,077	\$34,927	20.6%
01-6310-05-00 Miscellaneous	\$996	\$0	\$996	0.0%
01-6312-05-00 Computer & Photocopy Supplies	\$0	\$1,786	(\$1,786)	0.0%
01-6601-05-00 Shipping/Freight	\$252	\$0	\$252	0.0%
<b>Total Other Expenses</b>	<b>\$570,228</b>	<b>\$70,178</b>	<b>\$500,050</b>	<b>12.3%</b>
<b>Total Expenses before Allocation</b>	<b>\$698,856</b>	<b>\$89,617</b>	<b>\$609,239</b>	<b>12.8%</b>
<b>IT Allocations (Out) to PC's &amp; Depts</b>				
01-6400-05 IT Allocations (OUT) to PC's & D	(\$698,856)	(\$89,617)	(\$609,239)	12.8%
<b>Total IT Allocations (Out) to PC's &amp; Depts</b>	<b>(\$698,856)</b>	<b>(\$89,617)</b>	<b>(\$609,239)</b>	<b>12.8%</b>
<b>Total</b>	<b>(\$698,856)</b>	<b>(\$89,617)</b>	<b>(\$609,239)</b>	<b>12.8%</b>



# Agenda Item

**Meeting Date:** October 6, 2016

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

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## **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 August, 2016

## Excursion, Complaint, and Violation Events

Events	CTP	RTP	JBL	Totals
Odor	0	11(1)	0	11
Noise	0	0	0	0
Spills	0	0	0	0
Violations	0	0	0	0
Others	0	0	0	0

(1) All 11 odor complaints were from a single resident. No odors tracked back to the plant.

## Plant Wastewater Billing Characteristics

Key Parameters	CTP	RTP	JBL TP1	JBL TP2	Totals
Influent (mgd)	3.07	7.70	7.29	0.96	19.02
Effluent (mgd)	2.10	0.51	7.29	1.15	11.06
Peak Flow (mgd)	3.31	17.36	11.45	5.90	38.02
Influent BOD (mg/l)	220	217	252	307	
Influent TSS (mg/l)	282	305	535	315	
Effluent BOD (mg/l)	4.4	3.5	6.8	7.6	
Effluent TSS (mg/l)	3.9	4.4	7.8	6.9	
Effluent Turbidity (NTU)	2.8	2.4	4.6	3.8	

## Recycled Water (AWT) Operations

Key Parameters	CTP	RTP	JBL	Totals
Average Flow (mgd)	1.56	7.19		8.75
Days of Operation (days)	31	31		
Total Flow (million gallons)	48.4	222.8		271.2
Plant Irrigation (million gallons)	0.10	0.00	0.29	
AWT Time Online (%)	99.4	98.8		

### Wastewater Unit Definitions

mgd = million gallons per day

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

NTU = Nephelometric Turbidity Units

# SOCWA Operational Report August, 2016 (cont'd)

## Biosolids Management

Biosolids Management Site	CTP	RTP	JBL	Totals
Synagro Compost (tons)		NA	0.0	0.0
Nursery Products (tons)		120.6	405.2	525.7
Prima Deshecha (tons)		190.8	192.3	383.0
Other: _____ (tons)		0.0	0.0	0.0
Total Processed (tons)		311.3	597.5	908.8

## Summary of Maintenance Activities

Task Type	CTP	RTP	JBL	Totals
Preventative Maintenance	219	586	411	1,216
Corrective Maintenance	75	241	158	474

## Site Visitors

Visitor Types	CTP	RTP	JBL	Totals
Regulatory	0	2	1	3
Member Agency	0	0	0	0
Residents	0	0	0	0
Others	11	0	0	11
Tours #/Visitors	0	0	0	0

## Grit Disposal Management

Grit & Screenings	CTP	RTP	JBL	Totals
Simi Valley Landfill (tons)	7.8	28.7	NA	36.5

## Chemical and Energy Utilization

Chemical/Utility	CTP	RTP	JBL	Totals
Ferric Chloride (tons)	0.1	0.0	NA	0.1
Power (kWh)	207,872	299,044	476,125	983,041
Natural Gas (Dth)	NA	NA	NA	0
Digester Gas (scfm)		9,059,156	0(1)	9,059,156
Digester Gas Power Savings		\$34,508.88		

(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 August, 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	1.819	56.89%				1.82
EBSB	0.051	1.60%				0.05
SCWD	1.327	41.51%		1.696	23.26%	3.02
MNWD	0.000	0.00%	7.70	1.599	21.93%	9.30
CSJC				1.867	25.61%	1.87
SMWD				2.128	29.19%	2.13
Total	3.197	100.00%	7.70	7.290	100.00%	18.19

## Total Agency Outfall Flows by Outfall System-Billing Flows

Agency	SJCOO (mgd)	SJCOO (%)	SJCOO Meter (mgd)	ACOO (mgd)	ACOO (%)	Total (mgd)	Notes
CLB				1.82	33.39%	1.82	
EBSB				0.05	0.94%	0.05	
SCWD	1.70	17.59%		0.23	4.25%	1.93	Includes Desalters
MNWD	1.60	16.59%		0.51	9.42%	2.11	
ETWD				1.49	27.43%	1.49	Direct Outfall Only
CSJC	2.14	22.15%				2.14	Includes Desalter
SMWD	2.40	24.91%				2.40	Includes Chiquita
CSC	1.81	18.76%				1.81	Direct Outfall Only
IRWD				1.34	24.57%	1.34	Direct Outfall Only
Total	9.64	100.00%	8.34	5.45	100.00%	15.09	

# SOCWA Operational Report August, 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%	1.867	25.61%	1.86	25.26%
MNWD	3.00	23.08%	1.40	16.69%	1.599	21.93%	1.50	20.39%
SCWD	3.75	28.85%	2.00	23.84%	1.696	23.26%	1.73	23.56%
SMWD	2.25	17.31%	1.80	21.45%	2.128	29.19%	2.26	30.79%
Total	13.00	100.00%	8.39	100.00%	7.290	100.00%	7.35	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%	3,830	15.57%	4,027	16.02%
MNWD	8,340	21.62%	5,270	20.36%	6,868	27.93%	6,254	24.88%
SCWD	7,715	20.00%	5,304	20.49%	4,753	19.33%	5,451	21.69%
SMWD	10,946	28.38%	6,695	25.86%	9,140	37.17%	9,404	37.41%
Total	38,573	100.00%	25,889	100.00%	24,591	100.00%	25,136	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%	1.81	18.76%		
CSJC	11.08%	3.83	21.87%	2.14	22.15%	1.87	25.61%
MNWD	15.51%	2.42	13.82%	1.60	16.59%	1.60	21.93%
SCWD	12.47%	2.67	15.25%	1.70	17.59%	1.70	23.26%
SMWD	44.32%	5.59	31.92%	2.40	24.91%	2.13	29.19%
Total	100.00%	17.51	100.00%	9.64	0.00%	7.29	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 August, 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	1.788	15.88%		
CSJC	2.177	19.34%	1.86	25.26%
MNWD	1.855	16.48%	1.50	20.39%
SCWD	1.732	15.38%	1.73	23.56%
SMWD	3.707	32.92%	2.26	30.79%
<b>Total</b>	<b>11.258</b>	<b>100.00%</b>	<b>7.35</b>	<b>100.00%</b>

### 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%	1.819	56.89%	1.858	56.85%
EBS	0.20	2.99%	0.061	1.89%	0.051	1.60%	0.054	1.64%
SCWD	2.00	29.85%	1.213	37.51%	1.327	41.51%	1.357	41.51%
MNWD	1.96	29.25%	0.000	0.00%	0.000	0.00%	0.000	0.00%
<b>Total</b>	<b>6.70</b>	<b>100.00%</b>	<b>3.234</b>	<b>100.00%</b>	<b>3.197</b>	<b>100.00%</b>	<b>3.268</b>	<b>100.00%</b>

### 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	0.0126	0.0126	0.16%	0.0131	0.17%
EBS	0.00044	0.005%	0.0000	0.0004	0.0004	0.00%	0.0004	0.00%
SCWD	0.00871	0.103%	0.0000	0.0092	0.0092	0.12%	0.0095	0.12%
ETWD	0.01719	0.204%	0.0000	0.0140	0.0140	0.18%	0.0137	0.18%
MNWD	8.40541	99.521%	7.7006	0.0622	7.7628	99.54%	7.6630	99.52%
<b>Total</b>	<b>8.44583</b>	<b>100.000%</b>	<b>7.7006</b>	<b>0.0983</b>	<b>7.7990</b>	<b>100.00%</b>	<b>7.6996</b>	<b>100.00%</b>

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

# SOCWA Operational Report August, 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	4,728	12.95%	4,728	12.95%	145,198	12.78%	152,456	12.58%
EBSD	147	0.40%	147	0.40%	4,084	0.36%	4,400	0.36%
SCWD	2,926	8.02%	2,926	8.01%	105,952	9.33%	111,332	9.18%
ETWD	5,903	16.17%	5,903	16.17%	162,235	14.28%	159,438	13.15%
MNWD	22,801	62.46%	22,801	62.46%	718,359	63.25%	784,601	64.72%
Total	36,505	100.00%	39,017	100.00%	1,135,827	100.00%	1,212,227	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%	1.819	33.39%	1.858	31.85%
EBSD	0.780%	0.06	0.54%	0.051	0.94%	0.054	0.92%
ETWD	16.302%	2.89	25.83%	1.494	27.43%	1.471	25.22%
IRWD	15.760%	2.62	23.41%	1.338	24.57%	1.425	24.44%
MNWD	43.848%	2.96	26.45%	0.513	9.42%	0.930	15.94%
SCWD	12.310%	1.17	10.46%	0.232	4.25%	0.095	1.63%
Total	100.000%	11.19	100.00%	5.447	0.00%	5.833	100.00%



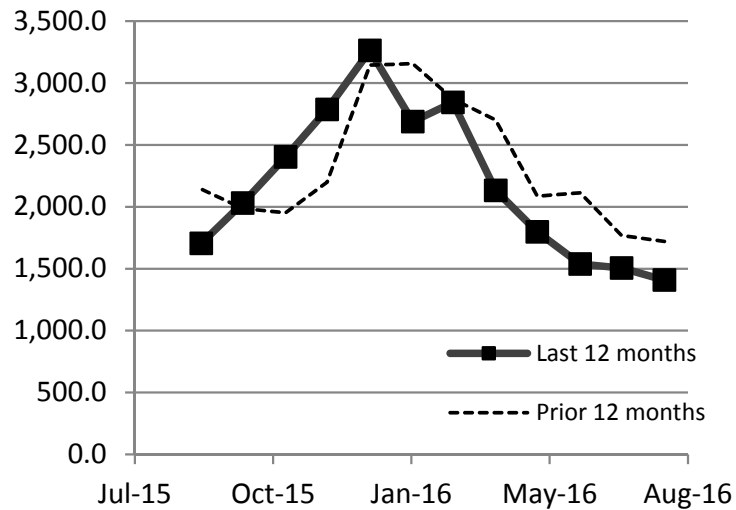
# SOCWA Ocean Outfall Discharges by Agency

## SOCWA Outfall Discharge Report August, 2016

Agency	SJCOO (mgd)	SJCOO (%)	ACOO (mgd)	ACOO (%)	Total (mgd)
CLB			1.82	33.39%	1.82
EBSD			0.05	0.94%	0.05
SCWD	1.70	17.59%	0.23	4.25%	1.93
MNWD	1.60	16.59%	0.51	9.42%	2.11
ETWD			1.49	27.43%	1.49
CSJC	2.14	22.15%			2.14
SMWD	2.40	24.91%			2.40
CSC	1.81	18.76%			1.81
IRWD			1.34	24.57%	1.34
<b>Total</b>	<b>9.64</b>	<b>100.00%</b>	<b>5.45</b>	<b>100.00%</b>	<b>15.09</b>
or Acre-Feet per year equivalent					16,899

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

Aug-16	1,408.2
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
<b>Total</b>	<b>26,100.5</b>



# Beach Ocean Monitoring Report

ALISO CREEK OCEAN OUTFALL MONITORING REPORT

August 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	
08/01/16	No Flow				1.588	7.0	3.1	<0.1	3.280	7.3	4.0	<0.1	2.195	2.3	3.0	<0.1	0.852	0.607	0.108	8.630	
08/02/16	No Flow				1.832	8.2	3.2	<0.1	0.810	6.3	4.0	0.1	1.567	2.1	3.0	0.1	0.447	0.494	0.087	5.237	
08/03/16	No Flow				1.502	9.0	3.8	<0.1	0.050	4.4	3.0	0.1	2.016	2.4	3.0	<0.1	0.711	0.411	0.103	4.793	
08/04/16	No Flow				1.137	9.2	6.9	<0.1	0.010	6.4	<4.0	0.2	1.515	3.8	4.0	<0.1	0.854	0.637	0.103	4.256	
08/05/16	No Flow				1.397	9.2	3.7	<0.1	0.430	6.8	<4.0	<0.1	2.086	3.4	4.0	0.1	0.853	0.611	0.100	5.477	
08/06/16	No Flow				1.658	8.8	3.6	<0.1	0.020				2.022				0.854	0.567	0.101	5.222	
08/07/16	No Flow				1.437	26.4	4.7	<0.1	0.010	4.0	2.0	<0.1	2.388	9.0	7.0		0.853	0.635	0.105	5.428	
08/08/16	No Flow				1.879	23.8	4.8	<0.1	1.190	6.2	3.0	<0.1	2.415	5.4	4.0	0.1	0.854	0.636	0.097	7.071	
08/09/16	No Flow				1.943	20.6	3.7	<0.1	0.290	6.1	4.0	<0.1	2.100	2.7	3.0	0.1	0.853	0.631	0.102	5.919	
08/10/16	No Flow				1.554	37.8	3.9	<0.1	0.140	4.7	4.0	<0.1	2.106	3.6	4.0	<0.1	0.854	0.466	0.099	5.219	
08/11/16	No Flow				1.140	29.0	3.6	<0.1	0.060	2.2	<2.0	0.1	1.603	2.4	2.0	0.1	0.853	0.638	0.106	4.400	
08/12/16	No Flow				1.354	16.8	3.8	<0.1	0.340	3.7		0.1	2.249	2.2	<2.0	0.1	0.854	0.638	0.102	5.537	
08/13/16	No Flow				1.350	16.8	4.0	<0.1	0.230				2.217				0.854	0.655	0.105	5.411	
08/14/16	No Flow				1.633	14.8	4.3	<0.1	0.840	2.6	5.0	<0.1	2.124	13.8	9.0	<0.1	0.830	0.656	0.096	6.179	
08/15/16	No Flow				1.366	5.6	3.7	<0.1	0.900	4.1	5.0	0.1	2.674	2.9	5.0	<0.1	0.854	0.655	0.105	6.554	
08/16/16	No Flow				1.844	11.4	3.7	<0.1	0.110	5.8	5.0	0.1	2.116	2.6	3.0	0.1	0.827	0.653	0.097	5.647	
08/17/16	No Flow				1.359	8.6	3.3	<0.1	0.950	3.8	3.0	0.1	2.033	0.7	<2.0	<0.1	0.853	0.653	0.094	5.942	
08/18/16	No Flow				0.816	6.8	3.5	<0.1	0.350	4.5		<0.1	1.217	1.5	3.0	0.1	0.435	0.653	0.084	3.555	
08/19/16	No Flow				1.294	9.2	4.4	<0.1	0.030	2.9	2.0	0.1	1.924	1.6	2.0	<0.1	0.754	0.552	0.109	4.663	
08/20/16	No Flow				1.621	13.8	2.7	<0.1	0.010	3.3	4.0	0.1	1.463	3.6	10.0	0.2	0.851	0.631	0.101	4.677	
08/21/16	No Flow				1.452	11.0	3.1	<0.1	0.070	3.6	4.0	<0.1	2.422	11.1	8.0		0.852	0.630	0.097	5.523	
08/22/16	No Flow				1.163	12.6	4.6	<0.1	0.610	4.9	4.0	<0.1	2.317	2.2	4.0	<0.1	0.852	0.629	0.101	5.672	
08/23/16	No Flow				2.116	23.2	5.2	<0.1	0.260	3.3	3.0		2.018	1.2	2.0	<0.1	0.852	0.628	0.112	5.986	
08/24/16	No Flow				1.127	10.0	3.3	<0.1	0.010	1.6	<3.0	0.2	1.832	2.1	2.0	<0.1	0.793	0.627	0.104	4.493	
08/25/16	No Flow				0.886	8.6	3.2	0.1	0.030	4.1	4.0	0.1	1.727	1.7	3.0	<0.1	0.852	0.430	0.084	4.009	
08/26/16	No Flow				1.335	10.8	3.4	0.1	0.350	5.3	3.0	0.2	2.068	1.9	4.0	0.1	0.547	0.638	0.109	5.047	
08/27/16	No Flow				1.686	12.2	4.2	<0.1	0.640	3.1	4.0	0.1	2.020	11.1	14.0	0.1	0.393	0.609	0.102	5.450	
08/28/16	No Flow				1.647	7.2	3.7	<0.1	0.920	3.4	3.0	<0.1	1.976	10.0	8.0	<0.1	0.420	0.604	0.094	5.661	
08/29/16	No Flow				1.616	11.4	3.7	<0.1	1.910	4.8	4.0	0.2	1.968	2.4	4.0	<0.1	0.415	0.604	No Flow	6.513	
08/30/16	No Flow				2.065	10.2	4.7	<0.1	1.040	4.9	3.0	<0.1	2.122	2.9	3.0	<0.1	0.419	0.620	0.006	6.272	
08/31/16	No Flow				1.518	9.8	2.4	<0.1	0.020	3.5	2.0	0.1	1.742	1.7	3.0	0.1	0.420	0.621	0.101	4.422	
AVG	No Flow				1.494	13.5	3.9	<0.1	0.513	4.4	3.5	<0.1	2.008	3.9	4.4	<0.1	0.734	0.604	0.094	5.447	
TOTAL	No Flow				46.32				15.91				62.24				22.77	18.72	2.914	168.87	None

South Orange County Wastewater Authority-Aliso Creek Ocean Outfall

REPORT FOR: August 2016  
 REPORT DUE: October 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 0957

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	08/03/16	0950	9	<9	3	None	None	None	None	Green	74	Slightly Turbid		
S4	08/03/16	0944	<9	<9	<2	None	None	None	None	Green		Slightly Turbid		
S5	08/03/16	0935	<9	9	2	None	None	None	None	Green	74	Slightly Turbid		
S6	08/03/16	0930	<9	<9	<2	None	None	None	None	Green		Slightly Turbid		
WEST	08/03/16	0925	<9	<9	2	None	None	None	None	Green	74	Slightly Turbid		
S7	08/03/16	0920	<9	<9	<2	None	None	None	None	Green		Slightly Turbid		
S8	08/03/16	0915	<9	<9	<2	None	None	None	None	Green	74	Slightly Turbid		
S9	08/03/16	0850	9	<9	<2	None	None	None	None	Green		Slightly Turbid		
ACM1	08/03/16	0845	9	<9	<2	None	None	None	None	Green	75	Slightly Turbid		
S10	08/03/16	0805	<9	<9	<2	None	None	None	None	Green		Slightly Turbid		
S11	08/03/16	0800	<9	9	<2	None	None	None	None	Green	75	Slightly Turbid		
S12	08/03/16	0755	50	30	<2	None	None	None	None	Green		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.

Unified Beach Monitoring

#2

South Orange County Wastewater Authority-Aliso Creek Ocean Outfall

REPORT FOR: August 2016  
 REPORT DUE: October 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 703

Weather: Drizzle

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	08/08/16	1045	<9	9	3	None	None	None	None	Green	66	Clear		
S4	08/08/16	1030	<9	<9	<2	None	None	None	None	Green		Clear		
S5	08/08/16	1020	9	9	2	None	None	None	None	Green		Clear		
S6	08/08/16	1000	<9	<9	<2	None	None	None	None	Green		Clear		
WEST	08/08/16	950	<9	<9	<2	None	None	None	None	Green		Clear		
S7	08/08/16	940	<9	<9	<2	None	None	None	None	Green	67	Clear		
S8	08/08/16	925	<9	<9	<2	None	None	None	None	Brown		Slightly Turbid		
S9	08/08/16	920	<9	<9	<2	None	None	None	None	Green		Clear		
ACM1	08/08/16	915	9	<9	<2	None	None	None	None	Green		Clear		
S10	08/08/16	850	<9	<9	<2	None	None	None	None	Green		Clear		
S11	08/08/16	840	<9	<9	2	None	None	None	None	Green		Clear		
S12	08/08/16	825	<9	<9	2	None	None	None	None	Green	66	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: August 2016  
 REPORT DUE: October 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 9:24  
 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	08/17/16	800	<9	<9	2	None	None	None	None	Green	70	Clear		
S4	08/17/16	1000	<9	<9	<2	None	None	None	None	Green		Clear		
S5	08/17/16	945	<9	20	<2	None	None	None	None	Green		Clear		
S6	08/17/16	930	<9	<9	<2	None	None	None	None	Green		Clear		
WEST	08/17/16	925	<9	<9	<2	None	None	None	None	Green		Clear		
S7	08/17/16	920	<9	<9	<2	None	None	None	None	Green		Clear		
S8	08/17/16	915	9	<9	<2	None	None	None	None	Blue		Clear		
S9	08/17/16	905	9	9	<2	None	None	None	None	Green		Clear		100
ACM1	08/17/16	900	9	<9	<2	None	None	None	None	Green		Clear		
S10	08/17/16	840	<9	<9	2	None	None	None	None	Green		Clear		
S11	08/17/16	830	20	9	2	None	None	None	None	Green		Clear		
S12	08/17/16	820	20	<9	2	None	None	None	None	Green		Clear		

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

South Orange County Wastewater Authority-Aliso Creek Ocean Outfall

REPORT FOR: August 2016  
 REPORT DUE: October 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 6:15

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	08/22/16	08220	<10	<10	2	None	None	None	None	Green		Clear		
S4	08/22/16	0755	10	<10	2	None	None	None	None	Green	66	Slightly Turbid		
S5	08/22/16	0745	<10	10	2	None	None	None	None	Green		Slightly Turbid		
S6	08/22/16	1015	10	<10	2	None	None	None	None	Blue		Clear		
WEST	08/22/16	1010	<10	<10	2	None	None	None	None	Green	67	Clear		
S7	08/22/16	1005	<10	<10	2	None	None	None	None	Green		Clear		
S8	08/22/16	1000	<10	<10	<2	None	None	None	None	Blue		Clear		
S9	08/22/16	0910	<10	<10	<2	None	None	None	None	Green	66	Slightly Turbid		25
ACM1	08/22/16	0915	<10	<10	2	None	None	None	None	Green		Slightly Turbid		
S10	08/22/16	0920	10	<10	<2	None	None	None	None	Green		Clear		
S11	08/22/16	0925	10	<10	<2	None	None	None	None	Green		Clear		
S12	08/22/16	0930	<10	<10	10	None	None	None	None	Blue	65	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: August 2016  
 REPORT DUE: October 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 927

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	08/31/16	1045	90	<20	<3	None	None	None	None	Green	65	Clear		
S4	08/31/16	1025	9	<20	<3	None	None	None	None	Green		Clear		
S5	08/31/16	1005	9	9	<3	None	None	None	None	Green		Clear		
S6	08/31/16	950	30	<20	<3	None	None	None	None	Green		Clear		
WEST	08/31/16	945	<20	<20	<3	None	None	None	None	Green		Clear		
S7	08/31/16	940	<20	<20	<3	None	None	None	None	Green		Clear		
S8	08/31/16	930	9	9	7	None	None	None	None	Green		Clear		
S9	08/31/16	925	60	<20	2	None	None	None	None	Green	66	Clear		
ACM1	08/31/16	915	<20	<20	2	None	None	None	None	Green		Clear		25
S10	08/31/16	850	9	<20	<3	None	None	None	None	Green		Clear		
S11	08/31/16	900	<20	<20	<3	None	None	None	None	Green		Clear		
S12	08/31/16	835	9	9	<3	None	None	None	None	Green	67	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.

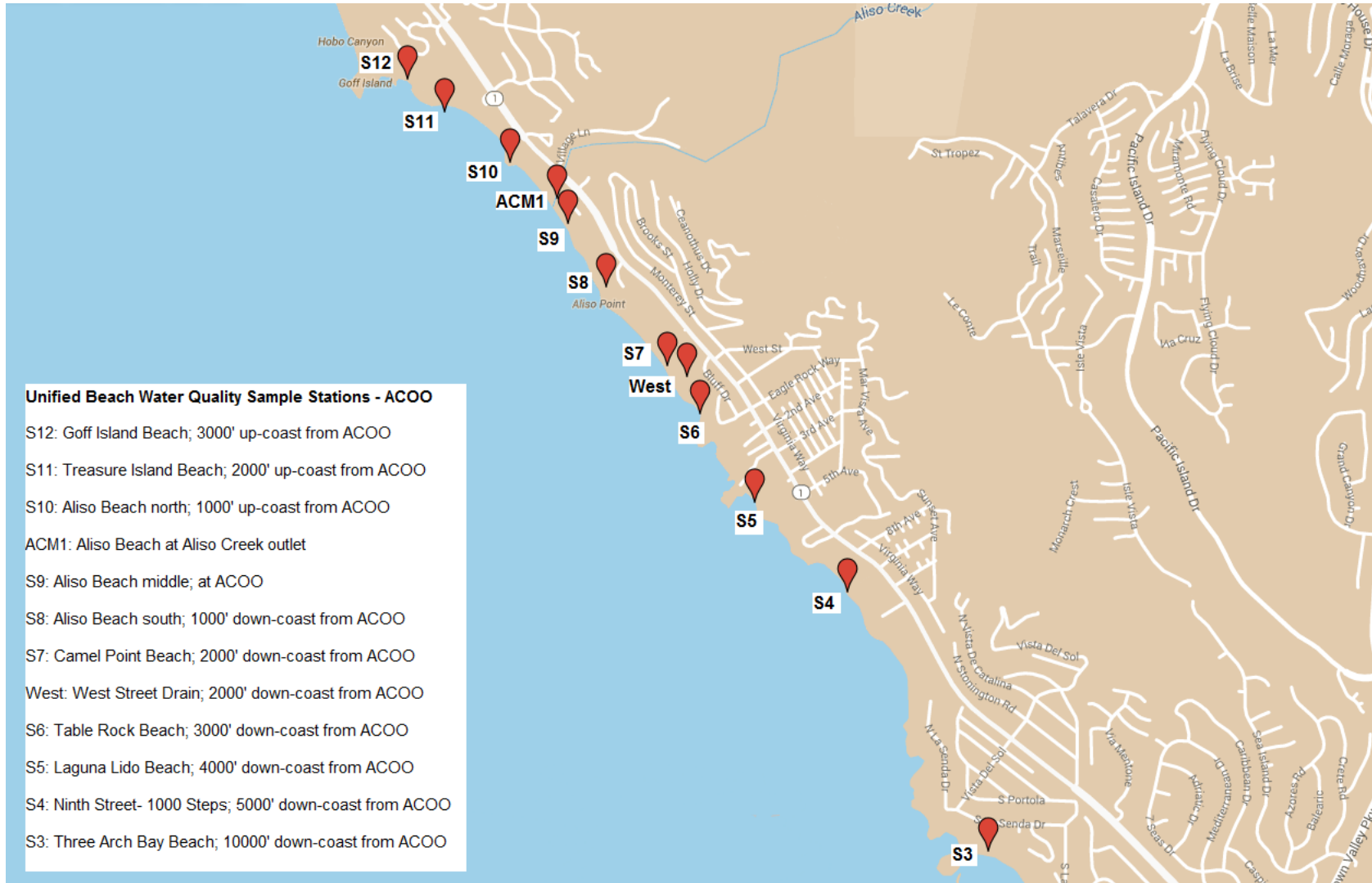
## Aliso Creek Ocean Outfall

### 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: August 2016

REPORT DUE: October 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:

Sta No.	Sample Depth	Sample Date	Total Coliform CFU/100ml SM9222B	Fecal Coliform CFU/100ml SM9222D	Enterococcus CFU/100ml EPA 1600	Sample Time	Oil & Grease	Sewage Debris	0 - None 1 - Mild 2 - Moderate 3 - Severe
A-1	Surface	08/25/16	<2	<2	<2	808	0	0	
A-1	Mid depth	08/25/16	<10	<10	<10				
A-2	Surface	08/25/16	<2	2	<2	755	0	0	
A-2	Mid depth	08/25/16	<10	<10	<10				
A-3	Surface	08/25/16	<2	<2	<2	801	0	0	
A-3	Mid depth	08/25/16	<10	<10	<10				
A-4	Surface	08/25/16	2	<2	<2	813	0	0	
A-4	Mid depth	08/25/16	<10	<10	<10				
A-5	Surface	08/25/16	<2	<2	<2	804	0	0	
A-5	Mid depth	08/25/16	<10	<10	<10				
B-1	Surface	08/25/16	2	<2	<2	746	0	0	
B-1	Mid depth	08/25/16	<10	<10	<10				
B-2	Surface	08/25/16	<2	<2	<2	822	0	0	
B-2	Mid depth	08/25/16	10	<10	<10				
N1	Surface	08/25/16	<2	<2	<2	838	0	0	
N2	Surface	08/25/16	<2	<2	<2	836	0	0	
N3	Surface	08/25/16	<2	<2	<2	835	0	0	
N4	Surface	08/25/16	<2	<2	<2	834	0	0	
N5	Surface	08/25/16	<2	<2	<2	833	0	0	
N6	Surface	08/25/16	4	6	<2	830	0	0	
N7	Surface	08/25/16	<2	2	<2	829	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
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
SCWD	SCWD	19,200	Recycled Water	Flow control valve off of a gravity line overfilled a feed tank for the Aliso Creek Water Harvesting Project. Immediately upon discovery a manual valve was closed and the tank overflow ceased. The tank overflow started at approximately 4:20a.m. and was discovered at 7:50a.m. The overflow was corrected by 8:00a.m.	Aliso Creek	8/29/2016 by SCWD	8/29/2016

SAN JUAN CREEK OCEAN OUTFALL MONITORING REPORT

August 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
08/01/16	6.630	11.0	10.2	0.1	1.613	12.6	9.0	<0.1	0.370	6.4	8.4	<0.1	No Flow			0.519	No Flow	8.820		
08/02/16	6.930	11.5	9.5	0.2	1.970	11.5	8.0	<0.1	0.230	6.4	8.0	<0.1	No Flow			0.536	No Flow	9.090		
08/03/16	6.330	8.8	7.6	0.1	1.910	9.7	7.0	<0.1	0.140	1.6	4.1	<0.1	No Flow			0.342	No Flow	8.000		
08/04/16	6.190	6.3	6.7	0.1	1.788	8.2	6.0	<0.1	0.260	3.6	3.3	<0.1	No Flow			No Flow	No Flow	7.850		
08/05/16	5.980	9.5	6.8	0.1	1.588	8.8	6.0	<0.1	0.230	5.6	8.3	<0.1	No Flow			No Flow	No Flow	7.520		
08/06/16	5.840				1.585				0.040				No Flow			No Flow	No Flow	7.130		
08/07/16	6.170	5.8	9.4		1.554				1.010				No Flow			No Flow	No Flow	7.630		
08/08/16	6.170	5.6	6.8	<0.1	1.782	8.9	7.0	<0.1	2.330	5.2	8.5	0.1	No Flow			0.358	No Flow	7.650		
08/09/16	6.040	5.4	7.8	0.1	1.997	13.7	9.0	<0.1	0.720	8.0	7.7	<0.1	No Flow			0.510	No Flow	8.930		
08/10/16	6.230	6.7	7.8	0.2	1.899	11.8	8.0	<0.1	0.240	6.8	4.5	0.1	No Flow			0.527	No Flow	8.400		
08/11/16	6.160	6.4	7.0	0.3	1.767	6.0	5.0	<0.1	0.080	5.6	3.3	<0.1	No Flow			0.526	No Flow	8.070		
08/12/16	5.870	6.1	7.2	0.2	1.875	7.9	5.0	<0.0	0.000				No Flow			0.476	No Flow	7.710		
08/13/16	5.830				1.962				0.000				No Flow			0.459	No Flow	7.730		
08/14/16	6.130	6.1	7.8	0.2	2.123				0.090				No Flow			0.444	No Flow	8.380		
08/15/16	7.460	7.9	9.2	<0.1	2.080	7.5	6.0	<0.1	0.420	13.6	8.8	<0.1	No Flow			0.447	No Flow	9.920		
08/16/16	8.120	7.1	7.1	0.2	1.966	8.4	6.0	<0.1	0.280	7.6	9.0	<0.1	No Flow			0.291	No Flow	10.480		
08/17/16	6.960	6.8	5.5	<0.1	1.975	10.3	8.0	<0.1	0.000				No Flow			No Flow	No Flow	8.650		
08/18/16	6.630	6.5	5.5	0.1	1.684	7.8	5.0	<0.1	0.000				No Flow			No Flow	No Flow	8.210		
08/19/16	6.320	6.8	5.3	0.1	1.776	9.0	7.0	<0.1	0.050	6.0	7.2	<0.1	No Flow			No Flow	No Flow	7.980		
08/20/16	6.410				1.480				0.000				No Flow			No Flow	No Flow	7.980		
08/21/16	6.650	7.0	6.4		1.713				0.000				No Flow			No Flow	No Flow	8.070		
08/22/16	6.670	9.5	7.2	<0.1	1.888	9.6	8.0	<0.1	0.060	6.8	10.2	<0.1	No Flow			0.298	No Flow	8.400		
08/23/16	6.450	7.8	7.0	<0.1	1.758	10.5	8.0	<0.1	0.230	4.0	8.3	<0.1	No Flow			0.387	No Flow	8.830		
08/24/16	6.700	7.2	7.0	0.1	1.126	12.9	9.0	<0.1	0.160	12.4	7.1	<0.1	No Flow			0.528	No Flow	8.160		
08/25/16	6.680	8.0	6.6	0.1	2.011	11.8		<0.1	0.190	5.2	7.4	0.1	No Flow			0.546	No Flow	8.770		
08/26/16	6.450	9.0	5.6	0.3	1.713	10.2		<0.1	0.070	6.8	8.1	<0.1	No Flow			0.546	No Flow	8.320		
08/27/16	6.160	6.6	4.7	0.1	1.889				0.030				No Flow			0.546	No Flow	7.970		
08/28/16	6.570	6.7	4.7	0.1	1.877				0.100				No Flow			0.022	No Flow	8.090		
08/29/16	6.730	10.2	6.3	0.1	1.713	13.4	9.0	<0.1	0.210	9.6	8.9	<0.1	No Flow			No Flow	No Flow	8.470		
08/30/16	6.450	8.8	4.5	0.1	2.070	12.1	9.0	<0.1	0.780	11.2	7.8	<0.1	No Flow			No Flow	No Flow	9.010		
08/31/16	6.550	8.6	5.3	0.2	1.949	11.8	8.0	<0.1	0.170	7.2	9.5	<0.1	No Flow			No Flow	No Flow	8.320		
AVG	6.466	7.6	6.9	<0.1	1.809	10.2	7.3	<0.1	0.274	7.0	7.4	<0.1	0.000			0.268	No Flow	8.340		
TOTAL	200.460				56.081				8.490				0.000			8.308	No Flow	258.540	None	

South Orange County Wastewater Authority-San Juan Creek Ocean Outfall

REPORT FOR: August 2016  
 REPORT DUE: October 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 0920

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	08/01/16	905	>=200	<20	14	None	None	None	None	Green		Slightly Turbid		100
S1	08/01/16	920	200	<20	<2	None	None	None	None	Green		Clear		
S2	08/01/16	825	>=220	20	10	None	None	None	None	Green		Slightly Turbid		100
DSB5	08/01/16	800	2,000	<20	4	None	None	None	None	Green		Slightly Turbid		100
S3	08/01/16	935	70	<20	<2	None	None	None	None	Green		Clear		
DSB4	08/01/16	940	130	<20	<2	None	None	None	None	Green		Clear		
S5	08/01/16	945	<20	<20	2	None	None	None	None	Green		Clear		
DSB1	08/01/16	950	<20	<20	<2	None	None	None	None	Green	72	Clear		
SJC1	08/01/16	900	4,000	<100	50	None	None	None	None	Green		Slightly Turbid		150

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: August 2016  
 REPORT DUE: October 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 0741

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	08/09/16	835	<20	<20	<20	None	None	None	None	Green		Slightly Turbid		
S1	08/09/16	845	<20	<20	<20	None	None	None	None	Green		Clear		
S2	08/09/16	810	20	<20	<20	None	None	None	None	Green	72	Slightly Turbid		
DSB5	08/09/16	755	50	<20	<20	None	None	None	None	Green		Slightly Turbid		50
S3	08/09/16	855	20	<20	<20	None	None	None	None	Green		Slightly Turbid		
DSB4	08/09/16	915	<20	20	<20	None	None	None	None	Green		Clear		
S5	08/09/16	910	<20	<20	<20	None	None	None	None	Green		Clear		
DSB1	08/09/16	925	40	100	<20	None	None	None	None	Green	72	Clear		
C1	08/09/16	815	<50	<5	220	None	None	None	None	Green		Slightly Turbid		

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

South Orange County Wastewater Authority-San Juan Creek Ocean Outfall

REPORT FOR: August 2016  
 REPORT DUE: October 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 0959

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	08/18/16	0850	20	<40	<40	None	None	None	None	Green		Turbid		
S1	08/18/16	0900	<40	40	<40	None	None	None	None	Green		Turbid		
S2	08/18/16	0839	<40	40	<40	None	None	None	None	Green	66	Turbid		
DSB5	08/18/16	0835	>=90	100	310	None	None	None	None	Green		Turbid		
S3	08/18/16	0905	<40	20	20	None	None	None	None	Green		Turbid		
DSB4	08/18/16	0910	<40	<40	20	None	None	None	None	Green		Turbid		
S5	08/18/16	0930	<40	<40	<40	None	None	None	None	Green	65	Turbid		
DSB1	08/18/16	0935	50	20	20	None	None	None	None	Green		Turbid		
C1	08/18/16	0850	<50	<50	9	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: August 2016  
 REPORT DUE: October 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 615  
 Weather: Overcast  
 COMMENTS:

STA#	DATE	TIME	Total Coliform	Fecal Coliform	Enterococcus	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	08/22/16	828	<40	<40	<4	None	None	None	None	Green	64	Turbid		
S1	08/22/16	835	50	<40	<4	None	None	None	None	Green		Turbid		
S2	08/22/16	818	220	<40	2	None	None	None	None	Green		Turbid		
DSB5	08/22/16	808	200	50	24	None	None	None	None	Green	65	Turbid		
S3	08/22/16	840	70	<40	46	None	None	None	None	Green		Turbid		
DSB4	08/22/16	845	<40	<40	<4	None	None	None	None	Green	65	Turbid		
S5	08/22/16	850	<40	<40	<4	None	None	None	None	Green		Turbid		
DSB1	08/22/16	855	<40	20	25	None	None	None	None	Green		Turbid		
C1	08/22/16	825	<200	<200	<20	None	None	None	None	Green	66	Turbid		

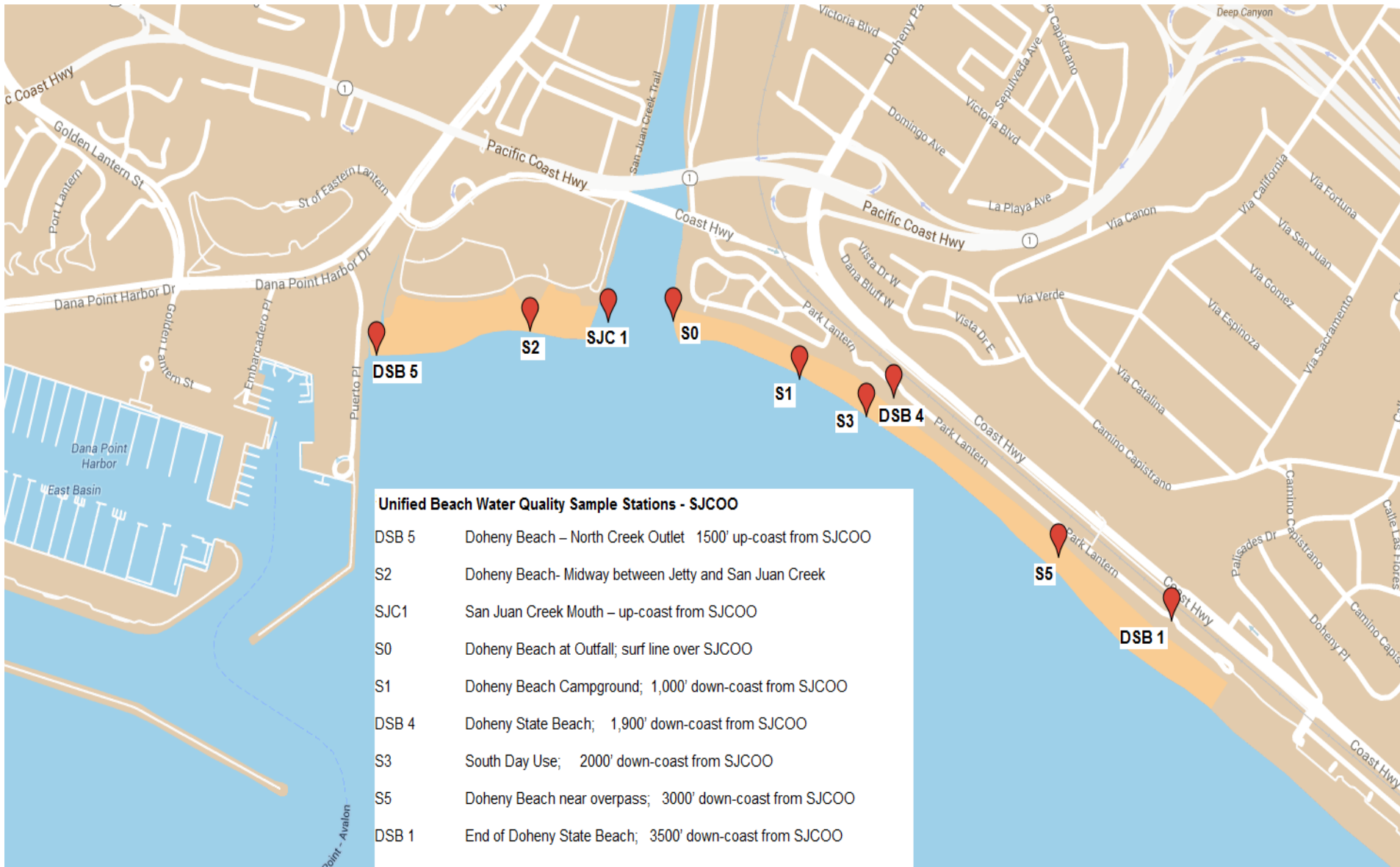
RECEIVING WATER LIMITATIONS: Single Sample Maximum - Total coliform density shall not exceed 10,000 per 100ml; Fecal coliform density shall not exceed 400 per 100ml; Enterococcus density shall not exceed 104 per 100ml.

## 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: August 2016

REPORT FREQUENCY: Monthly

REPORT DUE: October 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 0913

Sta No.	Sample Depth	Sample Date	Total Coliform CFU/100ml SM9222B	Fecal Coliform CFU/100ml SM9222D	Enterococcus CFU/100ml EPA 1600	Sample Time	Oil & Grease	Sewage Debris	0 - None 1 - Mild 2 - Moderate 3 - Severe
A-1	Surface	08/25/16	<2	<2	<2	940	0	0	
A-1	Mid depth	08/25/16	<10	<10	<10				
A-2	Surface	08/25/16	<2	<2	<2	944	0	0	
A-2	Mid depth	08/25/16	<10	<10	<10				
A-3	Surface	08/25/16	<2	<2	<2	948	0	0	
A-3	Mid depth	08/25/16	<10	<10	<10				
A-4	Surface	08/25/16	2	<2	<2	956	0	0	
A-4	Mid depth	08/25/16	<10	<10	<10				
A-5	Surface	08/25/16	<2	<2	<2	953	0	0	
A-5	Mid depth	08/25/16	20	20	10				
B-1	Surface	08/25/16	<2	<2	<2	933	0	0	
B-1	Mid depth	08/25/16	<10	<10	<10				
B-2	Surface	08/25/16	<2	<2	<2	1005	0	0	
B-2	Mid depth	08/25/16	80	60	20				
N1	Surface	08/25/16	<2	<2	<2	921	0	0	
N2	Surface	08/25/16	<2	<2	<2	920	0	0	
N3	Surface	08/25/16	<2	<2	<2	916	0	0	
N4	Surface	08/25/16	2	<2	<2	912	0	0	
N5	Surface	08/25/16	4	<2	<2	908	0	0	
N6	Surface	08/25/16	<2	<2	<2	906	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 reporting 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	
SOCWA - RTP	8/2/2016	Manganese	12-Month	mg/L	0.05	0.06	
SCWD-CTP	8/2/2016	Manganese	12-Month	mg/L	0.05	0.05	

**Recycled Water Quality  
Summary  
2016**

**SOUTH ORANGE COUNTY WASTEWATER AUTHORITY**

**QUARTERLY RECYCLED WATER MONITORING**

Monitoring Period Ending: August 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
			*	*							***
<b>TDS</b>	mg/L	<b>1000</b>	<b>853</b>	<b>935</b>	<b>998</b>	<b>922</b>	<b>941</b>	<b>933</b>	<b>967</b>	<b>970</b>	<b>860</b>
<b>Chloride</b>	mg/L	<b>375</b>	<b>189</b>	<b>156</b>	<b>260</b>	<b>193</b>	<b>203</b>	<b>292</b>	<b>220</b>	<b>237</b>	<b>254</b>
<b>Sulfate</b>	mg/L	<b>400</b>	<b>235</b>	<b>280</b>	<b>289</b>	<b>278</b>	<b>283</b>	<b>260</b>	<b>292</b>	<b>320</b>	<b>303</b>
<b>Sodium</b>	mg/L	<b>None</b>	<b>169</b>	<b>150</b>	<b>209</b>	<b>153</b>	<b>143</b>	<b>230</b>	<b>170</b>	<b>180</b>	<b>202</b>
<b>Alkalinity</b>	mg/L	<b>None</b>	-	-	-	-	-	-		<b>269</b>	<b>200</b>
<b>Adjusted SAR</b>	Ratio	<b>None</b>	<b>4.97</b>	-	<b>6.94</b>	<b>4.44</b>	<b>4.07</b>	<b>6.48</b>	<b>4.85</b>	<b>4.60</b>	<b>5.01</b>
<b>Iron</b>	mg/L	<b>0.3</b>	<b>0.014</b>	<b>0.070</b>	<b>0.022</b>	<b>0.008</b>	<b>0.123</b>	<b>0.012</b>	<b>0.200</b>	<b>0.260</b>	<b>0.142</b>
<b>Manganese</b>	mg/L	<b>0.05</b>	<b>0.016</b>	<b>0.013</b>	<b>0.004</b>	<b>0.019</b>	<b>0.035</b>	<b>0.010</b>	<b>0.060</b>	<b>0.060</b>	<b>0.053</b>
<b>MBAS</b>	mg/L	<b>0.5</b>	<b>0.06</b>	<b>0.12</b>	<b>0.08</b>	<b>0.07</b>	<b>0.07</b>	<b>0.07</b>	<b>0.07</b>	<b>0.08</b>	<b>0.08</b>
<b>Boron</b>	mg/L	<b>0.75</b>	<b>0.36</b>	<b>0.300</b>	<b>0.38</b>	<b>0.29</b>	<b>0.33</b>	<b>0.40</b>	<b>0.31</b>	<b>0.32</b>	<b>0.28</b>
<b>Fluoride</b>	mg/L	<b>None</b>	<b>0.64</b>	<b>1.11</b>	<b>0.24</b>	<b>1.11</b>	<b>0.82</b>	<b>1.51</b>	<b>0.95</b>	<b>0.89</b>	<b>0.90</b>
<b>Total Organic Carbon</b>	mg/L	<b>None</b>	<b>8.9</b>	-	<b>8.2</b>	<b>7.5</b>	<b>7.9</b>	<b>8.0</b>	<b>10.3</b>	<b>11.3</b>	<b>10.0</b>

\* 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 <sup>1</sup>	3-A Plant/MNWD	0.00	1.82	6.76	23.86	28.38	26.04	12.92	19.0					118.76
CSJC <sup>2</sup>	Chiquita/SMWD	8.53	16.14	16.23	21.95	22.83	25.94	27.60	24.50					163.72
CSJC <sup>3</sup>	Non-Domestic Well	0.88	0.38	2.41	0.27	0.00	20.48	48.18	57.60					130.20
ETWD	Region 8	23.42	55.08	52.33	105.24	133.64	172.45	195.68	197.92					935.76
IRWD														
	<sup>4</sup> IRWD - 8	11.00	43.30	37.20	95.60	84.80	98.50	111.30	120.60					602.30
	<sup>4</sup> IRWD - 9	8.80	33.60	31.30	59.20	62.40	88.10	104.40	111.80					499.60
SCWD	SOCWA CTP	35.37	76.63	47.88	94.72	112.39	122.75	170.09	148.65					808.48
MNWD	JRP	103.73	233.36	250.70	470.52	536.66	630.13	584.56	683.78					3493.44
	3-A Plant	0.00	38.94	0.00	126.06	171.24	178.12	185.33	172.48					872.17
	<sup>5</sup> CTP	-0.43	14.22	-1.88	5.04	3.09	6.45	25.37	10.31					62.17
SMWD	Oso Creek	158.48	107.56	138.93	143.01	140.89	131.78	150.50	147.09					1118.24
	Chiquita	66.20	269.51	240.11	388.28	380.84	459.30	502.25	516.80					2823.29
	Nichols	0.00	1.47	1.58	1.45	1.60	1.81	2.09	2.02					12.02
TCWD	RRWRP	53.49	48.18	52.36	48.80	52.35	50.10	45.24	51.80					402.32
TOTALS		461.37	908.01	854.80	1533.15	1676.81	1953.52	2099.62	2210.54	0.00	0.00	0.00	0.00	11697.82

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

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

<sup>3</sup> Denotes nondomestic groundwater produced from wells used for landscape irrigation.

<sup>4</sup> IRWD production is from recycled water production, nonpotable water wells, and surface water impoundments

<sup>5</sup> 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: October 6, 2016

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

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## 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 now set to first go before the Council on September 20, 2016, followed by a second hearing and final signature on October 4, 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 is in process of conducting 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 and has to be completed by December 31, 2016. The information and data obtained from these required activities will be incorporated into the SOCWA Pretreatment Annual Report.

- 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.

### **Trainings and Outreach**

- SOCWA Staff attended the first day of the 2016 California Stormwater Quality Association (CASQA) 12<sup>th</sup> Annual Conference in San Diego.
- SOCWA Staff participated in the annual California Coastal Clean-up Day event on Saturday, September 17, 2016 at Doheny State Park. Staff set-up a booth and provided educational material and engaged the public in conversation about SOCWA's environmental goals and water related subjects and issues.

### **Inspection Related Activities**

- Staff finished inspecting all diversions located in the City of Dana Point. The following diversions were inspected on 8/8/16 with the assistance of City of Dana Point Staff:
  - SCWD-N4-001-11-17 – Urban Runoff (eight diversions)
  - SCWD-N4-005-10-17 – Priority One (Capo Beach)
  - SCWD-N4-009-11-16 – Headlands (three diversions)
  - SCWD-N4-012-09-18 – Strands Beach

### **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 Special Wastewater Diversion Permit (NSWD) for Headlands Reserves (Baby Beach) – City of Dana Point is working with SCWD to take over permit responsibility through an additional five-year long Diversion Agreement. The current permit expires at the end of September 2016. SOCWA Staff has prepared a new draft permit which reflects Dana Point as the responsible party. City of Dana Point took over operation and maintenance of the diversion site from Headlands Reserves as of August 1, 2016.
- SCWD-N4-007-09-16 – NSWD for Montage Resorts – SCWD is in process of finalizing a new five-year long Diversion Agreement with Montage Resorts. The current permit expires at the end of September 2016. SOCWA Staff has prepared a draft renewal permit to reflect the new agreement.
- IRWD-1-001 – Dynacast – SOCWA Staff has been working with the facility to modify its existing Wastewater Discharge (WD) Permit to include treated oily mop wastewater as a secondary batch wastewater discharge. The oily mop water is potentially subject to Metal Molding and Casting Point Source Category with production-based discharge standards. However, SOCWA Staff is working with the industry to reduce the volume of and exclude oily mop wastewater generated from certain areas of the facility so that the industry meets the definition of a Non-Significant Industrial User. This classification would allow for a discharge of no more than 100 gpd of wastewater considered categorical wastewater subject only to SOCWA's local limits.
- CSC-2-008 – SDG&E – SOCWA Staff is preparing a draft Special Wastewater Discharge (SWD) Permit for review to allow for the discharge of water accumulated in and collected from utility vaults within the jurisdiction of the CSC.

- ETWD-4-003 – Laguna Hills Mall – SOCWA Staff prepared a temporary SWD Permit to allow for the discharge of groundwater while Laguna Hills Mall undergoes new construction (requiring excavation) to improve facilities. ETWD Staff will be responsible for permit issuance and will review of all monthly self-monthly reports.
- MNWD-4-012 – Dairy Forks Wetland Project – SOCWA Staff is preparing a temporary SWD Permit to allow for the discharge of groundwater during excavation efforts.

**Summary of Enforcement Events**

- IRWD - SOCWA Staff issued a warning notice of non-compliance (WNON) on August 22, 2016 to Beacon Bay Enterprises for failing to notify SOCWA within 24 hours that the permit limit for total petroleum hydrocarbon (TPH) was exceeded during the July sampling event. The remediation system was maintained and an additional sample was collected and analyzed within 30 days and showed compliance with the TPH permit limit. This enforcement action is considered resolved.
- SMWD - SOCWA Staff issued a WNON to Applied Medical for re-using and altering a COC report when transferring a wastewater sample between two laboratories. Applied Medical provided a response to the WNON and this enforcement action is considered resolved.
- MNWD/SMWD - SOCWA issued a NON to Vadnais for submitting their July SMR late. Vadnais has requested that its WD Permit be terminated. Therefore, this enforcement action is considered resolved.
- CSC - SOCWA Staff issued a NON to FlavorChem on August 24, 2016 for failing to require their contract laboratory to use EPA approved wastewater analytical methods listed in 40 CFR Part 136 when analyzing their waste stream for BOD, O&G, pH, TDS, and TSS.

**Summary of Activities and Types of IUs in the SOCWA Service Area.  
 YTD through September 15, 2016.**

MA		Events	Permit	NIWD	BMP	FSE	OSE	Closed	Enforcement	# of IUs
CLB	(S)	2	3	2	5	8	110	0	0	128
CSC	(M)	18	5	35	18	181	1283	0	4	1522
CSJC	(S)	5	2	27	59	137	1669	0	0	1894
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	3	1058
MNWD	(S)	74	5	125	40	596	2023	10	0	2789
SMWD	(S)	9	6	20	18	169	711	2	4	924
SCWD	(S)	0	14	33	7	148	184	0	1	386
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
<b>Total Known IUs</b>										<b>9736</b>

(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:** October 6, 2016

**TO:** Board of Directors

**FROM:** Betty Burnett, General Manager

**STAFF CONTACT:** Brian Peck, Director of Engineering

**SUBJECT:** Capital Improvement Program Status Report

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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>
<b>CAPITAL IMPROVEMENT PROJECT LIQUIDS</b>			
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 with PC 2 Engineering Committee to be held on October 12, 2016.
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 November, 2016.
3251	Effluent Flow Meter Replacement (2017)	Design	RFP for design services to be issued in November, 2016.
3250	Plant 1 Grit Basin Improvements (2017)	Design	RFP for design services to be issued in November, 2016.
3253	Effluent System Valve Replacement (2017)	Design	RFP for design services to be issued in November, 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>
<b>CAPITAL IMPROVEMENT PROJECT COMMON</b>			
1153	Energy Building Roof Reconstruction (2015)	Design	Part of the Package 'B' Improvements.
20162RC1	Diesel Storage Tank (2016)	Design	New storage tank to be installed on September 21, 2016.
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. Consultant proposals to be received on October 4, 2016.
1147	West Side Power System Upgrade (2013)	Constuction	Part of the Package 'A/C' Improvements. Gateway Pacific has received and installed the new switchgear. The new service from SDG&E has been energized.
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>
<b>CAPITAL IMPROVEMENT PROJECT SOLIDS</b>			
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 November, 2016.
20172RS2	Heating System Condition Assessment (2017) (NCP)	Condition Assessment	RFP for engineering services to be issued in November, 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>
<b>CAPITAL IMPROVEMENT PROJECTS</b>			
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	S.S. Mechanical has substantially completed this work.
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>
<b>CAPITAL IMPROVEMENT PROJECTS</b>			
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	Kick-off meeting held on September 1, 2016.
20165R3	Dilution Study (2017) (NCP)	Study	RFP for evaluation services has been issued.

**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>
<b>CAPITAL IMPROVEMENT PROJECTS LIQUIDS</b>			
1352	Lighting System Improvements (2014)	Construction	This item is part of the Miscellaneous Improvements 2015 project; Pascal & Ludwig are currently working on the lighting modifications.
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. Presentation will be made to PC 15 Engineering Committee on October 24, 2016.
1311	Headworks Overflow Pipe Modifications (2015)	Construction	This item is part of the Miscellaneous Improvements 2015 project; this work has been substantially completed.
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. Bidding is on hold pending resolution of Project Committee 15 capital budget.

**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>
<b>CAPITAL IMPROVEMENT PROJECTS LIQUIDS</b>			
1315	Grit System Knife Gate Valve Replacement (2015)	Design	Project will bid as part of CTP Miscellaneous Improvements 2016. Bidding is on hold pending resolution of Project Committee 15 capital budget.
201615RC1	Switchgear Replacement Design (2016)	Design	Evaluation by CH2MHill is ongoing. Presentation will be made to PC 15 Engineering Committee on October 24, 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. Bidding is on hold pending resolution of Project Committee 15 capital budget.
201615RC3	Influent/Overflow Condition Assessment (2016)	Condition Assessment	Assessment completed; awaiting submittal of report by V&A Consultants.
201615RC4	Grating Rebate and Concrete Repair Between HW Building and Primary Basins (2016)	Design	Project will bid as part of CTP Miscellaneous Improvements 2016. Bidding is on hold pending resolution of Project Committee 15 capital budget.
201615RC6	CTP Facility Upgrade Design (2016)	Design	Evaluation by CH2MHill is ongoing. Presentation will be made to PC 15 Engineering Committee on October 24, 2016.
1316	Existing Export Sludge Wetwell Refurbishment (2015)	Construction	This item is part of the Miscellaneous Improvements 2015 project; this work has been substantially completed.
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. The design team is also working to resolve issues raised by the U. S. Fish and Wildlife Service.
3550	Export Sludge Pump Addition (2017)	Design	Project will bid as part of CTP Miscellaneous Improvements 2016. Bidding is on hold pending resolution of Project Committee 15 capital budget.
3552	SCADA System Improvements (2017)	Construction	Project underway by SOCWA Operations department.



**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>
<b>CAPITAL IMPROVEMENT PROJECTS LIQUIDS</b>			
3553	Plant Drainage Improvements (2017)	Design	RFP for design services to be issued in January, 2017.
3554	Odor Scrubber Bleach Tank Replacement (2017)	Design	Project will bid as part of CTP Miscellaneous Improvements 2016. Bidding is on hold pending resolution of Project Committee 15 capital budget.
201715RC6	Conceptual Building Design (2017) (NCP)	Study	RFP for engineering services to be issued in January, 2017.
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.
<b>CAPITAL IMPROVEMENT PROJECT AWT</b>			
1361	Disinfection System Upgrade (AWT) (2011)	Construction	This item is part of the Miscellaneous Improvements 2015 project. Pascal & Ludwig has completed the installation of the process equipment.
1357	Hypochlorite Tank (AWT) (2013)	Construction	The new tank has been installed.
201615RA1	AWT Applied Water Pump Replacement (2016)	Design	Dudek has submitted the 90% complete drawings for the project.
201715RA1	Effluent Equalization System Condition Assessment (2017) (NCP)	Condition Assessment	Project has been awarded to V&A Consultants; assessments to be performed in January, 2017.
201715RA2	Contact Basins Condition Assessment (2017) (NCP)	Condition Assessment	Project has been awarded to V&A Consultants; assessments to be performed in January, 2017.
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)**

<b>Task Code</b>	<b>Description</b>	<b>Phase</b>	<b>Status</b>
<b>CAPITAL IMPROVEMENT PROJECT LIQUIDS</b>			
1444	Secondary Electrical System Rerouting (2014)	Design	RFP has been distributed; proposals due on October 19, 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.
1446	Waste Activated Sludge VFD Control Panel (2013)	Design	RFP has been distributed; proposals due on October 19, 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	Project has been awarded to Pacific Hydrotech; contract documents currently under review.
201617RL2	Influent Junction Structure Gate Replacement (2016)	Construction	Project has been awarded to Pacific Hydrotech; contract documents currently under review.
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	Project has been awarded to Pacific Hydrotech; contract documents currently under review.
201617RL6	Grit Basin Drop Gate and Weir Replacement (2016)	Design	Project has been awarded to Pacific Hydrotech; contract documents currently under review.
3752	AWT No.2 Upgrade Design (2017)	Design	Proposals for design are to be submitted to SOCWA by October 4.
201717RL1	Effluent Equalization Pond and Gate Condition Assessment (2017) (NCP)	Condition Assessment	Project has been awarded to V&A consultants; assessments to be performed in December, 2016.
1410	Aeration System Analysis (2015)	Study	Work in progress by Hazen and Sawyer.
201617RL5	Primary Influent Channel Condition Assessment (2016) (NCP)	Condition Assessment	Project has been awarded to V&A Consultants.

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

<b>Task Code</b>	<b>Description</b>	<b>Phase</b>	<b>Status</b>
<b>CAPITAL IMPROVEMENT PROJECT COMMON</b>			
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	Recommendation for award of contract to be made at October 4, 2016, Board Meeting.
3761	External Lighting Upgrade (2017)	Design	Hazen and Sawyer conducting site survey.
3763	Reroute Plant Drains (2017)	Design	Recommendation for award of contract to be made at October 4, 2016, Board Meeting.
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	Project has been awarded to Pacific Hydrotech; contract documents currently under review.
1416	Access Bridge Upgrades (2015)	Design	Project has been awarded to Pacific Hydrotech; contract documents currently under review.
<b>CAPITAL IMPROVEMENT PROJECT SOLIDS</b>			
1454	Digester Dome Recoating (2014)	Construction	Pacific Hydrotech has substantially completed this work.
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	Project has been awarded to Pacific Hydrotech; contract documents currently under review.

**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>
<b>CAPITAL IMPROVEMENT PROJECTS</b>			
201624R1	Emergency Plan Development (2016) (NCP)	Study	Kick-off meeting held on September 1, 2016.

# Agenda Item

<b>Budgeted:</b> Yes
<b>Budget amount:</b> \$3,365,000.00
<b>Line Items:</b> PC 3A Tasks 1210, 1250, 1253, and 1273
<b>Legal Counsel Review:</b> No
<b>Meeting Date:</b> October 6, 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 Order 12 to the construction contract with S.S. Mechanical for the Plant 3A Miscellaneous Improvements 2015 Project.

## Change Orders

1. Recommend Change Order 12 for the Plant 3A Miscellaneous Improvements 2015 Project.

CO #	CO Item	Description	Change Order Price	Cumulative Change Order Amount	Status
12	Repair Primary Sedimentation Basin No.3 Scum Beach	Holes were found in the Basin No.3 Scum Beach after sand blasting. Holes were plugged by welding plates onto the beach.	\$513.00	\$90,614.00	SOCWA Staff Recommended

## Advisory Status

Reviewed and recommended by the SOCWA Engineering Committee on September 8, 2016.

## Financial Status

Original Contract Amount:	_____	\$ 1,578,000.00
Net change by previous change orders:	_____	\$ 90,101.00
Contract amount prior to this change order:	_____	\$ 1,668,101.00
Net increase, decrease due to this change order:	_____	\$ 513.00
New contract amount, including this change order:	_____	\$ 1,668,614.00

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.

<b>Task</b>	<b>1273</b>
Moulton Niguel Water District	\$368.69
Santa Margarita Water District	\$144.31
Total	\$513.00

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

	Primary Sedimentation Upgrade	Basins Lining Repair	Aeration Upgrade	Trench Drain System	Total
<b>Budget (2016/17)</b>	<b>0.925</b>	<b>0.300</b>	<b>2.100</b>	<b>0.040</b>	<b>3.365</b>
<b>Budget Task Codes</b>	<b>1273</b>	<b>1250</b>	<b>1210</b>	<b>1253</b>	
<u>Actual Bid Costs-Constr.</u>	0.942	0.160	0.420	0.056	1.578
<u>Construction Change Orders</u>	-0.019	0.000	0.105	0.005	0.091
<u>Previous Costs (Prior Construct and Design)</u>	0.055	0.000	0.075	0.000	0.130
Contingency	-0.073	0.115	1.480	-0.021	1.501
Construction Management	0.020	0.025	0.020	0.000	0.065
<b>Total Project Costs</b>	<b>0.925</b>	<b>0.300</b>	<b>2.100</b>	<b>0.040</b>	<b>3.365</b>
<u>Spending</u>					
Total Current Spending	<b>(1.150)</b>	<b>(0.320)</b>	<b>(0.690)</b>	<b>(0.056)</b>	<b>(2.216)</b>
Remaining Spending	0.225	0.020	<b>(0.410)</b>	0.016	<b>(0.149)</b>
<b>Remaining Budget</b>	<b>0.000</b>	<b>0.000</b>	<b>1.000</b>	<b>0.000</b>	<b>1.000</b>

# Agenda Item

**Budgeted:** Yes

**Budget amount:** \$358,750

**Line Item:** PC 17 Tasks 3760-000 and 3763-000

**Legal Counsel Review:** No

**Meeting Date:** October 6, 2016

**TO:** Project Committee 17 Board of Directors  
**FROM:** Betty Burnett, General Manager  
**STAFF CONTACT:** Brian Peck, Director of Engineering  
**SUBJECT:** Award of Engineering Services Contract for the Regional Treatment Plant Underground Piping Reconstruction Preliminary Design

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## Summary

This agenda item provides a recommendation for the award of an engineering services contract to Lee & Ro for the preliminary design the Underground Piping Reconstruction for the Regional Treatment Plant.

## Background

The Regional Treatment Plant (RTP) is a conventional activated sludge treatment plant with a secondary treatment design capacity of 12 million gallons per day (MGD). The plant was constructed in 1982. The plant has had significant problems over the past 20 years with the failure of buried underground piping systems particularly in the vicinity of the Energy Building. The failures have largely occurred with metallic piping systems. Soil conditions at the Regional Treatment Plant are aggressive. Several projects have been completed in recent years to temporarily reroute pipe systems above ground.

Improvements to underground relocation of piping were considered in a Technical Memorandum prepared by CH2MHill as part of the 2013 Facility Plan. This memorandum developed a broad concept for piping relocation at the Regional Plant. This included the relocation of some portion of the piping to an above-ground pipe rack system.

This project involves two preliminary design elements: (1) develop further detail for overall underground piping reconstruction using the CH2MHill technical memorandum as a starting point and (2) reroute two storm drains to terminate within the treatment plant drainage.

## Requests for Proposals

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

- CH2MHill
- Dudek
- Lee & Ro
- MWH
- TetraTech



Proposals were received from Dudek, Lee & Ro, and TetraTech. The remaining firms did not submit indicating that they did not have the resources available to complete the project in the necessary time.

**Discussion/Analysis**

Comparison of Proposals

A summary of the proposals is presented in Table 1.

TABLE 1 - PROPOSAL SUMMARY

<b>Firm</b>	<b>Dudek</b>	<b>Lee &amp; Ro</b>	<b>Tetra Tech</b>
Project Manager	Paul Wilson	Lee Badertscher	Tom Epperson
Project Engineer	Phil Giori	-	Cory Heggveit
Principal	Mike Metts	Dhiru Patel	-
Subconsultants	<ul style="list-style-type: none"> <li>• Bayez &amp; Patel for Structural</li> <li>• Moraes-Pham for Electrical</li> <li>• Yeager Engineering for Corrosion Control</li> </ul>	None	<ul style="list-style-type: none"> <li>• C-Below for Utility Investigation</li> <li>• Pascal &amp; Ludwig for Cost Estimate Support</li> <li>• Pacific Hydrotech for Cost Estimate Support</li> </ul>
Qualifications	Work on the CTP Export Sludge System	Underground projects at multiple treatment facilities	Completed several underground projects at the Regional Treatment Plant
QA/QC	Steve Deering	Sal Calderon	Mark Bush
Total Labor Hours	865	1,241	1,096
Project Schedule	Completion by March 2017	Completion by March 2017	Completion by March 2017
Contract Issues	None	None	None
Proposal Requirement Compliance	Complied	Complied	Complied

The proposed fees for the each firm are as shown in Table 2.

TABLE 2 - PROPOSAL SUMMARY

<b>Firm</b>	<b>Dudek</b>	<b>Lee &amp; Ro</b>	<b>Tetra Tech</b>
Total Fee	\$140,895	\$189,831	\$199,000

The Engineering Committee for Project Committee 17 reviewed each of the proposals. All three proposals were found to be of a very high quality. The Engineering Committee recommended award of contract to Lee & Ro. The basis for the recommendation was the estimate of effort and the experience level of the project staff for Lee & Ro. This preliminary design is expected to result in \$6 million to \$12 million in improvements at the Regional Treatment Plant over the next ten years. The Engineering Committee felt that this long term investment required a meticulous preliminary design effort.

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

**Advisory Committee Review**

Proposals for engineering services for the Regional Treatment Plant Underground Piping Reconstruction Preliminary Design were reviewed by the Engineering Committee on September 8, 2016. Representatives of the Project Committee 17 recommended award of the engineering services contract to Lee & Ro.

**Fiscal Impact**

The budget status of the two impacted task items for Project Committee 17 is presented in Table 3.

TABLE 3 - BUDGET STATUS

Task	Cost Center	Budget	Expended to Date	Proposed Engineering Contract	Remainder
Underground Piping (3760-000)	Common	\$183,750	\$0	\$168,548	\$15,202
Drain Rerouting (3763-000)	Common	\$175,000	\$0	\$21,283	\$153,717
Total		\$358,750	\$0	\$189,831	\$168,919

The allocation of the project cost to the member agencies is presented in Table 4.

TABLE 4 - ALLOCATION OF COST TO MEMBER AGENCY

Task	3760-000	3763-000	Total
El Toro Water District	\$17,293.02	\$4,343.86	\$21,636.89
Emerald Bay Service District	\$556.21	\$125.57	\$681.78
City of Laguna Beach	\$10,567.96	\$2,387.95	\$12,955.91
Moulton Niguel Water District	\$131,686.55	\$12,518.66	\$144,205.21
South Coast Water District	\$8,444.25	\$1,906.96	\$10,351.21
Total	\$168,548.00	\$21,283.00	\$189,831.00

The project ledger is presented in Exhibit B.

**Recommendation**

The following action is recommended:

- Approval of the award of the engineering services contract to Lee & Ro at a fee of \$189,831.00.

EXHIBIT A  
SCOPE OF SERVICES

The tasks to include the following:

- I. Overall Piping Reconstruction
  - A. Project Management. FIRM shall conduct four progress meetings at the Regional Treatment Plant.
  - B. Document Review. FIRM shall review all applicable drawings and existing documentation for applicable underground piping systems. FIRM shall interview SOCWA staff to obtain failure and repair history. FIRM shall also interview SOCWA staff to determine each system criticality with consideration of how long each system can be out of services.
  - C. Underground Piping System Base Map. FIRM shall prepare map of underground utilities. The map is intended to be schematic as opposed to dimensionally accurate. Map shall show location of key electrical duct banks.
  - D. Aboveground Piping Routing. FIRM shall evaluate options for location of above-ground pipe racks. FIRM shall evaluate routing based on constructability, access, interference with existing utilities, vulnerability and proximity to fence line. FIRM shall prepare plan showing location of proposed above ground piping,
  - E. Replacement Matrix. FIRM shall prepare matrix identifying action for each piping system. (a) piping to remain, (b) piping to be replaced underground, and (c) piping to be replaced above ground. FIRM shall identify rationale for selected option. FIRM shall review with SOCWA staff before finalizing.
  - F. Construction Cost Estimate. FIRM shall prepare preliminary design level cost estimate for each project element.
  - G. Construction Packages. FIRM shall organize reconstruction into a series of construction packages. FIRM shall identify cost associated with each package. FIRM shall identify key predecessor events for each item. FIRM shall prepared schedule in Microsoft Project for each of the packages.
  - H. Technical Memorandum. FIRM shall present results in a technical memorandum.
- II. Overall Piping Reconstruction
  - A. Document Review. FIRM shall review existing plans for drains, Effluent Equalization Pond and any related infrastructure.
  - B. Alternatives. FIRM shall develop two alternatives for the drains: (1) pump and non-pumping. FIRM shall prepare conceptual plan and profile for each option. FIRM shall identify source of power and control/monitoring. FIRM shall identify routing of new conduit. FIRM shall identify any significant crossings of other utilities. FIRM shall identify repairs needed to existing facilities.
  - C. Construction Cost Estimate. FIRM shall prepare budgetary cost estimate for project.
  - D. Technical Memorandum. FIRM shall present results in a technical memorandum.

Exhibit B  
 Project Cost Ledger: Regional Treatment Plant  
 Underground Piping Reconstruction  
 (Millions)

	Buried Piping Reconstruction	Rerouting Drains	Total
<b><u>Budget (2016/17)</u></b>	<b>0.184</b>	<b>0.175</b>	<b>0.359</b>
<b><u>Budget Task Codes</u></b>	<b>3760-000</b>	<b>3763-000</b>	
<u>Construction</u>	0.000	0.125	0.125
<u>Construction Change</u>			
<u>Orders</u>	0.000	0.000	0.000
<u>Preliminary Design</u>	0.169	0.021	0.190
<u>Design</u>	0.000	0.025	0.025
Contingency	0.015	0.004	0.019
Construction Management	0.000	0.000	0.000
<b>Total Project Costs</b>	<b>0.184</b>	<b>0.175</b>	<b>0.359</b>
<u>Spending</u>			
Total Current Spending	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>
Remaining Spending	<b>(0.184)</b>	<b>(0.175)</b>	<b>(0.359)</b>
<b>Remaining Budget</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>

# Agenda Item

**Budgeted:** Yes

**Budget amount:** \$1,399,000

**Line Item:** PC2 &17 Line 5049

**Legal Counsel Review:** Yes

**Meeting Date:** October 6, 2016

**TO:** SOCWA Technical Advisory Committee  
**FROM:** Betty Burnett, General Manager  
**SUBJECT:** Biosolids Management Strategic Plan Update

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## Background

The purpose of this Plan update is to reevaluate and update the strategic direction of SOCWA's Biosolids management program.

The original Biosolids Management Strategic Plan for SOCWA was completed in 2002. The current version of the Biosolids Management Strategic Plan was adopted in 2006. The 2006 adoption took place at a time of transition for SOCWA. In 2006, Biosolids management appeared unstable. This is because SOCWA's primary contract, with Synagro in Corona, was no longer an option due to that facility closing, and other composting options in Riverside County were also pending closure or closing.

Forward to 2016, the Biosolids market has been adding composting opportunities over the past few years. That said, the future of Biosolids management will be reshaped by the following outstanding issues:

- Continuing litigation regarding potential Biosolids bans in Kern County with no resolution anticipated by either party. This issue could affect the management of about 60 percent of the southern California Biosolids.
- Organics/Biosolids bans from landfills starting as early as 2020 but fully anticipated by 2025. This issue will eventually eliminate SOCWA's current lowest cost management option.

## Discussion

The goal of this updated Plan is to maintain a sustainable, reliable, and economical program to manage Biosolids. In that light, SOCWA's Technical Advisory Committee(TAC) had a workshop to discuss the Plan's update.

In the past, the Plan had the following Policy guidance:

- SOCWA maintains control over its Biosolids program.
- Continue to seek both reuse and disposal within the County.
- Limit increased impacts to the neighbors surrounding the treatment plants.
- Adhere to environmentally sound practices.
- Equally consider environmental and long term economic responsibilities to the rate payers.
- Update Plan every 2 years.

The updated Policy guidance from the TAC for this Plan is as follows:

- SOCWA maintains control over its Biosolids program.
- Continue to monitor Biosolids management options through our affiliates (SCAP and CASA) within the local region. This includes financial and regulatory vulnerabilities to existing Biosolids management options.
- Limit increased impacts to the neighbors surrounding the treatment plants.
- Adhere to environmentally sound practices and equally consider long-term economic responsibilities to the ratepayers.
- Update the Plan every 5 years, when events occur that require the Plan to be updated to stay relevant, or one (1) year prior to the issuance of a new major Biosolids Request for Proposals.
- Biosolids management planning should include contingency planning to minimize impacts to SOCWA from sudden changes in the Biosolids market.

This updated policy guidance also includes some recommended implementation measures to be employed by SOCWA staff when implementing these policy statements including the following:

- SOCWA facilities planning for onsite driers, and other onsite technologies, will be conducted within the facilities planning documents to allow for an inclusive look at the full impact of locating new onsite technologies at the existing treatment plant sites. Technologies will be developed and assessed taking into account the geographic and local constraints of each site. The Biosolids Management Strategic Plans will focus on residuals management taking into account the results of facilities planning.
- The long-range facilities plans should include capital improvements to allow SOCWA to consistently produce Class B Biosolids instead of Sub-Class B by increasing Digester capacities. This will better position SOCWA toward the national trend of Class B Biosolids market.
- SOCWA will maintain at least three (3) management options for each treatment plant.
- SOCWA will continue to meld the overall Biosolids management costs for all the PC's This is as long as one PC is not causing additional Biosolids management costs due to treatment plant capital constraints

The TAC also recommended that these updates be in the form of an Addendum to the 2006 Biosolids Management Strategic Plan versus an entire Plan update.

The TAC also reviewed the recent proposals received from SOCWA's Request for Proposal 16-001 Open Options (On & Offsite) Biosolids Management Services. These proposals were reviewed and considered as a part of the update to the plan. The TAC utilized the RFP results in formulating the recommended updates in Plan policy objectives. The TAC was in concurrence to recommend a contract award at the November 2016 Board meeting, pending the Board's review of the TAC recommendations on policy objectives.

### **Fiscal Impact**

This is an informational item.

**Requested Action**

Review information and policy discussion of Technical Advisory Committee's recommendations.

# Agenda Item

**Legal Counsel Review:** No

**Meeting Date:** October 6, 2016

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

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## Operations & Maintenance

### Recycled Water Production Trends at CTP and RTP

SOCWA produced 2.1 billion gallons of recycled water in Fiscal Year 2015-16 (FY15-16). The average uptime of the AWT treatment plants was 99.3 percent for the Coastal Treatment Plant (CTP) and 96.3 percent for the Regional Treatment Plant (RTP). The warmer months for FY15-16 were considered the months of May thru September. During the warmer months, plant uptime was slightly higher because maintenance activities are scheduled during the cooler months. The warmer month up times were 99.1 percent at CTP and 97.6 percent at RTP.

### Coastal Treatment Plant

Coastal Treatment Plant (CTP) has increased recycled water production by 24 percent over the past five years. Also, recycled water deliveries are now year round. AWT operations used to shut-down for 2 to 3 months during the cooler months. The expanded period of delivery coincides with South Coast Water District's (SCWD) expansion of the recycled water system. This also coincides with SCWD completion of the Aliso Creek Water Recovery Facility, which produces a benefit of a lower salinity recycled water product.

SCWD's recycled water production can now exceed its wastewater flows to CTP in the warmer months. SCWD continues to expand their recycled water system and will likely continue to exceed it's inflow effluent to CTP in more months of the year. The Project Committee No. 15 (PC15) agreements require that SCWD enter into an agreement for the use of the City of Laguna Beach/Emerald Bay inflow effluent. Based on SCWD's recycled water planning, SCWD could use nearly all the flow at CTP in the future. The design of the AWT plant was for 90 percent uptime and SOCWA operations have been in the high 90's. The City of Laguna Beach (CLB)/Emerald Bay has expressed a desire to reserve use of inflow effluent for the future when (in) direct potable reuse becomes within regulatory feasibility for the CTP. SCWD and CLB are meeting to discuss options.

SCWD expansions over the past five years have posed some new challenges for SOCWA staff in operating and maintaining the recycled water plant facilities. SCWD's demands limit that amount of time available for planned maintenance. It has also increased the priority of repairs of the recycled water system related areas at the treatment plant.

The end result is that operation, planned maintenance and unplanned maintenance activities require a high level of coordination with SOCWA and SCWD.

### Regional Treatment Plant

Regional Treatment Plant (RTP) has decreased recycled water production by 19 percent over the past five years largely due to the lowering of effluent inflows (due to conservation). However, recycled water deliveries continue year round. In the past, recycled water deliveries were well below the total flow that Moulton Niguel Water District (MNWD) sent to the RTP, but



MNWD's demands now exceed the flows at RTP during the warmer months. Thus, there is little ability to catch up after process interruptions in either the SOCWA or MNWD systems.

SOCWA staff is observing that MNWD is regularly taking far more water from SCWD's system and is drawing down and refilling the Oso Reservoir much more frequently and in shorter time periods. This has put more pressure on the RTP recycled water system. The design of the plant was for 90 percent uptime and SOCWA operations have been between 96 percent to 97 percent uptime.

MNWD's intense demands and planned recycled water expansions have posed some new challenges for SOCWA staff in maintaining the recycled water facilities. MNWD's demands limit that amount of time available for planned maintenance even in the cooler months. They also have increased the priority of repairs of the recycled water plant over other repairs at the treatment plant. Agency staff are working together to ensure that operation, planned maintenance and unplanned maintenance activities are closely coordinated.

### Disposable Wipes

SOCWA will be registering with the National Association of Clean Water Agencies (NAWCA) as supporting the international position statement on non-disposable wipes. The goal of the position statement is to prevent sewer system blockages and environmental pollution caused by non-disposable wipes. This statement is as follows:

*To prevent problems with sewer systems, pipe and toilet blockages, and the human and environmental cost of sewer overflows and pollution, the organizations signing this statement agree that:*

- *Only the 3 Ps – pee, poop, and toilet paper – should be flushed.*
- *Currently, all wipes and personal hygiene products should be clearly marked as “Do Not Flush” and be disposed of in the trash can.*
- *Wipes labeled “Flushable” based on passing a manufacturers’ trade association guidance document should be labelled “Do Not Flush” until there is a standard agreed to by the water and wastewater industry.*
- *Consumers of wipes and personal hygiene products must be given clear and unambiguous information about appropriate disposal methods.*
- *Looking to the future, new innovations in materials might make it possible for certain products to be flushed, if they pass a technical standard that has been developed and agreed to by the water and wastewater industry\*. Preferably this standard would be developed under the banner of the International Standards Organization (ISO).*
- *Key requirements for any standard include that the product:*
  - a. *breaks into small pieces quickly;*
  - b. *must not be buoyant; and*
  - c. *does not contain plastic or regenerated cellulose and only contains materials which will readily degrade in a range of natural environments.*

*\*and in compliance with local legislative requirements*

### Odor Complaints at Regional Treatment Plant

There is a new resident near the Regional Treatment Plant that has been calling regularly about odors from RTP. Staff continues to work with the resident to understand the exact timing and

locations of the reported odors. Their descriptions of the timing and locations of the potential odors are changing over time based on our discussions.

Staff continues to regularly monitor the treatment plant and the surrounding community for odors. There are 17 locations in and around the treatment plant that are monitored at least twice a week. Sulfur Creek continues to be a historic source of odors in the surrounding valley. Staff has been in regular communication with MNWD staff when odors are detected in the incoming flow from the sewer from King's Road. The agencies' staff have discussed the opportunities to reduce the odors at this location. This is another historic odor source that requires regular attention in the form of sewer cleaning. Staff continues to go through the treatment plant each day to recheck for potential odor sources. We have also been communicating regularly with the SCAQMD inspector for RTP site.

Some additional steps staff is in the process of taking include:

- Continuous monitoring of the foul air scrubbers with new instrumentation.
- Continuous monitoring at key locations around the treatment plant with new instrumentation.
- Monitoring of the collection systems entering the plant.
- Monitoring MNWD sewer manholes just outside the treatment plant boundary.
- Working with the City of Laguna Niguel to request continuous monitoring of Sulfur Creek and the Sulfur Creek reservoir.
- Working with MNWD to increase cleaning of the sewers into the treatment plant.
- Meeting with MNWD staff to understand the possibility of reducing odors in the collection system prior to the sewers entering the plant.

## **Environmental Compliance**

### **Change in Recycled Water Regulatory Oversight for IRWD Service Area**

On September 19, 2016, the Santa Ana Regional Water Quality Control Board (Region 8) formally provided written notice that the San Diego and Santa Ana Regional Boards have agreed that the Santa Ana Regional Board will be the sole Regional Board to regulate the recycled water discharge and distribution requirements for Irvine Ranch Water District's Water Recycling Plants. IRWD requested this change because only a very small portion of their recycled water service area falls within the San Diego Region 9 water board boundary, and less than 2 percent of the recycled water distributed each year by IRWD is used in the San Diego Region 9 service area. In June 2015, IRWD received a new NPDES permit order R8-2015-0024 covering recycled water activities for both Michelson and the Los Alisos Water Reclamation Plants from the Santa Ana Water Quality Control Board Region. The Agreement will become effective once IRWD's coverage under SOCWA Order 97-52 has been terminated and amendments to R8-2015-0024 are executed.

The current SOCWA Master Recycled Water Permit was issued in 1997, and as such, it is outdated in many ways that could restrict member agency ability to expand recycled water uses. Over the past year, SOCWA has been working with Member Agency representatives on a Report of Waste Discharge (an application for permit renewal) for the SOCWA Master Recycled Water Waste Discharge Permit from the San Diego Regional Board. SOCWA submitted the Report of Waste Discharge to the San Diego Regional Board on September 14, 2016 and is awaiting comments from the San Diego Regional Board staff

### Environmental Laboratory Accreditation Program – Proposed changes to Laboratory Standards

On September 20, 2016, the State Water Board announced an extension to the comment period for proposed changes to the State's laboratory quality control standards. The original comment period provided a scant 7.5 days for stakeholders to comment on significant changes to laboratory standards. Additionally due to proprietary issues the proposed new standards were not readily available for stakeholder review through this process, and instead had to be purchased from the National Environmental Laboratory Accreditation Commission (The NELAC Institute, TNI). Needless to say it's highly unusual for a state regulatory agency to provide so little time to comment and have limited access to proposed regulations.

Due to significant stakeholder objection, the State Board extended the comment period to October 20, 2016. The TNI Standards were originally developed in the 1990s to provide a quality control framework for commercial laboratories generating laboratory compliance results for states outside the laboratory's home state. The TNI Standards contain over 500 requirements for lab compliance. The lab accreditation audit form can be over 85 pages. Additionally, the 2016 TNI Standard requires the separation of duties in the following laboratory positions: Laboratory Director, Quality Control Manager, and Procurement Manager, this requirement alone would be extremely burdensome to small utility laboratories. When these requirements were implemented in New York and Florida, many small utility laboratories closed down.

SOCWA provided a comment letter the Water Board expressing SOCWA concerns about these proposed regulation changes on September 14, 2016. SOCWA also provided information and a sample comment letter to member agencies that would be affected by the proposed changes. Staff will continue to track the laboratory standards regulatory process and comment as appropriate.

### Recycled Water Filling Stations

Last summer, in response to the statewide emergency requirements to reduce per capita domestic water use, the South Coast Water District (SCWD) like many recycled water agencies in the State sought the ability to provide and increase use of recycled water for certain outdoor applications. As background, the Dublin San Ramon Service District installed the first recycled water residential customer fill station in 2014 and recently added a second residential fill station to meet demand. However, the South Coast Water District wanted the ability to use recycled water filling stations for their internal water uses, as well as providing recycled water to customers, specifically, the City of Dana Point to maintain the City's park landscaping during mandatory watering restrictions.

A regulatory process developed in the San Diego Region in response to several requests for approval recycled water filling stations. The regulatory process established permit provisions and engineering controls for, recycled water filling stations, recycled water hauling, and use of recycled water from fill stations. SOCWA engaged in the regulatory process with San Diego Regional Water Board, San Diego County Health Department, Division of Drinking Water, Orange County Health Department and the San Diego County Water Authority. This process resulted in a set of guidelines for producing the required the Recycled Water Engineering Report as well as a list of permit provisions needed to support the use of recycled water filling stations. SOCWA completed the Engineering Report for the Use of Recycled Water Filling Stations, filed, and received permit coverage under the Statewide General Order for recycled water filling station use for the SCWD on October 5, 2015. As a result of this effort SCWD was able to supply 3.05 acre feet of recycled water to the City of Dana Point to maintain park landscaping in 2015.

### Update Status on Direct Potable Reuse

Two California legislative bills are driving the increased interest in direct potable reuse (DPR): Senate Bill 918 (SB 918) & Senate Bill 322 (SB 322). The following are summaries of the mandates of each bill and a short description on the proposed future of DPR based on information from the September 19, 2016 WateReuse Meeting. Generally SB 918 provided the foundation for an engineering and scientific feasibility analysis whereas the SB 322 builds on that framework with an additional inclusion of open meeting requirements and an advisory panel to guide the expert panel directed in SB 918.

### **Bill Summaries**

- SB 918 was enacted in 2010 by the California legislature and added sections 13560-13569 (Division 7, Chapter 7.3) to the California Water Code. SB 918 defined the term 'direct potable reuse' in Section 13561 as: 'the planned introduction of recycled water either directly into a public water system, as defined in Section 116275 of the Health and Safety Code, or into a raw water supply immediately upstream of a water treatment plant.' SB 918 directed the California Department of Public Health (now the Division of Drinking Water - DDW) to investigate the feasibility of developing uniform water recycling criteria for DPR. This bill also directed the DDW to convene an expert panel to study the technical and scientific issues and provide a full report to the Legislature by December 31, 2016.

The draft report is now available to view online:

- [http://www.waterboards.ca.gov/drinking\\_water/certlic/drinkingwater/documents/rw\\_dpr\\_criteria/draft\\_report\\_to\\_legislature\\_dpr\\_public\\_review.pdf](http://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/documents/rw_dpr_criteria/draft_report_to_legislature_dpr_public_review.pdf)
- SB 322 amended Chapter 7.3 of the California Water Code to require an advisory panel group subject to the Bagley-Keene Open Meetings Act to advise the expert panel and the State Water Board in the development of the report mandated in SB 918.

### **WateReuse Meeting**

On September 21, 2016 the WateReuse Foundation hosted a meeting at the City of Vista to convene the expert panel, advisory panel, and staff from the RWQCB, SWRQB, and DDW to discuss the technical report. The meeting led to a few key discussion points that staff from all agencies felt needed to be addressed before providing regulatory criteria for permitting DPR systems. Those key discussion points are indicated below:

- There are two types of pre-runners to the DPR projects: indirect potable reuse (IPR) with groundwater replenishment and indirect potable reuse using surface water augmentation.
- A key question from the research convened by the expert panel is what is the appropriate environmental buffer in IPR to DPR projects? Environmental buffers are considered a holding area for the recycled water to enter into before it is delivered directly to customers. Buffer areas allow for retention time, testing and verification of water quality.
- There are three models of DPR being reviewed thus far: (1) projects that take full advanced water treatment and put that into a small environmental buffer (shorter retention time in the buffer) then send the water to a surface water treatment plant and ultimately distribute it to a potable water system; (2) projects described in the first

scenario but without an environmental buffer: and (3) projects without an environmental buffer or surface water treatment plant (the flange to flange DPR process).

- SWRQCB staff indicated they will be moving very slowly in developing regulations but that movement did not necessarily preclude the ability of utilities to move forward with DPR projects.
- An advisory panel representative wanted to stress that careful progress forward should be made toward development of the entire flange to flange regulatory permitting criteria, since it is deemed the most robust and technically challenging program that needs to be accomplished.

### **Human Resources**

#### **Welcome SOCWA's new Operators-in-Training – Garrett Nuzzo**

Staff is pleased to welcome Mr. Garrett Nuzzo as an Operator-in-Training at our Coastal Treatment Facility. Mr. Nuzzo comes to SOCWA from Los Angeles County Sanitation District. Mr. Nuzzo has already passed his Grade I and II Wastewater Operator examinations and plans to take the Grade III in October.

#### **Negotiations for Memorandum of Understanding**

SOCWA's Management has started preparations for the upcoming Employee Association's negotiations for the Memorandum of Understanding. A survey questionnaire has been sent out to the member agencies along with five other water districts. Many agencies are working on updates to either personnel policies or to MOUs and any information that your agency would like to see SOCWA consider would be appreciated in sharing with us.

#### **Computer Equipment - U-Haul Storage Unit**

Travelers Insurance has sold the computer equipment that was stored in the U-Haul storage unit. The equipment was removed from the storage unit on August 4, 2016. Travelers Insurance will be reimbursing SOCWA the storage unit fees for May, June and July of 2016 in the amount of \$629.70.