

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

Thursday, August 4, 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 Regular Board Meeting of June 2, 2016.....1

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

B. Minutes – Finance Committee April 19, 2016.....8

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

C. Minutes – Engineering Committee June 9, 2016.....11

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

D. Minutes – Engineering Committee May 12, 2016.....18

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

E. Minutes – Engineering Committee April 14, 2016.....22

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

F. Approval of Financial Matters.....29

ACTION: The Board will be requested to approve financial summaries for October 2014.

FISCAL IMPACT: Please refer to staff report.

- a) Summary of Disbursements (Exhibit A)
- b) Schedule of Funds Available for Reinvestment (Exhibit B)
- c) Schedule of Cash and Investments (Exhibit C)
- d) Capital Schedule (Exhibit D)
  - Capital Projects – Graph (Exhibit D-1)

G. Operations Reports.....35

- a) Operational Report – June 2016.....36
- b) Ocean Outfall Discharges by Agency.....43
- c) Quarterly Report on Key Operational Expenses.....45
- d) Safety Update – FY 2015-16.....52
- e) Beach/Ocean Monitoring Report.....54
- f) Compliance Update for Recycled Water Permit, Quality Summary, Production Report.....76
- g) Pretreatment Report.....80
- h) Capital Improvement Program Status Report.....84

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

FISCAL IMPACT: None.

H. Resolution No. 2016-06 – Commendation for Michael Kennedy.....97

ACTION: Staff recommends the Board approve Resolution No. 2016-06 and authorize the Chairman Dan Ferons, to sign the Commendation on the behalf of the Board of Directors of the South Orange County Wastewater Authority.

FISCAL IMPACT: None.

5. ENGINEERING MATTERS

- A. Aliso Creek and San Juan Creek Ocean Outfalls Emergency Response Plan – Award of Engineering Services Contract to Black & Veatch.....99

ACTION: Board will be requested to approve the award of the engineering services contract to Black & Veatch at a fee of \$74,700.

FISCAL IMPACT: Refer to staff report

6. GENERAL MANAGER’S REPORT

- A. Biosolids Management Program Status Report.....103

ACTION: Information item.

FISCAL IMPACT: Refer to staff report

- B. SOCWA Policies on Agency Representation via Weighted Voting.....107

ACTION: 1) Board review and discuss of opportunities and policies  
2) Discussion of approach and information needed for a meaningful resolution to stranded capacity issues.

FISCAL IMPACT: Please refer to staff report.

- C. SOCWA Administrative Costs – Next Step – Services proposals.....109

ACTION: Board to consider service proposals to assist SOCWA in setting a “fair share” administrative expense allocation based on value received by member agencies from SOCWA.

FISCAL IMPACT: Refer to staff report

- D. General Manager’s Status Report.....113

ACTION: The Board will review the General Manager’s Status Report:

- Board Questions
- Receive and file

FISCAL IMPACT: Refer to staff report.

7. 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.]

8. ADJOURNMENT

NOTE - THE NEXT REGULAR SOCWA BOARD MEETING WILL BE HELD AT  
8:30 A.M. ON SEPTEMBER 1, 2016

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

**Board of Directors**

**June 2, 2016**

The Regular Meeting of the South Orange County Wastewater Authority (SOCWA) Board of Directors was held on Thursday, June 2, 2016 at 8:30 a.m. at the Administrative Offices located at 34156 Del Obispo Street, Dana Point, California. The following members of the Board of Directors were present:

DAN FERONS, Santa Margarita Water District	Vice Chairman
SCOTT GOLDMAN, El Toro Water District	Director
RAY MILLER, City of San Juan Capistrano	Director
JOONE LOPEZ, Moulton Niguel Water District	Director
DOUG REINHART, Irvine Ranch Water District	Director
MIKE DUNBAR, Emerald Bay Water District	Chairman
RICK ERKENEFF, South Coast Water District	Director
STEPHAN DOPUDJA, Trabuco Canyon Water District	Director
BILL CAMERON, City of San Clemente	Director

Absent:

TONI ISEMAN, City of Laguna Beach	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	Environmental Compliance Administrator
JIM BURROR	Director of Operations
MARY CAREY	Finance Controller
DINA ASH	Human Resource Analyst
TERI NOSON	Executive Assistant/Assistant Secretary

Also present:

DONALD FROELICH	Moulton Niguel Water District
TREVOR AGRELIUS	Moulton Niguel Water District
FRED ADJARIAN	El Toro Water District
DENNIS CAFFERY	El Toro Water District
HECTOR RUIZ	Trabuco Canyon Water District
DENNIS ERDMAN	South Coast Water District
RICK SHINTAKU	South Coast Water District
JIM REED	Irvine Ranch Water District
RICHARD GARDNER	Public

Chairman Dunbar called the meeting to order at 8:30 a.m. and welcomed everyone present. Director Miller led the Pledge of Allegiance to the Flag of the United States of America.

**Oral Comments**

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

Mr. Peck requested that item E. Change Order – Butier Engineering Construction Management Contract [PC17] be removed from the consent calendar for discussion.

Chairman Dunbar requested that item B. Approval of Financial Matters be removed from the consent calendar for discussion.

**ACTION TAKEN**

Motion was made by Director Miller and seconded by Director Ferons to approve the items under the consent calendar sans items E. Change Order – Butier Engineering Construction Management Contract [PC17] and B. Approval of Financial Matters.

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

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

**B. Approval of Financial Matters**

Chairman Dunbar referenced Exhibit C - Schedule of Cash and Investments on page 9 of the Agenda book and requested Ms. Carey to provide clarity regarding the negative numbers in the totals for PC 2 and PC 17.

Ms. Carey reported that the invoices were submitted two (2) months late for Capital due to a late payment from member agency MNWD of \$2.5m.

**E. Change Order – Butier Engineering Construction Management Contract [PC17]**

Mr. Peck referenced page 58 of the Agenda book and reported that without a new budget this item could not be approved and requested that the item be tabled until the July 2016 Board of Directors meeting.

**ACTION TAKEN**

Motion was made by Director Ferons and seconded by Director Goldman to approve item B. Approval of Financial Matters and table item E. Change Order-Butier Engineering Construction Management Contract [PC17] to the July 2016 Board of Directors meeting.

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

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

**Election of Officers – Reporting of Nominating Committee**

Chairman Dunbar reported that Nominating Committee recommended Director Ferons for SOCWA Chairman and Director Iseman as Vice Chairman.

**ACTION TAKEN**

Motion was made by Director Miller and seconded by Director Reinhart to elect Director Ferons as the SOCWA Board of Directors Chairman and Director Iseman as the SOCWA Board of Directors Vice Chairman.

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

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

**ACTION TAKEN**

Motion was made by Director Cameron and seconded by Director Miller to appoint the General Manager to serve as SOCWA Secretary/Treasurer and the Executive Assistant to serve as the Assistant Secretary.

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

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

**Appointments to the Finance and Executive Committee**

Chairman Ferons reported the appointments to the Finance Committee and Executive Committee.

Finance Committee: Dennis Erdman – Chair [SCWD], Fred Adjarian [ETWD], Toni Iseman [CLB], Ray Miller [CSJC], Joone Lopez – [MNWD] and Dan Ferons [SMWD]

Executive Committee: Dan Ferons – Chair [SMWD], Mike Dunbar [EBSD], Toni Iseman [CLB] and Joone Lopez [MNWD].

ACTION TAKEN

There being no objection Chairman Ferons directed Finance Committee and Executive Committee appointments to be received and filed.

**Operations Project Update and Budget Carryover to FY 16-17 [PC15&17]**

ACTION TAKEN

Motion was made by Director Erkeneff and seconded by Director Dunbar to approve the carryover of the remaining of unspent funding from line items for FY 2015-16 to FY2016-17 for completing the Landscape Fuel Modifications projects at RTP & CTP and for the SCADA and W-Fi Upgrades project at CTP.

Motion carried:	Aye 4; Nay 0; Abstain 0; Absent 1
	Director Goldman                      Aye
	Director Lopez                         Aye
	Vice Chairman Iseman                Absent
	Director Dunbar                        Aye
	Director Erkeneff                      Aye

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

ACTION TAKEN

Motion was made by Director Lopez and seconded by Director Dunbar to table the adoption of the budget, and continue to have the discussion and a resolution on the allocation with the goal to adopt the resolution at a Special Board of Directors meeting before the end of June.

Motion carried:	Aye 9; Nay 0; Abstain 0; Absent 1
	Chairman Ferons                        Aye
	Director Goldman                      Aye
	Director Ray Miller                    Aye
	Director Lopez                         Aye
	Director Reinhart                      Aye
	Vice Chairman Iseman                Absent
	Director Dunbar                        Aye
	Director Erkeneff                      Aye
	Director Dopudja                      Aye
	Director Cameron                     Aye

**Zephyr Agreement – Use of Storm Water Pump Station, 34202 Del Obispo Development [PC2]**

**ACTION TAKEN**

None. Information item.

**J.B. Lathem Treatment Plant SCADA Infrastructure Upgrade Project [PC2]**

**ACTION TAKEN**

Motion was made by Director Lopez and seconded by Director Miller to authorize the General Manager to execute the agreement with Tesco Engineering to upgrade the SCADA infrastructure at JBLTP for \$129,365 upon adoption of the SOCWA Budget.

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

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

**Service Agreement – Townsend Public Affairs**

**ACTION TAKEN**

Motion was made by Director Cameron and seconded by Director Lopez to table the Service Agreement to Townsend Public Affairs until the approval of the SOCWA budget.

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

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

**Card Access Security Expansion at J.B. Lathem [PC2]**

**ACTION TAKEN**

Motion was made by Director Erkeneff and seconded by Director Miller to approve a five-year contract with Stanley Convergent Security Solutions for an amount not to exceed \$129,395 for equipment installation with the additional monthly fee of \$2,447 for alarm monitoring. The Board directed staff to review and adjust the monitoring contract to ensure the necessary areas are monitored, and to review the entire site's security program with a carryover of unspent project funding into the following fiscal year to complete the work.

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

Chairman Ferons	Aye
Director Miller	Aye



Director Lopez                   Aye  
Director Erkeneff               Aye

**General Manager's Report**

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

**ACTION TAKEN**

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

**Other Matters**

Chairman Ferons asked if there were any more questions or comments from the Board. Director Lopez referenced a memorandum from SOCWA legal counsel regarding a PERS matter, and requested that the PERS matter be submitted as a closed session item at the upcoming Board meeting.

**Adjournment**

There being no further business, Chairman Dunbar adjourned the meeting at 10:25 a.m.

I HEREBY CERTIFY that the foregoing Minutes are a true and accurate copy of the Minutes of the Regular Meeting of the South Orange County Wastewater Authority Board of Directors of June 2, 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**

June 2, 2016

<b><u>DESCRIPTION</u></b>	<b><u>MOTION MADE BY</u></b>	<b><u>ACTION</u></b>
Consent Calendar	Miller	Approved
Consent Calendar Items B and E	Ferons	Approved
Election of Chair and Vice Chair	Miller	Approved
Election of Secretary/Treasurer and Assistant Secretary	Cameron	Approved
Operations Project Update and Budget Carryover to FY 16-17 [PC15 & 17]	Erkeneff	Approved
JBLTP - SCADA Infrastructure Upgrade Project [PC2]	Lopez	Approved
Card Access Security Expansion – JBLTP [PC2]	Erkeneff	Approved
Service Agreement – Townsend Public Affairs	Cameron	Tabled
Resolution No. 2016-05 – Approval of FY 2016/2017 Operating & Capital Improvement Budget	Lopez	Tabled

**MINUTES OF SPECIAL MEETING  
OF THE  
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY  
Finance Committee  
April 19, 2016**

The Special Meeting of the South Orange County Wastewater Authority (SOCWA) Finance Committee Meeting was held on Tuesday, April 19, 2016 at 10:30 a.m. at their Administrative Offices located at 34156 Del Obispo Street, Dana Point, California. The following members of the Executive Committee were present:

JOONE LOPEZ	Moulton Niguel Water District
TONI ISEMAN	City of Laguna Beach
FRED ADJARIAN	El Toro Water District
DENNIS ERDMAN	South Coast Water District
DAN FERONS	Santa Margarita Water District

Absent:

RAY MILLER	City of San Juan Capistrano
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Staff Present:

BETTY BURNETT	General Manager/Secretary
MARY CAREY	Finance Controller
JIM BURROR	Director of Operations

Also Present:

ERICA CASTILLO	Santa Margarita Water District
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Chairman Iseman called the meeting to order at 10:31 a.m. and welcomed everyone present. Chairman Iseman announced that Director Erdman was appointed as the new Chair of the Finance Committee to become effective immediately. Following the announcement Director Erdman assumed the position of Chair.

**Public Comments**

There were no public comments.

**Approval of Minutes**

**ACTION TAKEN**

Motion was made by Director Iseman and seconded by Director Ferons to approve the March 18, 2016, Finance Committee Meeting minutes as submitted.

Motion carried:	Aye 5; Nay 0; Abstain 0; Absent 1
	Director Lopez           Aye
	Director Erdman        Aye
	Director Miller         Absent
	Director Ferons         Aye
	Director Iseman         Aye
	Director Adjarian       Aye

## **Approval of Financial Matters**

### **ACTION TAKEN**

Motion was made by Director Erdman and seconded by Director Iseman to approve the Summary of Disbursements in the amount of \$3,863,337 for the period of February 1, 2016 through February 29, 2016, and to receive and file the February 29,, 2016 Financial Reports.

Motion carried:	Aye 5; Nay 0; Abstain 0; Absent 1
Director Lopez	Aye
Director Erdman	Aye
Director Miller	Absent
Director Ferons	Aye
Director Iseman	Aye
Director Adjarian	Aye

## **FY 2016-17 Budget Status Report**

### **ACTION TAKEN**

Ms. Carey reviewed with the Finance Committee the latest drafts of the budget. She reported that meetings were held with agency Finance Managers over the last two weeks, and questions have been received from MNWD. Ms. Carey will release the next draft of the budget for review to the Finance Managers and answers to questions asked by Thursday, April 21, 2016. Discussion ensued with Committee Members asking questions about the differences between the line items for the FY 2015-16 Budget, the Mid-Year (where additional expenditure line items were added for clarification) and the proposed 2016-17 line items, which will follow the same format as the Mid-Year. Staff also discussed the impact to the Budget from the outcome of the Allocation Workshops and comparative reports will be provided. Committee Member Lopez asked for clarification on the process of staff submitted funding requests and staff responded that for some line items estimates are provided for needs in advance of actual pricing for services or selection of potential vendors. Staff is providing detail on the line items in the Administration Budget and where specific spending for individual Plants is anticipated it is budgeted for in the O&M Budget. Ms. Carey indicated that the next draft of the budget would include 2016-17 Budget by quarter and a projection of 4 years 2017-2020/21. There being no objection the Chairman directed staff to proceed to issue the next updates to the draft budget to the Finance Managers and prepare for the Board Workshop on the Budget in mid-May, 2016.

## **FY 2014-15 Audit Report**

### **ACTION TAKEN**

Ms. Carey provided an update on the 2014-15 Audit noting that the complete revision of the Blackbaud System this past year had produced additional information on financial cleanup including the addition of fixed assets into the system. This additional information has created additional time in the schedule needed for the Auditors to review. Ms. Carey indicated that

Audit should be ready by June 30, 2016. There being no objection the Chairman directed staff to complete the Audit.

**Adjournment**

There being no further business, Chairman Erdman adjourned the meeting at 12:15 p.m.

I HEREBY CERTIFY that the foregoing Minutes are a true and accurate copy of the Minutes of Special Meeting of the South Orange County Wastewater Authority Executive Committee of April 19, 2016, and approved and ratified 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**

**June 9, 2016**

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

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

Absent:

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

Staff present:

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

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

**Public Comments**

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

**ACTION TAKEN:**

No action required.

**Review/Approval of Meeting Minutes – April and May 2016**

**ACTION TAKEN:**

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

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

**Operations Report**

**DISCUSSION:**

Mr. Burror presented the operations report:

**ACTION TAKEN:**

No action was necessary for this item.

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

**DISCUSSION:**

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

**ACTION TAKEN:**

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

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

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

**DISCUSSION:**

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

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

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

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

**ACTION TAKEN:**

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

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

**DISCUSSION:**

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

Change Order No.6 involves modifying the existing tankage for wet weather events. Added work includes (1) assessing the viability of this type of operation by determining general operational changes required and potential challenges associated with this operating mode; (2) making suggestions for operational and analytical efforts that could be undertaken by SOCWA in upcoming wet-weather seasons to determine if this operating mode could be feasible; and (3)



organize and attending a site visit to a facility that operates primarily only under wet-weather conditions. The cost of Change Order No.6 is \$15,574.00.

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

**ACTION TAKEN:**

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

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

**DISCUSSION:**

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

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

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

**ACTION TAKEN:**

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

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

DISCUSSION:

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

ACTION TAKEN:

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

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

DISCUSSION:

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

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

ACTION TAKEN

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

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

DISCUSSION:

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

ACTION TAKEN:

No action necessary at this time.

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

#### **DISCUSSION:**

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

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

#### **ACTION TAKEN:**

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

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

#### **DISCUSSION:**

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

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

#### **ACTION TAKEN:**

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

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

#### **DISCUSSION:**

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

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

**ACTION TAKEN:**

No action necessary at this time.

**Adjournment**

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

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

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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  
Engineering Committee**

**May 12, 2016**

The Special Meeting of the South Orange County Wastewater Authority (SOCWA) Engineering Committee was held on Thursday, May 12, 2016 at 10:00 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
RICK SHINTAKU	South Coast Water District [arrival 10:18 a.m.]
DAVID SHISSLER	City of Laguna Beach

Absent:

MICHAEL DUNBAR	Emerald Bay Service District
KEVIN BURTON	Irvine Ranch Water District
DAVE REBENS DORF	City of San Clemente
ERIC BAUMAN	City of San Juan Capistrano
DON BUNTS	Santa Margarita Water District
HECTOR RUIZ	Trabuco Canyon Water District

Staff present:

BRIAN PECK	Director of Engineering
CHUCK WINSOR	Sr. Wastewater Engineer

Mr. Peck called the meeting to order at 10:05 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.

**Regional Treatment Plant Cogeneration Upgrade Construction Project Review [PC 17]**

Mr. Peck reported on the status of the Southern California Edison (SCE) revised design for the new service at the Regional Plant. SCE staff has agreed to a general concept; they are currently working on the final design.

Mr. Peck presented proposed amendments to the contracts for Carollo Engineers (construction services) and Butier Engineering (construction management). Discussion ensued. It was agreed that Carollo Engineers had provided a reasonable description for the proposed contract increase of \$79,814.. Mr. Peck presented two alternatives regarding the Butier amendment: (1) grant the entire requested amendment for the duration of the construction work

(at a price of \$429,900) or (2) grant the Butier hours for the project manager and the electrical inspector while eliminating the inspector after September (at a price of \$276,780). Mr. Peck proposed that the remaining inspection duties could be carried out by the new SOCWA Senior Engineer that is expected to be hired in July. Members of the Engineering Committee questioned whether this individual would have sufficient time to perform the inspection while performing other duties. An alternative approach was proposed wherein Butier services would be extended through October; the situation would be reconsidered at that time. This approach would result in a contract amendment cost of \$226,100.

**ACTION TAKEN**

The present Project Committee No. 17 Engineering Committee members recommended Change Order 1 to the construction services contract with Carollo Engineers at a price of \$79,814 and Change Order No.1 to the construction management contract with Butier Engineering at a price of \$226,100 for action by the Board of Directors.

**Coastal Treatment Plant Miscellaneous Improvements 2015 Construction Project Review**

**[PC15]**

**DISCUSSION:**

Mr. Peck reviewed the construction status for the Miscellaneous Improvements 2015 project. Pascal & Ludwig has completed the fire hardening work and is currently working on the foundation for the new sodium hypochlorite containment area. Mr. Peck noted that a buried duct bank connected to the South Coast Water District Recycled Water Pump Station had been encountered during excavation. The new structure was modified to avoid the duct bank. A contract amendment for this modification is anticipated.

Mr. Peck presented Change Order No.2 at a price of \$5,531.00. This change order was done to provide fire hardening screens at nine vents, louvers and fan openings that had not been addressed in the contract documents.

Mr. Peck noted that Change Order No.3 would be deferred for discussion at a future Engineering Committee Meeting.

**ACTION TAKEN:**

The present Project Committee No. 15 Engineering Committee members recommended Change Order 2 to the construction contract with Pascal & Ludwig for the Coastal Treatment Plant Miscellaneous Improvements 2015 Project for action by the Board of Directors.

## **Coastal Treatment Plant Export Sludge System Project Upgrade [PC 15]**

### **DISCUSSION:**

Mr. Peck gave a status report for the Coastal Development Permit (CDP) process for the Coastal Treatment Plant Export Sludge System project. It had originally been anticipated that the Export Sludge project would be on the May agenda of the California Coastal Commission (CCC). Dudek was contacted last week by the CCC staff person in charge of the application. The staff person asked Dudek to withdraw the permit application and refile as a joint application with either the County of Orange or the City of Laguna Niguel (as the land owners). Dudek expressed some frustration that that this had not been addressed in the 12 months of prior communications with CCC staff. Dudek believes that the request is driven by CCC staff concern about completing their review in a timely manner; the CCC is notoriously understaffed given their workload. SOCWA prepared a response declining to withdraw the application. In that communication SOCWA staff focused on the importance of time in removing the existing force mains from service. CCC staff is required to respond to applications within a set time frame. It is therefore certain that the Export Sludge item will be on the CCC agenda between June 8 through 10 in Santa Barbara. SOCWA staff will advise the member agencies when official notice is received.

### **ACTION TAKEN:**

No action necessary at this time.

## **Regional Treatment Plant Miscellaneous Improvements 2014 Construction Project Review [PC17]**

### **DISCUSSION:**

Mr. Peck indicated that work on Secondary Clarifier No.4 and the overall project was expected to be completed at the end of June, 2016.

Mr. Peck presented Change Orders No. 10 and 11 for the project. Change Order No. 10 involves the replacement of pinion shaft and bearing pocket sleeve on the Clarifier No.4 drive. This additional work was identified during the overhaul of the drive at the Walker Process factory. The cost of Change Order No. 10 is \$2,451.15.

Change Order No. 11 involves the replacement of the corroded wiper part with a new unit provided by Walker Process. The need for this item was identified when the wiper assembly was removed prior to sand blasting. The cost of Change Order No.11 is \$1,227.00.

Mr. Peck noted that both changes were in the portion of the project funded by Project Committee 17 Liquids.

ACTION TAKEN

The Project Committee No. 17 Liquids Engineering Committee member recommended Change Orders 10 and 11 to the construction contract with Pascal & Ludwig Constructors for the Regional Treatment Plant Miscellaneous Improvements 2014 Project for action by the Board of Directors.

**Adjournment**

There being no further business, Mr. Peck 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 Engineering Committee, and approved and ratified 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**

**April 14, 2016**

The Regular Meeting of the South Orange County Wastewater Authority (SOCWA) Engineering Committee was held on Thursday, April 14, 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:

MICHAEL DUNBAR	Emerald Bay Service District
MARC SERNA	Moulton Niguel Water District
RICK SHINTAKU	South Coast Water District
MIKE MARQUIS	City of San Juan Capistrano
DAVID SHISSLER	City of Laguna Beach

Absent:

KEVIN BURTON	Irvine Ranch Water District
DAVE REBENSORF	City of San Clemente
DON BUNTS	Santa Margarita Water District
HECTOR RUIZ	Trabuco Canyon Water District
DENNIS CAFFERTY	El Toro Water District

Staff present:

BETTY BURNETT	General Manager
BRIAN PECK	Director of Engineering
RONI YOUNG-GRANT	Associate Engineer
CHUCK WINSOR	Sr. Wastewater Engineer
MIKE MATSON	SCADA Supervisor
JIM BURROR	Director of Operations [exit 9:32 a.m.]

Also present:

DENNIS ERDMAN	South Coast Water District
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Mr. Peck called the meeting to order at 8:33 a.m. and welcomed everyone present.

**Public Comments**

No comments were received.

**ACTION TAKEN**

No action required.

**Review/Approval of Meeting Minutes - March 10, 2016**

**ACTION TAKEN**

Motion was made by Mr. Shissler and seconded by Mr. Shintaku to approve March 10, 2016, Engineering Committee Minutes.

Motion carried: Aye 5; Nay 0; Abstain 0; Absent 6.

Dennis Cafferty	Absent
Michael Dunbar	Aye
Kevin Burton	Absent
Rick Shintaku	Aye
Marc Serna	Aye
Mike Marquis	Aye
Dave Rebensdorf	Absent
Don Bunts	Absent
Hector Ruiz	Absent
David Shissler	Aye
Eric Bauman	Absent

**Operations Report**

DISCUSSION:

There was no presentation for this item.

ACTION TAKEN

No action was necessary for this item.

**Review of Proposed SCADA System Improvements**

DISCUSSION

Mr. Peck introduced the topic of the proposed SCADA system improvements at the three SOCWA treatment facilities in Fiscal Year 2016/2017. Mr. Peck noted that there were four proposed projects in the budget for the upcoming year related to SOCWA. These projects are to be implemented by the SOCWA Operations staff. Mr. Matson gave a presentation about the proposed projects. Mr. Matson noted that the two key capital improvements would be (1) the replacement of the remaining SLC 5 programmable logic controllers (PLC's) with Allen Bradley ControlLogix or ContactLogix units and (2) the extension of the fiber optic networks to provide more reliable looped systems.

ACTION TAKEN

No action was necessary for this item.

**Coastal Treatment Plant Export Sludge System Project Upgrade [PC17]**

DISCUSSION:

Mr. Peck reviewed the status of the Coastal Treatment Plant (CTP) Export Sludge System Project. The application for the California Coastal Commission (CCC) Permit for the Export Sludge System was prepared by Dudek and filed on September 24, 2015. CCC staff prepared an extensive series of questions regarding the application. A formal response to these questions was made on February 25, 2016. A portion of the response is attached to this agenda item. Neither SOCWA nor Dudek have received a rebuttal to the question responses. Dudek believes that the Export Sludge item may be placed on the CCC hearing agenda for mid-May.

The work done in response to the list of CCC staff questions as well as the remainder of the work now believed to be necessary to complete the CCC permit process exceeds the scope identified in the original contract. Mr. Peck reviewed two proposed change orders to the Dudek contract. Change Order No.3 involves extended Coastal Commission coordination and hearing support. The cost of Change Order No.3 is \$22,420.00.

Change Order No.4 involves the update the Habitat Monitoring and Mitigation Plan and the Cultural Resources Construction Monitoring Treatment Plan as requested by Coastal Commission staff. The cost of Change Order No.4 is \$4,980.00.

**ACTION TAKEN:**

The Project Committee No. 17 Engineering Committee members recommended Change Order 3 and 4 to the design contract with Dudek for the final design of the Coastal Treatment Plant Export Sludge System Replacement Project for presentation to the SOCWA Board of Directors.

**J.B. Latham Treatment Plant Facility Improvements Packages A/C Construction Project Update [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 six change orders to the Gateway Pacific contract. Change Order No. 19 involved the addition of bollards around the new transformer in a manner set forth by San Diego Gas & Electric (SDG&E). The cost of Change Order No.19 is \$14,600.42.

Change Order No.20 involved the replacement of four circuit breakers in Motor Control Center J. Four breakers in MCC-J were incorrectly sized in the design; these errors were not caught until the unit had been delivered to the site. The cost of Change Order No. 20 is \$5,333.60.

Change Order No.21 involved the removal and plugging of drain valves in the aeration basins. Seven aeration basin plug valves were deteriorated and would not seat properly resulting in backflow into the dewatered basins. The cost of Change Order No. 21 is \$4,311.75.

Change Order No.22 involved the replacement of the thermal mass flow meters. The insertion length of eighteen flow meters was incorrectly described in the specifications; the units required upgrading to match the existing conditions. The cost of Change Order No. 22 is \$21,508.18

Change Order No.23 involved revision to the grading at the new Electrical Building. SDG&E moved the location of the primary transformer requiring new grading contours to match existing pavement. The cost of Change Order No.23 is \$30,606.40.

Change Order No, 24 involved providing independent variable frequency drive (VFD) panels for the Plant No.2 raw sewage pumps. The original design included four VFD's in a single new cabinet. SOCWA Operations staff noted that under current ArcFlash rules service to any VFD would require deenergizing the entire cabinet; staff requested independent panels. The cost of Change Order No. 24 is \$43,301.20.

Change Order No. 25 involved the addition of an automatic transfer switch at Panel ESBD-J. It was originally intended that the panel would be able to automatically shift power from the utility to the Standby Power Generator No.2. Based on discussion with panel supplier and contractor SOCWA staff requested the installation of a conventional automatic transfer switch. The cost of Change Order No. 25 is \$23,030.50.

**ACTION TAKEN:**

The Project Committee No. 2 Engineering Committee members recommended Change Orders 19, 20, 21, 22, 23, 24 and 25 to the construction contract with Gateway Pacific for the J. B. Latham Treatment Plant Facility Improvements Packages A/C Project.

Effluent Pump Station Automatic Transfer Switch Replacement

**DISCUSSION:**

Mr. Winsor reported that SOCWA had negotiated a contract amendment with Gateway Pacific to replace the existing deficient automatic transfer switch (ATS) in the Effluent Pump Station (EPS) Electrical Room Motor Control Center (MCC) with a new ATS which will include a new electrical barrier to minimize Arc Flash occurrences. The proposed change order price is \$84,412.24. This is well below the engineer's estimate of \$167,500 and the budget of \$175,000.

**ACTION TAKEN:**

The Project Committee No. 2 Engineering Committee members recommended adoption of the Gateway Pacific proposal dated March 31, 2016, for the replacement of the Automatic Transfer Switch (ATS) within the JBLTP Effluent Pump Station (EPS) as an amendment to the contract for the J.B. Latham Treatment Plant Facility Improvements Packages A and C.

Diesel Storage Tank

**DISCUSSION:**

Mr. Winsor reported that SOCWA had negotiated a contract amendment with Gateway Pacific to add a 2,000 gallon above-ground diesel fuel storage tank (AST) to improve the reliability of standby systems during a long power outage. The tank capacity will provide

approximately 3 days of storage for diesel powered devices on the Latham site. The proposed change order price is \$51,921.17. This is well below the engineer's estimate of \$75,000 and the budget of \$225,000.

**ACTION TAKEN:**

The Project Committee No. 2 Engineering Committee members recommended adoption of the Gateway Pacific proposal dated March 31, 2016, for the Diesel Storage Tank as an amendment to the contract for the J.B. Latham Treatment Plant Facility Improvements Packages A and C.

**J. B. Latham Treatment Plant Facility Improvements Package "B" Project Update [PC2]**

**DISCUSSION:**

Ms. Young presented Tables 1 through 3 showing the final flows to be used in the J. B. Latham Treatment Plant (JBLTP) Package "B" analysis. The values in the table have been independently confirmed with each of the four member agencies.

Mr. Peck reviewed four proposed change orders to the Carollo contract for the Package "B" evaluation. Change Order No.1 involved an extended condition assessment to cover the aeration basins. The aeration basins were not in the original scope of work; however, an opportunity had presented itself when two aeration basins had already been drained and clean to accommodate the Packages "A/C" construction work. The cost of Change Order No.1 is \$8,105.00.

Change Order No.2 involves increased modeling to cover the cost of assessing liquids performance when the solids from Plant 3A are added to the process flow at Latham. The cost of Change Order No.2 is \$9,983.00.

Carollo Engineers has already completed the assessment of installing nitrification/denitrification at the J. B. Latham Treatment Plant. Change Order No.3 will add a high level feasibility assessment of operating the JBLTP in a nitrification-only mode, similar to operations at the Santa Margarita Water District's Chiquita Plant. The assessment addresses feasibility, advantages /disadvantages, and recommendations about operating the JBLTP in a nitrification-only mode. The cost of Change Order No.3 is \$3,804.00.

Change Order No.4 was proposed after the completion of the hydraulic modeling for the JBLTP. Additional work was proposed including the assessment of plant modifications that could reduce or eliminate existing hydraulic constraints between the primary inlet channels and the secondary effluent piping. The assessment will include suggested improvements and associated impacts on hydraulic treatment capacity within the studied parts of the plant. The cost of Change Order No.4 is \$6,708.00

## ACTION TAKEN

The Project Committee No. 2 Engineering Committee members recommended Change Orders 1, 2, 3 and 4 to the engineering contract with Carollo Engineers for the development of the J.B. Latham Treatment Plant Package 'B' Facility Improvements for presentation to the SOCWA Board of Directors.

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

### DISCUSSION:

Mr. Peck presented the construction status report for the Plant 3A Miscellaneous Improvements 2015 project. The shutdown work was completed in the month of March. The aeration system air header has been reconstructed and placed into service.

Mr. Peck presented Change Order Nos. 4 through 7. Change Order No.4 involved the use of radar imagery to locate reinforcing steel in the upper portion of the aeration basins walls prior to avoid the potential conflict with the installation of the new support anchors. SOCWA staff had agreed to this investigation as proposed by the contractor S.S. Mechanical. The cost of Change Order No.4 is \$4,900.00.

Change Order No.5 was due a utility conflict. The routing of the trench drain on the plans was found to conflict with an existing buried duct bank. The trench drain was rerouted. The cost of Change Order No.5 is \$4,775.00.

Change Order No.6 involved the addition of restraints on the air piping system. The initial start-up of the aeration system after rerouting of air line resulted in forces that caused the 30" inch pipeline to pull apart. Restraints were added to the 30-inch pipeline. The cost of Change Order No. 6 is \$13,731.00.

Change Order No.7 involved the installation of double roller supports to restrain the new air pipeline suspended above the new support system. The roller supports were added at the recommendation of staff to avoid potential movement of the air line. The cost of Change Order No.7 is \$2,760.00.

Mr. Peck noted that he had spoken with Mr. Bunts about the proposed change orders; Mr. Bunts supported the change orders. Mr. Bunts indicated that they had reviewed the proposed change orders with Santa Margarita Water District staff.

## ACTION TAKEN

The present Project Committee No. 3A Engineering Committee member recommended Change Orders 4, 5, 6 and 7 to the construction contract with S.S. Mechanical for the Plant 3A Miscellaneous Improvements 2015 Project for action by the SOCWA Board of Directors.

**Proposed SOCWA Capital Projects Budget Fiscal Year 2016/2017 [All PC's]**

**DISCUSSION:**

Per the March, 2016, request of the Engineering Committee Mr. Peck presented a comparison of the proposed Capital Improvements Budget for Fiscal Year 2016/2017 with the projections made during the budget process for Fiscal Year 2015/2016. Mr. Peck noted that the capital budget currently projected for Fiscal Year 2016/2017 is almost the same as project last year; the primary difference being the amount of carryover budget from Fiscal Year 2015/2016. Discussion ensued. Mr. Peck noted that the overall SOCWA budget workshop was being scheduled for early May.

**ACTION TAKEN**

No action taken at this time.

**Adjournment**

There being no further business, Mr. Peck adjourned the meeting at 10:38 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 April 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

# Agenda Item

**Legal Counsel Review:** N/A

**Meeting Date:** August 4, 2016

**TO:** Board of Directors  
**FROM:** Betty Burnett, General Manager  
**STAFF CONTACT:** Mary Carey, Finance Controller  
**SUBJECT:** Approval of Financial Matters – June 30, 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 (Exhibit A)
- b) Schedule of Funds Available for Reinvestment (Exhibit B)
- c) Schedule of Cash and Investments (Exhibit C)
- d) Capital Schedule (Exhibit D)
  - Capital Projects – Graph (Exhibit D-1)
- e) Budget vs. Actual Expenses:
  - We are working on fiscal year-end closing and final expenses are near completion for receipt and payment of invoicing. The Budget vs. Actual for the close of the Fiscal Year will be reviewed by the Finance Committee at the August 23, 2016 Finance Committee meeting, and presented to the Board of Directors at the September, 2016 Board meeting. If your agency has a need for more specific information prior to the Finance Committee meeting please phone Mary Carey.

## Fiscal impact

During the month of June 2016, disbursements totaled \$6,935,840 and are summarized in the attached Exhibit A. The attached Exhibits B, C, F, and G are informational reports only.

## Recommendation

Staff recommends the Board of Directors:

- 1) Ratify the Summary of Disbursements for the period from June 1, 2016 through June 30, 2016 (attached as Exhibit A).
- 2) Receive and file the following as information items:
  - f) Schedule of Funds Available for Reinvestment (Exhibit B)
  - g) Schedule of Cash and Investments (Exhibit C)
  - h) Capital Schedule (Exhibit D)
    - Capital Projects Graph (Exhibit D-1)



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

	<b>Actual</b>
*General Fund	(463,689)
PC 2 - Jay B. Latham Plant	(1,948,448)
PC 3 - SOCWA Plant/PCA AWT	(260,362)
PC 5 - San Juan Creek Ocean Outfall	(417,409)
PC 8 - Pretreatment Program	(24,900)
PC 12 SO - Water Reclamation Permits	(20,985)
PC 15 - Coastal Treatment Plant/AWT	(1,542,256)
PC 17 - Joint Regional Wastewater Reclamation	(2,014,676)
PC 21 - Effluent Transmission Main	(75,864)
PC 24 - Aliso Creek Ocean Outfall	(167,252)
Total	<b>(6,935,840)</b>

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

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

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CASH IN BANK: (BEGINNING BALANCE)	1,451,262.59
L.A.I.F. FUNDS: (BEGINNING BALANCE)	7,793,177.49
VOIDS & ADJUSTMENTS	(\$154)
RECEIPTS:	\$3,410,137
FUND REQUIREMENTS:	
BILLS FOR CONSIDERATION	<u>(\$6,935,840)</u>
<b>FUNDS AVAILABLE FOR REINVESTMENT</b>	<b><u><u>\$5,718,583</u></u></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 June 30, 2016**

	(A) <b>MVA 1010</b>	(B) <b>A/P 1020</b>	(C) <b>P/R 1030</b>	(D) <b>Petty Cash 1000</b>	(E) <b>LAIF 1040</b>	<b>Subtotal</b>	(F) <b>OPEB Trust 1050</b>	<b>TOTAL</b>
General Fund	\$500	\$900	\$115,874	\$400	\$63,163	\$180,837	\$3,260,174	\$3,441,011
PC 2 - Jay B. Latham Plant	\$500	\$900	\$500	\$400	\$1,172,561	\$1,174,861	\$0	\$1,174,861
PC 3 - SOCWA Plant/PCA AWT	\$300	\$900	\$500	\$0	\$786,545	\$788,245	\$0	\$788,245
PC 5 - San Juan Creek Ocean Outfall	\$358,612	\$900	\$500	\$0	\$58,000	\$418,012	\$0	\$418,012
PC 8 - Pretreatment Proram	\$500	\$872	\$500	\$0	\$19,275	\$21,147	\$0	\$21,147
PC 12 SO - Water Reclamation Permits	\$500	\$900	\$500	\$0	\$53,996	\$55,896	\$0	\$55,896
PC 15 - Coastal Treatment Plant/AWT	\$15,572	\$900	\$500	\$400	\$1,559,725	\$1,577,096	\$0	\$1,577,096
PC 17 - Joint Regional Wastewater Reclamation	\$416,977	\$900	\$500	\$400	\$492,143	\$910,919	\$0	\$910,919
PC 21 - Effluent Transmission Main	\$500	\$900	\$500	\$0	\$345,552	\$347,452	\$0	\$347,452
PC 24 - Aliso Creek Ocean Outfall	\$500	\$900	\$500	\$0	\$242,218	\$244,118	\$0	\$244,118
<b>Total</b>	<b>\$794,460</b>	<b>\$8,972</b>	<b>\$120,374</b>	<b>\$1,600</b>	<b>\$4,793,177</b>	<b>\$5,718,583</b>	<b>\$3,260,174</b>	<b>\$8,978,757</b>

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.

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

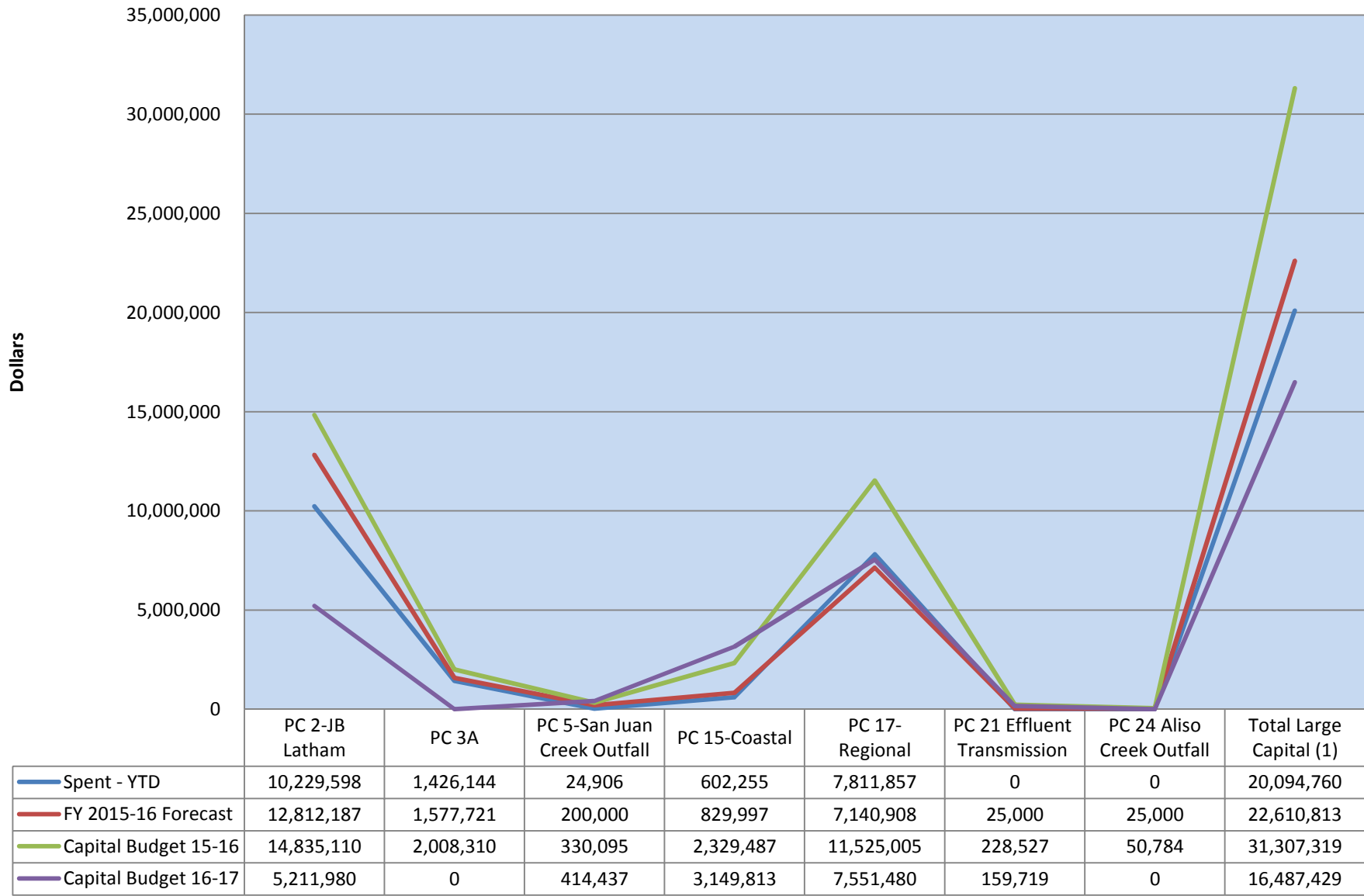
<b>Total Open Capital Projects - All Years</b>						
<b>Projects</b>	<b>Budget</b>	<b>Prior Years Spending</b>	<b>FY 2015-16 Spending</b>	<b>Total Spending</b>	<b>(Over)/Under Budget</b>	<b>% Expended</b>
PC 2-JB Latham	26,874,021	5,691,783	10,229,598	15,921,381	10,952,640	59.2%
PC 3A	2,435,854	312,179	1,426,144	1,738,324	697,530	71.4%
PC 5-San Juan Creek Outfall	325,000	118,018	24,906	142,924	182,076	44.0%
PC 15-Coastal	14,718,851	1,177,975	602,255	1,780,230	12,938,621	12.1%
PC 17-Regional	20,645,402	3,145,630	7,811,857	10,957,487	9,687,915	53.1%
PC 21 Effluent Transmission	425,000				425,000	
PC 24 Aliso Creek Outfall	50,000				50,000	
<b>Total Large Capital</b>	<b>65,474,128</b>	<b>10,445,585</b>	<b>20,094,760</b>	<b>30,540,345</b>	<b>34,933,783</b>	<b>46.6%</b>
Small Internal Capital	1,279,850		673,322	673,322	606,528	52.6%
<b>Total Capital</b>	<b>66,753,978</b>	<b>10,445,585</b>	<b>20,768,083</b>	<b>31,213,668</b>	<b>35,540,311</b>	<b>46.8%</b>

<b>FY 2015-16 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	14,835,110	10,229,598	4,605,512	69.0%	12,812,187	12,812,187	2,084,686
PC 3A	2,008,310	1,426,144	582,166	71.0%	1,577,721	1,577,721	383,247
PC 5-San Juan Creek Outfall	330,095	24,906	305,189	7.5%	200,000	200,000	57,076
PC 15-Coastal	2,329,487	602,255	1,727,232	25.9%	829,997	829,997	99,291
PC 17-Regional	11,525,005	7,811,857	3,713,148	67.8%	7,140,908	7,140,908	300,036
PC 21 Effluent Transmission	228,527		228,527		25,000	25,000	25,000
PC 24 Aliso Creek Outfall	50,784		50,784		25,000	25,000	25,000
<b>Total Large Capital</b>	<b>31,307,318</b>	<b>20,094,760</b>	<b>11,212,558</b>	<b>64.2%</b>	<b>22,610,813</b>	<b>22,610,813</b>	<b>2,974,337</b>
Small Internal Capital	1,279,850	673,322	606,528	52.6%	1,229,852	914,603	241,281
<b>Total Capital</b>	<b>32,587,168</b>	<b>20,768,083</b>	<b>11,819,085</b>	<b>63.7%</b>	<b>23,840,665</b>	<b>23,525,416</b>	<b>3,215,617</b>

Notes:

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

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



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

# Agenda Item

**Meeting Date:** August 4, 2016

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

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## Summary/Discussion

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

1) Monthly Operational Report

A six (6) page overview and comparison of owner use of facilities, including influent and recycled water production. The pages include ongoing calculation 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 agencies planning reuse projects to better understand the potential to expand water reuse in their service area.

3) Quarterly Report on Key Operational Expenses

These charts include tracking of monthly expenses for key operational expenses with estimated projections for the Fiscal Year. The key parameters that are being tracked are Electricity, Odor Control, Polymer, Biosolids, Maintenance expenses (not including SOCWA staff labor), small capital purchases and safety.

4) Beach Ocean Monitoring Report

5) Recycled Water Report

6) Pretreatment Report

## Fiscal impact

No change

## Recommendation

Staff recommends receiving and filing the above mentioned operational reports.

# Monthly Operational Report

Fiscal Year 2015-2016 Data

# SOCWA Operational Report June, 2016 (FY15-16 Data)

## Excursion, Complaint, and Violation Events

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

All complaints this month were attributed to Sulphur Creek odors. Monitoring of the treatment plant did not show any indications for odors.

## Plant Wastewater Billing Characteristics

Key Parameters	CTP	RTP	JBL TP1	JBL TP2	Totals
Influent (mgd)	2.96	7.56	7.20	0.92	18.64
Effluent (mgd)	1.99	0.72	7.20	1.16	11.06
Peak Flow (mgd)	3.13	18.15	10.44	4.61	36.33
Influent BOD (mg/l)	341	264	285	323	
Influent TSS (mg/l)	278	322	524	491	
Effluent BOD (mg/l)	5.9	3.9	6.5	8.3	
Effluent TSS (mg/l)	4.5	4.7	9.2	14.7	
Effluent Turbidity (NTU)	3.9	3.2	4.9	8.3	

## Recycled Water (AWT) Operations

Key Parameters	CTP	RTP	JBL	Totals
Average Flow (mgd)	1.33	6.84		8.18
Days of Operation (days)	30	30		
Total Flow (million gallons)	40.0	205.3		245.3
Plant Irrigation (million gallons)	0.10	1.00	0.19	
AWT Time Online (%)	100.0	99.2		

### 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 June, 2016 (FY15-16 Data) (cont'd)

## Biosolids Management

Biosolids Management Site	CTP	RTP	JBL	Totals
Synagro Compost (tons)		NA	0.0	0.0
Nursery Products (tons)		194.9	388.7	583.6
Prima Deshecha (tons)		183.7	297.0	480.7
Other: (tons)		0.0	0.0	0.0
Total Processed (tons)		378.7	685.7	1,064.4

## Summary of Maintenance Activities

Task Type	CTP	RTP	JBL	Totals
Preventative Maintenance	225	470	489	1,184
Corrective Maintenance	96	50	86	232

## Site Visitors

Visitor Types	CTP	RTP	JBL	Totals
Regulatory	0	1	0	1
Member Agency	0	2	0	2
Residents	0	0	0	0
Others	8	18	39	65
Tours #/Visitors	12	0	0	12

## Grit Disposal Management

Grit & Screenings	CTP	RTP	JBL	Totals
Simi Valley Landfill (tons)	10.6	40.4	NA	51.0

## Chemical and Energy Utilization

Chemical/Utility	CTP	RTP	JBL	Totals
Ferric Chloride (tons)	0.1	NA	NA	0.1
Power (kWh)	206,640	166,937	292,504	666,081
Natural Gas (Dth)	NA	NA	NA	NA
Digester Gas (scfm)		8,674,617	0(1)	8,674,617
Digester Gas Power Savings		\$ 40,457.43		

(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 June, 2016 (FY15-16 Data)(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	1.795	58.40%				1.79
EBSB	0.050	1.63%				0.05
SCWD	1.229	39.98%		1.651	22.94%	2.88
MNWD	0.000	0.00%	7.56	1.400	19.46%	8.96
CSJC				1.976	27.46%	1.98
SMWD				2.169	30.14%	2.17
<b>Total</b>	<b>3.074</b>	<b>100.00%</b>	<b>7.56</b>	<b>7.196</b>	<b>100.00%</b>	<b>17.83</b>

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

Agency	SJCOO (mgd)	SJCOO (%)	SJCOO Meter (mgd)	ACOO (mgd)	ACOO (%)	Total (mgd)	Notes
CLB				1.79	29.61%	1.79	
EBSB				0.05	0.82%	0.05	
SCWD	1.65	15.96%		0.18	2.97%	1.83	Includes Desalters
MNWD	1.40	13.53%		0.72	11.79%	2.12	
ETWD				1.92	31.63%	1.92	Direct Outfall Only
CSJC	2.34	22.61%				2.34	Includes Desalter
SMWD	2.82	27.26%				2.82	Includes Chiquita
CSC	2.14	20.64%				2.14	Direct Outfall Only
IRWD				1.40	23.17%	1.40	Direct Outfall Only
<b>Total</b>	<b>10.35</b>	<b>100.00%</b>	<b>9.14</b>	<b>6.06</b>	<b>100.00%</b>	<b>16.41</b>	

# SOCWA Operational Report June, 2016 (FY15-16 Data) (cont'd)

## FY Flows/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)(2)	FY Avg to Date (%)
CSJC	4.00	30.77%	3.19	38.02%	1.976	27.46%	2.17	31.75%
MNWD	3.00	23.08%	1.40	16.69%	1.400	19.46%	1.40	20.51%
SCWD	3.75	28.85%	2.00	23.84%	1.651	22.94%	1.76	25.77%
SMWD	2.25	17.31%	1.80	21.45%	2.169	30.14%	1.50	21.97%
<b>Total</b>	<b>13.00</b>	<b>100.00%</b>	<b>8.39</b>	<b>100.00%</b>	<b>7.196</b>	<b>100.00%</b>	<b>6.83</b>	<b>100.00%</b>

### Project Committee No. 2 Liquids (JBL)

Agency	Own (lbs/d)	Own (%)	Budget (lbs/d)	Budget (%)	Month (lbs/d)	Month (%)	FY Avg to Date (lbs/d)(2)	FY Avg to Date (%)
CSJC	11,572	30.00%	8,620	33.30%	4,911	18.76%	5,722	24.48%
MNWD	8,340	21.62%	5,270	20.36%	5,931	22.66%	6,155	26.34%
SCWD	7,715	20.00%	5,304	20.49%	6,141	23.46%	5,143	22.01%
SMWD	10,946	28.38%	6,695	25.86%	9,189	35.11%	6,352	27.18%
<b>Total</b>	<b>38,573</b>	<b>100.00%</b>	<b>25,889</b>	<b>100.00%</b>	<b>26,172</b>	<b>100.00%</b>	<b>23,372</b>	<b>100.00%</b>

### 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%	2.14	20.64%		
CSJC	11.08%	3.83	21.87%	2.34	22.61%	1.98	27.46%
MNWD	15.51%	2.42	13.82%	1.40	13.53%	1.40	19.46%
SCWD	12.47%	2.67	15.25%	1.65	15.96%	1.65	22.94%
SMWD	44.32%	5.59	31.92%	2.82	27.26%	2.17	30.14%
<b>Total</b>	<b>100.00%</b>	<b>17.51</b>	<b>100.00%</b>	<b>10.35</b>	<b>0.00%</b>	<b>7.20</b>	<b>100.00%</b>

#### (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.

#### (2) Fiscal Year totals subject to change for the Use Audit.

# SOCWA Operational Report June, 2016 (FY15-16 Data) (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)(2)	FY Avg EPS Outfall Flow (%)
CSC	2.532	20.56%		
CSJC	2.464	20.01%	2.17	31.75%
MNWD	1.915	15.55%	1.40	20.51%
SCWD	1.759	14.29%	1.76	25.77%
SMWD	3.643	29.59%	1.50	21.97%
Total	12.313	100.00%	6.83	100.00%

### Project Committee No.15 (CTP)

Agency	Own (mgd)	Own (%)	Budget (mgd)	Budget (%)	Month (mgd)	Month (%)	FY Avg to Date (mgd)(2)	FY Avg to Date (%)
CLB	2.54	37.91%	1.808	50.74%	1.795	58.40%	1.760	60.04%
EBSD	0.20	2.99%	0.076	2.13%	0.050	1.63%	0.052	1.76%
SCWD	2.00	29.85%	1.679	47.12%	1.229	39.98%	1.120	38.19%
MNWD	1.96	29.25%	0.000	0.00%	0.000	0.00%	0.000	0.00%
Total	6.70	100.00%	3.563	100.00%	3.074	100.00%	2.931	100.00%

### Project Committee No.17 Liquids (RTP)

Agency	Budget Liquids (mgd)	Budget Liquids (%)	Month Plant Influent (mgd)	Month Centrate (mgd)	Month Total (mgd)(1)	Month Total (%)	FY Avg to Date (mgd)(2)	FY Avg to Date (%)
CLB	0.01445	0.167%	0.0000	0.0141	0.0141	0.18%	0.0124	0.16%
EBSD	0.00045	0.005%	0.0000	0.0004	0.0004	0.01%	0.0004	0.00%
SCWD	0.00894	0.103%	0.0000	0.0097	0.0097	0.13%	0.0079	0.10%
ETWD	0.01765	0.204%	0.0000	0.0162	0.0162	0.21%	0.0141	0.18%
MNWD	8.62961	99.522%	7.5593	0.0696	7.6289	99.47%	7.6946	99.55%
Total	8.67110	100.000%	7.5593	0.1099	7.6692	100.00%	7.7293	100.00%

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

(2) Fiscal Year totals subject to change for the Use Audit.

**SOCWA Operational Report, June 2016 (FY15-16 Data)(cont'd)**

**FY Flow/Solids Summary (cont'd)**

**Project Committee No. 17 Solids (RTP)**

<b>Agency</b>	<b>Own (lbs/d)</b>	<b>Own (%)</b>	<b>Budget (lbs/d)</b>	<b>Budget (%)</b>	<b>Total Month (lbs)</b>	<b>Total Month (%)</b>	<b>FY Avg Total to Date (lbs)(1)</b>	<b>FY Avg Total to Date (%)</b>
CLB	5,605	11.22%	5,053	12.95%	156,007	12.84%	151,229	12.49%
EBSD	295	0.59%	157	0.40%	4,346	0.36%	4,440	0.37%
SCWD	4,480	8.96%	3,127	8.01%	106,791	8.79%	95,974	7.92%
ETWD	10,200	20.41%	6,309	16.17%	178,682	14.70%	171,777	14.18%
MNWD	29,395	58.82%	24,371	62.46%	769,605	63.32%	787,732	65.04%
<b>Total</b>	<b>49,975</b>	<b>100.00%</b>	<b>39,017</b>	<b>100.00%</b>	<b>1,215,431</b>	<b>100.00%</b>	<b>1,211,151</b>	<b>100.00%</b>

**Project Committee No. 24 (ACOO)**

<b>Agency</b>	<b>Own (%)</b>	<b>Budget (mgd)</b>	<b>Budget (%)</b>	<b>Month Outfall Flow (mgd)</b>	<b>Month Outfall Flow (%)</b>	<b>FY Avg Outfall Flow (mgd)(1)</b>	<b>FY Avg Outfall Flow (%)</b>
CLB	11.000%	1.49	13.32%	1.795	29.61%	1.760	16.00%
EBSD	0.780%	0.06	0.54%	0.050	0.82%	0.052	0.47%
ETWD	16.302%	2.89	25.83%	1.918	31.63%	2.922	26.57%
IRWD	15.760%	2.62	23.41%	1.405	23.17%	3.134	28.50%
MNWD	43.848%	2.96	26.45%	0.715	11.79%	2.872	26.12%
SCWD	12.310%	1.17	10.46%	0.180	2.97%	0.257	2.34%
<b>Total</b>	<b>100.000%</b>	<b>11.19</b>	<b>100.00%</b>	<b>6.062</b>	<b>0.00%</b>	<b>10.997</b>	<b>100.00%</b>

(1) Fiscal Year totals subject to change for the Use Audit.

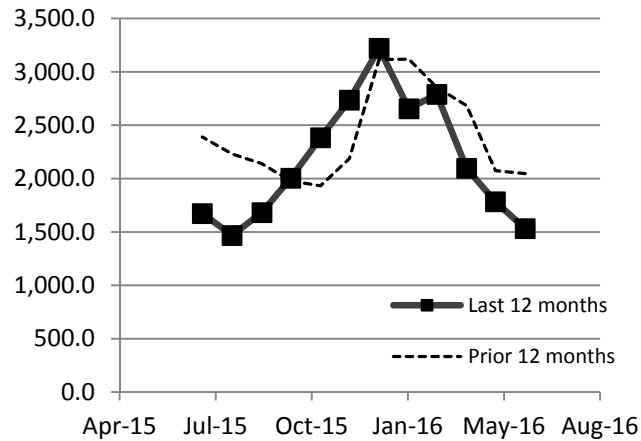
# SOCWA Ocean Outfall Discharges by Agency

## SOCWA Outfall Discharge Report June, 2016

Agency	SJCOO (mgd)	SJCOO (%)	ACOO (mgd)	ACOO (%)	Total (mgd)
CLB			1.79	29.61%	1.79
EBSD			0.05	0.82%	0.05
SCWD	1.65	15.96%	0.18	2.97%	1.83
MNWD	1.40	13.53%	0.72	11.79%	2.12
ETWD			1.92	31.63%	1.92
CSJC	2.34	22.61%			2.34
SMWD	2.82	27.26%			2.82
CSC	2.14	20.64%			2.14
IRWD			1.40	23.17%	1.40
<b>Total</b>	<b>10.35</b>	<b>100.00%</b>	<b>6.06</b>	<b>100.00%</b>	<b>16.41</b>
or Acre-Feet per year equivalent					18,377

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

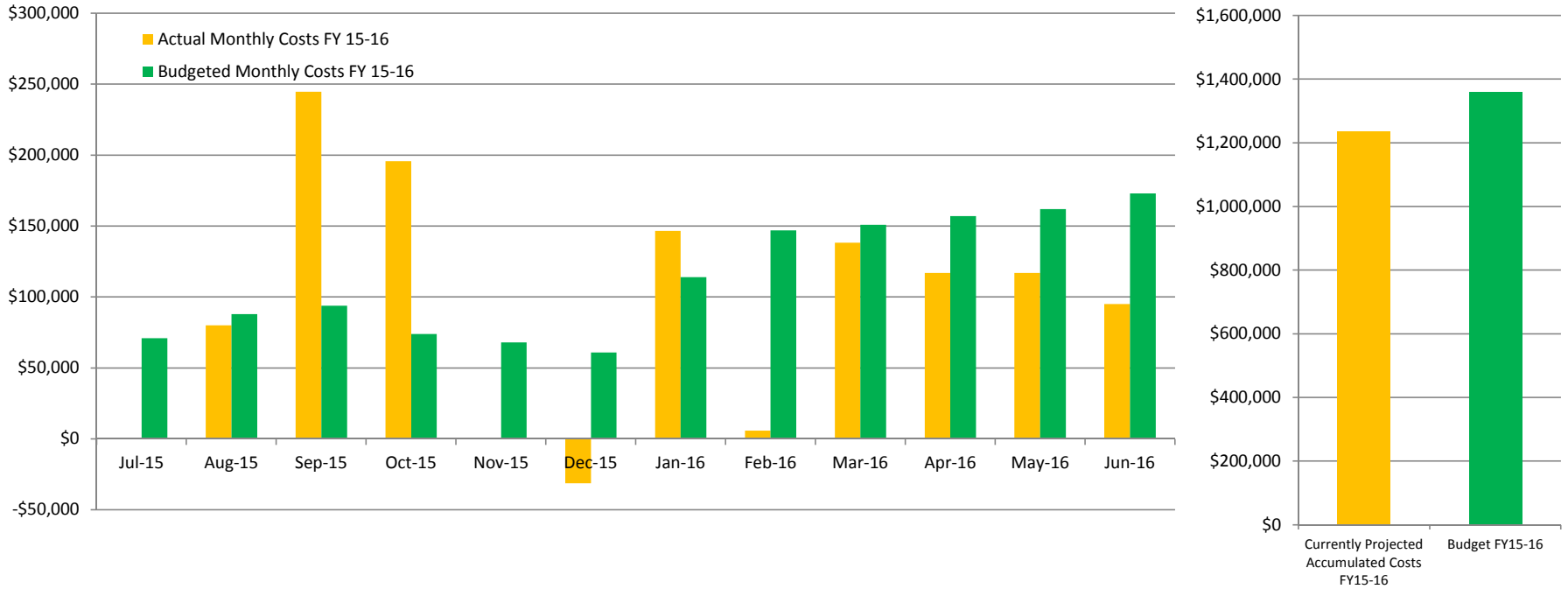
Jun-16	1,531.0
May-16	1,783.9
Apr-16	2,096.5
Mar-16	2,789.7
Feb-16	2,653.8
Jan-16	3,220.1
Dec-15	2,735.0
Nov-15	2,382.2
Oct-15	2,002.9
Sep-15	1,681.6
Aug-15	1,467.8
Jul-15	1,672.6
<b>Total</b>	<b>26,017.1</b>



# Quarterly Report on Key Operational Expenses

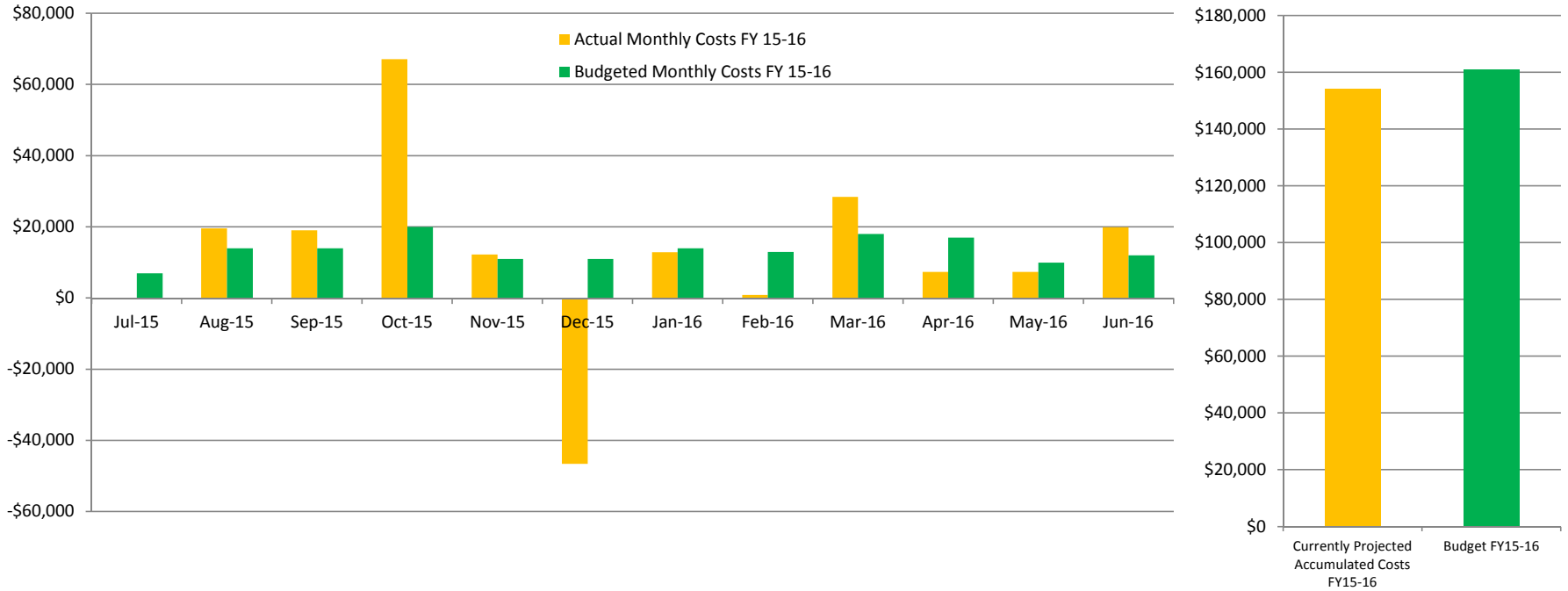


# Electricity (5010) Costs



	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Currently Projected Accumulated Costs FY15-16	Budget FY15-16
Actual Monthly Costs FY 15-16	\$0	\$80,013	\$244,758	\$195,808	\$0	-\$31,311	\$146,529	\$5,866	\$138,279	\$117,002	\$117,002	\$95,163	Currently Projected Accumulated Costs FY15-16	\$1,234,559
Budgeted Monthly Costs FY 15-16	\$71,000	\$88,000	\$94,000	\$74,000	\$68,000	\$61,000	\$114,000	\$147,000	\$151,000	\$157,000	\$162,000	\$173,000	Budget FY15-16	\$1,360,000
													Currently Projected Under(+)/Over (-) Budget	+\$125,441

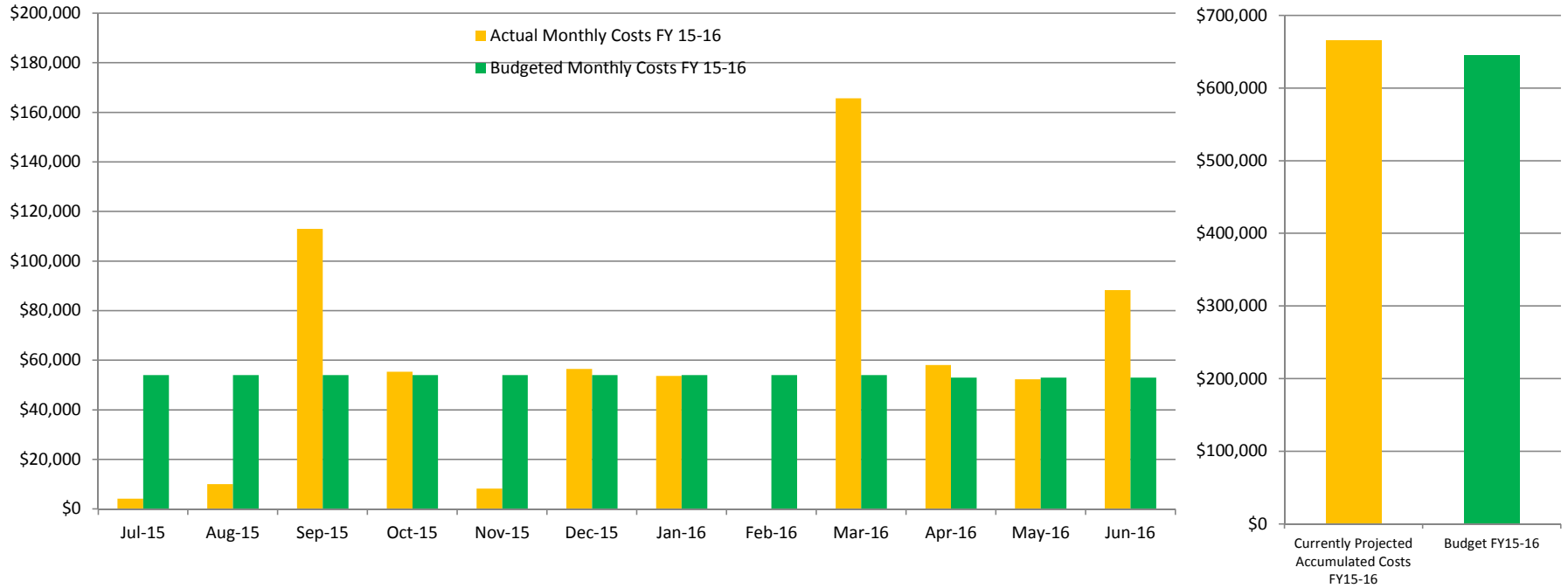
# Odor Control (5018) Costs



	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Currently Projected Accumulated Costs FY15-16	Budget FY15-16
Actual Monthly Costs FY 15-16	\$0	\$19,583	\$19,016	\$67,123	\$12,271	-\$46,550	\$12,921	\$888	\$28,436	\$7,378	\$7,378	\$19,908	Currently Projected Accumulated Costs FY15-16	\$154,277
Budgeted Monthly Costs FY 15-16	\$7,000	\$14,000	\$14,000	\$20,000	\$11,000	\$11,000	\$14,000	\$13,000	\$18,000	\$17,000	\$10,000	\$12,000	Budget FY15-16	\$161,000
													Currently Projected Under(+)/Over (-) Budget	+ \$6,723

Note: December includes adjustments from the transition to the new Financial system.

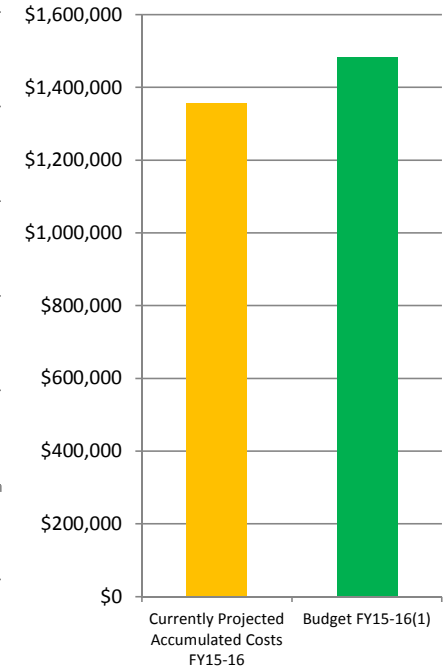
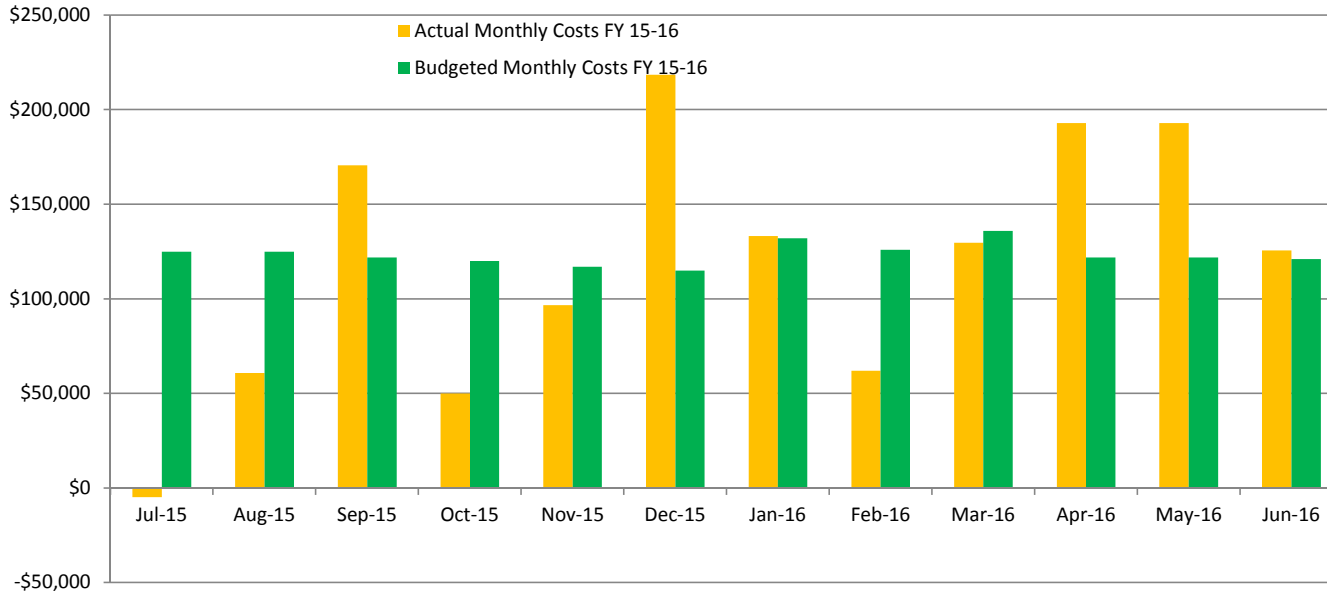
# Polymer (5016) Costs



	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Currently Projected Accumulated Costs FY15-16	\$665,890
Actual Monthly Costs FY 15-16	\$4,197	\$10,098	\$113,068	\$55,438	\$8,278	\$56,494	\$53,713	\$0	\$165,762	\$58,136	\$52,367	\$88,339	Budget FY15-16	\$645,000
Budgeted Monthly Costs FY 15-16	\$54,000	\$54,000	\$54,000	\$54,000	\$54,000	\$54,000	\$54,000	\$54,000	\$54,000	\$53,000	\$53,000	\$53,000	Currently Projected Under(+)/Over (-) Budget	-\$20,890

Note: Operations was able to accept an additional delivery this FY. Next Fiscal Year's costs will be reduced by an equivalent amount.

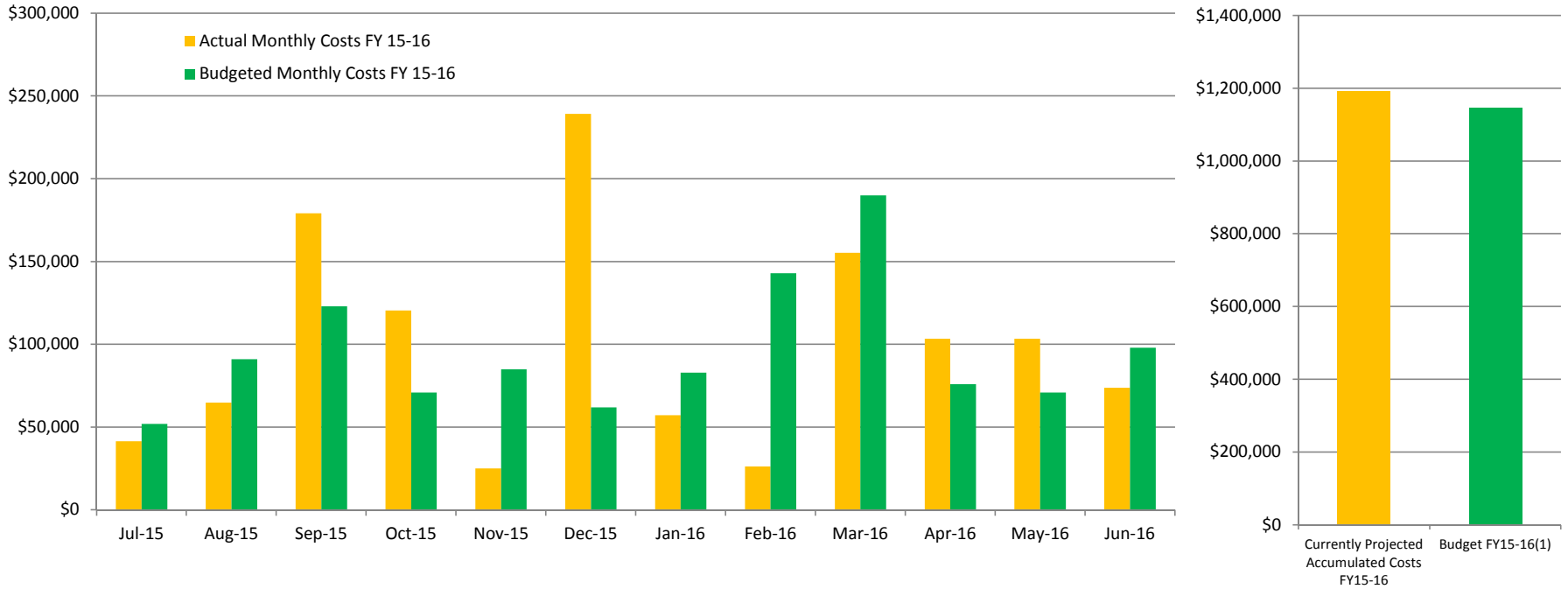
# Biosolids (5078/21-B) Costs



	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Currently Projected Accumulated Costs FY15-16	Budget FY15-16(1)
Actual Monthly Costs FY 15-16	-\$4,750	\$60,816	\$170,718	\$50,039	\$96,683	\$218,512	\$133,274	\$62,020	\$129,689	\$192,940	\$192,940	\$125,658	\$1,355,690	\$1,483,000
Budgeted Monthly Costs FY 15-16	\$125,000	\$125,000	\$122,000	\$120,000	\$117,000	\$115,000	\$132,000	\$126,000	\$136,000	\$122,000	\$122,000	\$121,000	Currently Projected Under(+)/Over (-) Budget	+\$127,310

(1) Includes \$125,000 for emergency truck hauling at CTP if needed.

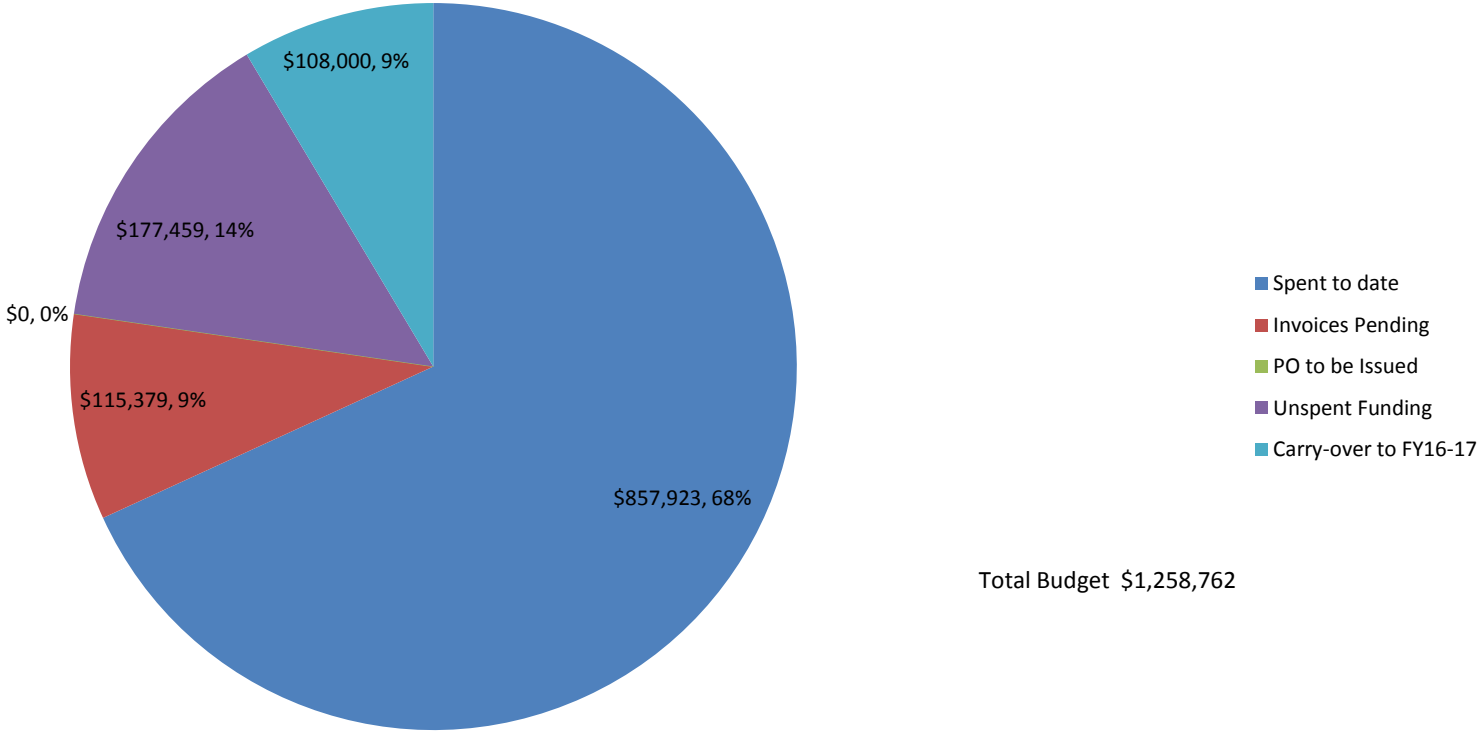
# Maintenance Repair (5041 & 5086 to 5089) Costs



	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Currently Projected Accumulated Costs FY15-16	Budget FY15-16(1)
Actual Monthly Costs FY 15-16	\$41,402	\$64,894	\$179,187	\$120,536	\$25,011	\$239,232	\$57,242	\$26,278	\$155,283	\$103,339	\$103,339	\$73,710	\$1,190,678	\$1,145,000
Budgeted Monthly Costs FY 15-16	\$52,000	\$91,000	\$123,000	\$71,000	\$85,000	\$62,000	\$83,000	\$143,000	\$190,000	\$76,000	\$71,000	\$98,000	Currently Projected Under(+)/Over (-) Budget	-\$45,678

Notes: Several emergency water line repairs on corroded and buried hot water loop pipes at RTP caused this overage.

# Small Internal Capital Costs

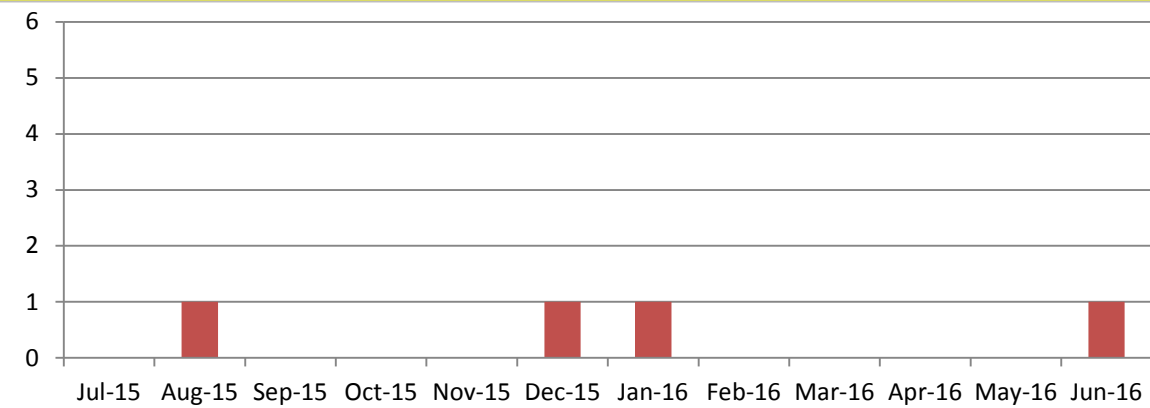


# SAFETY UPDATE - JULY 6, 2016

## (Fiscal Year 2015-16)

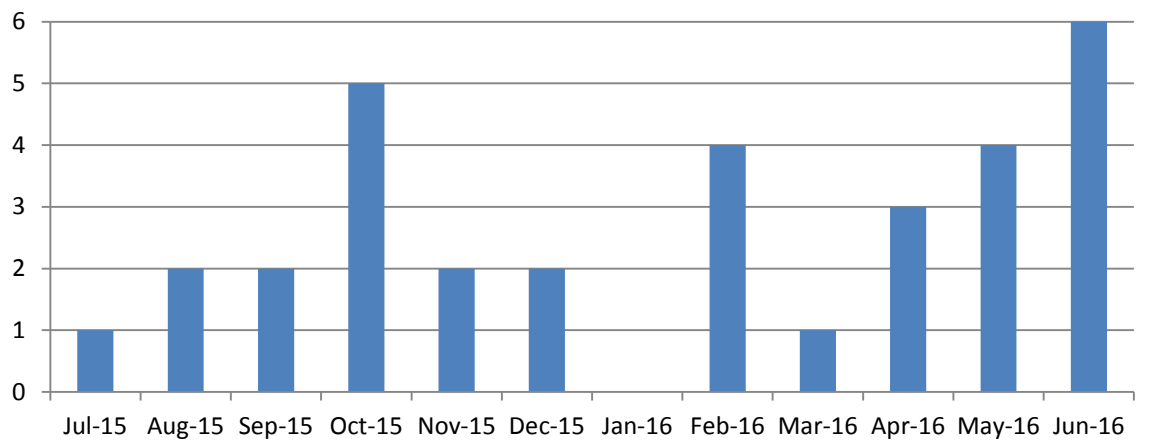
# SAFETY UPDATE - Year End FY 2015-16

## OSHA RECORDABLE INJURIES



	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16
OSHA RECORDABLE INJURIES	0	1	0	0	0	1	1	0	0	0	0	1

## NEAR MISS REPORTS



	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16
NEAR MISS REPORTS	1	2	2	5	2	2	0	4	1	3	4	6

(1) The July 2016 report is also a summary for FY15-16.

## SAFETY TRAINING

TRAINING TOPIC	ATTENDANCE
June '16 - Annual Heat Illness Training	90%
May '16 - Entry Level NIMS/ICS Training and Fire Extinguisher Training	90%
April '16 - 8-Hour HAZWOPER Refresher	100%
Mar '16 - First Aid/CPR/AED Certification	100%
Feb '16 - Bloodborne Pathogen Training	100%
Feb '16 - Biomechanics/Ergonomics (with CSRMA)	100%
Oct '15 and Jan '16 - Confined Space Entry Rescue (Two training sessions)	100%
Dec '15 - Defensive Driving and DUI (with CHP)	100%
Nov '15 - Hearing Conservation and Audiometric Testing	100%
Nov '15 - Laboratory Safety (for lab employees)	100%
Sep '15 - Pre-Storm Workshop/Training (for upcoming rainy season)	100%
Sep '15 - NFPA 70E Arc Flash Training (for Electricians)	100%
Sep '15 - Forklift Training and Certification	100%
Aug '15 - Disaster Cost Recovery Training	100%
Aug '15 - Fire Prevention for Water Utility Field Staff	100%
July '15 - Water and Power Resiliency Workshop	100%
July '15 - Initiate additional NIMS/ICS Training (online and classroom-based)	Ongoing - approximately 20% complete presently
June '15 - Confined Space Awareness and Non-Entry Rescue	100%
Mar '15 - Initiate Target Solutions Online Training	Ongoing training includes topics not covered during classroom-based safety training



# Beach Ocean Monitoring Report

ALISO CREEK OCEAN OUTFALL MONITORING REPORT

June 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	
06/01/16	No Flow				2.511	8.8	5.7	<0.1	1.590	11.4	5.0	0.1	1.956	2.7	3.0	0.1	0.850	0.559	0.100	7.566	
06/02/16	No Flow				1.356	9.8	4.1	<0.1	0.470	6.9	4.0	0.2	1.730	2.3	3.0	<0.1	0.851	0.601	0.100	5.108	
06/03/16	No Flow				1.470	10.2	4.7	<0.1	1.060	4.2	3.0	0.2	1.847	1.7	4.0	0.1	0.697	0.600	0.080	5.754	
06/04/16	No Flow				1.755	8.4	3.3	<0.1	0.550				1.877				0.852	0.593	0.110	5.737	
06/05/16	No Flow				7.760	5.6	2.2	<0.1	0.750	3.4	3.0	<0.1	1.875	3.4	4.0		0.853	0.601	0.110	11.949	
06/06/16	No Flow				1.928	9.8	4.7	<0.1	2.530	7.6	3.0	<0.1	2.519	6.7	5.0	0.1	0.852	0.600	0.070	8.499	
06/07/16	No Flow				1.309	10.4	3.9	<0.1	0.890	3.4		0.1	2.013	2.2	12.0	0.1	0.853	0.633	0.110	5.808	
06/08/16	No Flow				2.229	7.4	4.1	<0.1	0.120	5.9	5.0	0.1	1.958	4.9	6.0	0.1	0.852	0.635	0.100	5.894	
06/09/16	No Flow				1.224	10.2	2.8	<0.1	0.010	2.7	3.0	0.1	1.518	3.3	5.0	0.1	0.852	0.635	0.110	4.349	
06/10/16	No Flow				1.399	10.8	3.0	<0.1	0.050	3.0	8.0	0.1	2.455	7.7	16.0	0.1	0.852	0.635	0.100	5.491	
06/11/16	No Flow				1.804	12.8	3.5	<0.1	0.040				2.026				0.638	0.654	0.100	5.262	
06/12/16	No Flow				1.744	12.0	3.1	<0.1	1.890	3.0	3.0	<0.1	1.844	11.8	9.0		0.424	0.633	0.090	6.625	
06/13/16	No Flow				2.229	8.0	3.7	<0.1	4.860	5.8	4.0	0.1	2.496	2.8	5.0	0.1	0.424	0.634	0.100	10.743	
06/14/16	No Flow				1.878	8.8	3.0	<0.1	1.200	5.4	4.0	0.1	2.429	2.4	3.0	0.2	0.425	0.633	0.100	6.665	
06/15/16	No Flow				2.093	10.8	4.3	<0.1	0.060	3.4	3.0	0.1	2.034	2.4	3.0	<0.1	0.673	0.633	0.100	5.593	
06/16/16	No Flow				2.735	12.8	4.4	<0.1	0.130	8.4	4.0	0.1	1.959	3.6	3.0	0.1	0.853	0.633	0.080	6.390	
06/17/16	No Flow				0.723	14.4	5.7	<0.1	0.310	3.9	2.0	0.3	1.946	2.4	3.0	0.1	0.853	0.632	0.100	4.564	
06/18/16	No Flow				1.581	12.8	3.0	<0.1	0.130				2.003				0.853	0.631	0.100	5.298	
06/19/16	No Flow				2.100	12.8	6.2	<0.1	0.520	4.4	2.0	<0.1	2.073	13.0	11.0		0.854	0.667	0.100	6.314	
06/20/16	No Flow				1.142	13.8	6.0	<0.1	1.530	5.1	3.0	0.1	2.118	3.6	4.0	0.1	0.853	0.669	0.120	6.432	
06/21/16	No Flow				2.117	14.4	7.8	<0.1	0.030	8.8	6.0	<0.1	2.418	2.9	5.0	<0.1	0.853	0.668	0.090	6.176	
06/22/16	No Flow				1.874	11.4	8.2	<0.1	0.010	2.0	4.0	0.2	1.565	4.0	6.0	0.1	0.795	0.669	0.110	5.023	
06/23/16	No Flow				1.352	11.4	6.7	<0.1	0.030	3.8	3.0	0.1	1.509	2.6	4.0	0.1	0.853	0.668	0.090	4.502	
06/24/16	No Flow				1.313	9.0	3.4	<0.1	0.010	2.8	2.0	<0.1	1.934	6.2	5.0	0.1	0.588	0.668	0.100	4.613	
06/25/16	No Flow				1.501	10.0	4.1	<0.1	0.010				1.833				0.853	0.685	0.100	4.982	
06/26/16	No Flow				2.347	15.0	3.6	<0.1	0.250	4.4	12.0	<0.1	1.785	12.8	17.0		0.756	0.687	0.110	5.935	
06/27/16	No Flow				0.685	20.6	3.7	<0.1	1.500	3.6	5.0	0.2	2.383	2.7	6.0	0.2	0.825	0.688	0.080	6.161	
06/28/16	No Flow				2.644	18.4	4.1	<0.1	0.780	4.3	2.0	<0.1	1.919	2.1	4.0	<0.1	0.802	0.687	0.080	6.912	
06/29/16	No Flow				1.168	14.4	7.9	<0.1	0.130	2.6	2.0	0.1	1.756	4.0	4.0	0.1	0.847	0.687	0.100	4.688	
06/30/16	No Flow				1.554	18.2	7.1	<0.1	0.010	1.7	2.0	<0.1	1.972	2.1	4.0	0.1	0.452	0.687	0.110	4.785	
AVG	No Flow				1.918	11.8	4.6	<0.1	0.715	4.7	3.9	<0.1	1.992	4.5	5.9	<0.1	0.761	0.644	0.098	6.127	
TOTAL	No Flow				57.53				21.45				59.75				22.84	19.31	2.950	183.82	None

South Orange County Wastewater Authority-Aliso Creek Ocean Outfall

REPORT FOR: June 2016  
 REPORT DUE: August 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: Low Tide 0629

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	06/08/16	1010	10	<10	2	None	None	None	None	Green		Turbid		
S4	06/08/16	0945	<10	<10	2	None	None	None	None	Green		Turbid		
S5	06/08/16	0935	<10	<10	<2	None	None	None	None	Green	65	Turbid		
S6	06/08/16	0900	<10	<10	<2	None	None	None	None	Green		Turbid		
WEST	06/08/16	0855	<10	<10	<2	None	None	None	None	Green		Turbid		
S7	06/08/16	0850	<10	<10	<2	None	None	None	None	Green		Turbid		
S8	06/08/16	0845	<10	<10	<2	None	None	None	None	Green		Turbid		
S9	06/08/16	0819	<10	<10	2	None	None	None	None	Green	65	Turbid		
ACM1	06/08/16	0820	<10	10	<2	None	None	None	None	Green		Turbid		
S10	06/08/16	0805	<10	<10	2	None	None	None	None	Green		Turbid		
S11	06/08/16	0800	<10	<10	2	None	None	None	None	Green		Turbid		
S12	06/08/16	0755	30	<10	<2	None	None	None	None	Green		Turbid		

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

South Orange County Wastewater Authority-Aliso Creek Ocean Outfall

REPORT FOR: June 2016  
 REPORT DUE: August 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 1055

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	06/13/16	0755	<10	<10	<2	None	None	None	None	Green	66	Slightly Turbid		
S4	06/13/16	0812	<10	10	<2	None	None	None	None	Green	66	Slightly Turbid		
S5	06/13/16	0828	<10	<10	<2	None	None	None	None	Green		Slightly Turbid		
S6	06/13/16	0841	<10	<10	<2	None	None	None	None	Green		Slightly Turbid		
WEST	06/13/16	0843	10	10	<2	None	None	None	None	Green	66	Slightly Turbid		
S7	06/13/16	0845	<10	<10	<2	None	None	None	None	Green		Slightly Turbid		
S8	06/13/16	0848	<10	<10	<2	None	None	None	None	Green	66	Slightly Turbid		
S9	06/13/16	1010	10	<10	2	None	None	None	None	Green		Slightly Turbid		
ACM1	06/13/16	1006	<10	<10	<2	None	None	None	None	Green	66	Slightly Turbid		
S10	06/13/16	935	<10	<10	<2	None	None	None	None	Green		Slightly Turbid		
S11	06/13/16	941	<10	<10	8	None	None	None	None	Green		Slightly Turbid		
S12	06/13/16	955	<10	<10	2	None	None	None	None	Green	67	Slightly Turbid		

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

South Orange County Wastewater Authority-Aliso Creek Ocean Outfall

REPORT FOR: June 2016  
 REPORT DUE: August 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 1022  
 Weather: Clear  
 COMMENTS:

STA#	DATE	TIME	Total	Fecal	Entero-	Material of Sewage		Oil & Grease	Odor	Water Color	H2O Temp(F)	Water Condition	Water Outlet	Birds
			Coliform CFU/100ml SM9222B	Coliform CFU/100ml SM9222D	coccus CFU/100ml EPA 1600	Onshore	Offshore							
S3	06/20/16	0730	<20	<20	2	None	None	None	None	Green	56	Clear		
S4	06/20/16	0710	<20	<20	<3	None	None	None	None	Green		Clear		
S5	06/20/16	0700	9	<20	<3	None	None	None	None	Green	56	Clear		
S6	06/20/16	1000	<20	<20	<3	None	None	None	None	Green		Clear		
WEST	06/20/16	955	<20	<20	<3	None	None	None	None	Green		Slightly Turbid		
S7	06/20/16	950	<20	<20	<3	None	None	None	None	Green		Clear		
S8	06/20/16	945	<20	<20	<3	None	None	None	None	Blue		Clear		
S9	06/20/16	825	<20	<20	<3	None	None	None	None	Green	58	Slightly Turbid		
ACM1	06/20/16	830	<20	<20	<3	None	None	None	None	Green		Slightly Turbid		
S10	06/20/16	835	<20	<20	<3	None	None	None	None	Green		Clear		
S11	06/20/16	840	<20	<20	<3	None	None	None	None	Green		Clear		
S12	06/20/16	845	<20	<20	<3	None	None	None	None	Blue	58	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: June 2016  
 REPORT DUE: August 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 0908

Weather: Clear

COMMENTS:

STA#	DATE	TIME	Total	Fecal	Entero-	Material of Sewage		Oil & Grease	Odor	Water Color	H2O Temp(F)	Water Condition	Water Outlet	Birds
			Coliform CFU/100ml SM9222B	Coliform CFU/100ml SM9222D	coccus CFU/100ml EPA 1600	Onshore	Offshore							
S3	06/27/16	1040	30	9	<3	None	None	None	None	Green	73	Slightly Turbid		
S4	06/27/16	1020	<20	<20	2	None	None	None	None	Green		Slightly Turbid		
S5	06/27/16	1010	<20	<20	<3	None	None	None	None	Green		Slightly Turbid		
S6	06/27/16	950	<20	<20	<3	None	None	None	None	Green	73	Slightly Turbid		
WEST	06/27/16	945	<20	<20	<3	None	None	None	None	Green		Slightly Turbid		
S7	06/27/16	940	<20	<20	<3	None	None	None	None	Green	73	Slightly Turbid		
S8	06/27/16	925	10	<10	<10	None	None	None	None	Green		Slightly Turbid		
S9	06/27/16	920	<20	9	<3	None	None	None	None	Green		Slightly Turbid		
ACM1	06/27/16	910	20	9	<3	None	None	None	None	Green		Slightly Turbid		
S10	06/27/16	855	<20	<20	<3	None	None	None	None	Green		Slightly Turbid		
S11	06/27/16	845	<20	<20	<3	None	None	None	None	Green		Slightly Turbid		
S12	06/27/16	830	<20	<20	<3	None	None	None	None	Green		Slightly Turbid		

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

## 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: June 2016

REPORT DUE: August 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: High Tide 0747

Sta No.	Sample Depth	Sample Date	Total Coliform	Fecal Coliform	Enterococcus	Sample Time	Oil & Grease	Sewage Debris	0 - None 1 - Mild 2 - Moderate 3 - Severe
			CFU/100ml SM9222B	CFU/100ml SM9222D	CFU/100ml EPA 1600				
A-1	Surface	06/02/16	<2	<2	<2	800	0	0	
A-1	Mid depth	06/02/16	<10	<10	<10				
A-2	Surface	06/02/16	<2	<2	<2	746	0	0	
A-2	Mid depth	06/02/16	<10	<10	<10				
A-3	Surface	06/02/16	<2	<2	<2	750	0	0	
A-3	Mid depth	06/02/16	<10	<10	<10				
A-4	Surface	06/02/16	2	<2	<2	805	0	0	
A-4	Mid depth	06/02/16	<10	<10	<10				
A-5	Surface	06/02/16	<2	<2	<2	754	0	0	
A-5	Mid depth	06/02/16	<10	<10	<10				
B-1	Surface	06/02/16	<2	<2	<2	740	0	0	
B-1	Mid depth	06/02/16	10	<10	<10				
B-2	Surface	06/02/16	<2	<2	<2	809	0	0	
B-2	Mid depth	06/02/16	10	<10	<10				
N1	Surface	06/02/16	<2	<2	<2	827	0	0	
N2	Surface	06/02/16	2	2	<2	825	0	0	
N3	Surface	06/02/16	2	<2	<2	823	0	0	
N4	Surface	06/02/16	2	2	<2	821	0	0	
N5	Surface	06/02/16	10	<2	<2	820	0	0	
N6	Surface	06/02/16	4	2	<2	818	0	0	
N7	Surface	06/02/16	2	<2	<2	816	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
IRWD	IRWD	3,250	Tertiary Effluent	Agency reported "Montbury HOA, 21292 Vista Estate reported 6/5/2016 @ 22:29, isolated @ 23:35; 3250 gallon leak customer side of meter"	Aliso Creek	6/5/2016	6/5/2016

SAN JUAN CREEK OCEAN OUTFALL MONITORING REPORT

June 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
06/01/16	5.780	6.5	9.0	0.1	2.532	14.0	8.0	<0.1	0.660	7.2	10.1	<0.1	0.062	6.8	4.0	<0.1	0.512	No Flow	9.670	
06/02/16	6.470	8.3	4.3	0.1	2.159	11.3	7.0	<0.1	0.420	6.8	7.7	<0.1	0.288	2.8	3.0	<0.1	0.529	No Flow	10.290	
06/03/16	6.100	9.0	5.5	0.2	2.030	13.2	7.0	<0.1	0.440	8.8	17.5	<0.1	0.343	6.4	2.0	<0.1	0.529	No Flow	10.440	
06/04/16	6.350				2.184				0.320				0.279				0.527	No Flow	10.350	
06/05/16	6.130	10.0	7.8		2.306				0.810				0.058				0.527	No Flow	10.630	
06/06/16	5.920	10.3	7.0	0.1	3.811	12.9	8.0	<0.1	1.560	4.8	7.1	<0.1	0.057	6.4	8.0	<0.1	0.528	No Flow	11.320	
06/07/16	5.750	8.1	16.6	0.2	2.430	8.7	6.0	<0.1	1.360	5.2	6.3	<0.1	0.058	4.8	8.0	<0.1	0.528	No Flow	10.470	
06/08/16	5.730	9.2	6.8	0.1	1.487	8.8	5.0	<0.1	0.720	6.4	7.2	0.1	0.649	10.8	4.0	0.1	0.332	No Flow	9.360	
06/09/16	5.670	6.5	6.0	0.1	2.059	14.6	8.0	<0.1	0.340	5.6	4.5	<0.1	0.068	10.0	4.0	<0.1	No Flow	No Flow	8.570	
06/10/16	5.570	8.0		0.1	2.002	11.9	7.0	<0.1	0.300	5.6	4.2	<0.1	0.032	3.2	2.0	<0.1	No Flow	No Flow	8.280	
06/11/16	5.590				2.029				0.220				0.026				No Flow	No Flow	8.080	
06/12/16	5.860	6.8	6.0		2.254				0.560				0.016				No Flow	No Flow	8.760	
06/13/16	6.040	11.6	6.8	0.4	2.415	10.2	7.0	<0.1	0.590	9.6	7.4	<0.1	0.029	13.2	8.0	<0.1	0.361	No Flow	9.010	
06/14/16	6.040	8.2	4.4	0.1	2.210	9.1	7.0	<0.1	0.390	6.8	6.9	<0.1	0.015	11.2	7.0	0.1	0.513	No Flow	9.320	
06/15/16	5.780	20.5	5.8	0.1	2.125	12.5	7.0	<0.1	0.500	3.2	3.8	<0.1	0.010	8.4	4.0	<0.1	0.530	No Flow	8.720	
06/16/16	5.730	13.9	7.0	0.1	2.537	8.5	6.0	<0.1	0.540	4.4	4.3	<0.1	0.011	5.2	4.0	0.1	0.531	No Flow	9.250	
06/17/16	5.590	8.7	6.2	0.3	1.896	10.5	7.0	<0.1	0.390	7.6	10.8	0.1	0.022	2.0	4.0	0.1	0.529	No Flow	8.890	
06/18/16	5.640				1.984				0.740				0.020				0.528	No Flow	9.390	
06/19/16	5.760	5.2	5.0		1.903				0.590				0.031				0.528	No Flow	9.290	
06/20/16	5.690	7.9	4.7	0.1	1.888	8.0	6.0	<0.1	0.710	14.8	7.9	0.1	0.079	8.8	9.0	<0.1	0.532	No Flow	9.040	
06/21/16	6.180	9.2	7.8	<0.1	2.213	9.4	7.0	<0.1	0.290	6.8	7.3	0.1	0.048	5.2	8.0	0.1	0.513	No Flow	9.430	
06/22/16	5.940	26.0	14.1	0.1	2.151	11.0	7.0	<0.1	0.500	3.6	3.3	0.1	0.054	5.2	4.0	<0.1	0.336	No Flow	8.990	
06/23/16	5.650	10.3	6.8	0.1	2.116	10.7	7.0	<0.1	0.180	10.4	13.3	<0.1	0.145	4.4	5.0	<0.1	No Flow	No Flow	7.910	
06/24/16	5.690	16.2	7.2	0.1	1.576	9.9	7.0	<0.1	0.230	8.8	9.0	0.1	0.053	4.4	5.0	<0.1	No Flow	No Flow	8.040	
06/25/16	5.730				1.908				0.180				0.038				No Flow	No Flow	8.070	
06/26/16	5.690	4.4	4.7		1.850				0.430				0.018				No Flow	No Flow	8.130	
06/27/16	5.670	9.3	5.0	0.4	2.127	9.5	7.0	<0.1	2.410	6.4	8.4	0.1	0.155	4.4	7.0	0.1	0.385	No Flow	8.420	
06/28/16	5.610	9.5	5.4	0.1	1.823	8.1	5.0	<0.1	2.870	6.4	7.3	0.2	0.051	3.2	7.0	0.2	0.520	No Flow	8.980	
06/29/16	5.740	13.0	6.2	<0.1	1.772	11.4	7.0	<0.1	0.240	14.5	8.9	0.1	0.049	10.0	5.0	0.1	0.537	No Flow	8.730	
06/30/16	5.520	11.0	4.8	0.2	2.284	13.2	8.0	<0.1	0.060	7.2	5.4	<0.1	0.046	6.0	6.0	0.1	0.534	No Flow	8.310	
AVG	5.820	10.3	6.8	<0.2	2.135	10.8	6.9	<0.1	0.652	7.3	7.7	<0.1	0.094	6.5	5.4	<0.1	0.363	No Flow	9.138	
TOTAL	174.610				64.061				19.550				2.810				10.889	No Flow	274.140	None

South Orange County Wastewater Authority-San Juan Creek Ocean Outfall

REPORT FOR: June 2016  
 REPORT DUE: August 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 0647

Weather: Overcast

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	06/01/16	0820	<20	<20	<2	None	None	None	None	Green		Turbid		
S1	06/01/16	0825	50	40	6	None	None	None	None	Green		Turbid		
S2	06/01/16	0755	60	<20	10	None	None	None	None	Green		Turbid		
DSB5	06/01/16	0740	<20	<20	5	None	None	None	None	Green	63	Turbid		
S3	06/01/16	0830	20	<20	6	None	None	None	None	Green		Turbid		
DSB4	06/01/16	0830	20	<20	2	None	None	None	None	Green		Turbid		
S5	06/01/16	0835	<20	<20	4	None	None	None	None	Green		Turbid		
DSB1	06/01/16	0840	<20	<20	8	None	None	None	None	Green	64	Turbid		
SJC1	06/01/16	0822	<100	<100	<100	None	None	None	None	Green		Turbid		

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

REPORT FOR: June 2016  
 REPORT DUE: August 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 1137

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							
S0	06/06/16	0835	20	40	60	None	None	None	None	Green	64	Slightly Turbid		
S1	06/06/16	0855	<20	<20	<2	None	None	None	None	Green		Slightly Turbid		
S2	06/06/16	0825	<20	<20	<2	None	None	None	None	Green		Slightly Turbid		
DSB5	06/06/16	0820	20	70	10	None	None	None	None	Green	64	Slightly Turbid		25
S3	06/06/16	0905	20	<20	<2	None	None	None	None	Green		Turbid		
DSB4	06/06/16	0900	<20	20	<2	None	None	None	None	Green		Turbid		
S5	06/06/16	0915	<20	<20	<2	None	None	None	None	Green		Turbid		
DSB1	06/06/16	0920	20	<20	<2	None	None	None	None	Green		Turbid		
C1	06/06/16	0830	<10	<10	<2	None	None	None	None	Green	64	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: June 2016  
 REPORT DUE: August 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 1055

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							
S0	06/13/16	805	>=40	<40	40	None	None	None	None	Green	63	Turbid		
S1	06/13/16	810	>=40	<40	<40	None	None	None	None	Green		Turbid		
S2	06/13/16	755	>=40	20	20	None	None	None	None	Green	63	Turbid		
DSB5	06/13/16	745	>=40	<40	<40	None	None	None	None	Brown		Turbid		
S3	06/13/16	815	>=40	<40	<40	None	None	None	None	Green		Turbid		
DSB4	06/13/16	820	>=40	<40	<40	None	None	None	None	Green		Turbid		
S5	06/13/16	825	>=40	<40	<40	None	None	None	None	Green		Turbid		
DSB1	06/13/16	830	>=40	<40	<40	None	None	None	None	Green	64	Turbid		
C1	06/13/16	800	>=100	<100	20	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: June 2016  
 REPORT DUE: August 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 1022

Weather: Clear

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	06/20/16	0750	10	<20	6	None	None	None	None	Brown		Turbid		
S1	06/20/16	0800	40	<40	<40	None	None	None	None	Green		Turbid		
S2	06/20/16	0745	20	<40	<40	None	None	None	None	Brown	60	Turbid		
DSB5	06/20/16	0738	>=40	40	50	None	None	None	None	Brown		Turbid		
S3	06/20/16	0805	<40	<40	460	None	None	None	None	Green		Turbid		
DSB4	06/20/16	0810	20	<40	<40	None	None	None	None	Green		Turbid		
S5	06/20/16	0815	20	<40	<40	None	None	None	None	Green		Turbid		
DSB1	06/20/16	0820	<40	<40	<40	None	None	None	None	Green	60	Turbid		
C1	06/20/16	0755	90	<200	<20	None	None	None	None	Brown		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: June 2016  
 REPORT DUE: August 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 0908

Weather: Clear

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	06/27/16	0825	30	<30	<30	None	None	None	None	Green		Slightly Turbid		
S1	06/27/16	0835	<40	<40	20	None	None	None	None	Green		Slightly Turbid		
S2	06/27/16	0815	<40	<40	<40	None	None	None	None	Green	73	Slightly Turbid		
DSB5	06/27/16	0805	20	50	<40	None	None	None	None	Brown		Slightly Turbid		
S3	06/27/16	0840	20	<40	<40	None	None	None	None	Green	73	Slightly Turbid		
DSB4	06/27/16	0844	<40	<40	<40	None	None	None	None	Green	73	Slightly Turbid		
S5	06/27/16	0850	<40	<40	20	None	None	None	None	Green		Slightly Turbid		
DSB1	06/27/16	0859	<40	<40	<40	None	None	None	None	Green	73	Slightly Turbid		
C1	06/27/16	0820	<200	<200	<200	None	None	None	None	Green	73	Slightly Turbid		

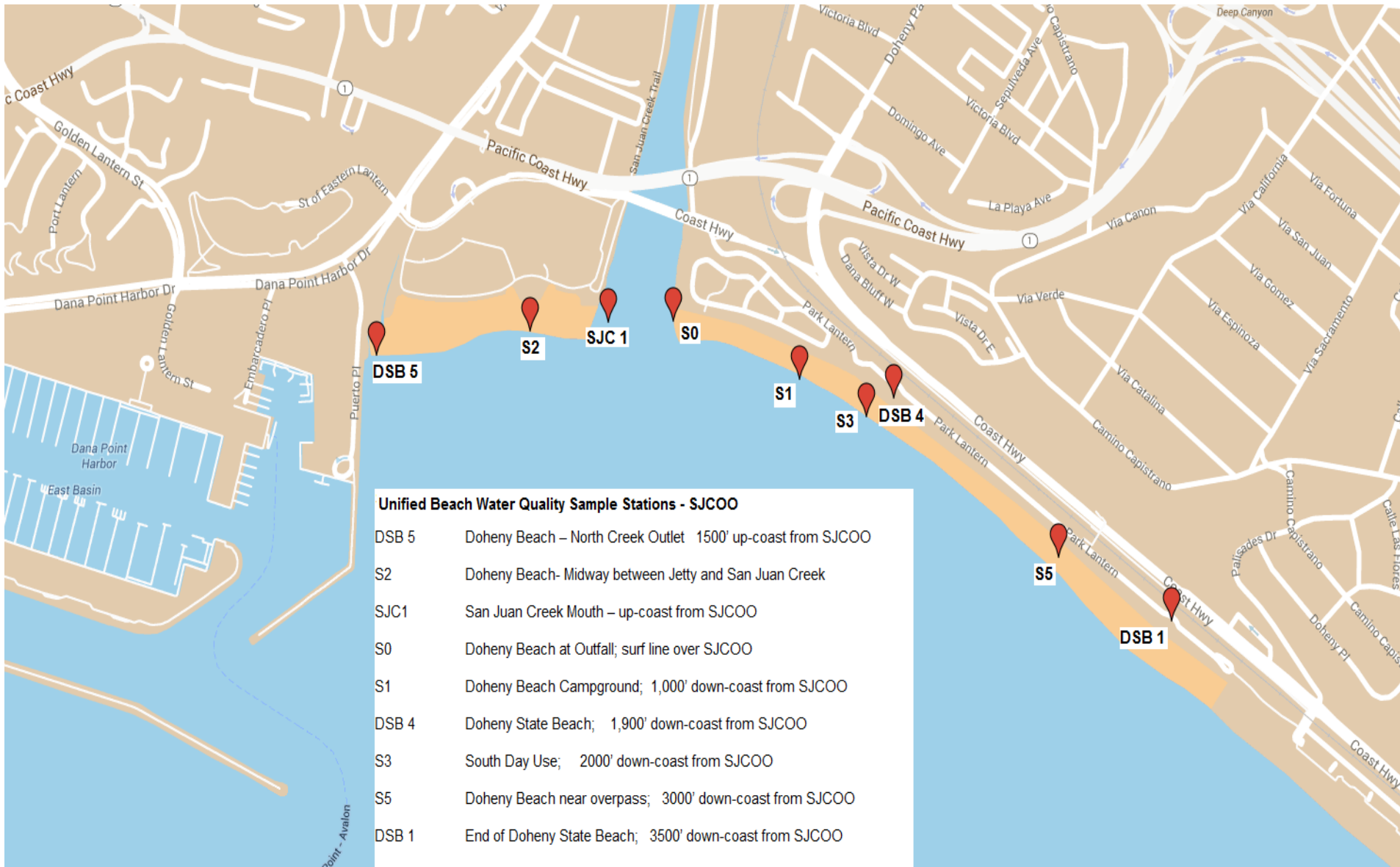
RECEIVING WATER LIMITATIONS: Single Sample Maximum - Total coliform density shall not exceed 10,000 per 100ml; Fecal coliform density shall not exceed 400 per 100ml; Enterococcus density shall not exceed 104 per 100ml.

## 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: June 2016

REPORT FREQUENCY: Monthly

REPORT DUE: August 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: High Tide 0747

Sta No.	Sample Depth	Sample Date	Total Coliform CFU/100ml SM9222B	Fecal Coliform CFU/100ml SM9222D	Enterococcus CFU/100ml EPA 1600	Sample Time	Oil & Grease	Sewage Debris	
A-1	Surface	06/02/16	2	2	2	941	0	0	0 - None
A-1	Mid depth	06/02/16	20	<10	<10				1 - Mild
A-2	Surface	06/02/16	<2	<2	<2	950	0	0	2 - Moderate
A-2	Mid depth	06/02/16	20	<10	<10				3 - Severe
A-3	Surface	06/02/16	<2	<2	<2	954	0	0	
A-3	Mid depth	06/02/16	<10	<10	<10				
A-4	Surface	06/02/16	2	2	<2	1000	0	0	
A-4	Mid depth	06/02/16	<10	20	<10				
A-5	Surface	06/02/16	4	2	<2	957	0	0	
A-5	Mid depth	06/02/16	20	<10	<10				
B-1	Surface	06/02/16	2	<2	<2	934	0	0	
B-1	Mid depth	06/02/16	20	<10	<10				
B-2	Surface	06/02/16	<2	<2	<2	1010	0	0	
B-2	Mid depth	06/02/16	<10	<10	<10				
N1	Surface	06/02/16	<2	<2	<2	930	0	0	
N2	Surface	06/02/16	<2	<2	<2	926	0	0	
N3	Surface	06/02/16	4	<2	<2	922	0	0	
N4	Surface	06/02/16	8	12	2	915	0	0	
N5	Surface	06/02/16	4	6	<2	912	0	0	
N6	Surface	06/02/16	<2	2	<2	909	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
SMWD	SMWD	500	Secondary Effluent	A line break at the 3A Treatment Plant caused a 50 gpm leak of secondary effluent that was completely contained and returned to the treatment process.	None	04-12-16	04-12-16

# Recycled Water Report

Recycled Water Quality  
Summary  
2016

SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

QUARTERLY RECYCLED WATER MONITORING

Monitoring Period Ending: June 30, 2016

Constituent	Units	12-month Avg Maximum Permit Limit	IRWD-LAWRP 12-month Average	ETWD-WRP 12-month Average	TCWD 12-month Average	SMWD Oso 12-month Average	SMWD Chiquita 12-month Average	SMWD Nichols 12-month Average	MNWD-3A 12-month Average	MNWD-RTP 12-month Average	SCWD-CTP 12-month Average
			*	*							***
TDS	mg/L	1000	868	1011	1000	960	971	1090	1010	990	1042
Chloride	mg/L	375	177	184	240	181	200	290	231	234	262
Sulfate	mg/L	400	201	278	300	285	300	350	310	351	324
Sodium	mg/L	None	211	168	200	140	99	240	170	180	207
Alkalinity	mg/L	None								260	228
Adjusted SAR	Ratio	None	4.90		6.70	4.14	2.99	6.08	5.03	4.37	5.10
Iron	mg/L	0.3	0.013	0.020	0.027	0.010	0.120	0.010	0.290	0.240	0.140
Manganese	mg/L	0.05	0.014	0.010	0.005	0.021	0.035	0.022	0.070	0.055	0.054
MBAS	mg/L	0.5	0.07	<0.10	0.07	0.10	0.10	0.10	0.10	0.08	<0.1
Boron	mg/L	0.75	0.36	0.320	0.36	0.27	0.36	0.35	0.32	0.33	0.28
Fluoride	mg/L	None	0.43	1.47	0.28	1.37	0.64	1.36	1.03	0.90	0.98
Total Organic Carbon	mg/L	None	9.0		8.7	6.8	7.6	7.1	9.8	11.2	10.0

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

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

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



**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	
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 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							86.86
CSJC <sup>2</sup>	Chiquita/SMWD	8.53	16.14	16.23	21.95	22.83	25.94							111.62
CSJC <sup>3</sup>	Non-Domestic Well	0.88	0.38	2.41	0.27	0.00	20.48							24.42
ETWD	Region 8	23.42	55.08	52.33	105.24	133.64	172.46							542.17
IRWD														
	<sup>4</sup> IRWD - 8	11.00	43.30	37.20	95.60	84.80	98.50							370.40
	<sup>4</sup> IRWD - 9	8.80	33.60	31.30	59.20	62.40	88.10							283.40
SCWD	SOCWA CTP	35.37	76.63	47.88	94.72	112.39	122.75							489.74
MNWD	JRP	103.73	233.36	250.70	470.52	536.66	630.13							2225.10
	3-A Plant	0.00	38.94	0.00	126.06	171.24	178.12							514.36
	<sup>5</sup> CTP	-0.43	14.22	-1.88	5.04	3.09	6.45							26.49
SMWD	Oso Creek	158.48	107.56	138.93	143.01	140.89	131.78							820.65
	Chiquita	66.20	269.51	240.11	388.28	380.84	459.30							1804.24
	Nichols	0.00	1.47	1.58	1.45	1.60	1.81							7.91
TCWD	RRWRP	53.49	48.18	52.36	48.80	52.35	50.10							305.28
TOTALS		461.37	908.01	854.80	1533.15	1676.81	1953.53	0.00	0.00	0.00	0.00	0.00	0.00	7387.67

<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:** August 4, 2016

**TO:** SOCWA Board of Directors  
**FROM:** Betty Burnett, General Manager  
**STAFF CONTACT:** Katie Greenwood, Source Control Manager  
**SUBJECT:** Monthly Pretreatment Report: May/June/July - 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 still needs to complete the amending process to their pretreatment ordinances and submit a copy to SOCWA for our files.** (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.
  - CSJC- SOCWA provided draft red-line copy of each amended ordinance via email. SOCWA staff will continue to work with CSJC staff to complete the amendment process.
- Staff has begun the preparation for annual site inspections and monitoring/sampling of all SIU/CIU's in the SOCWA service area. This is a required activity of the pretreatment program. These activities are required to be completed by December 31, 2016.
- Staff attended the Annual NACWA National Pretreatment and Pollution Prevention workshop in Long Beach, California May 17-20, 2016.

## Inspection Related Activities

- Staff inspected the following diversions on June 8, 2016, with the assistance of City of Dana Point:
  - CSJC-N4-001-08-17 – Alipaz
  - SCWD-N4-002-11-17 – North Creek
  - SCWD-N4-003-11-17 – Del Obispo
  - SCWD-N4-004-04-17 – Salt Creek Backwash

## Permit Related Activities

- Staff has issued or is preparing to issue the following Wastewater Discharge Permits:
  - SMWD-1-003-09-16 – Applied Medical Resources – Permit renewal includes addition of new process and outfall for a total of two sampling points. Facility is a Rubber Manufacturing Point Source Category.

- SCWD-N4-006-09-16 – Nuisance Water Diversion for Headlands Reserves (Baby Beach) – Dana Point is working with SCWD to take over permit responsibility through additional Diversion Agreement Extension.
- SCWD-N4-09-16 – Nuisance Water Diversion for Montage Resorts – Permit requires new agreement or extension of existing agreement.
- CSC-2-004 – Flavorchem – Permit is anticipated to be renewed. SOCWA Staff is awaiting submittal of historical self-monitoring reports over past reporting year. CSC Staff most recently were responsible for overseeing permit conditions and review of monthly self-monitoring reports. SOCWA Staff is anticipating taking over permit responsibilities once renewal permit is in place.
- CSC-2-006 – SnowPure – Permit has been issued. CSC Staff most recently were responsible for overseeing permit conditions and review of monthly self-monitoring reports. SOCWA Staff is anticipating taking over permit responsibilities once renewal permit is in place.
- IRWD-1-001 – Dynacast – SOCWA Staff has been working with the facility to include treated oily mop water in wastewater discharge. The oily mop water is subject to Metal Molding and Casting Point Source Category with production-based standards.
- SMWD-2-004 (Forespar) and SMWD-2-005 (GlassWerk) - in process of issuing renewal permits.

### **Summary of Enforcement Events**

- SOCWA Staff issued a warning notice of non-compliance (WNON) on May 23, 2016, to Vadnais (SMWD/MNWD) for obtaining Self-Monitoring Report sample outside of the reporting period.
- SOCWA Staff issued a NON to Montage (SCWD) for failure to submit April SMR by due date and to submit a signed Self-Monitoring Report Certification.
- SOCWA Staff issued another WNON to South Coast Fashion Jewelry on June 13, 2016, for failure to ensure that their contract lab use EPA approved methods listed in 40 CFR Part 136. This issue has been resolved.
- SOCWA Staff issued a WNON to FlavorChem on July 5, 2016, for failure to ensure that their contact lab use EPA approved methods listed in 40 CFR Part 136.

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

<u>MA</u>		<u>Events</u>	<u>Permit</u>	<u>NIWD</u>	<u>BMP</u>	<u>FSE</u>	<u>OSE</u>	<u>Closed</u>	<u>Enforcement</u>	<u># of IUs</u>
CLB	(S)	2	3	2	5	8	110	0	0	128
CSC	(M)	14	7	35	18	181	1283	0	4	1524
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	2	1058
MNWD	(S)	55	3	125	40	593	2021	5	0	2776
SMWD	(S)	9	6	20	18	168	711	2	3	923
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	0	3
<b>Totals</b>		<b>51</b>	<b>54</b>	<b>391</b>	<b>166</b>	<b>1563</b>	<b>7038</b>	<b>2</b>	<b>7</b>	<b>9238</b>
Dentist (All)										371
<b>Total Known IUs</b>										<b>9609</b>

(S) = SOCWA conducts PT program.

(M) = MA conducts PT program /w SOCWA oversight.

(U) = Urban Diversion Only.

OSE = Other Surveyed Establishment.

NIWD = Non-industrial Waste Discharger.

BMP = Best Management Practices.

FSE = Food Service Establishment.

YTD = Year to Date.

# Agenda Item

**Legal Counsel Review:** N/A

**Meeting Date:** August 4, 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)	Construction	The new motorized control valves have been installed; the automated aeration system has been tested and approved.
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	Carollo is currently working on the development of the cost model.
20162RL2	Effluent Standby Generator ATS Replacement (2016)	Design	Gateway Pacific is preparing the shop drawings for the new equipment as part of this work.
3252	Plant 1 Standby Power Generator Replacement (2017)	Design	RFP for design services to be issued in August, 2016.
3251	Effluent Flow Meter Replacement (2017)	Design	RFP for design services to be issued in August, 2016.
3250	Plant 1 Grit Basin Improvements (2017)	Design	RFP for design services to be issued in August, 2016.
3253	Effluent System Valve Replacement (2017)	Design	RFP for design services to be issued in August, 2016.
1112	Facility Improvements - Structural Repair (2015)	Construction	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	Approved shop drawings have been submitted to Gateway Pacific.
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. The RFP will be issued in late July, 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.
1113	Facility Safety Review (2015)	Study	Project has been completed.

**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 obtaining a proposal from Andritz.
20172RS1	Dewatering System Condition Assessment (2017) (NCP)	Condition Assessment	RFP for engineering services to be issued in October, 2016.
20172RS2	Heating System Condition Assessment (2017) (NCP)	Condition Assessment	RFP for engineering services to be issued in October, 2016.
1116	Facility Improvements - Solids Area (2015)	Design	Part of the Package 'B' Improvements.

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

<i>Task Code</i>	<i>Description</i>	<i>Phase</i>	<i>Status</i>
<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	Contractor is performing upgrade work in Primary Sedimentation Basin No.1 and No.2.
1250	Channel & Basin Lining Repair (2013)	Construction	Contractor is performing upgrade work in Primary Sedimentation Basin No.1 and No.2.
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	Recommendation for award of project to Black & Veatch to be presented at the August 4, 2016 Engineering Committee meeting.
20165R3	Dilution Study (2017) (NCP)	Study	RFP for evaluation services to be issued in August 2016.

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

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

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

<i>Task Code</i>	<i>Description</i>	<i>Phase</i>	<i>Status</i>
<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 in August, 2016.
201615RC1	Switchgear Replacement Design (2016)	Design	Evaluation by CH2MHill is ongoing.
201615RC2	Grating Rebate and Concrete Repair Between Aeration Basins and Primary Basins (2016)	Design	Project will bid as part of CTP Miscellaneous Improvements 2016 in August, 2016.
201615RC3	Influent/Overflow Condition Assessment (2016)	Study	SOCWA has retained V&A to perform this work.
201615RC4	Grating Rebate and Concrete Repair Between HW Building and Primary Basins (2016)	Design	Project will bid as part of CTP Miscellaneous Improvements 2016 in August, 2016.
201615RC5	Grit System Corrosion Assesment (2016)	Study	Project has been completed.
201615RC6	CTP Facility Upgrade Design (2016)	Design	Evaluation by CH2MHill is ongoing.
1316	Existing Export Sludge Wetwell Refurbishment (2015)	Construction	This item is part of the Miscellaneous Improvements 2015 project; this project is currently in shop drawing phase.
1317	Facility Safety Review (2015)	Study	Project has been completed.
1386	Export Sludge System (1997)	Design	The project has been approved by the California Coastal Commission.
3550	Export Sludge Pump Addition (2017)	Design	RFP for design services to be issued in August.
3552	SCADA System Improvements (2017)	Construction	Project underway by SOCWA Operations department.
3553	Plant Drainage Improvements (2017)	Design	RFP for design services to be issued in August.
3554	Odor Scrubber Bleach Tank Replacement (2017)	Design	RFP for design services to be issued in August.
201715RC6	Conceptual Building Design (2017) (NCP)	Study	RFP to be issued in September.
1356	Scrubber Upgrade (2013)	Construction	The stack extension has been completed; the replacement of the chemical feed pumps will be bid as part of CTP Miscellaneous Improvements 2016 in August, 2016.

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

<i>Task Code</i>	<i>Description</i>	<i>Phase</i>	<i>Status</i>
<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 foundation in the new chemical containment area and is currently installing the canopy.
1357	Hypochlorite Tank (AWT) (2013)	Construction	The new tank has been delivered to the site.
201615RA1	AWT Applied Water Pump Replacement (2016)	Design	Dudek has submitted the 90% complete drawings for review.
201715RA1	Effluent Equalization System Condition Assessment (2017) (NCP)	Condition Assessment	RFP has been issued; proposals due on August 2.
201715RA2	Contact Basins Condition Assessment (2017) (NCP)	Condition Assessment	RFP has been issued; proposals due on August 2.
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 August 30.
1445	Primary Gallery Upgrade (2014)	Design	After discussion with MNWD staff SOCWA staff will delay this work in order to perform a more comprehensive upgrade.
1480	AWT Backwash Pipe Relocation (2014)	Construction	Pascal & Ludwig has substantially completed this work.
1446	Waste Activated Sludge VFD Control Panel (2013)	Design	RFP has been distributed; proposals due on August 30, 2016.
1451	Odor Control Scrubber Control Panel No. 1 (2013)	Design	The proposed modifications to the scrubber control panel would require the shutdown of the scrubber for over a week. Options are being evaluated.
201617RL1	Influent Manholes 1 and 2 and Sewer Repair (2016)	Construction	Part of RTP Miscellaneous Improvements 2016. Bids are due on August 3, 2016.
201617RL2	Influent Junction Structure Gate Replacement (2016)	Construction	Part of RTP Miscellaneous Improvements 2016. Bids are due on August 3, 2016.
201617RL3	Influent Junction Structure and Pipe Condition Assessment (2016) (NCP)	Condition Assessment	V&A has been retained to perform this work.
201617RL4	AWT Water Quality Instrumentation (2016)	Design	Part of RTP Miscellaneous Improvements 2016. Bids are due on August 3, 2016.
201617RL5	Primary Influent Channel Condition Assessment (2016) (NCP)	Condition Assessment	RFP has been issued; proposals due on August 4.
201617RL6	Grit Basin Drop Gate and Weir Replacement (2016)	Design	Part of RTP Miscellaneous Improvements 2016. Bids are due on August 3, 2016.



**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>			
1494	Secondary Clarifier Retrofit (2) (2013)	Construction	Pascal & Ludwig is currently recoating within Secondary Clarifier No.4.
1495	Secondary Clarifier Retrofit (2012)	Construction	Pascal & Ludwig is currently recoating within Secondary Clarifier No.4.
3752	AWT No.2 Upgrade Design (2017)	Design	RFP to be issued in August, 2016
201717RL1	Effluent Equalization Pond and Gate Condition Assessment (2017) (NCP)	Condition Assessment	RFP has been issued; proposals due on August 4, 2016.
1410	Aeration System Analysis (2015)	Study	Work in progress by Hazen and Sawyer.
<b>CAPITAL IMPROVEMENT PROJECT COMMON</b>			
1453	Lighting Upgrade (2014)	Design	Project under development by Operations Department.
1497	Switchgear Upgrade (2006)	Construction	Pacific Hydrotech is constructing the new raceways within the Energy Building. Southern California Edison provided on July 18, 2016.
1411	Facility Safety Review (2015)	Study	Project completed.
3760	Develop Buried Piping Reconstruction Master Plan (2017)	Study	RFP issued; proposals due September 1, 2016
3761	External Lighting Upgrade (2017)	Design	RFP to be issued in October.
3763	Reroute Plant Drains (2017)	Design	RFP issued; proposals due September 1, 2016
3762	Secondary Access Road CEQA (2017)	Permitting	Dudek submitting proposal for CEQA preparation.
3764	SCADA System Improvements (2017)	Construction	Project underway by SOCWA Operations department.
1415	Security Fencing (2015)	Design	Part of RTP Miscellaneous Improvements 2016. Bids are due on August 3, 2016.
1416	Access Bridge Upgrades (2015)	Design	Part of RTP Miscellaneous Improvements 2016. Bids are due on August 3, 2016.

**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 SOLIDS</b>			
1454	Digester Dome Recoating (2014)	Construction	Pascal & Ludwig has substantially completed this work.
1468	Digester Dome Recoating (2011)	Construction	Pascal & Ludwig 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	Part of RTP Miscellaneous Improvements 2016. Bids are due on August 3, 2016.

**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	Recommendation for award of project to Black & Veatch to be presented at the August 4, 2016 Board of Directors meeting.

# Agenda Item

**Legal Counsel Review:** No

**Meeting Date:** August 4, 2016

**TO:** Board of Directors

**FROM:** Betty Burnett, General Manager

**STAFF CONTACT:** Dina Ash, Human Resources Administrator

**SUBJECT:** Resolution No. 2016-06 - Commendation for Michael Kennedy

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## Summary

Michael Kennedy has been employed by SOCWA for 25 years. He retired on July 27, 2016. Resolution No. 2016-06 commends Mr. Kennedy for his services to SOCWA

## Fiscal Impact

None

## Recommendation

Staff recommends the Board approve Resolution No. 2016-06 and authorize the Chairman Dan Ferons, to sign the Commendation on the behalf of the Board of Directors of the South Orange County Wastewater Authority.

**RESOLUTION OF COMMENDATION**  
**Resolution No. 2016-XX**  
**ADOPTED BY THE BOARD OF DIRECTORS**  
**OF THE**  
**SOUTH ORANGE COUNTY WASTEWATER AUTHORITY**  
**AUGUST 4, 2016**

**COMMENDATION TO MIKE KENNEDY FOR PROVIDING DEDICATED SERVICE TO THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY AND THE RESIDENTS OF SOUTHERN ORANGE COUNTY FOR THE PERIOD OF NOVEMBER 1991 TO JULY 2016**

**WHEREAS:** South Orange County Wastewater Authority (SOCWA) facilitates and manages the collection, transmission, treatment, reuse and disposal of wastewater for more than 500,000 homes and businesses across South Orange County.

**WHEREAS:** Mike Kennedy began his twenty-five year tenure with Moulton Niguel Water District as Electrical Instrumentation Technician at the Regional Treatment Plant. In 1992, he went to the Aliso Water Management Agency with the transfer of the treatment plant to SOCWA's of the predecessor agency. He was promoted to an Electrician in 1993 and on to the Electrical Instrumentation Supervisor in 1994. His expertise along with his historical knowledge of the SOCWA facilities will be missed.

**WHEREAS:** During his career with SOCWA Mike Kennedy oversaw the complex electrical and SCADA systems that power, monitor, and control the daily operations of SOCWA treatment plants.

**WHEREAS:** The work performed by Mike Kennedy helped protect the public health by making sure our equipment and infrastructure was well maintained.

**WHEREAS:** Mike Kennedy is well regarded by the Superintendent and his peers dedicating himself to quality performance and assisting his fellow employees as a leader and mentor.

**THEREFORE BE IT RESOLVED:** That the Board of Directors of the South Orange County Wastewater Authority and on the behalf of the member agencies of SOCWA does hereby commend Mike Kennedy for his dedicated service and commitment to the mission of the South Orange County Wastewater Authority.

**PASSED AND ADOPTED** by the Board of Directors of the SOUTH ORANGE COUNTY WASTEWATER AUTHORITY, County of Orange, State of California on the 4th day of August, 2016.

(Seal)

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Daniel R. Ferons, Chairman

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Betty Burnett,  
General Manager and Board Secretary

# Agenda Item

**Budgeted:** Yes

**Budget amount:** \$100,000

**Line Item:** PC 5 Task 4004 and PC 24 Task 4013

**Legal Counsel Review:** No

**Meeting Date:** August 4, 2016

**TO:** Project Committee 5 and 24 Board of Directors

**FROM:** Betty Burnett, General Manager

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

**SUBJECT:** Aliso Creek and San Juan Creek Ocean Outfalls Emergency Response Plan - Award of Engineering Services Contract to Black & Veatch

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## Summary

This agenda item provides a recommendation for the award of an engineering services contract to Black & Veatch for the development of the emergency response plans for the SOCWA Ocean Outfalls.

## Background

In 1994, the Aliso Water Management Agency (AWMA), a predecessor agency of SOCWA, commissioned John Carollo Engineers (Carollo) to do the preparation of the “Strategic Plan for Emergency Outfall Repair” (Strategic Plan) for its Aliso Creek Ocean Outfall. This plan was developed in response to the storms in the winter of 1992 that led to five radial cracks in the outfall. The cracks were repaired with internal seals. The “Strategic Plan” was developed to identify procedures and responses in the event of subsequent damage to the Aliso Creek Ocean Outfall. SOCWA is seeking to prepare an updated response plan that would address both the Aliso Creek and San Juan Creek Ocean Outfalls.

## Requests for Proposals

Two firms were asked to submit proposals for the emergency plan development:

- Black & Veatch
- Carollo Engineers

The request was limited to the two firms that had done work on the SOCWA ocean outfalls over the past ten years.

A single proposal was received from Black & Veatch. Carollo Engineers indicated that their experienced outfall staff members did not have the available time to perform the project.

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

## **Advisory Committee Review**

The Outfall Emergency Development Plan proposal was reviewed by the Engineering Committee on June 9, 2016. The Engineering Committee recommended award of the engineering services contract to Black & Veatch.

## Fiscal Impact

The proposed engineering services fee for the Black & Veatch proposal is \$74,400. The budget status for the project is as shown in Table 1.

TABLE 1-BUDGET SUMMARY

Project Committee	Task	Budget	Expended to Date	Remaining Budget	Proposed Engineering Cost
5	4004	\$50,000	\$0	\$50,000	\$37,350
25	4013	\$50,000	\$0	\$50,000	\$37,350
Total		\$100,000	\$0	\$100,000	\$74,700

The allocation of the engineering cost is as shown in Table 2.

TABLE 2-ALLOCATION OF COST TO MEMBER AGENCIES

Member Agency	PC 5	PC 24	Total
El Toro Water District	\$0.00	\$6,088.05	\$6,088.05
Emerald Bay Service District	\$0.00	\$291.33	\$291.33
Irvine Ranch Water District	\$0.00	\$5,886.36	\$5,886.36
City of Laguna Beach	\$0.00	\$4,108.50	\$4,108.50
Moulton Niguel Water District	\$5,792.99	\$16,377.98	\$22,170.96
City of San Clemente	\$6,207.57	\$0.00	\$6,207.57
City of San Juan Capistrano	\$4,138.38	\$0.00	\$4,138.38
Santa Margarita Water District	\$16,553.52	\$0.00	\$16,553.52
South Coast Water District	\$4,657.55	\$4,597.79	\$9,255.33
Total	\$37,350.00	\$37,350.00	\$74,700.00

## Recommendation

The following action is recommended:

Approval of the award of the engineering services contract to Black & Veatch at a fee of \$74,700.00.

Exhibit 1  
Scope of Work

Tasks include the following:

1. Review Record Documents. Obtain, compile, and review readily known and available record information related to SOCWA's outfalls, as follows:
  - A. Emergency Plan: SOCWA's existing "Strategic Plan for Emergency Outfall Repair" for the Aliso Outfall, John Carollo Engineers, Aug. 1994; and, any similar plans available for the J.B. Latham Outfall.
  - B. Other construction documents/record drawings for the outfalls. Record Drawings: "Aliso Creek Outfall – Ocean Portion," Aliso Water Management Agency, Contract No. PC-11-75-A, Sheet Nos. 1 through 6, Brown and Caldwell Engineers, April 1975.
  - C. Geotechnical Studies: Geotechnical and scour studies related to SOCWA's outfall facilities.
  - D. Related Documents: Construction documents and geotechnical information for public works improvements made in the vicinity of the outfalls (the Aliso Beach County Pier and 1988 seawall replacement projects mentioned in the AWMA Strategic Plan).
2. Compile flow projections for both outfalls. Identify flows by agency/source. Provide a schematic map diagram to depict the sources. SOCWA to provide flow data.
3. Discussion of Potential Failure Modes for Existing Outfall Pipelines
  - A. Description of each outfalls, with details from the record drawings
  - B. Potential Failure Types
    - (1) Radial cracks in pipe
    - (2) Catastrophic failure of a pipe section
    - (3) Lateral movement and separation at pipe joint
    - (4) Blockage/burial of diffuser ports
    - (5) Undermining of diffuser ports
    - (6) Loss or significant erosion to ballast rock protecting the pipe from being moved around
    - (7) Failure of closure gates
    - (8) Others as identified by FIRM
4. Description of Monitoring and Maintenance Activities. This is intended to be a relatively short section in the final plan. SOCWA will prepare matrices defining current activities and frequency. FIRM is to review, discuss and revise.
5. Prepare updated Emergency Response Plan for each outfall, following a form similar to that presented in the AWMA Strategic Plan for Emergency Outfall Repair – Aliso Creek Outfall. Specific contents will include:
  - A. Long-Term Flow Diversion.
    - i. Update schematic map diagrams depicting backbone interceptor sewer, treatment plant, and outfall facilities.
    - ii. Review and update long-term flow diversion strategies identified in existing strategic plan documents.
    - iii. SOCWA to provide text describing operational steps to temporarily retain flows, and to divert flows to other routes, based on recent experiences (flow retention test for the San Juan Outfall Junction Structure Rehab, knowledge of 6 hour flow retention capability at Aliso Creek Ocean Outfall).
    - iv. Update summary of flow diversion strategy described in existing planning documents. Review and update supplemental equipment or actions needed to accomplish the diversion.



- B. Meet with SOCWA staff to develop and document an updated emergency response Organizational Structure. Define roles and responsibilities. Update and document contact information for responsible parties.
  - C. Obtain SOCWA input to update and expand on discussion of emergency response Task Group responsibilities, actions, and team members.
  - D. Update supporting contact list (Appendix B of AWMA Strategic Plan).
    - (1) List of local agency contacts
    - (2) List of contractor and suppliers (for pipe, seals, etc.)
    - (3) List of regulatory and emergency contacts
  - E. Collaborate with SOCWA staff to update the Sample Press Release (Appendix C of AWMA Strategic Plan).
  - F. Develop Flow Chart describing necessary actions.
6. Prepare temporary ocean discharge disinfection plan. Scope includes the following:
- (1) Emergency Disinfection
    - a. Estimate of dosages
    - b. Prepare schematic
    - c. Identify location of disinfection
    - d. Identify jurisdiction/ownership at those disinfection locations
    - e. Prepare rough map of all key components and locations
  - (2) Emergency Dechlorination
7. Plan Preparation. FIRM to prepare Plan in similar format to 1994 Plan. FIRM to submit three hard copies along with electronic version for review. FIRM to respond to comments and update. FIRM to provide seven hard copies along with electronic version of Final Plan. FIRM to provide WORD documents, CAD drawings (or other base graphic form) along with pdf of Final Plan.
8. Project Management.
- a. Provide project management.
  - b. A total of three (3) meetings is assumed.
  - c. Provide quality assurance/quality control reviews.
  - d. Presentation to SOCWA Engineering Committee.

# Agenda Item

**Meeting Date:** August 4, 2016

**TO:** Board of Directors  
**FROM:** Betty Burnett, General Manager  
**STAFF CONTACT:** Jim Burror, Director of Operations  
**SUBJECT:** Status Update: Biosolids Strategic Management Plan

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## Summary

This is an informational item to update the Board of Directors on the on-going Request for Proposal for Biosolids management services and the drafting of the 2016 Biosolids Management Strategic Plan.

## Discussion/Analysis

To gain a better understanding of upcoming contracting for Biosolids management services, the Board of Directors requested staff to update SOCWA Biosolids Management Strategic Plan. The original Biosolids Management Strategic Plan (Plan) for SOCWA was completed in 2002. The last update of the Plan was in 2006.

Similar to the 2006 Plan update, the 2016 Plan update is being prepared at a time of transition for SOCWA in terms of its existing Biosolids management options. SOCWA's current agreement with Synagro for composting in Kern was just extended, but the existing contract with Nursery Products is set to expire.

The 2016 Plan will contain information about new contractors that have become available to accept biosolids from SOCWA since the 2006 Plan was prepared. Also, the 2016 Plan will describe how capacity at existing Biosolids management sites is being freed up as the City of Los Angeles and Los Angeles County Sanitation District shift operations to their own facilities in Kern County. These two trends are placing a downward pressure on Biosolids management costs.

The outcome of the recent Request for Proposals (RFP 16-001), Open Options (On & Offsite) Biosolids Management Services for SOCWA, has resulted in the submittal of three (3) proposals. Seventeen (17) potential vendors registered for this RFP.

The list of 17 potential vendors includes the following:

- Tule Ranch
- Synagro
- Holloway Environmental, LLC
- Ener-Core
- Onvia
- POWER Engineers
- Lystek International Limited
- IMS
- LEE & RO, Inc.
- Denali Water Solutions, LLC
- RealEnergy
- Merrell Bros., Inc.
- n2 Integrated Energy Solutions
- ARCADIS U.S., Inc.
- Big Sky Electric, Inc.
- Nursery Products, LLC

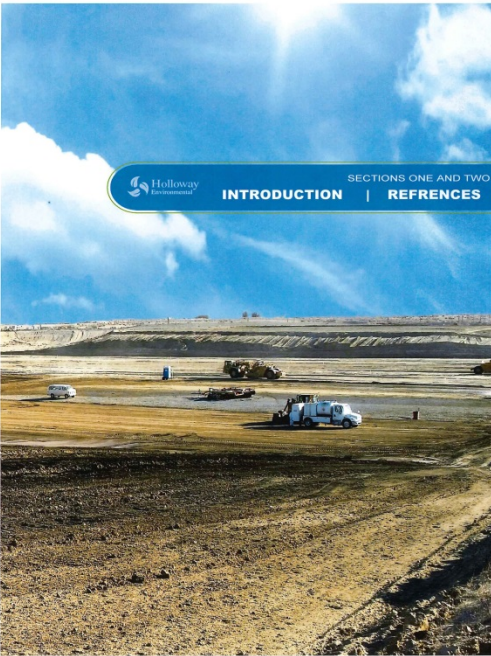
## HammerHead Trenchless

The three vendors that submitted proposals in alphabetical order includes:

Holloway Environmental, LLC  
Nursery Products, LLC  
Synagro

### Holloway Environmental, LLC

Holloway Environmental, LLC is proposing lime stabilization followed by using the Biosolids mine reclamation. Mine reclamation is the process of restoring land that has been mined to a natural or economically usable state.



### Nursery Products, LLC

Nursery Products, LLC is proposing a continuation of services at their Hewes Composting Facility in San Bernardino County. Biosolids are composted and then applied to local farms growing non-food crops in the area.

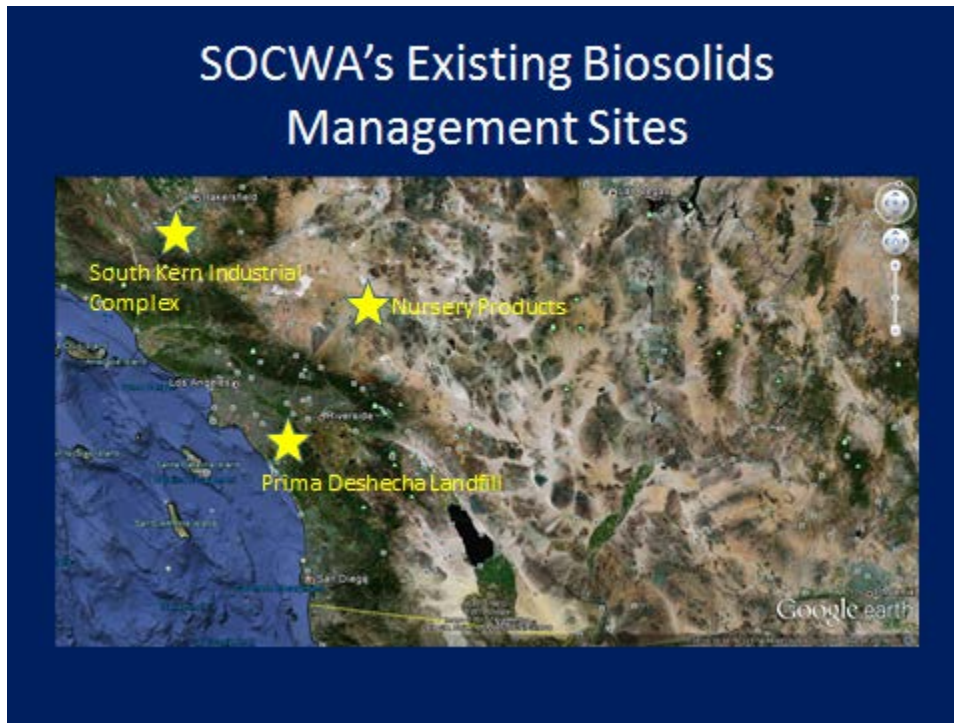


## Synagro LLC

Synagro, LLC is proposing that SOCWA reestablish the use of their Arizona Soils composting facility in La Paz County, Arizona. Biosolids will be composted and then applied to local farms growing non-food crops in the area.



The following is a map of the existing Biosolids management sites.



The following is a map with the site for each proposal received.



The staff and SOCWA's member agencies are reviewing the proposals received and the draft Plan. Additional requests for information and pricing discussions may take place with specific vendors as the Plan is being finalized for recommendation to the Board. Once the TAC and SOCWA staff have reached consensus on their recommendations, the Board will be provided the proposals and the Plan for consideration of policy objectives and award of new Biosolids contract.

**Prior Related Project Committee or Board Action(s)**

April 2006 - Adoption of the 2006 Biosolids Management Strategic Plan Update

**Fiscal impact**

None. This is an informational item.

# Agenda Item

**Legal Counsel Review:** No

**Meeting Date:** August 4, 2016

**TO:** SOCWA Board of Directors  
**FROM:** Betty Burnett, General Manager  
**SUBJECT:** SOCWA Policies on Agency Representation via Weighted Voting

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## Background

On June 28, 2016, the SOCWA Board approved the FY 2016-17 Budget and agreed to consider an alternative voting methodology. The direction was to include an item on this agenda to open the formal discussion for potential changes to the one agency one vote method currently utilized. Board members were generally willing to consider voting that reflects a change in policy direction more toward an equitable distribution aligned with the benefits each agency receives and pays for at SOCWA while protecting the interest of each agency. The proposal is to:

- Develop and agree on key objectives or principles any voting system needs to meet to be acceptable
- Identify a timeline for SOCWA to make a decision
- Identify deliverables

## Proposed Key Objectives

For consideration in preparing for the August 4, 2016 Board meeting, please consider the importance of reaching agreement on the principles any voting system must adhere to be considered for inclusion the JPA. To kick off that discussion at the August 4, 2016 Board meeting, please reflect on the following potential policy statements. We will explore these and any others and determine where we have agreement. Potential policy agreements might include:

- a. Member agencies have a fiduciary responsibility to both their own customers and to their partners in SOCWA.
- b. Decision making at SOCWA is founded in the premise that the wastewater treatment needs of each community represented will be met equitably.
- c. Capital costs related to the upkeep and/or retirement of owned fixed assets are a core responsibility of each member agency and each agency should include such costs for purposes of setting rates, fees and charges such that no agency is without resources to meet its needs and will not burden its partners in those assets.
- d. Capital Program adjustments should include a balance against the future needs of each agency toward eliminating where possible ongoing costs for facilities that may no longer be needed.
- e. As a collective, members of SOCWA and Project Committees recognize that a balance exists between their fiduciary responsibility to their ratepayers and their governing participation in regards to meeting water quality requirements,

permitting obligations and ensuring appropriate facility maintenance and improvement.

- f. The diversity of the ownership and project committees at SOCWA facilities calls for each agency to maintain its interests while working with partners to shed or resolve stranded capacity where possible, and to have its voice and opinion heard.

### **Review of Alternative Voting Methodology**

At the August 4, 2016 meeting we will review various methods of equitable voting utilized by agencies similar to SOCWA where facilities may be owned and utilized in broad percentage differences among participants. The Board will discuss ideas and identify concerns.

### **Recommended Action**

1. Board review and discussion of opportunities and policies.
2. Discussion of approach and information needed for a meaningful resolution to stranded capacity issues.

# Agenda Item

**Legal Counsel Review:** No

**Meeting Date:** August 4, 2016

**TO:** SOCWA Board of Directors  
**FROM:** Betty Burnett, General Manager  
**SUBJECT:** SOCWA Administrative Costs – Next Step - Services Proposals

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Attached hereto please find a letter from the SOCWA Chairman, Dan Ferons, to each of the SOCWA Member Agency Representatives (i.e. the SOCWA Board of Directors).

At the June 28, 2016 Board Meeting the Board expressed a general consensus that there may be opportunities to further investigate methods of “fair share” allocation of administrative expenses.

Staff solicited two proposals from consultants with expertise that may assist SOCWA in setting a “fair share” administrative expense allocation. Each firm has expertise in expense/cost allocation and recovery, as follows:

- i. **Revenue and Cost Specialists, LLC.** Project Team Lead would be Eric Johnson, who would execute for SOCWA a Work Plan to Identify and Allocate Administrative Staff Time based on service delivery to operational sections of SOCWA. Revenue and Cost Specialists, LLC has provided Cost of Service Fee Studies and Cost Allocation Planning for a broad variety of California Cities, and offers assistance to SOCWA in creating a Cost Allocation Plan. Estimate services pricing is \$8,000.
- ii. **FG Solutions, LLC.** Project Team Lead would be Art Griffith, who would execute for SOCWA a G&A Cost Allocation Analysis. This work would have the goal of proposing options based on indirect cost allocation principles. The work would include looking at subsets of G&A Expenses to determine the attributes of the expense and the benefit provided by the cost as important factors in who should share the expense. FG Solutions, LLC estimates the services for the Allocation Analysis at \$28,230. Note that the FG Proposal also discusses future opportunities to consider project committee voting based on additional service pricing to be determined.

Either firm has the experience to assess and make recommendations on administrative expense sharing among the SOCWA member agencies.

As noted above, Eric Johnson is one of the Principals of the firm Revenue and Cost Specialists. His background includes providing services to conduct fees studies, cost allocations, long-range financial plans and utility rate studies. The firm’s expertise includes meeting with client



staff to identify proper allocation of administrative costs for general fund recovery of support costs to enterprise operations.

Art Griffith is one of the Principals of the firm FG Solutions. He is a registered professional engineer with 23 years of experience providing utility financial and management consulting services to water, wastewater, storm water, and solid waste utilities. Specific areas of expertise include utility ratemaking, financial planning, impact fee determination, inter-local agreement preparation, fiscal policy and level-of-service assessments. FG Solutions can provide engineering and financial consulting expertise to address cost allocation questions.

#### Recommended Action

Board to consider services proposals to assist SOCWA in setting a “fair share” administrative expense allocation based on value received by member agencies from SOCWA.



South Orange County Wastewater Authority

July 12, 2016

Board of Directors  
South Orange County Wastewater Authority  
34156 Del Obispo  
Dana Point, California 92629

Re: Administrative Costs and Voting Representation at SOCWA

Dear Directors:

With the passage of the 2016-17 Budget on June 28, 2016, SOCWA is heading into the next fiscal year in uncharted waters. I am encouraged with the frank dialogue during the budget process and the strategic planning workshop. Nevertheless, we still have work to do in addressing major issues. It is important that we reach resolution in order to move ahead and consider what are, perhaps, more important matters such as how SOCWA will change its facilities in the future to continue meeting our core function of quality wastewater treatment and disposal services.

I'd like to approach the August Board meeting within renewed energy to reset the relationship among our agencies. To that end, please consider the following issues and be prepared for discussion at the Board meeting:

- 1) **Administrative Costs and Expenses.** The issue of the share of administrative expenses, general budget or "general fund" expenses and allocations among agencies remains an open issue that needs our attention and commitment to compromise. To that end, I have asked our General Manager to locate a consultant that can assess, at a high level, the functional responsibilities of SOCWA's administrative cost center and provide a "fair share" approach. I believe the majority of the discussion of the Board at the June 28, 2016 meeting, was supportive of the notion that we could need a high level assessment unless we unanimously agree to a change in the JPA agreement. To that end, at the August 4, 2016 Board meeting we will agendize a discussion on moving forward and consider proposals for such services if warranted and approved.
- 2) **SOCWA Voting Structure.** The Board authorized consideration of revising the voting structure as part of the budget adoption and it was requested that it be on the agenda for the upcoming Board meeting. I am asking each of you to provide thoughtful consideration to the issue of fairness as to SOCWA's voting structure and to potential alternatives. From my perspective, voting and the matter of shared governance is deserving of separate time and attention based on the discussions at the strategic planning, allocation and Board meetings. This is a critical path for the Authority and the interests of SOCWA member agencies as to economics, local control and commitment to core principles. We agreed to work on this open question in the coming months. We will begin the discussion of the process and opportunities at the August 4, 2016 meeting and set a firm schedule for progress.
- 3) **Capital Expenses.** The Authority and/or its various Project Committees will be asked to address the issue of capital projects and participation in project committees as the member agencies face changing conditions, including potentially mothballing facilities and restructuring of capacity ownerships. As we consider the collective benefits and

liabilities we all have in the various projects, I am requesting that your agencies consider your ongoing requirements and that you be prepared to discuss a potential process and schedule, by project committee, to discuss any issues.

As we work forward on these fundamental issues, there is a need to address a number of questions related to the Joint Powers Agreement and our ongoing attendant obligations. Attached please find correspondence from SOCWA Counsel, Pat Giannone, addressing the practical application of the JPA Agreement.

If you have any questions or comments, please direct them to Betty Burnett and Pat Giannone. Thank you for your consideration. I hope you all enjoy your July vacations and we will begin our work in August.

Very truly yours,



Daniel R. Ferons  
Chairman, South Orange County Wastewater Authority

cc: SOCWA Board Member Alternates  
Betty Burnett  
SOCWA Member Agency Managers

# Agenda Item

**Legal Counsel Review:** No

**Meeting Date:** August 4, 2016

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

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## **Opportunities to Resolve Stranded Capacity Issues – Engineering Committee Update**

Stranded Capacity is a well-recognized issue for SOCWA's JBL and CTP Facilities. The issue is closely tied to the aging condition of the infrastructure, and in FY 2015-16 a concerted effort began on the part of the SOCWA Engineering Committee to gain the facts and engineering evaluations that would be important to well-reasoned decisions for both JBL and CTP. CH2M was hired to study CTP, and Carollo Engineering is studying JBL. At the same time, MNWD is taking a look at RTP capacity and opportunities to move liquids flows from CTP to RTP. The outcome of these efforts and recommendations will offer highly useful information for the discussion of stranded capacity at JBL and CTP. The SOCWA Staff and Engineering Committee work and recommendations are pending for CTP with final recommendations coming to the Board in November, 2016.

## **Expert Panel Meets Direct Potable Reuse Recommendation Deadline**

In 2013, the California Legislature enacted SB 322 which required that an advisory group subject to the Bagley-Keene Open Meeting Act be convened to advise the expert panel and the State Water Board in the development of the Direct Potable Reuse (DPR) feasibility report. SB 322 additionally tasked the expert panel to:

- (1) assess whether additional areas of research are needed to be able to establish uniform regulatory criteria for DPR,
- (2) recommend an approach for accomplishing any additional needed research in a timely manner; and,
- (3) provide the recommendations to the State Water Board. Per SB 322, the State Water Board must summarize the recommendations of the Expert Panel in a report by June 30, 2016.

The expert panel used every bit of the allotted time but accomplished the task submitting the DPR recommendation memorandum to the State Water Board on June 30, 2016.

The panel found that there is no need for additional research to be conducted to establish draft uniform water recycling criteria for DPR. However, the panel did recognize that there were some areas of research that would enhance the safety of DPR in the State. The panel recommended six specific research recommendations to identify new contaminants of concern, monitor raw influent wastewater for viruses and other bacterial pathogens, and evaluate post treatment techniques to prevent unintended health outbreaks and to develop better analytical monitoring methods. While noting the areas that could use additional research, the expert panel also insisted that the research could be done before or concurrent with the development of DPR criteria and that there are no barriers to establishing draft uniformed criteria at this time.

The State Water Board Division of Drinking Water will incorporate the key recommendations of the advisory group and the expert panel related to the feasibility of developing uniform water recycling criteria, as well as the other information that must be considered as specified by regulation in the Report to Legislature. A draft of the Report to Legislature will be provided for public comment on September 1, 2016, as required by SB 322. Public announcement of the availability of the State Water Board's draft of the Report to Legislature on the feasibility of developing uniform water recycling criteria for DPR will be provided when it is posted.

### **Recycled Water Permit Renewal Application Nearly Complete**

On July 22, 2016, SOCWA received a copy of a letter from the San Diego Regional Water Quality Control Board designating recycled water regulatory oversight for the treatment, distribution and use of recycled water within the Irvine Ranch Water District (IRWD) service area solely to the Santa Ana Regional Water Quality Control Board. 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 1% of the recycled water distributed each year by IRWD is used in the Region 9 service area. In June 2015, IRWD received a new NPDES permit covering recycled water activities for both Michelson and the Los Alisos Water Reclamation Plants for coverage in the Santa Ana Water Quality Control Board Region. The Santa Ana Regional Board will begin working on an amendment to the order to include requirements for the San Diego Region service area.

Over the past year, SOCWA has been working on a Report of Waste Discharge (an application for permit renewal) of the SOCWA Recycled Water Waste Discharge Permit from the San Diego Regional Board. The current permit was issued in 1997, and as such, it is outdated in many ways that could restrict member agency ability to expand recycled water use. A draft application document was in the final review process, but in light of this change, the renewal application will be revised to reflect the changes in recycled water permit coverage for IRWD.

### **Salt & Nutrient Monitoring Plan Nearly Complete**

In July 2014 SOCWA submitted its Salt and Nutrient Management Plan (SNMP) for the water basins within its service area to the California Regional Water Quality Control Board San Diego Region. The 2014 SNMP identified a detailed implementation plan and schedule, which included as an initial step, the development and implementation of a monitoring and data collection program work plan to improve the existing salt and nutrient monitoring and modeling efforts in the San Juan Creek Watershed. In 2015, the San Juan Basin Authority (SJBA) assumed responsibility for the development and implementation of the monitoring program. A work plan was developed in coordination with the following SOCWA member agencies, which provided detailed information regarding their current and future monitoring efforts, recycled water reuse practices and other essential data necessary to building a successful SNMP Monitoring and Data Collection Program. The following SOCWA member agencies coordinated work on the monitoring program:

- The City of San Juan Capistrano (CSJC), SJBA member agency
- Moulton Niguel Water District (MNWD), SJBA member agency
- Orange County Public Works (OCPW)
- Santa Margarita Water District (SCWD), SJBA member agency

The monitoring plan weaves together existing San Juan Creek Watershed Basin surface water and groundwater monitoring programs with additional monitoring to fill the data gaps effectively:

- evaluate "current" groundwater quality;
- project future changes in groundwater quality;

- determine the impact of recycled water reuse on current and future groundwater quality; and,
- determine if current or future groundwater quality exceeds the groundwater quality objectives established in the Water Quality Control Plan for the San Diego Basin.

The draft SNMP Monitoring and Data Collection Plan is complete and it is anticipated that it will be submitted to the San Diego Region Board as an addendum to the SNMP by August 19, 2016.

### **RTP Digester Cleaning Project**

Staff recently completed the cleaning of a digester at RTP. This work was completed by in-house staff. Hiring contractors to perform this type of work typically costs around \$500,000.



## CTP Scrubber Fan Replacement Project

Staff recently completed the replacement of the primary foul air scrubbing fan at CTP. This project required shutting down the fan that ventilates all the odorous parts of the entire plant. The project was complicated by:

- Permit requirements limit any shutdown to only 48 hours.
- The concrete pad under the fan was corroded and had to be partially replaced.
- Odorous areas of the plant not ventilated can cause odor offsite complaints.



The project was completed within 48 hours and did not result in any odor complaints.

## CTP Fire Protection Projects Update

SOCWA staff has been working on several projects to reduce the potential for fire risk to the treatment plant facilities from a wildfire surrounding CTP. Here is the status update for those efforts:

- Building hardening – Completed by Engineering in May 2016  
This project included implementing the recommendations to place fine mesh covers for all the building vents and modify buildings to minimize damage from heat.
- Fuel reductions along the plant parameter – Completed July 2016  
This project removed the trees as recommended in the 2011 Dudek Fire Protection Report.
- Fuel reduction and hardening around the operations building – All the brush has been removed from the designated areas in the 2011 Dudek Fire Protect Report. The contractor is waiting for a rock delivery to the site. Once the rock is delivered, it will be placed on the hillside in the designated areas.

This project goal is to create additional defensible space around the Operations Building. This will also reduce the amount of heat the building would be exposed to if a fire were to occur in the park.

- Additional brush clearing recommended by OCFA along the north property line – This work will start after the administration building work above is completed.

Staff asked OCFA to visit the site in May to review the ongoing improvements to reduce fire risk. OCFA provided some additional recommendations for the northern border of the plant. There are no SOCWA facilities at this location. However, the brush clearing is recommended to reduce the potential for embers to come into the treatment plant.

### **SDG&E's South Orange County Reliability Enhancement (SOCRE) Project Update**

This is an update of the SDG&E project that will increase the reliability of power in South Orange County.

The public comment period is closed and no new comments are being accepted. The Final EIR was submitted to the CPUC staff and it recommends Alternative F (Trabuco Substation) as the environmentally superior project. Both SDG&E and SCE determined that Alternative F is not feasible. SDG&E prefers a different project alternative that will upgrade substations in downtown San Juan Capistrano and in San Clemente's Talega Business Park. The SOCWA Board also prefers Alternative F with some concessions for the two host cities to minimize community impacts.

SDG&E and SCE entered the second phase of the process for the project. The phase is conducted by an Administrative Law Judge (ALJ) in San Francisco. The ALJ has completed all testimony and hearings for this process. SDG&E expects to receive the proposed decision from the ALJ in the next month or two. After that, the project should be on the Commission's agenda for a vote in the 4th quarter of 2016.

### **Recycled Water Operations over 4<sup>th</sup> of July Week**

SOCWA's treatment plants typically receive very high flows during holiday weekends. The 4<sup>th</sup> of July was no exception this year. CTP was able to continue recycling water production by bringing on additional facilities. At RTP, elevated wastewater levels, a planned one-year warranty inspection of the AWT equipment, and an equipment failure caused interrupted operation of the AWT over the 4<sup>th</sup> of July week. RTP continued to deliver about half the recycled water that is normally produced during that week. RTP and MNWD staff were in constant communication during the week. Unfortunately, MNWD had operational issues with elevated salinity levels during this window as well.

SOCWA and MNWD staff continue to work together to support MNWD's goal to eliminate the introduction of supplemental potable water to the recycled system. This includes meetings to discuss the operation of the Oso Barrier: the primary source of high salinity water in MNWD's recycled water system. SOCWA staff will also be looking at some additional means like advanced chemical primary treatment to reduce the impact of holiday weekend loads on the treatment plant processes. The facility is designed to have an uptime of 90 percent. The goal of these efforts will be to increase RTP's AWT summer uptime above the current 98.6 percent.

### **PlanetBids - Procurement and Contracts**

Staff is increasing the use of PlanetBids for SOCWA's Procurements and Contracts. PlanetBids has upgraded their program to increase the efficiency of monitoring our Insurance certification filings for vendors and ensuring that they are in compliance with SOCWA's requirements without lapses in coverage. Utilization of the tracking tools within PlanetBids will enable tracking of contract awards and purchases of the following business classifications: Local, CA Dept. of General Services Small Business, Ca Unified Certified, Disabled Veteran Status, Disadvantaged Business Enterprise, Federal SBA Small Disadvantaged, Microbusiness,



Minority-Owned Business Enterprise, Registered DIR Public Works Contractor's and Women-Owned Business Enterprise.

The updated Contract Management module has increased efficiency allowing SOCWA to manage contracts while ensuring compliance with state laws, as well as increased efficiency of maintenance and retrieval of up-to-date relevant information pertaining to individual contracts and agency wide statistics.

### **Human Resources**

SOCWA would like to welcome:

Jarred McConnell, Electrical/Instrumentation Technician. Jarred comes to SOCWA from Tesco Controls.

Kris Luce, Electrician, comes to SOCWA after moving here from Texas where he was a Journey Electrician.

Anna Sutherland, Accounts Payable/Payroll Accountant. Anna comes to SOCWA from AppleOne and has over 12 years of accounting, specializing in Accounts Payable.

Please join us in welcoming these individuals hired to replace our SOCWA retiring staff.

### **Update Dave Seymour – PERS Correspondence**

Staff will provide a brief verbal update.

### **Website**

Updated



34156 Del Obispo St.  
 Dana Point, CA. 92629

# ACTION ITEMS

## Board of Directors Meeting

**Date:** AUGUST 4, 2016

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	<b>Director</b>	<b>Follow up</b>	<b>Status</b>
Start process on biosolids RFP & disposal /processing options	Reinhart	Operations	Underway
Member Agency Strategic Plan Questions	BoD	GM	Underway
Review Bylaws at Finance Com Mtg – change quarterly mtgs to monthly mtgs	Lizotte/ Iseman	Admin	Complete
Townsend – Contract Renewal	Lizotte	GM	Pending
Solar panels at treatment plants	Iseman	Operations	Pending



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# ACTION ITEMS

## Audit Recommendation – Mayer Hoffman McCann

**Date:** AUGUST 4, 2016

	<b>Recommendation</b>	<b>Status</b>
Project Committee Agreements	Member agency may desire to consider costs reallocations based on current facility usage & agency needs.	Pending