

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, December 7, 2017
8:30 a.m.

THE BOARD OF DIRECTORS MEETING ROOM IS LOCATED AT 34156 DEL OBISPO STREET, DANA POINT, CA. THE 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 SEVENTY-TWO (72) HOURS PRIOR TO THE MEETING, THEY WILL BE AVAILABLE IN THE RECEPTION AREA OF THE AUTHORITY OFFICE AT THE SAME TIME AS THEY ARE DISTRIBUTED TO THE BOARD OF DIRECTORS, 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. PRESENTATIONS

A. Retirements

- 1) Resolution No. 2017-10 – Mr. Bob Waters, 34+ Years of Service.....1

ACTION Staff recommends the Board approve Resolution No. 2017-10 commending Mr. Waters' for his dedicated service and commitment to the mission of the South Orange County Wastewater Authority.

- 2) Resolution No. 2017-11 – Mr. Bob Sandal, 29+ Years of Service.....3

ACTION Staff recommends the Board approve Resolution No. 2017-11 commending Mr. Sanddal for his dedicated service and commitment to the mission of the South Orange County Wastewater Authority.

5. CONSENT CALENDAR

A. Minutes of the Board of Directors Meeting(s)

ACTION The Board will be requested to approve subject Minutes.

a) September 7, 20175
 b) October 5, 2017.....15
 b) April 6, 201741
 c) April 25, 201750
 d) April 26, 201752

B. Minutes of the Executive Committee Meeting(s)62

ACTION The Board will be requested to approve subject Minutes.

a) Minutes – Executive Committee March 20, 201763
 b) Minutes – Executive Committee May, 18, 201764

C. Operations Reports

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

a) September 2017 Operational Report65
 b) October 2017 Operational Reports83
 c) September & October ACOO Beach/Ocean Monitoring Report95
 d) September & October SJCOO Beach/Ocean Monitoring Report116
 e) Pretreatment Report146

D. Project Committee No. 15.....149

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

a) May 12, 2017.....150
 b) June 1, 2017.....155
 c) June 15, 2017.....157
 d) June 29, 2017.....159
 e) July 13, 2017161
 f) August 10, 2017163
 g) August 31, 2017165
 h) September 14, 2017167
 i) September 27, 2017170

E. Project Committee No. 17

Engine System Service Contract Award172

ACTION The Board will be requested to award the engine/power plant system service contract with Western Energy Systems, a division of Penn Detroit Diesel Allison, LLC., with the following terms and conditions:

- 5 year term
- \$17.70 per engine operating hour
- \$0.0208 kilowatt hours (kWhe) produced
- first year annual contract costs shall not to exceed \$300,000
- increases of contract prices shall be based on the CPI (consumer price index) for Los Angeles/Orange County area and shall not exceed 5 percent in any given year.

6. GENERAL MANAGER’S REPORT

A. Resolution No. 2017-09 – Investment Policy for Public Funds177

ACTION The Board will be requested to adopt SOCWA Resolution No. 2017-09, Investment Policy for Public Funds.

B. Presentation on General Fund Expense Allocations187

ACTION Presentation by Trabuco Canyon Water District Representative Stephen Dopudja and consideration of report of the Finance Committee on this matter. Further action at the discretion of the Board of Directors.

C. FY 2015-16 Audited Financial Statements Supplemental Schedules208

ACTION The Board will be requested to receive and file the FY Ending June 30, 2016 Supplemental Schedules as revised.

D. FY End June 30, 2017 Use Audit (Delivered Under Separate Cover)268

ACTION The General Manager (with supporting report of Finance Committee on this item) recommends to the Board of Directors: 1) approve the Fiscal Year 2016-17 Use Audit dated December 6, 2017, 2) approve refunds for Agencies whose costs were under budget, and 3) approve billings for Agencies with additional assessments in accordance with the attached summary.

E. Update Carollo Valuation Report SOCWA Infrastructure Assets269

ACTION The General Manager (with supporting report of Finance Committee on this item) recommends to the Board of Directors: direction to staff to submit to the Pun Group LLP (FY '16-'17 Independent Auditors), for inclusion in the FY ended June 30,

2017 Financial Statements & Independent Auditors Report, the
Carollo Valuation Report of SOCWA Infrastructure Assets.

F. Update on Financial Statements & Independent Auditors Report FY Ended June 30, 2017

A. Staff Report and Finance Committee update on FY ended June 30, 2017
Financial Statements & Independent Auditors Report

ACTION Board discussion and direction to schedule presentation and
auditors report of Pun Group, LLP for December 14, 2017 Special
Board Meeting.

G. Card Access Security Expansion at the Coastal Treatment Plant [PC15]273

ACTION The Board will be requested to approve the 5-year contract with
Stanley Convergent Security Solutions for equipment installation
an alarm monitoring for a total of \$123,339 and a monthly fee of
\$2,585 to be adjusted with the consumer price index (CPI).

H. Card Access Security Expansion at the Regional Treatment Plant [PC17].....275

ACTION The Board will be requested to the 5-year contract with Stanley
Convergent Security Solutions for equipment installation and
alarm monitoring for a total of \$140,093 and a monthly fee of
\$2,447 to be adjusted with the consumer price index (CPI).

I. General Manager's Status Report.....277

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

7. CLOSED SESSION

1) A Closed Session will be conducted for the following matter:

Existing Litigation per paragraph (1) of subdivision (d) of Government Code
Section 54956.9, *Case of SOCWA, et al. v. Moulton Niguel Water District Case*
number 30-2017-00923143-CU-BC-CJC.

2) Evaluation of Contractor Serving in an Executive Position

Pursuant to Government Code Section 54957(b)(1):

Performance Evaluation
Title: General Counsel

3) Evaluation of Public Employee

Pursuant to Government Code Section 54957(b)(1):

Performance Evaluation
Title: General Manager

8. REPORT OUT OF CLOSED SESSION

9. OTHER MATTERS

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

Note: Determine the need to take an 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.]

10. ADJOURNMENT

NOTE - THE NEXT REGULAR SOCWA BOARD MEETING WILL BE HELD AT
8:30 A.M. ON DECEMBER 14, 2017

Agenda Item

Legal Counsel Review: No

Meeting Date: December 7, 2017

TO: SOCWA Board of Directors
FROM: Betty Burnett, General Manager
STAFF CONTACT: Dina Ash, Human Resources Administrator
SUBJECT: Resolution No. 2017-10 Commendation for Robert Waters

Summary

Robert Waters has been employed by SOCWA for 34+ years and will retire as of December 05, 2017. Resolution No. 2017-10 commends Mr. Waters for his services to SOCWA.

Fiscal impact

None.

Recommendation

Staff recommends the Board approve Resolution No. 2017-10 and authorize Chairman Dan Ferons to sign the Commendation for Mr. Waters on the behalf of the Board of Directors of the South Orange County Wastewater Authority.

attachment(s)

Resolution No. 2017-10

RESOLUTION OF COMMENDATION
Resolution No. 2017-10
ADOPTED BY THE BOARD OF DIRECTORS
OF THE
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY
December 7, 2017

COMMENDATION TO ROBERT WATERS FOR PROVIDING DEDICATED SERVICE TO THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY AND THE RESIDENTS OF SOUTHERN ORANGE COUNTY FOR THE PERIOD OF AUGUST 1983 TO DECEMBER 2017

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: Robert Waters began his 34 service years with SOCWA agencies in '83 serving with MNWD as an Operator I. In 1999, he went to AWMA, SOCWA's predecessor agency, serving at the 3A Plant and becoming Chief there in 2001. By 2004, he joined the team at the Regional Treatment Plant as Chief.

WHEREAS: During his career Robert Waters was continually improving himself and demonstrating his value to the organization. He acquired a Business Degree from the University of La Verne in 1997.

WHEREAS: Robert Waters achievements during his career included among others recognition of the Regional Plant with a Special Award of Merit from WaterReuse in 1992, Safety Award recipient in 1994 from California Water Pollution Control Association, CWEA Supervisor of the Year in 2000 and California Water Environment Plant of the Year in 2005.

WHEREAS: Robert Waters promotion to Chief Operator at the Regional Treatment Plant and the 3A Plant is a testament to his commitment and exceptional operational skills. He contributed greatly to the success of RTP and 3A in achieving the important environmental mission of wastewater treatment.

WHEREAS: The work performed by Robert Waters has helped reduced local dependence on imported water supplies as the Regional Treatment Plant successfully supplied over 10,443,000 gallons of recycled water during the 2012 to 2016 drought years.

WHEREAS: Robert Waters is well regarded by his peers for dedicating himself to quality performance and assisting his fellow employees as a leader, mentor, friend, and as a fishing/baseball aficionado.

THEREFORE, BE IT RESOLVED: That the Board of Directors of SOCWA and on the behalf of the member agencies of SOCWA does hereby commend Robert Waters 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 7th day of December 2017.

Daniel R. Ferons, Chairman

(Seal)

Betty Burnett, General Manager and Board Secretary

Agenda Item

Legal Counsel Review: No

Meeting Date: December 7, 2017

TO: SOCWA Board of Directors
FROM: Betty Burnett, General Manager
STAFF CONTACT: Dina Ash, Human Resources Administrator
SUBJECT: Resolution No. 2017-11 Commendation for Robert Sanddal

Summary

Robert Sanddal has been employed by SOCWA for 29+ years and will retire on December 30, 2017. Resolution No. 2017-11 commends Mr. Sanddal for his services to SOCWA.

Fiscal impact

None.

Recommendation

Staff recommends the Board approve Resolution No. 2017-11 and authorize Chairman Dan Ferons to sign the Commendation for Mr. Sanddal on the behalf of the Board of Directors of the South Orange County Wastewater Authority.

attachment(s)

Resolution No. 2017-11

RESOLUTION OF COMMENDATION
Resolution No. 2017-11
ADOPTED BY THE BOARD OF DIRECTORS
OF THE
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY
December 7, 2017

COMMENDATION TO ROBERT SANDDAL FOR PROVIDING DEDICATED SERVICE TO THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY AND THE RESIDENTS OF SOUTHERN ORANGE COUNTY FOR THE PERIOD OF MAY 1988 TO DECEMBER 2017

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: Robert Sanddal began his more than twenty-nine-year tenure with South East Regional Reclamation Authority as a Truck Driver/Mechanic in 1988 and in 2010 he was promoted to the Mechanic III position after many years of hard work.

WHEREAS: During his career Robert Sanddal continually improved his certification levels with the California Water Environment Association and currently holds the highest certification for a mechanic as a Grade IV Mechanical Technologist.

WHEREAS: Robert Sanddal was the senior mechanic at the Coastal Treatment Plant for many years and has served as a valued employee within the maintenance group by training new mechanics at SOCWA for the past many years.

WHEREAS: The work performed by Robert Sanddal helped protect the public health by making sure the treatment plant equipment at the Coastal Treatment Plant was available to run and produce quality recycle water, especially during the 2012 to 2016 drought.

WHEREAS: In service to the J.B. Latham Plant, Robert Sanddal took pride in finding and negotiating for the options in equipment, parts and service that SOCWA could afford while always insisting on quality from vendors and suppliers.

WHEREAS: Robert Sanddal is well regarded by the Superintendent, his peers and the previous Maintenance Supervisor for dedicating himself to outstanding performance and assisting his fellow employees as a mentor and friend.

WHEREAS: Mr. Sanddal's expertise along with his historical knowledge of the SOCWA facilities will be missed.

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 Robert Sanddal 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 2nd day November 2017.

(Seal)

Daniel R. Ferons, Chairman

Betty Burnett, General Manager and Board Secretary

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

Board of Directors

September 7, 2017

The Regular Meeting of the South Orange County Wastewater Authority (SOCWA) Board of Directors was held on Thursday, September 7, 2017, 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	Chairperson
SCOTT GOLDMAN, El Toro Water District	Director
RAY MILLER, City of San Juan Capistrano	Director
MATT COLLINGS, Moulton Niguel Water District	Alternate Director
DOUG REINHART, Irvine Ranch Water District	Director
TONI ISEMAN, City of Laguna Beach	Vice Chairperson [arrival 8:40 a.m.]
MIKE DUNBAR, Emerald Bay Water District	Director
ANDY BRUNHART, South Coast Water District	Director
STEPHAN DOPUDJA, Trabuco Canyon Water District	Director

Absent:

DAVE REBENS DORF, City of San Clemente	Director
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Staff present:

BETTY BURNETT	General Manager/Secretary
PAT GIANNONE	Bowie, Arneson, Wiles & Giannone
BRIAN PECK	Director of Engineering
AMBER BAYLOR	Director of Environmental Compliance
JIM BURROR	Director of Operations
MARY CAREY	Finance Controller
DINA ASH	Human Resource Administrator
JEANETTE CONTINOLA	Procurements/Contracts Administrator [exit 9:20 a.m.]
NADIYA SZE	Senior Accountant
NAYDIN KIM	Accountant
TERI NOSON	Executive Assistant/Clerk of the Board

Also present:

DONALD FROELICH	Moulton Niguel Water District
DENNIS CAFFERTY	El Toro Water District
FRED ADJARIAN	El Toro Water District
HECTOR RUIZ	Trabuco Canyon Water District

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

Oral Comments

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

Director Collings reported that MNWD reviewed the SOCWA website this morning and noted that the Budget document on the webpage still included the definitions that the Board had voted to remove from the Budget at the August Board meeting. Director Collings inquired when staff intends to remove the definitions based on the direction from the Board. Ms. Burnett duly noted the request and indicated that the issue would be addressed.

ACTION TAKEN

No action required.

Consent Calendar

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

Director Collings requested that Item 4A - Financial Matters be pulled from the consent calendar.

ACTION TAKEN

Motion was made by Director Reinhart and seconded by Director Brunhart to approve the items under the consent calendar sans Item 4A - Financial Matters.

Motion carried:	Aye 9; Nay 0; Abstain 0; Absent 1
	Director Dunbar Aye
	Director Goldman Aye
	Director Miller Aye
	Director Collings Aye
	Director Reinhart Aye
	Vice Chairperson Iseman Aye
	Chairperson Ferons Aye
	Director Brunhart Aye
	Director Dopudja Aye
	Director Rebensdorf Absent

Item 4A – Financial Matters

Director Collings referenced the Finance reports on page 8 note (4) and stated there was a discussion at the Finance Committee meeting that during the Use Audit process staff was to provide a break-down of the fringe benefit expenses to allow MNWD to review/understand changes to the Budget. Ms. Burnett duly noted the request and the requested data would be forthcoming.

Director Collings referenced page 17, and requested a detailed breakdown of the legal expenses and where and how they are allocated. Ms. Burnett reported that the report was in preparation.

ACTION TAKEN

Motion was made by Director Collings and seconded by Director Burnhart to approve Item 4A - Financial Matters of the consent calendar.

Motion carried: Aye 9; Nay 0; Abstain 0; Absent 1
Director Dunbar Aye
Director Goldman Aye
Director Miller Aye
Director Collings Aye
Director Reinhart Aye
Vice Chairperson Iseman Aye
Chairperson Ferons Aye
Director Brunhart Aye
Director Dopudja Aye
Director Rebensdorf Absent

Engineering Matters

Construction Contract Award – J.B. Latham Treatment Plant [PC2]

Mr. Peck provided a brief overview of the contract award as submitted and noted that during the Engineering Committee meeting there was a question of whether or not this was a capital expense or repair expense covered by O&M. Mr. Peck referenced the provided agenda report regarding the discussion on why the project was identified as a capital project.

An open discussion ensued.

Director Reinhart suggested that the Engineering Committee revisit the capitalization definitions to resolve and/or avoid the issue going forward. Ms. Burnett noted that staff prepared a draft Capitalization Policy that addressed the question and included the language of the JPA Agreement.

The Chairman directed staff to bring back to the Board the current capitalization definitions/policy for Board discussion, direction and Committee assignment.

ACTION TAKEN

Motion was made by Chairperson Ferons and seconded by Director Brunhart to approve the award of the construction contract to the S.S. Mechanical Construction Corporation at a price of \$53,775.

Motion carried: Aye 3; Nay 0; Abstain 1; Absent 0
Director Miller Aye
Director Collings Abstain
Chairperson Ferons Aye
Director Brunhart Aye

General Manager's Report

Ms. Baylor provided a brief PowerPoint presentation on the results of the 2016 Kelp Consortium Study, which are herewith attached to these minutes. Ms. Baylor noted that the study required a very low funding input from SOCWA and yielded positive results in that outfall discharge was not demonstrated to be impacting kelp as indicator species.

An open discussion ensued.

ACTION TAKEN

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

Fiscal Year End June 30, 2017 Financial Audit Services – Selection of Auditor

Director Reinhart requested a brief report from the Finance Committee. Director Collings reported that the SMWD and SCWD were both independently involved with SOCWA staff in the evaluation of the proposal and MNWD relied on the recommendation the other agencies who participated in the process to support the recommendation. The Finance Committee members respectively were supportive to use the Pun Group.

An open discussion ensued.

ACTION TAKEN

Motion was made by Director Reinhart and seconded by Director Brunhart to approve and authorize the General Manager to enter into a contract on behalf of SOCWA with the Pun Group for the FY 2016/17 Audit with the option of a two (2) years renewal; and, approve a Budget increase to the General Fund/Administration Budget of \$5,000 for additional Audit services costs.

Motion carried:	Aye 9; Nay 0; Abstain 0; Absent 1
	Director Dunbar Aye
	Director Goldman Aye
	Director Miller Aye
	Director Collings Aye
	Director Reinhart Aye
	Vice Chairperson Iseman Aye
	Chairperson Ferons Aye
	Director Brunhart Aye
	Director Dopudja Aye
	Director Rebensdorf Absent

Infrastructure Valuation Services

Ms. Burnett provided a brief summary of the staff report as submitted and invited Board questions.

An open discussion ensued.

ACTION TAKEN

Motion was made by Director Brunhart and seconded by Miller to approve and authorize the General Manager, on Behalf of SOCWA to enter into a contract with Carollo Engineers to perform the Infrastructure Valuation Services in the amount of \$105,358 with 10 percent of the award amount authorized in change orders, and at the Finance Committee Workshop the Finance Committee is authorized to adjust scope as needed, but staying within the award amount of \$105,358; and, additionally move recommendation as written.

Director Collings reported that his no vote was due to disagreement with the process, stating the process was unfair by which the firms were given the opportunity to propose on the item, where it was unclear as to what method would be used and whether it was necessary to evaluate all SOCWA infrastructure.

Motion carried:	Aye 8; Nay 1; Abstain 0; Absent 1
	Director Dunbar Aye
	Director Goldman Aye
	Director Miller Aye
	Director Collings Nay

Director Reinhart	Aye
Vice Chairperson Iseman	Aye
Chairperson Ferons	Aye
Director Brunhart	Aye
Director Dopudja	Aye
Director Rebensdorf	Absent

Chairperson Ferons adjourned the Board of Directors Meeting for a five (5) minute recess at 9:39 a.m.

The Board meeting reconvened at 9:44 a.m. and went into Closed Session at 9:45 a.m.

Closed Session

A. Conference with SOCWA Labor Negotiator – Closed Session.

Employee MOU (July 1, 2017 – June 30, 2017), Side Letters 1 and 2, a Closed Session will be conducted in accordance with Government Code Section 54957.6.

Conference with SOCWA Negotiator - Betty Burnett, GM Employee Organization – SOCWA Employee Association.

The Board meeting reconvened to open session at 9:58 p.m.

Report Out of Closed Session

Chairperson Ferons reported that there were no reportable actions from Closed Session.

Employee Manual (July 1, 2017 – June 30, 2017) Side Letters 1 and 2

ACTION TAKEN

Motion was made by Director Brunhart and seconded by Director Dunbar to approve Resolution No. 2017-08, *A Resolution Approving Side Letters of Agreement No. 1 and No. 2 to the July 1, 2017, to June 30, 2020, Memorandum of Understanding between the South Orange County Wastewater Authority and the SOCWA Employee Association.*

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

Other Matters

Chairperson Ferons asked if there were any more questions or comments from the Board. There were none.

Adjournment

There being no further business, Chairperson Ferons adjourned the meeting at 9:59 a.m.

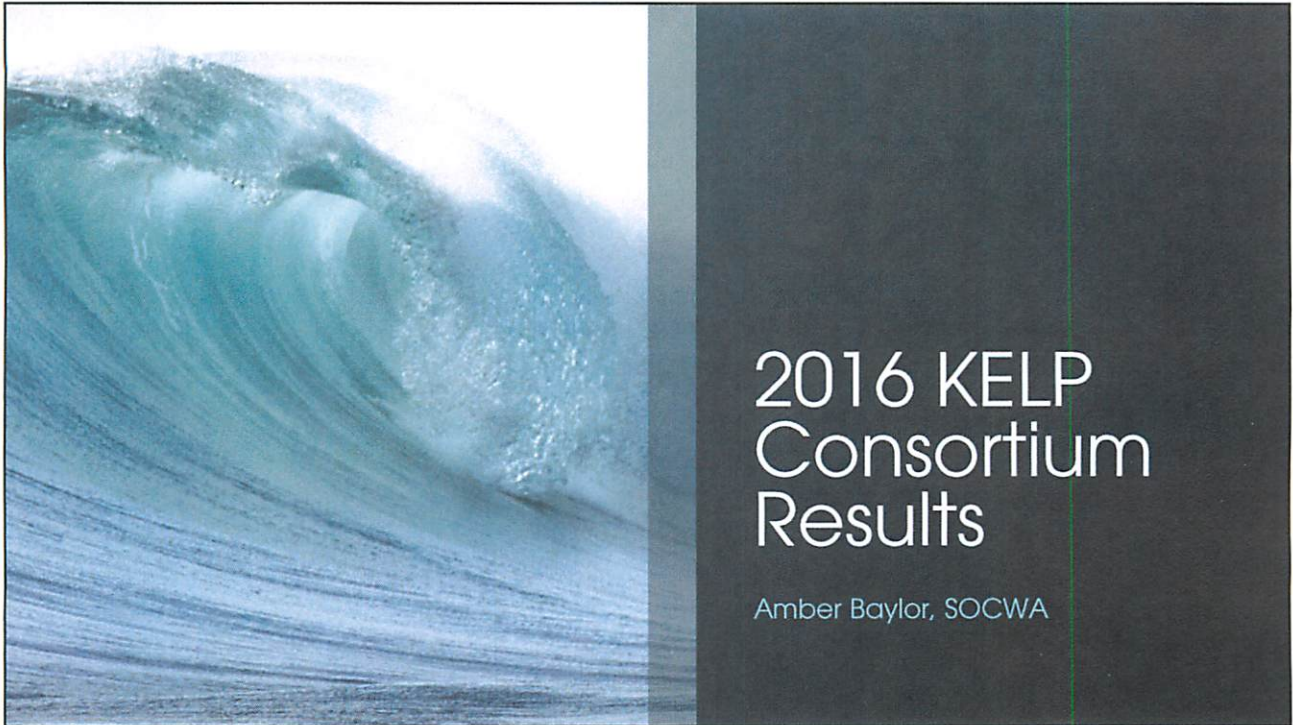
I HEREBY CERTIFY that the foregoing Minutes are a true and accurate copy of the Minutes of the Regular Meeting of the South Orange County Wastewater Authority Board of Directors of September 7, 2017, and approved by the Board of Directors of the South Orange County Wastewater Authority.

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

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


September 7, 2017

<u>DESCRIPTION</u>	<u>MOTION MADE BY</u>	<u>ACTION</u>
Consent Calendar	Reinhart	Approved
Construction Contract [PC2] SS Mechanical Construction Corporation	Ferons	Approved
Financial Audit Services	Reinhart	Approved
Infrastructure Valuation Services	Brunhart	Approved
Resolution No. 2017-08 MOU Side Letters 1 and 2	Brunhart	Approved

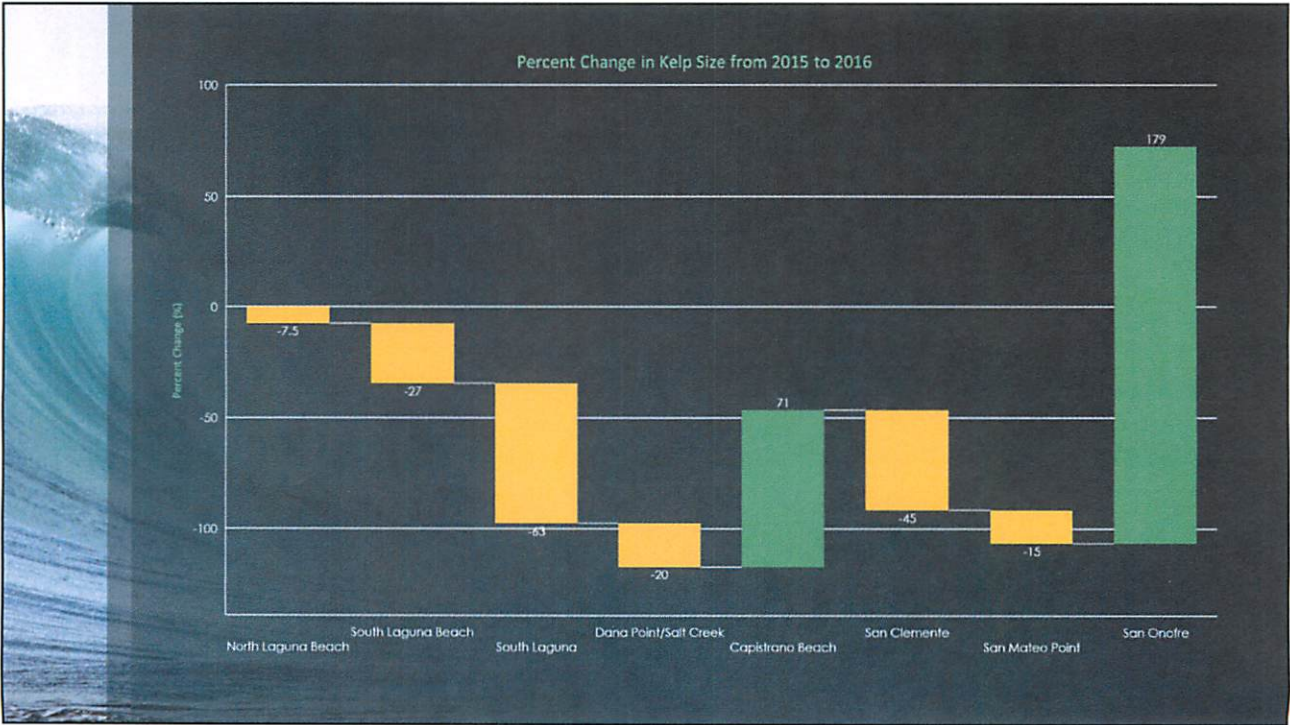
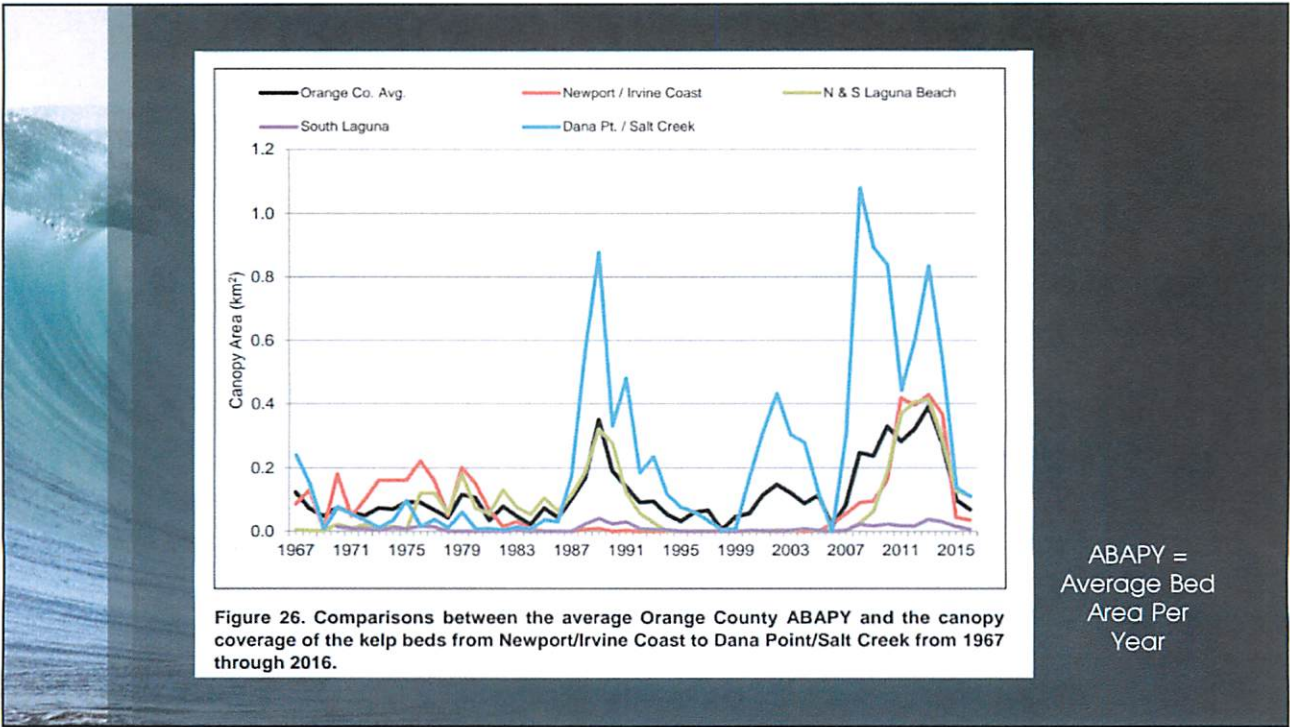



Kelp Monitoring Highlights

- Indicator species for outfall toxicity testing
- Required for both NPDES permits
- Historical baseline
- Low cost
- Collaborative power



Giant kelp (*Macrocystis pyrifera*)
California, Channel Islands NMS. Claire Fackler, CINMS, NOAA.





Factors Analyzed Contributing to Decline

- Sea surfaces warmer
- Upwelling average
- Nutrient quotient low

Factors Analyzed but NOT Contributing to Decline

- Sea & swell height
- Rainfall /runoff
- Harmful Algae Blooms
- Predation
- Toxicity

Key Take Away: Macro-level Effects Dominate Kelp Canopy Size

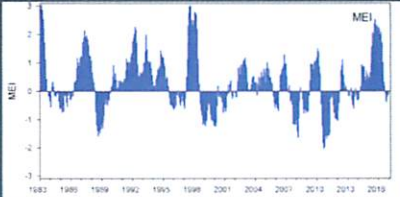
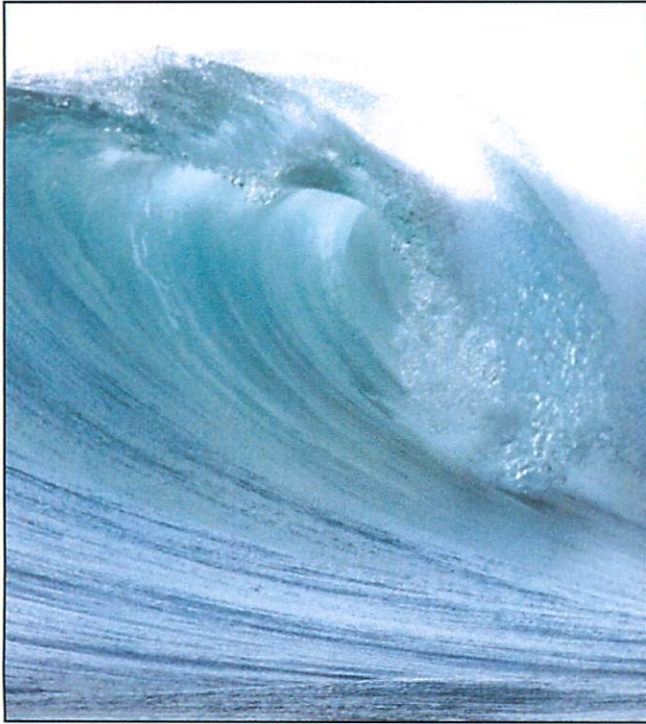


Figure 12. The PDO, NPGO, and MEI from Jan. 1983–Dec. 2016. Data from Di Lorenzo (2017), Mantua (2017) and NOAA-ESRL (2017).



2016 KELP Consortium Report:

<http://bit.ly/2wHu2QR>

Amber Baylor, SOCWA

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

Board of Directors

October 5, 2017

The Regular Meeting of the South Orange County Wastewater Authority (SOCWA) Board of Directors was held on Thursday, October 5, 2017, at 8:30 a.m. at the Administrative Offices located at 34156 Del Obispo Street, Dana Point, California. The following members of the Board of Directors were present:

MIKE DUNBAR, Emerald Bay Service District	Director
SCOTT GOLDMAN, El Toro Water District	Director
RAY MILLER, City of San Juan Capistrano	Director
MATT COLLINGS, Moulton Niguel Water District	Alternate Director
PAUL COOK, Irvine Ranch Water District	Alternate Director [arrival 8:35 p.m.]
TONI ISEMAN, City of Laguna Beach	Vice Chairman
DAN FERONS, Santa Margarita Water District	Chairman
ANDY BRUNHART, South Coast Water District	Director
STEPHAN DOPUDJA, Trabuco Canyon Water District	Director
DAVE REBENS DORF, City of San Clemente	Director

Staff present:

BETTY BURNETT	General Manager/Secretary
TERI NOSON	Executive Assistant/Clerk of the Board
BRAD NEUFELD	Varner & Brandt [arrival 8:33 a.m.]
BRIAN PECK	Director of Engineering
AMBER BAYLOR	Environmental Compliance Administrator
JIM BURROR	Director of Operations
MARY CAREY	Finance Controller [exit 9:55 a.m.]
DINA ASH	Human Resource Analyst
JEANETTE CONTINOLA	Procurements/Contracts Administrator
DANITA HIRSH	Executive Assistant
NADIYA SZE	Senior Accountant
NAYDN KIM	Accountant

Also present:

DONALD FROELICH	Moulton Niguel Water District
DENNIS CAFFERTY	El Toro Water District
RICHARD GARDNER	Public
DENNIS ERDMAN	South Coast Water District
DAVID SHISSLER	City of Laguna Beach

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

Oral Comments

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

Mr. Erdman provided comments regarding the September 2017 WEFTEC seminar in Chicago and the benefits WEFTEC provides to member agencies.

ACTION TAKEN

No action required.

Consent Calendar

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

Director Goldman requested that Item 4E, Project Committee No. 5, Dilution Study Extension Request be pulled from the Consent Calendar.

Director Collings requested that Item 4F, Project Committee No. 15, Change Order – Dudek Design and Environmental Services Contract be pulled from the Consent Calendar.

ACTION TAKEN

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

Motion carried:	Aye 10; Nay 0; Abstain 0; Absent 0
	Director Dunbar Aye
	Director Goldman Aye
	Director Miller Aye
	Director Collings Aye
	Director Cook Aye
	Vice Chairman Iseman Aye
	Chairman Ferons Aye
	Director Brunhart Aye
	Director Dopudja Aye
	Director Rebensdorf Aye

Item 4E - Project Committee No. 5

Dilution Study Extension Request

Director Goldman requested clarification regarding the Dilution Study Extension Request as an Agenda Item for Project Committee No. 5. Ms. Baylor confirmed the Dilution Study Extension Request was a Project Committee No. 5 Agenda Item.

ACTION TAKEN

Motion was made by Director Collings and seconded by Director Brunhart to approve 4E, Project Committee No. 5, Dilution Study Extension Request.

Motion carried:	Aye 5; Nay 0; Abstain 0; Absent 0
	Director Miller Aye
	Director Collings Aye
	Chairman Ferons Aye
	Director Brunhart Aye
	Director Rebensdorf Aye

Item 4F- Project Committee No. 15

Change Order – Dudek Design and Environmental Services Contract

Director Collings reported that MNWD did not approve the Capital Budget for the Coastal Treatment Plant and will be registering a no vote for this project.

Director Brunhart noted that most of the items were permit related.

ACTION TAKEN

Motion was made by Director Dunbar and seconded by Director Brunhart to approve 4F, Project Committee No. 15, Change Order – Dudek Design and Environmental Services Contract

Motion carried:	Aye 3; Nay 1; Abstain 0; Absent 0
	Director Dunbar Aye
	Director Collings Nay
	Vice Chairman Iseman Aye
	Director Brunhart Aye

Financial Matters

FY 2015-16 Audited Financial Statements Supplemental Schedules

ACTION TAKEN

There being no objection, Chairman Ferons directed the FY 2015-16 Audited Financial Statements Supplemental Schedules to return to Finance Committee for Board recommendation and resubmitted to the Board of Directors for consideration.

General Budget: Policy on Allocation of Costs

Director Dopudja presented the PowerPoint presentation *TCWD's 2017-18 SOCWA Budget Participation Approach, 1st Quarter Check-in*, which is herewith attached to these minutes. An open discussion ensued.

Chairman Ferons reported that the Finance Committee was in support of TCWD's request to continue discussions for another three (3) months and asked if there were any comments from the public regarding this item.

Mr. Gardner provided comments regarding equitable distribution of costs between the member agencies and sharing of benefits.

Mr. Adjarian inquired as to the process of working with member agencies and suggested a subcommittee working within the confines of the Finance Committee with staff and/or Board members. Director Dopudja concurred with Mr. Adjarian's suggestion stating both staff and Board members would be appropriate.

Director Goldman stated that continued discussion was important. Director Rebensdorf supported a clear and equitable analysis of the General Fund and concurred with Director Dopudja regarding the changes in the General Fund allocations were hastily presented. An open discussion ensued.

Director Dopudja clarified the importance that TCWD lead this effort in working with SOCWA Board members and SOCWA staff; and, requested support of member agency staff to be available to meet and discuss how this effects their agency and provide cohesion over the next three (3) month process.

ACTION TAKEN

Motion was made by Chairman Ferons and seconded by Director Dopudja to direct the Finance Committee to review the item over the next 3 months and report regularly back to the Board.

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

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

2005 Capitalization Policy Update

Director Collings noted for clarity that staff will return to the Board of Directors with any future changes to the 2005 Capitalization Policy. Ms. Burnett duly noted and concurred with Director Collings clarification.

ACTION TAKEN

Motion was made by Director Cook and seconded by Director Brunhart to approve two (2) corrections to Exhibit A of the 2005 Capitalization Policy, as follows: Section 6. Office Equipment: revise "\$3000" to "\$5000", and change "Director of Finance" to "*General Manager or Designee*".

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

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

Implementation of Additional Retiree Health Benefits Tier

ACTION TAKEN

Motion was made by Director Brunhart and seconded by Director Cook to approve authorization to be given to the General Manager to execute the following: Administrative Agreement, Resolution for Adoption and Statement of Adoption, VantageCare Retirement Health Savings (RHS) Adoption Agreement, Declaration of Trust, Retiree Welfare Benefits Plan; and, approve a budget adjustment to the FY 2017-18 SOCWA Administration Budget to add \$2500 for the funding of the ADP Services Attendant to the Tier I reimbursements.

Motion carried: Aye 10; Nay 0; Abstain 0; Absent 0
Director Dunbar Aye
Director Goldman Aye
Director Miller Aye
Director Collings Aye
Director Cook Aye
Vice Chairman Iseman Aye
Chairman Ferons Aye
Director Brunhart Aye
Director Dopudja Aye
Director Rebensdorf Aye

Engineering Matters

Award of Contract – JBL Treatment Plant Improvements Package “B” [PC2]

ACTION TAKEN

Motion was made by Director Brunhart and seconded by Director Collings to approve the award of the engineering services contract to Carollo at a fee of \$1,597,876.

Motion carried: Aye 3; Nay 1; Abstain 0; Absent 0
Director Miller Aye
Director Collings Aye
Chairman Ferons Nay
Director Brunhart Aye

General Manager’s Report

Mr. Burror provided the PowerPoint presentation *SOCWA Maintenance Program Overview*, which is herewith attached to these minutes.

ACTION TAKEN

There being no objection, the Chairman directed the General Manager’s report received and filed.

Other Matters

Chairman Ferons asked if there were any more questions or comments from the Board. There were none.

Adjournment

There being no further business, Chairman Ferons 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 October 5, 2017, and approved by the Board of Directors of the South Orange County Wastewater Authority.

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

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

October 5, 2017

<u>DESCRIPTION</u>	<u>MOTION MADE BY</u>	<u>ACTION</u>
Consent Calendar	Brunhart	Approved
General Budget: Policy on Allocation of Costs	Ferons	Approved
2005 Capitalization Policy Update	Cook	Approved
Implementation of Additional Retiree Health Benefits Tier	Brunhart	Approved
Award of Contract JBL Treatment Plant Improvements Package "B" [PC2]	Brunhart	Approved



TCWD's 2017/18 SOCWA Budget Participation Approach

1st Quarter Check-In

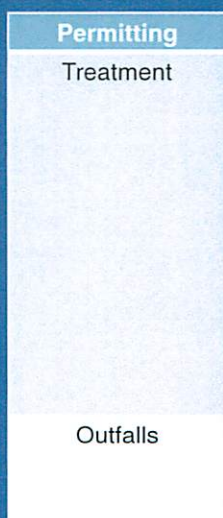
Summary

- At the June 14th Board Meeting SOCWA adopted a budget that increased TCWD's participation by 138%
- TCWD opposed the budget on the grounds it was hastily established without sufficient cost allocation/justification
- TCWD is committed to our participation in SOCWA, but the General Fund budget must be equitable. Equal Cost/Equal Benefit
- SOCWA committed to revisit in Q1

Concept

- SOCWA should provide the efficiency of a JPA
- Any agency' s participation in SOCWA should provide cost benefits
- There are three main areas of SOCWA Services/Infrastructure
 - Permitting, Treatment and Outfalls
- A fair approach could create “bookends” for participation

SOCWA Services/Infrastructure



- Permitting is the smallest and most discrete service performed
- The cost for permitting support is undefined in the General Fund allocations
- The total cost should be comparable to any agency performing the same permitting task
- TCWD is unique in our level of participation.

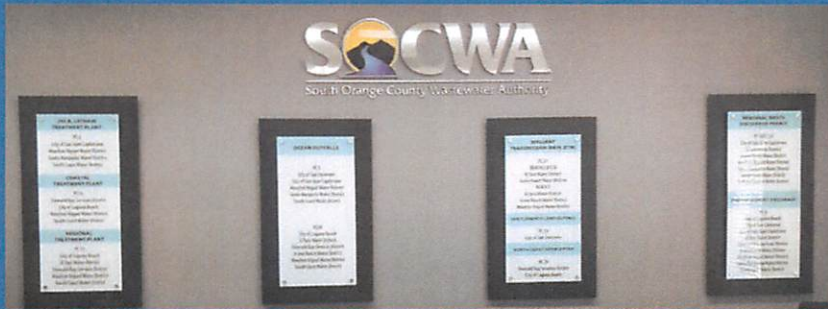
Bookends

- The cost for each agency to obtain its own permit is easily quantifiable
 - Numerous outside consultants perform this work
- Compare with each agencies level of participation within SOCWA

Book End #1

- Consultant Proposal
 - TCWD has soliciting a separate proposal to determine the cost if we were to obtain our own permit.
 - The additional cost for TCWD to obtain its own permit is estimated between \$27,000 and \$38,000.

Book End #2



- Using the number of distinct agency participations within SOCWA
- 42 Total

Potential Alternatives for the GF

	Proposed by ICWD Based on Quantifiable Participation & Benefit				Proposed by ICWD Based on Quantifiable Participation & Benefit				
	Pre-Allocated Fund	General Fund Allocation %	General Fund Allocation Note		Pre-Allocated Fund	General Fund Allocation %	General Fund Allocation Note		
Public Notices	\$ 1,950.00	8.3333%	1 required meeting per year	\$ 116.67	\$ 1,900.00	8.3333%	1 required meeting per year	\$ 116.67	
Office Equipment	\$ 8,900.00	2.3810%	1/42 nd participation for Permitting	\$ 190.48	\$ 8,900.00	2.3810%	1/42 nd participation for Permitting	\$ 190.48	
Audit	\$ 15,000.00	2.3810%	1/42 nd participation for Permitting	\$ 811.11	\$ 15,000.00	2.3810%	1/42 nd participation for Permitting	\$ 811.11	
Legal (Admin)	\$ 90,900.00	2.3810%	1/42 nd participation for Permitting	\$ 2,142.86	\$ 90,900.00	2.3810%	1/42 nd participation for Permitting	\$ 2,142.86	
Outside Services									
Records Mgt.	\$ 2,016.00	2.3810%	1/42 nd participation for Permitting	\$ 48.00	\$ 2,016.00	2.3810%	1/42 nd participation for Permitting	\$ 48.00	
Postage	\$ 210.00	2.3810%	1/42 nd participation for Permitting	\$ 16.90	\$ 210.00	2.3810%	1/42 nd participation for Permitting	\$ 16.90	
Office Supplies	\$ 2,500.00	2.3810%	1/42 nd participation for Permitting	\$ 178.57	\$ 2,500.00	2.3810%	1/42 nd participation for Permitting	\$ 178.57	
Miscellaneous	\$ 14,000.00	2.3810%	1/42 nd participation for Permitting	\$ 333.33	\$ 14,000.00	2.3810%	1/42 nd participation for Permitting	\$ 333.33	
IT Allocation	\$ 111,360.00	2.3810%	1/42 nd participation for Permitting	\$ 2,651.43	\$ 111,360.00	2.3810%	1/42 nd participation for Permitting	\$ 2,651.43	
GM Payroll									
Executive Acad	\$ 266,897.00	1.9810%	1/42 nd participation for Permitting	\$ 6,354.65	\$ 266,897.00	6.3333%	1 required meeting per year	\$ 22,241.43	
Finance Controller									
Total General Fund				\$ 13,866.36				\$ 28,752.08	
Proposed General Fund Equal Allocation per Agency =				\$ 1,286.61	Proposed General Fund Equal Allocation per Agency =				\$ 2,875.30

- Permitting needs can likely be met with a single meeting annually
- The General Fund participation should range from \$1,287 to \$2,875

Current GF vs TCWD Potential

Expense	Staff Proposed % (on 6/14/17)	Staff Proposed Amount	Board Approved % on 6/14/17	Board Approved Amount 6/14/17
Public Notices	100%	\$1,400	100%	\$1,400
Office Equipment	20%	\$1,800	100%	\$8,000
Audit	50%	\$17,500	100%	\$35,000
Legal (Admin)	20%	\$18,000	40%	\$36,000
Outside Services (Records Mgt.)	100%	\$2,016	100%	\$2,016
Postage			20%	\$142
Office Supplies	20%	\$1,500	100%	\$7,500
Miscellaneous	20%	\$2,800	20%	\$2,800
IT Allocation	5.5%	\$6,109	5%	\$5,568
GM Payroll	32 hours per month		50%	
Executive Asst.	48 hours per month	\$149,496	50%	\$266,897
Finance Controller	5% of salary		5% of salary	
Total		\$184,382		\$365,323

\$365,323 + 10 =

	Current FY 2017-18	Potential FY 2017-18
O&M Environmental, Safety Expenses	\$ 24,824	\$ 24,824
Member Agency Administration & Residual Engineering Expenses	\$ 2,844	\$ 2,844
Member Agency General Fund Expenses	\$ 36,532	\$ 1,287
TOTAL - O&M Environmental, Safety Expenses PLUS Member Agency Administration, Residual Engineering Expenses & General Fund Expenses	\$ 28,955	\$ 30,543.30

TCWD Proposed SOCWA Participation

Is This Approach Reasonable?

TCWD Proposed SOCWA Participation \$28,955 to \$30,543



TCWD / Using a Consultant Approx. \$27,000 to 38,000

TCWD's Current SOCWA Budget is \$64,200

Key Considerations & Request

- There is a intangible value to TCWD to participate in regional matters
- If the General Fund is reduced, where do these reallocated cost from the General Fund get re-distributed?
 - Admin vs PC Budgets
 - A similar policy approach should be established
- TCWD is requesting we continue discussions through Q2 of FY 2017-18 to formulate an overall policy

Discussion



Asset Management for Maintenance Strategic Initiative

- ▶ April 26, 2017 Strategic Planning Meeting
- ▶ Update Board on SOCWA's Maintenance program and provide summary of forward steps.
- ▶ Clarify what we are doing now and give a baseline for comparison.

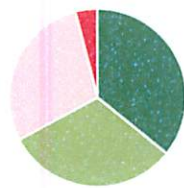
Maintenance Program Overview

- ▶ Program effective in avoiding spills, violations, etc. and within industry standards for PM ratios (PM to CM and CM to Call back).
- ▶ Cost effectiveness difficult to determine with existing accounting systems in place.
- ▶ Infrastructure is aging and getting more difficult to maintain increasing relative risk levels (expertise, parts, vendor resources, obsolescence, etc.)
- ▶ Continuous coordination with Capital Program needed.
- ▶ New equipment much more complex than old systems and requires more maintenance effort.
- ▶ Opportunities for improvements.

Maintenance Program Overview (cont'd)

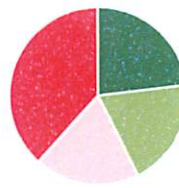
- ▶ 1700 equipment items in Tabware
- ▶ Managed mechanical equipment items
 - 580 gates and valves (\$17M)
 - 552 mechanically rotating/moving equipment items (\$56M)
 - 568 instruments, electrical gear, and area/building tags
- ▶ Values and information based on the 2004 Tetra Tech Asset Management Plan updated for 2017. Tetra Tech costs only include the actual cost of the equipment and not additional engineering and construction support to replacement equipment.
- ▶ What are we up against...

JBL Plant (PC-2) Rotating/Driven Equipment Summary



- Assets with Remaining Life with more than 5 years life remaining
- Assets with Remaining Life 0 to 5 years
- Assets beyond useful life 1 to 5 years
- Assets beyond useful life more than 5 years

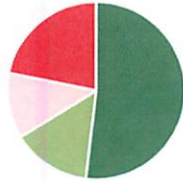
2004



- Assets with Remaining Life with more than 5 years life remaining
- Assets with Remaining Life 0 to 5 years
- Assets beyond useful life 1 to 5 years
- Assets beyond useful life more than 5 years

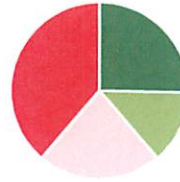
2017

CTP Plant (PC-15) Rotating/Driven Equipment Summary



- Assets with Remaining Life with more than 5 years life remaining
- Assets with Remaining Life 0 to 5 years
- Assets beyond useful life 1 to 5 years
- Assets beyond useful life more than 5 years

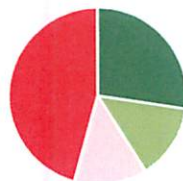
2004



- Assets with Remaining Life with more than 5 years life remaining
- Assets with Remaining Life 0 to 5 years
- Assets beyond useful life 1 to 5 years
- Assets beyond useful life more than 5 years

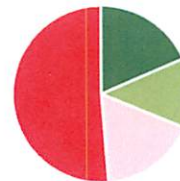
2017

RTP Plant (PC-17) Rotating/Driven Equipment Summary



- Assets with Remaining Life with more than 5 years life remaining
- Assets with Remaining Life 0 to 5 years
- Assets beyond useful life 1 to 5 years
- Assets beyond useful life more than 5 years

2004

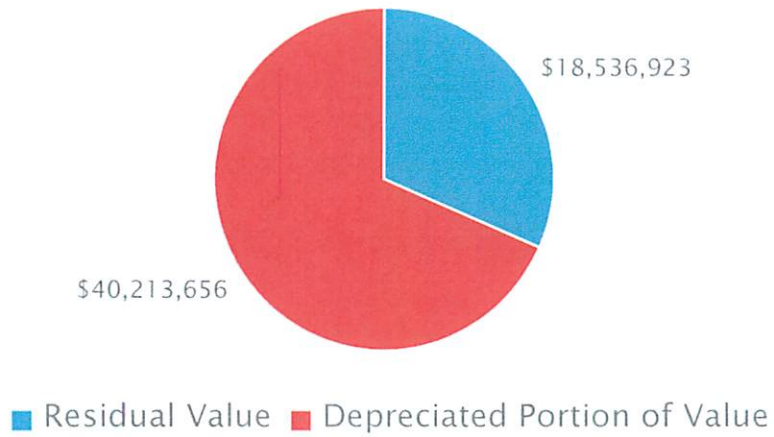


- Assets with Remaining Life with more than 5 years life remaining
- Assets with Remaining Life 0 to 5 years
- Assets beyond useful life 1 to 5 years
- Assets beyond useful life more than 5 years

2017

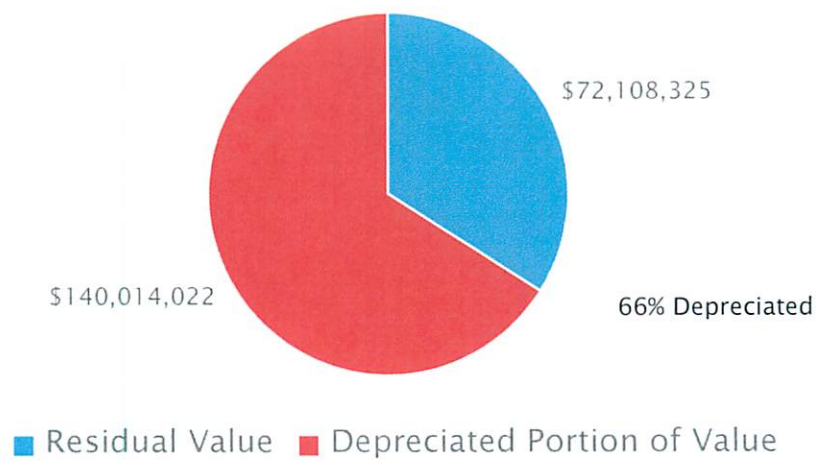
Machinery and Equipment \$58.75M

(Source: FY15-16 Audit)



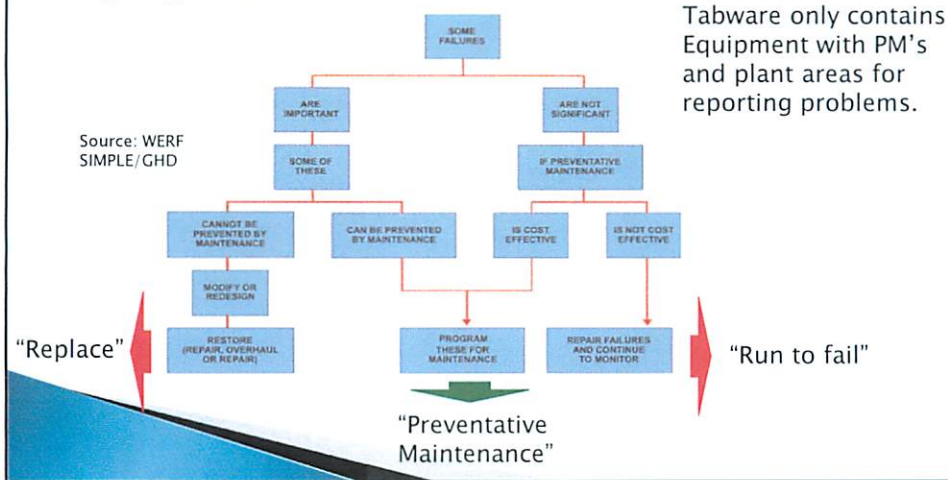
Total Assets \$212M

(Source: FY15-16 Audit)



SOCWA's Maintenance Program Overview

- ▶ SOCWA has a Preventative Maintenance program.



Industry Standard Preventative Maintenance Definitions

- ▶ The objective of establishing an equipment maintenance program to preserve the inherent levels of reliability and safety of equipment at the lowest overall cost.
 - There usually is no precise method of establishing the "correct" maintenance interval due to:
 - Lack of detailed performance data
 - Differences in the use of similar items
 - Lack of complete understanding about the behavior of the item.

Source: (WERF/GHD)

- ▶ It's Art and Science...



Preventative Maintenance (cont'd)

- ▶ The process involves setting an initial interval following a failure, initial analysis, and progressively refining the interval based on maintenance and performance data collected for the item. Source: WERF/GHD
- ▶ SOCWA generally uses the manufacturer's recommendations to set up initial PM's and modifies practices over time based on equipment failures and observations.

SOCWA Maintenance Practices Evaluation

AM Process/Practice	Rating
Advanced	pending
Intermediate	pending
Core	pending
Basic	pending
Awareness	pending

AM Program Area	Rating
Organizational Policies for AM Program	Core
Planning & Scheduling	Core
Job Execution and Control/Feedback	Core
Maintenance Costing	Core
Maintenance Manuals	Core
CMMS	Core
Review and Analyze	Core
Maintenance Plan Strategy	Core
Maintenance Plan Objectives	Core
Knowledge of Assets (Condition Monitoring)	Core
Knowledge of Assets (Performance Monitoring)	Core
Knowledge of Assets (Utilization Monitoring)	Core
Knowledge of Assets (Other Monitoring)	Core
Asset Accounting and Costing	Core
Risk Reduction Program	Core
New Asset Maintainability/Operability Review	Core
Asset Rehabilitation and Disposal	Core
Resource Allocation	Core
Resource Prioritization	Core
Inventory Control	Core
Predictive Resource Planning	Core
Continuous Improvement Program	Core
Asset Management Information Systems - Primary	Core
Asset Management Information Systems - Secondary	Core
Asset Management Information Systems - Tertiary	Core
Data and Knowledge - Primary	Core
Data and Knowledge - Secondary	Core
Data and Knowledge - Tertiary	Core
Commercial Tactics	Core
Organizational Issues	Core
Staffing Issues	Core
Asset Management Plans	Core

Legend

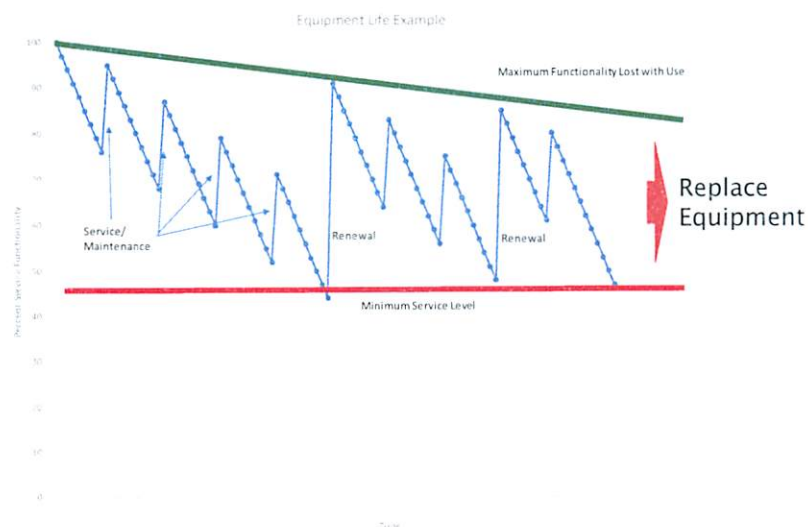
- Organization clearly at this level for all activities within the AM program area
- Organizational activities range between these rating for all activities within the AM program area

Assessment based on processes and practices outlined in IIMM 2015 and EPA/WERF SIMPLE AM Program Guidance Documents

SOCWA's Equipment Management Program Overview

- ▶ The program is clearly effective in extending the life of the equipment beyond its expected life.
- ▶ The financial and Tabware systems are not integrated to allow for operational cost efficiency calculations.
- ▶ Efficiency is determined on a case-by-case analysis.

Equipment Maintenance Lifecycle



Elevated Equipment Age Increases Risk

Increases in equipment age increases risk of failures (spills, violations, etc.)

Increases in equipment age lowers capital costs

Capital Costs

Risks

Last winter all equipment was needed to minimize spills. Up to 2 years to replace key equipment like a failed headworks pumps or centrifuge cannot be tolerated anymore.

Key equipment needs to be replaced at the end of its useful life or a long term contingency plan put in place for specific equipment to remain beyond their useful lives.

Managed Maintenance Program Highlights (last year)

- ▶ Pumps and other driven equipment with Preventative Maintenance (PM) programs:
 - 2539 PM tasks
 - 210 Equipment failures (Corrective) – Ratio 10:1
 - 13 Callbacks failures reoccurred – 6%

- ▶ Lifecycle Engineering indicates that an effective program is at least 6:1
- ▶ Callbacks should range between 3% and 10%



Systems more complicated...



Once through waste cooling system



Electrical Gear



Engine and Blower with control panel

Gas Compressor



PC2 Old Engine System

PC2 New Engine System

Cooling systems (closed loop waste system)



2 emission control systems



Engine



Electrical systems



2 gas cleaning systems and gas compression

Engine control system



Preventative Maintenance Program Improvements



Preventative Maintenance Program Ideas for Improvement

- ▶ SOCWA Maintenance would benefit from a maintenance scheduler position (senior level mechanic)
 - Improving functions
 - Coordinate and obtain resources required for work
 - Assess needs for new equipment and systems
 - Identifying the right resources
 - Coordinate work to minimize plant shut downs

Managing Assets Beyond Expected Useful Lives

- ▶ Requires additional staff training to perform work not typically anticipated for equipment (For example, beyond life pump overhauls include reconditioning volutes.)
- ▶ Requires additional fabricating equipment expenses and expertise for obsolete items.
- ▶ Corrosion of older equipment complicates repairs.
- ▶ Repairs can escalate to emergencies more quickly.

RTP Hot Water Return Pipeline Replacement Example



About \$150,000 on 8 separate repair/replacement projects over the past 3 years due to delays in implementing a larger project to remove utilities from "Hot Soil" trenches at RTP.

O&M and Engineering Capital Project Coordination



About \$30M
in this type
of equipment
at SOCWA



Large Versus Small Capital

- ▶ Major Systems Repairs
- ▶ Design requirements (ex. structural engineering)
- ▶ New regulations
- ▶ Complex shutdowns and tie-ins
- ▶ Large (multiyear) efforts
- ▶ New Services/ Processes
- ▶ Point/Temporary Repairs
- ▶ Emergency Repairs
- ▶ Standalone items
- ▶ IT and Security
- ▶ Obsolescence issues
- ▶ Limit scope items
- ▶ Limited staffing in Engineering to support
- ▶ Near term or critical need (Planned or unplanned in CIP project)

Large Cap

Small Cap

Highlighted items may overlap with large capital program

Phase II – SOCWA Future
Capital & Operations Planning
What's Essential

- ❖ What kind of facilities do the SOCWA agencies want and need? When do they want/need them?
- ❖ What is the next generation of wastewater treatment?
- ❖ What does the community need & want?

Community Needs & Wants?

- ▶ Food waste digestion
- ▶ Greater reuse of water
- ▶ Better odor controls
- ▶ Improved resource recovery
- ▶ Nutrient removal
- ▶ Climate change responses
- ▶ Sustainability improvements

SOCWA Decisions – Next Steps

A convergence of

- ❖ The Risks of Aging Infrastructure
- ❖ Diminishing Returns
 - \$\$\$ ongoing repair vs. replace vs. nextgen
- ❖ Technical Opportunities
 - Improve level of treatment
 - Improve operational cost profile
- ❖ Other policy or regulatory objectives
(Increased reuse, sustainability policies...)

QUESTIONS?

Board Discussion/Direction

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

Board of Directors

April 6, 2017

The Regular Meeting of the South Orange County Wastewater Authority (SOCWA) Board of Directors was held on Thursday, April 6, 2017, at 8:30 a.m. at the Administrative Offices located at 34156 Del Obispo Street, Dana Point, California. The following members of the Board of Directors were present:

MIKE DUNBAR, Emerald Bay Water District	Director
SCOTT GOLDMAN, El Toro Water District	Director
RAY MILLER, City of San Juan Capistrano	Director
JOONE LOPEZ, Moulton Niguel Water District	Director
JIM REED, Irvine Ranch Water District	Alternate Director
TONI ISEMAN, City of Laguna Beach	Vice Chairman
DAN FERONS, Santa Margarita Water District	Chairman
ANDY BRUNHART, South Coast Water District	Director
STEPHAN DOPUDJA, Trabuco Canyon Water District	Director
DAVE REBENS DORF, City of San Clemente	Director

Staff present:

BETTY BURNETT	General Manager/Secretary
PAT GIANNONE	Bowie, Arneson, Wiles & Giannone
BRIAN PECK	Director of Engineering
AMBER BAYLOR	Environmental Compliance Specialist
MIKE MATSON	Support Services Manager
MARY CAREY	Finance Controller
DAN WHEELER	Superintendent of O&M
KEVIN ZABAT	Sr. Accountant
TERI NOSON	Executive Assistant/Assistant Secretary

Also present:

AL AGROMONTE	Ergonomic Comfort Design
DONALD FROELICH	Moulton Niguel Water District
DENNIS ERDMAN	South Coast Water District
ROB GRANTHAN	Santa Margarita Water District

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

Presentation

Board Room Chair Demonstration

Mr. Al Agramonte, President of Ergonomic Comfort Design, provided a demonstration on adjusting the new Board Chairs for personal comfort.

Oral Comments

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

Chairman Ferons asked if members of the Board of Directors had any comments. Director Lopez provided comments to the Board of Directors and requested that her comments and requests be noted in the minutes.

Director Lopez referenced the letter that SOCWA members received from Assemblyman Brough and reported that the letter requested a date of response of when the issue related to Project Committee No. 15 would be agendized for open discussion.

Director Lopez referenced the response letter on SOCWA letterhead that was provided at the Board table for today's meeting and requested clarification as to which party was responding to Assemblyman Brough's letter. Director Lopez stated it was important to know which party was responding to the Assemblyman's letter, and noted uncertainty that the response letter addressed Assemblyman Brough's concern.

Director Lopez requested a separate open agenda item for future discussion related to SOCWA'S legal powers and authorities as a Joint Powers Authority (JPA), including project committees. Director Lopez stated that there have been different legal opinions over the years about who can do what, who can take legal action, and who was liable. To provide clarity for consistency, Director Lopez stated the importance that the ten (10) member agencies understand who represents what and how types of businesses are conducted.

Director Lopez reported that Emerald Bay Service District, South Coast Water District and the City of Laguna Beach refer to themselves as Project Committee No. 15 – 3. Director Lopez reported that Project Committee No. 15 had submitted a claim to Moulton Niguel Water District and stated there was an importance to understand, as a process – not the case itself, member agencies respective roles within the Project Committee as well as the JPA. Director Lopez emphasized that an open discussion was needed to understand the protocols on how member agencies coordinate these business issues when they occur.

Director Lopez referenced the response letter regarding the budget adoptions and noted the provided timeline. Director Lopez stated the importance for SOCWA to provide Moulton Niguel Water District the intermediary processes that need to be resolved within the timeline to allow the Board to adopt a budget, and understand the labor terms which comprise 50 percent of the budget. Director Lopez stated that before the Board can take action on budgetary matters there needed to be an understanding of the significant component – what that is, rather than operating on assumptions. Director Lopez requested a more detailed budget timeline that factored in the other matters that impact the budget.

Director Lopez reported that the SOCWA Board had received a letter from the Orange County Auditor's Office, and requested information on the matter and SOCWA's response to the letter. Director Lopez stated that at a Finance Committee meeting there was a discussion regarding the auditing firm DavisFarr, and reported that there was a one-year agreement with an option to renew for an additional two-years. Director Lopez requested when the matter would be brought back to the SOCWA Board for authorization to continue with DavisFarr, and noted that at the Finance Committee meeting there were concerns with the selection process and a desire for a more comprehensive selection process. SOCWA staff had expressed a preference for the DavisFarr firm for continuity purposes, and the Board agreed to a one-year contract with DavisFarr. Director Lopez requested information on going forward with the current audit and requested a copy of the contract with DavisFarr.

Director Lopez requested three (3) additional items to be added to future agendas, and requested when each of these items would be agendized. 1) The Board did an off-schedule evaluation of the General Manager in May 2016. The Board indicated at that meeting there would be a follow up evaluation meeting in six (6) months (December 2016). Due to the Board's busy schedules and time constraints, there was an inadvertent oversight and Board did not schedule the follow-up evaluation meeting. Director Lopez requested that the meeting be scheduled. 2) The Board members received an anonymous email communication in approximately November 2016 from an employee regarding items of concern. The Board has not had a discussion regarding the email. The Board has a responsibility and due diligence to

have a discussion regarding this matter. 3) PERS had expressed concerns regarding an individual case matter. There was a discussion regarding the PERS matter, but there was not a report out on the status of this PERS matter.

Director Lopez reported that a letter was sent April 5, 2017, regarding Project Committee No. 15 and the conduct of meeting. There have been three (3) meetings, one on April 5th, March 16th and March 3rd. Regarding the March 3rd Project Committee No. 15 meeting - Moulton Niguel Water District representative became aware of the meeting by checking the SOCWA website. Regarding the March 16th Project Committee No. 15 meeting - Moulton Niguel Water District received a Notice/Agenda two (2) days prior to the meeting, and Moulton Niguel Water District received the Notice/Agenda for the April 5th Project Committee No. 15 meeting 45 minutes prior to the 24 compliance under the Brown Act. Director Lopez reported that the dates were included in the letter from Moulton Niguel Water District.

Director Lopez stated that the member agencies were SOCWA Board members, and there would be times of disagreement, but the Board should consider treating each other with courtesy, respect and equal consideration so not to put SOCWA staff in an awkward position.

Director Lopez indicated that all of the matters were resolvable with an open discussion, and noted the importance that no one was left out of the discussions, or perceived to be left out, and stated that was contrary to what the understanding of what the foundation and history of SOCWA.

Director Lopez recognized that there was a lot to consider with Moulton Niguel Water District comments, and reported that Moulton Niguel Water District wanted to go on the record addressing these issues. Director Lopez stated the importance of articulating Moulton Niguel Water District's concerns and expressed Moulton Niguel Water District's desire to work together and for everyone to be successful. Director Lopez thanked the Board for the time and patience to make Moulton Niguel Water District's comments, as well as appreciated the Board's time to review Moulton Niguel Water District's letters.

Director Iseman referenced the anonymous email/letter and stated that anonymous isn't unusual, but anonymous is not often honored. Director Iseman inquired if Moulton Niguel Water District had a policy to respond to anonymous email/letter.

Director Lopez indicated that Moulton Niguel Water District did not have a policy for responding to an anonymous email/letter and stated that she could not respond to personal experience, but understood that this was the second email/letter the SOCWA Board had received in one year. Director Lopez reported she was not on the Board when the first anonymous email communication was received by the SOCWA Board, but was on the SOCWA Board when the second one was received and reached out to the SOCWA Chairman to express concern and due diligence, not to put merit on an anonymous complaint. Director Lopez stated that based on some of the elements contained in the letter, the SOCWA Board should have a conversation regarding the email communication. If the discussion is inconclusive or invalid, the Board had the conversation and the matter was not ignored. Director Lopez reported had the email communication come to Moulton Niguel Water District there would have been a conversation.

Director Iseman reported that she would take the matter back to the City and stated that should Moulton Niguel Water District receive an anonymous communication at their district, that there would be consistency and the anonymous communication was treated the same as at SOCWA.

Director Lopez concurred.

Director Dunbar reported that as Chair prior to Chairman Ferons, the Board did receive an anonymous email and the anonymous email was addressed. Director Dunbar reported that he had discussed the anonymous email with the Executive Committee at the time and he reached out to that individual(s) and requested, at the behest of the Executive Committee and as Chairman, to meet with them. No response was received. Another email was sent requesting to meet and contact the Chair anytime. Again, no response was received. Director

Dunbar reported his actions to the Executive Committee and they had indicated that if they were not going to respond to the Executive Committee, the matter was to be dropped.

Director Lopez inquired if the second anonymous email was addressed.

Chairman Ferons reported that he had responded to the anonymous email and a response was received indicating that they were considering following up, but a follow up email was not received.

Chairman Ferons introduced Mr. Rob Grantham as the new Assistant General Manager – Finance at Santa Margarita Water District. Chairman Ferons stated that Mr. Grantham will be assisting SMWD with rates & financing projects, and was an asset to South Orange County.

ACTION TAKEN

No action required.

Consent Calendar

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

Chairman Ferons requested that items B. Financial Matters and E. Project Committee No. 15, Approval of Minutes – March 3, 2016 be pulled from the Consent Calendar.

Director Brunhart requested that item D. Capital Improvement Program, Status Report be pulled from the Consent Calendar.

ACTION TAKEN

Motion was made by Director Goldman and seconded by Director Miller to approve the remaining items under the consent calendar sans items B. Financial Matters, D. Capital Improvement Program and E. Project Committee No. 15.

Motion carried:	Aye 10; Nay 0; Abstain 0; Absent 0
Director Dunbar	Aye
Director Goldman	Aye
Director Miller	Aye
Director Lopez	Aye
Director Reed	Aye
Vice Chairman Iseman	Aye
Chairman Ferons	Aye
Director Brunhart	Aye
Director Dopudja	Aye
Director Rebensdorf	Aye

5.B. Financial Matters

Director Lopez referenced page 16 of the Agenda Book and referenced the Table of Contents at item 5.B. and noted that a typo of February 2017 vs. December 2016 – Exhibit A respectively.

Director Lopez referenced page 16 of the Agenda Book and inquired regarding the \$21 for PC3A in the General Fund listing. Ms. Carey reported that the \$21 was due to fringe benefits applied to the labor on capital projects.

Director Lopez reported that the 3A Plant was not operated by SOCWA; Chairman Ferons noted that there was a contract to complete capital projects that were in progress under SOCWA. Director Lopez requested staff to verify the capital projects and fringe benefit amount regarding the 3A Treatment Plant and provide clarification in writing to Moulton Niguel Water District. Ms. Carey duly noted the request.

Director Lopez referenced page 18 of the Agenda Book and noted that Exhibit C was a summary of cash and investments for all of the SOCWA Project Committees. Chairman Lopez reported that Moulton Niguel Water District had submitted a prior request to SOCWA staff to provide the summary of schedule and cash investments by individual Project Committees.

Ms. Carey reported that the requested summary by project committee was forthcoming. An open discussion ensued.

Director Lopez noted for the record that Moulton Niguel Water District was requesting an agenda item and requesting SOCWA staff to provide clarity and resolution of the outstanding issues, areas of concern, and gaps within the financial accounting.

Director Lopez referenced page 19 and reported that Non-Capital Engineering and Small Internal Capital reports stated all funds collected, but reported that the Small Internal Capital funds from Moulton Niguel Water District had not been collected related to PC15 the amount could not be 'equal'. Ms. Carey duly noted the oversight.

Director Lopez referenced page 19, PC 3A, Fiscal Year Spending at \$360,761, and inquired the reason for the increase from the last month of the last summary at \$355,000. Chairman Lopez requested that staff provide an explanation for the increase. Ms. Carey duly noted the request.

Director Lopez referenced page 21, and requested an addition to the report by budget to actual per Project Committee. Ms. Carey duly noted the request.

Director Lopez referenced pages 24-25, and noted that Recruitment & Employee Relations at 270 percent over budget, Legal at 116 percent over budget and Computer & Photocopy Supplies at 872 percent over budget, and; inquired the reason for the over budget items. Director Lopez referenced page 24 and requested that the "Legal" service item be broken-out by Project Committee and legal services to provide clarity as to legal expenditures.

Ms. Carey duly noted the request.

Director Brunhart referenced page 19 of the Agenda Book and inquired as to the accuracy of note (2) at \$521,248. Ms. Burnett reported that the number was not current and stated that additional billings have gone out and the reported \$521,248 was for Q-3, and does not include Q-4.

Ms. Burnett reported that staff would consult with legal counsel regarding the requested report on legal expenses with respect to Project Committee No. 15 and report back to the Board.

ACTION TAKEN

Motion was made by Director Brunhart and seconded by Director Dunbar to approve item 5.B. Financial Matters of the Consent Calendar.

Motion carried:	Aye 10; Nay 0; Abstain 0; Absent 0
	Director Dunbar Aye
	Director Goldman Aye
	Director Miller Aye
	Director Lopez Aye
	Director Reed Aye
	Vice Chairman Iseman Aye
	Chairman Ferons Aye
	Director Brunhart Aye
	Director Dopudja Aye
	Director Rebensdorf Aye

5.D. Capital Improvement Program – Status Reports

Director Brunhart referenced pages 67 and 68 of the Agenda Book and noted that several items regarding Project Committee No. 15 that were scheduled to be on the Engineering Committee agenda next week, April 13th. Director Brunhart inquired if the East Primary Influent Gates and the Grating Rebate and Concrete Repairs would be on the April or May Engineering Committee agenda. Mr. Peck confirmed that both items would be on the April Engineering Committee Agenda.

ACTION TAKEN

Motion was made by Director Brunhart and seconded by Director Miller to approve item 5.D. Capital Improvement Program – Status Reports.

Motion carried: Aye 10; Nay 0; Abstain 0; Absent 0
Director Dunbar Aye
Director Goldman Aye
Director Miller Aye
Director Lopez Aye
Director Reed Aye
Vice Chairman Iseman Aye
Chairman Ferons Aye
Director Brunhart Aye
Director Dopudja Aye
Director Rebensdorf Aye

5.E. Project Committee No. 15 – Approval of Minutes, March 3, 2016

Director Lopez reported that the request to pull item 5.E. from the Consent Calendar was to facilitate a separate Project Committee No. 15 vote.

ACTION TAKEN

Motion was made by Director Dunbar and seconded by Director Brunhart to approve the minutes of the March 3, 2017, Project Committee No. 15 meeting as submitted.

Motion carried: Aye 3; Nay 0; Abstain 1; Absent 0
Director Dunbar Aye
Director Lopez Abstain
Director Brunhart Aye
Director Iseman Aye

Engineering Matters

Award of Engineering Services Contract to Lee & Ro [PC17]

ACTION TAKEN

Motion was made by Director Lopez and seconded by Director Dunbar to approve the award of the design services contract to Lee & Ro at a fee of \$136,072.

Motion carried: Aye 5; Nay 0; Abstain 0; Absent 0
Director Dunbar Aye
Director Goldman Aye
Director Lopez Aye
Vice Chairman Iseman Aye
Director Brunhart Aye

General Manager's Report

Director Lopez requested background information on the Expense and Capitalization Policy. Ms. Burnett stated that a draft of the Expense and Capitalization Policy would be presented to the Board for comments and suggestions as well as brought back to the Board for discussion at the May 2017 Board meeting. An open discussion ensued.

Director Lopez requested that the discussion of the Expense and Capitalization Policy be added into the budget adoption timeline, and also requested that a copy of the accounting standards and definitions that SOCWA staff adheres to for O&M and Capital be provided to Moulton Niguel Water District. Ms. Burnett duly noted the requests.

Director Lopez referenced the budget adoption process and stated that in the last fiscal year the Board was 'under-the-gun' to adopt the budget and noted that more deliberation was

needed on key items on how O&M was defined, labor terms, and accounting standards. Director Lopez requested time be given to provide a thorough review of the budget in a timely manner.

Ms. Carey introduced Mr. Kevin Zobot as the new SOCWA Sr. Accountant. Mr. Zobot will be responsible for working on the budget, financial reporting, use audit, invoicing and the many other miscellaneous accounting tasks at SOCWA.

General Manager's Status Report

ACTION TAKEN

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

Resolution No. 2017-01 William Cameron Commendation

ACTION TAKEN

Motion was made by Director Rebensdorf and seconded by Director Iseman to approve Resolution No. 2017-01 commending Director Cameron for his years of service to SOCWA.

Motion carried:	Aye 10; Nay 0; Abstain 0; Absent 0
	Director Dunbar Aye
	Director Goldman Aye
	Director Miller Aye
	Director Lopez Aye
	Director Reed Aye
	Vice Chairman Iseman Aye
	Chairman Ferons Aye
	Director Brunhart Aye
	Director Dopudja Aye
	Director Rebensdorf Aye

The Chairman adjourned the Board of Directors Meeting for a five (5) minute recess at 9:30 a.m.

The Board meeting reconvened at 9:35 a.m. and went into Closed Session at 9:35 a.m.

Closed Session

A. Conference with SOCWA Labor Negotiator – Closed Session

In preparation for 2017 Employee MOU Renewal a Closed Session will be conducted in accordance with Government Code Section 54957.6.

Conference with SOCWA Negotiator – Betty Burnett, General Manager
Employee Organization – SOCWA Employee Association

The Board meeting reconvened in open session at 10:04 a.m.

Report Out of Closes Session

ACTION TAKEN

No action taken in closed session.

Other Matters

Chairman Ferons asked if there were any more questions or comments from the Board. There were none.

Adjournment

There being no further business, Chairman Ferons adjourned the meeting at 10:05 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 April 6, 2017, and approved by the Board of Directors of the South Orange County Wastewater Authority.

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

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

April 6, 2017

<u>DESCRIPTION</u>	<u>MOTION MADE BY</u>	<u>ACTION</u>
Consent Calendar	Goldman	Approved
Award of Contract Lee & Ro [PC17]	Lopez	Approved
Resolution No. 2017-01 Commendation for Director Cameron	Rebensdorf	Approved

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

Board of Directors

April 25, 2017

The Special Meeting of the South Orange County Wastewater Authority (SOCWA) Board of Directors was held on April 25, 2017 at 10:00 a.m. at the Administrative Offices located at 34156 Del Obispo Street, Dana Point, California. The following members of the Board of Directors were present:

MIKE DUNBAR, Emerald Bay Water District	Director
FRED ADJARIAN, El Toro Water District	Alternate Director
RAY MILLER, City of San Juan Capistrano	Director
DOUG REINHART, Irvine Ranch Water District	Director
TONI ISEMAN, City of Laguna Beach	Vice Chairman
DAN FERONS, Santa Margarita Water District	Chairman
ANDY BRUNHART, South Coast Water District	Director
HECTOR RUIZ, Trabuco Canyon Water District	Alternate Director
DAVE REBENS DORF, City of San Clemente	Director

Absent:

JOONE LOPEZ, Moulton Niguel Water District	Director
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Staff present:

BETTY BURNETT	General Manager/Secretary
TERI NOSON	Executive Assistant/Assistant Secretary

Chairman Ferons called the meeting to order at 10:00 a.m. and welcomed everyone present. Director Ruiz led the Pledge of Allegiance to the Flag of the United States of America.

Oral Comments

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

No comments were received.

ACTION TAKEN

No action required.

The Board went into Closed Session at 10:01 a.m.

Closed Session

A. Conference with SOCWA Labor Negotiator – Closed Session

In Preparation of 2017 Employee MOU Renewal a Closed Session will be conducted in accordance with Government Code Section 54957.6.

Conference with SOCWA Negotiator – Betty Burnett, General Manager

Employee Organization – SOCWA Employee Association

The Board ended closed session at 10:59 a.m.

Report Out of Closed Session

ACTION TAKEN

No action was taken in closed session.

Adjournment

There being no further business, Chairman Ferons adjourned the meeting at 11:00 a.m.

I HEREBY CERTIFY that the foregoing Minutes are a true and accurate copy of the Minutes of the Special Meeting of the South Orange County Wastewater Authority Board of Directors of April 25, 2017, and approved by the Board of Directors of the South Orange County Wastewater Authority.

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

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

Board of Directors

April 26, 2017

The Special Meeting of the South Orange County Wastewater Authority (SOCWA) Board of Directors was held on Thursday, April 26, 2017 at 8:00 a.m. at the Administrative Offices located at Laguna Cliffs Resort & Spa Marriott 25135 Park Lantern, Dana Point, California. The following members of the Board of Directors were present:

MIKE DUNBAR, Emerald Bay Water District	Director
SCOTT GOLDMAN, El Toro Water District	Director
RAY MILLER, City of San Juan Capistrano	Director
JOONE LOPEZ, Moulton Niguel Water District	Director
TONI ISEMAN, City of Laguna Beach	Vice Chairman
DAN FERONS, Santa Margarita Water District	Chairman
ANDY BRUNHART, South Coast Water District	Director
DAVE REBENS DORF, City of San Clemente	Director

Absent:

DOUG REINHART, Irvine Ranch Water District	Director
STEPHAN DOPUDJA, Trabuco Canyon Water District	Director

Staff present:

BETTY BURNETT	General Manager/Secretary
JEANETTE COTINOLA	Procurement/Contracts Administrator

Chairman Feron called the meeting to order at 8:00 a.m. and welcomed everyone present.

Oral Comments

Chairman Feron 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.

Strategic Work Shop

Facilitator Michele Tamayo introduced the Strategic Planning Session Objective and Agenda (attached). General Manager, Betty Burnett, provided a review and update of the priorities of the Board as discussed at the planning meeting held in May 2016 (attached).

ACTION TAKEN

Discussion ensued with the Board reaching consensus on six (6) major areas of focus for the coming year (attached).

Adjournment

There being no further business, Chairman Ferons adjourned the meeting at 12:00 p.m.

I HEREBY CERTIFY that the foregoing Minutes are a true and accurate copy of the Minutes of the Special Meeting of the South Orange County Wastewater Authority Board of Directors of April 26, 2017, and approved by the Board of Directors of the South Orange County Wastewater Authority.

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

**SOCWA Board of Directors
Strategic Planning Session
April 26, 2017**

OBJECTIVES

- 1. Select Top Priorities (5-7) for 2017-2019**
- 2. Identify Key Questions to Determine SOCWA's Future**

AGENDA

8:00 Welcome (Board President)

- Purpose
- Expectations/Importance

8:15 Setting the Stage

- Review Agenda/Outcomes
- How we'll work together today

8:45 Strategic Planning Process

- What you said when we started
- What we've accomplished-Update (GM)
- Where we are today
- Our goal today: identify top priorities for next few years

10:00 Break

10:15 Identify Our Top Priorities

- What are our most critical imperatives for the next two to three years?
- Most important issues for next 12 months
- Questions to be addressed to determine SOCWA future

11:30 Our Commitments for Success

- Board
- Staff

Noon ADJOURN

PRIORITIES

May 2016

1. **Treat Wastewater**
2. **Get our house in order—Organizational issues, improve operations, budget process, permits, maintain environmental record**
3. **Keep up with industry standards, issues**
4. **Resolve budget, voting issue**
5. **Asset management plan for maintenance**
6. **Innovation**
7. **Water reuse-sustainability**
8. **Bio solids plan**
9. **Research & find grants**

Priority 1 — Treat Wastewater

- Staff Hiring & Development
 - Hired/promoted qualified people (part of succession plan)
 - Hired Sr. Engineer; Sr. Accountant/CPA; Dr. of Environmental Compliance
 - Processed 5 retirements
 - Promoted 10 employees (7 SOCWA qualified O&M personnel)
- Started new aeration system (JBL Treatment Plant)
- Obtained Coastal Development Permit (CTP Export Sludge pipeline)
- Inspected/cleaned porthole (Aliso Creek & SJ Creek Ocean Outfalls)
- Finished planning studies at JBL & CTP

Priority 1 — Treat Wastewater, cont.

- Shut down existing cogeneration engines by 12/31/16 (complied w/AQMD Rule 1110.2)
- Upgraded SCADA system control panels
- Installed 2 continuous online odor monitors (CTP & RTP)
- Efficiency Improvements: maintenance management/tracking & SCADA system automation
- Preparing documentation for FEMA funding (management of major storm events w/extended power outages)

Priority 2 — Get House in Order

Organizational issues: improve operations, budget process, permits, maintain environmental record

- Financial
 - Internally prepared Financial Statements
 - Avoided over-collecting & giving large refunds
 - Developed Total Comp Package approach for MOU negotiations
 - Made recommendations to reduce/contain Retiree Health Benefits
 - Recommended reductions/cost containment of Employee PTO
 - Discussed strategies for Unfunded Pension Liability

Priority 2 — Get House in Order, cont.

Organizational issues: improve operations, budget process, permits, maintain environmental record

Financial, cont.

- Added asset & project tracking to new financial system
- Member agency billings have project-level detail
- Monthly cash reporting by member agency, project committee & capital projects in-process
- Using audit automation & enhanced reporting
- Finished full year of payroll in new ADP system
- Maintain timely & improved monthly financial reporting

Priority 2 — Get House in Order, cont.

Organizational issues: improve operations, budget process, permits, maintain environmental record

Meeting our Commitment to Environmental Compliance

- Member agency stakeholder & submission process for Outfall NPDES permits
- Compliance plans for record number of new Air Quality permits (Regional Treatment & JBL Plants)
- Storm water regulatory Notice of Non-Applicability claim for the JBL (exemption of industrial storm water regulations)

Created Safety & Technology Committees

Priority 3 — Keep up with industry standards & issues

- Optimize plant usage: Carollo study (JBL) & CH2M Hill study (CTL)
- Full safety training program & reporting of safety record
- Microbiology training operators & lab staff
- Improved HachWIMS data collection & reporting
- Improved web-site, public information, agenda & notice posting
- Continued hiring, training & promotions of Operator Staff
- Timely completion of Annual Financial Audit
- Participated in CASA Regulatory Working Group & Federal Legislative Committees
- Completed all required supervisor trainings

Priority 4 — Resolve budget, voting issue

- Finished Allocation Working Group – 13 major recommendations put into 2017/18 Budget Draft
- Finished Voting/Governance Workshops

Priority 5 — Asset management plan for maintenance

- Improved software, training and use of Tabware CMMS system
- Improved PM Work Schedule
- Cleaned maintenance records
- Finished condition assessment projects requiring plant shutdowns
- Finished landscaping improvements (cut fire risk at CTP & RTP)
- Hazan & Sawyer hired (gap analysis of 10-year Capital Plan)

Priority 6 — Innovation

- Hired:
 - IT Administrator
 - Qualified SCADA/Electrical Systems Manager
 - Hired Electrical Instrumentation Technician
- Improved communication/data devices & network
- Addressed redundant IT services
- Finished wireless network improvements (Regional Treatment Plant) Improved SCADA system. Implemented wireless device use
- Improved network, wireless & SCADA at JBL (underway at CTP)

Priority 7 — Water re-use, sustainability

- Finished planning studies (JBL & CTP) to facilitate member agency discussions on upgrades & capacity utilization
- Permit and/or Produce Recycled Water production (15K acre-feet/yr)
 - 4000+ use sites system wide (parks, schools, medians, HOAs)
- Finished member agency stakeholder & process for filing SOCWA recycled water permit renewal for SD Region Master Recycled Permit
- Submitted final element to SOCWA area Recycled Water Salt & Nutrient Management Plan
- Permit & Manager Substantial Dry Weather Diversion Program
 - 76 sites – up to 450,000 gpd
 - Risk from spills, over application, irrigation runoff

Priority 8 — Biosolids plan

- New long-term contract with Nursery Products
- Continue study w/funding (FY17-18) of long-term management options

Priority 9 — Research & find grants

- Applied for \$101,894 through Prop. 1, Watershed Restoration & Delta Water Quality and Ecosystem Restoration Grant Program.
Grant not awarded

SOCWA Board Strategic Planning

April 26, 2017

The SOCWA Board of Directors set five strategic priorities for the next 12 to 18 months:

Master Plan (9 dots)

- Things that should be addressed in Master Plan Effort:
 - Determine future plant usage
 - Future Conservation/Plans
 - Nutrient Removal
 - Investigate/Prepared for climate change issues

Financial Accountability (9 dots)

- Come to full board with Finance Committee format and on major issues and policies
 - Greater board engagement and involvement
 - Board to determine deadlines for budgets & audit, timeliness of data
 - Baseline data – where are we with our current approach and what is the impact of change
 - Board agreement on budget assumptions
 - Build confidence in Finance Statements
 - Understand allocations
 - Cost effective approaches

Determine Future CIP Process (8 dots)

Resolve Legal Issues (7 dots)

- Review JPA/legal agreements (7 dots)

Asset Management for Maintenance (6 dots)

- Update Board on PM plan and provide summary of forward steps
- Clarify what we are doing now and give a baseline for comparison

Agenda Item

Meeting Date: December 7, 2017

TO: Board of Directors

FROM: Betty Burnett, General Manager

STAFF CONTACT: Teri Noson, Executive Assistant/Clerk of the Board

SUBJECT: Executive Committee Minutes

The submitted Executive Committee minutes have not been approved by the Executive Committee. Staff is recommending that the Executive Committee approve subject minutes and the Board of Directors receive and file the approved minutes.

Recommended Action

- 1) Approve subject minutes
- 2) Receive and file subject minutes.

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

Executive Committee

March 20, 2017

The Special Meeting of the South Orange County Wastewater Authority (SOCWA) Executive Committee Meeting was held on March 20, 2017, at 11:30 a.m. at SOCWA Administrative Offices located at 34156 Del Obispo Street, Dana Point, California. The following members of the Executive Committee were present:

MICHAEL DUNBAR	Emerald Bay Service District
MATT COLLINGS	Moulton Niguel Water District
DAN FERONS	Santa Margarita Water District
TONI ISEMAN	City of Laguna Beach

Staff Present:

BETTY BURNETT	General Manager/Secretary
MARY CAREY	Finance Controller
BRAD NEUFELD	Varner & Brandt

Chairman Ferons called the meeting to order at 11:30 a.m. and welcomed everyone present.

Public Comments

There were no public comments.

The Executive Committee entered into Closed Session at 11:45 a.m.

Closed Session

Conference with SOCWA Labor Negotiator – Closed Session

- a. In Preparation for 2017 Employee MOU Renewal a Closed Session will be conducted in accordance with Government Code Section 54957.6.

Conference with SOCWA Negotiator - Betty Burnett, GM
Employee Organization – SOCWA Employee Association

The Board ended closed session at 1:55 p.m.

ACTION TAKEN

No action was taken in closed session.

Adjournment

There being no further business, Chairman Ferons adjourned the meeting at 1:56 a.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 March 20, 2017, and approved and ratified by the Executive Committee of the South Orange County Wastewater Authority.

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

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

Executive Committee

May 18, 2017

The Special Meeting of the South Orange County Wastewater Authority (SOCWA) Executive Committee Meeting was held on May 18, 2017, at 8:00 a.m. at their Administrative Offices located at 34156 Del Obispo Street, Dana Point, California. The following members of the Executive Committee were present:

MICHAEL DUNBAR	Emerald Bay Service District
MATT COLLINGS	Moulton Niguel Water District
DAN FERONS	Santa Margarita Water District
TONI ISEMAN	City of Laguna Beach

Staff Present:

BETTY BURNETT	General Manager/Secretary
BRAD NEUFELD	Varner & Brandt

Chairman Ferons called the meeting to order at 8:00 a.m. and welcomed everyone present.

Public Comments

There were no public comments.

The Executive Committee entered into Closed Session at 8:01 a.m.

Closed Session

Conference with SOCWA Labor Negotiator – Closed Session

- a. In Preparation for 2017 Employee MOU Renewal a Closed Session will be conducted in accordance with Government Code Section 54957.6.

Conference with SOCWA Negotiator - Betty Burnett, GM
Employee Organization – SOCWA Employee Association

The Board ended closed session at 8:56 a.m.

ACTION TAKEN

No action was taken in closed session.

Adjournment

There being no further business, Chairman Ferons adjourned the meeting at 8:57 a.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 May 18, 2017, and approved and ratified by the Board of Directors of the South Orange County Wastewater Authority.

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

Agenda Item

Meeting Date: December 7, 2017

TO: Board of Directors
FROM: Betty Burnett, General Manager
STAFF CONTACT: Jim Burror, Director of Operations
SUBJECT: September 2017 Operations Report

Summary/Discussion

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

1) Monthly Operational Report

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

Receive and file the operational reports.

Monthly Operational Report

SOCWA Operational Report September, 2017

Excursion, Complaint, and Violation Events

Events	CTP	RTP	JBL	Totals
Odor	0	4(1)	0	4
Noise	0	0	0	0
Spills	0	0	0	0
Violations	1(2)	0	0	1
Others	0	0	0	0

(1) Odors were reported several miles from RTP and not tracked back to the plant.

(2) Title 22 - 7-day median coliform bacteria exceedance.

Plant Wastewater Billing Characteristics

Key Parameters	CTP	RTP	JBL TP1	JBL TP2	Totals
Influent (mgd)	2.81	7.64	6.57	0.93	17.96
Effluent (mgd)	2.49	1.25	6.57	0.98	11.29
Peak Flow (mgd)	3.21	16.02	13.53	5.96	38.72
Influent BOD (mg/l)	231	251	245	259	
Influent TSS (mg/l)	342	325	423	296	
Effluent BOD (mg/l)	6.5	4.5	6.0	9.8	
Effluent TSS (mg/l)	5.6	5.1	5.1	11.6	
Effluent Turbidity (NTU)	2.9	3.4	3.1	5.9	

Recycled Water (AWT) Operations

Key Parameters	CTP	RTP	JBL	Totals
Average Flow (mgd)	1.18	6.40		7.58
Days of Operation (days)	29	30		
Total Flow (million gallons)	35.4	191.9		227.3
Plant Irrigation (million gallons)	0.10	0.10	0.29	
AWT Time Online (%)	100.0	100.0		

Wastewater Unit Definitions

mgd = million gallons per day

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

NTU = Nephelometric Turbidity Units

SOCWA Operational Report September, 2017 (cont'd)

Biosolids Management

Biosolids Management Site	CTP	RTP	JBL	Totals
Synagro Compost (tons)		735.1	178.7	913.9
Nursery Products (tons)		373.5	454.3	827.8
Prima Deshecha (tons)		429.6	200.4	630.0
Other: (tons)		0.0	0.0	0.0
Total Processed (tons)		1,538.3	833.4	2,371.7

Summary of Maintenance Activities

Task Type	CTP	RTP	JBL	Totals
Preventative Maintenance	56	707	561	1,324
Corrective Maintenance	177	136	114	427

Site Visitors

Visitor Types	CTP	RTP	JBL	Totals
Regulatory	0	2	0	2
Member Agency	0	3	0	3
Residents	0	0	0	0
Others	9	38	33	71
Tours #/Visitors	0	1	0	1

Grit Disposal Management

Grit & Screenings	CTP	RTP	JBL	Totals
Simi Valley Landfill (tons)	NA	59.4	24.9	84.3

Chemical and Energy Utilization

Chemical/Utility	CTP	RTP	JBL	Totals
Ferric Chloride (tons)	0.1	NA	NA	0.1
Power (kWh)	220,666	589,602	503,009	1,313,277
Natural Gas (Dth)	23	NA	3,185	3,208
Digester Gas to Engines (scfm)		0(1)	1,132,307	1,132,307
Digester Gas to Flares (scfm)		15,999,565	2,876,799	18,876,364
Digester Gas Power Savings		(1)		

(1) Engines were off at RTP and being started up at JBL under ongoing construction projects.

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 September, 2017 (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	1.638	56.09%				1.64
EBSB	0.048	1.64%				0.05
SCWD	1.235	42.27%		1.651	25.13%	2.89
MNWD	0.000	0.00%	7.64	1.400	21.31%	9.04
CSJC				2.186	33.27%	2.19
SMWD				1.334	20.30%	1.33
Total	2.921	100.00%	7.64	6.571	100.00%	17.13

Total Agency Outfall Flows by Outfall System-Billing Flows

Agency	SJCOO (mgd)	SJCOO (%)	SJCOO Meter (mgd)	ACOO (mgd)	ACOO (%)	Total (mgd)	Notes
CLB				1.64	23.63%	1.64	
EBSB				0.05	0.69%	0.05	
SCWD	1.71	17.25%		0.71	10.26%	2.42	Includes Desalters
MNWD	1.40	14.11%		1.25	17.96%	2.65	
ETWD				1.96	28.26%	1.96	Direct Outfall Only
CSJC	2.63	26.49%				2.63	Includes Desalter
SMWD	2.52	25.43%				2.52	Includes Chiquita
CSC	1.66	16.73%				1.66	Direct Outfall Only
IRWD				1.33	19.20%	1.33	Direct Outfall Only
Total	9.92	100.00%	10.33	6.93	100.00%	16.86	

SOCWA Operational Report September, 2017 (cont'd)

FY Flow/Solids Summary-Billing

Project Committee No. 2 Liquids (JBL)

Agency	Own (mgd)	Own (%)	Budget (mgd)	Budget (%)	Month (mgd)(1)	Month (%)	FY Avg to Date (mgd)	FY Avg to Date (%)
CSJC	4.00	30.77%	3.19	38.02%	2.186	33.27%	2.20	34.81%
MNWD	3.00	23.08%	1.40	16.69%	1.400	21.31%	1.40	22.16%
SCWD	3.75	28.85%	2.00	23.84%	1.651	25.13%	1.71	27.12%
SMWD	2.25	17.31%	1.80	21.45%	1.334	20.30%	1.01	15.91%
Total	13.00	100.00%	8.39	100.00%	6.571	100.00%	6.32	100.00%

Project Committee No. 2 Solids (JBL)

Agency	Own (lbs/d)	Own (%)	Budget (lbs/d)	Budget (%)	Month (lbs/d)	Month (%)	36 Month Rol. Avg. (lbs/d)	36 Month Rol. Avg. (%)
CSJC	11,572	30.00%	8,620	33.30%	5,041	24.81%	6,357	26.35%
MNWD	8,340	21.62%	5,270	20.36%	5,149	25.35%	6,035	25.01%
SCWD	7,715	20.00%	5,304	20.49%	5,219	25.69%	5,021	20.81%
SMWD	10,946	28.38%	6,695	25.86%	4,906	24.15%	6,716	27.83%
Total	38,573	100.00%	25,889	100.00%	20,315	100.00%	24,128	100.00%

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

Agency	Own (%)	Variable Budget (mgd)	Variable Budget (%)	Month Outfall Flow (mgd)	Month Outfall Flow (%)	Month EPS Outfall Flow (mgd)	Month EPS Outfall Flow (%)
CSC	16.62%	3.00	17.13%	1.66	16.73%		
CSJC	11.08%	3.83	21.87%	2.63	26.49%	2.19	33.27%
MNWD	15.51%	2.42	13.82%	1.40	14.11%	1.40	21.31%
SCWD	12.47%	2.67	15.25%	1.71	17.25%	1.65	25.13%
SMWD	44.32%	5.59	31.92%	2.52	25.43%	1.33	20.30%
Total	100.00%	17.51	100.00%	9.92	100.00%	6.57	100.00%

(1) Influent billing meter summary:

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

SOCWA Operational Report September, 2017 (cont'd)

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

Project Committee No. 5 - Outfall (SJCOO)

Agency	FY Avg Outfall Flow (mgd)	FY Avg Outfall Flow (%)	FY Avg EPS Outfall Flow (mgd)	FY Avg EPS Outfall Flow (%)
CSC	1.521	14.29%		
CSJC	2.603	24.46%	2.20	34.81%
MNWD	1.420	13.34%	1.40	22.16%
SCWD	1.832	17.21%	1.71	27.12%
SMWD	3.268	30.70%	1.01	15.91%
Total	10.643	100.00%	6.32	100.00%

Project Committee No. 15 (CTP)

Agency	Own (mgd)	Own (%)	Budget (mgd)	Budget (%)	Month (mgd)	Month (%)	FY Avg to Date (mgd)	FY Avg to Date (%)
CLB	2.54	37.91%	1.960	60.61%	1.638	56.09%	1.735	55.83%
EBS	0.20	2.99%	0.061	1.89%	0.048	1.64%	0.054	1.75%
SCWD	2.00	29.85%	1.213	37.51%	1.235	42.27%	1.318	42.42%
MNWD	1.96	29.25%	0.000	0.00%	0.000	0.00%	0.000	0.00%
Total	6.70	100.00%	3.234	100.00%	2.921	100.00%	3.108	100.00%

Project Committee No. 17 Liquids (RTP)

Agency	Budget Liquids (mgd)	Budget Liquids (%)	Month Plant Influent (mgd)	Month Centrate (mgd)	Month Total (mgd)(1)	Month Total (%)	FY Avg to Date (mgd)	FY Avg to Date (%)
CLB	0.01408	0.167%	0.0000	0.0121	0.0121	0.16%	0.0141	0.18%
EBS	0.00044	0.005%	0.0000	0.0004	0.0004	0.00%	0.0004	0.01%
SCWD	0.00871	0.103%	0.0000	0.0091	0.0091	0.12%	0.0107	0.14%
ETWD	0.01719	0.204%	0.0000	0.0141	0.0141	0.18%	0.0133	0.17%
MNWD	8.40541	99.521%	7.6407	0.0542	7.6948	99.54%	7.7187	99.50%
Total	8.44583	100.000%	7.6407	0.0899	7.7306	100.00%	7.7573	100.00%

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

SOCWA Operational Report September, 2017 (cont'd)

FY Flow/Solids Summary (cont'd)

Project Committee No. 17 Solids (RTP)

Agency	Own (lbs/d)	Own (%)	Budget (lbs/d)	Budget (%)	Total Month (lbs)	Total Month (%)	FY Avg Total to Date (lbs)	FY Avg Total to Date (%)
CLB	5,605	11.22%	4,728	12.95%	141,101	13.49%	183,542	15.90%
EBSD	295	0.59%	147	0.40%	4,117	0.39%	5,775	0.50%
SCWD	4,480	8.96%	2,926	8.02%	106,336	10.17%	139,588	12.09%
ETWD	10,200	20.41%	5,903	16.17%	164,099	15.69%	171,150	14.83%
MNWD	29,395	58.82%	22,801	62.46%	630,152	60.26%	654,121	56.67%
Total	49,975	100.00%	36,505	100.00%	1,045,805	100.00%	1,154,176	100.00%

Project Committee No. 24 (ACOO)

Agency	Own (%)	Budget (mgd)	Budget (%)	Month Outfall Flow (mgd)	Month Outfall Flow (%)	FY Avg Outfall Flow (mgd)	FY Avg Outfall Flow (%)
CLB	11.000%	1.49	13.32%	1.638	23.63%	1.735	26.94%
EBSD	0.780%	0.06	0.54%	0.048	0.69%	0.054	0.84%
ETWD	16.302%	2.89	25.83%	1.960	28.26%	1.690	26.25%
IRWD	15.760%	2.62	23.41%	1.332	19.20%	1.260	19.57%
MNWD	43.848%	2.96	26.45%	1.245	17.96%	0.963	14.96%
SCWD	12.310%	1.17	10.46%	0.711	10.26%	0.736	11.43%
Total	100.000%	11.19	100.00%	6.934	0.00%	6.439	100.00%

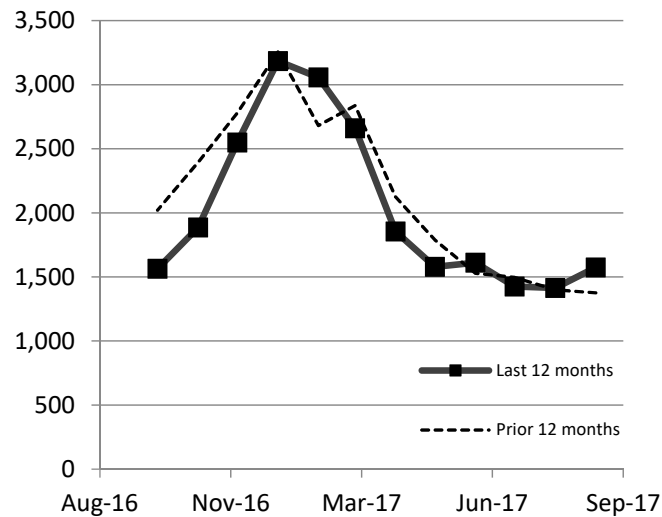
SOCWA Ocean Outfall Discharges by Agency

SOCWA Outfall Discharge Report September, 2017

Agency	SJCOO (mgd)	SJCOO (%)	ACOO (mgd)	ACOO (%)	Total (mgd)
CLB			1.64	23.63%	1.64
EBSD			0.05	0.69%	0.05
SCWD	1.71	17.25%	0.71	10.26%	2.42
MNWD	1.40	14.11%	1.25	17.96%	2.65
ETWD			1.96	28.26%	1.96
CSJC	2.63	26.49%			2.63
SMWD	2.52	25.43%			2.52
CSC	1.66	16.73%			1.66
IRWD			1.33	19.20%	1.33
Total	9.92	100.00%	6.93	100.00%	16.86
or Acre-Feet per year equivalent					18,880

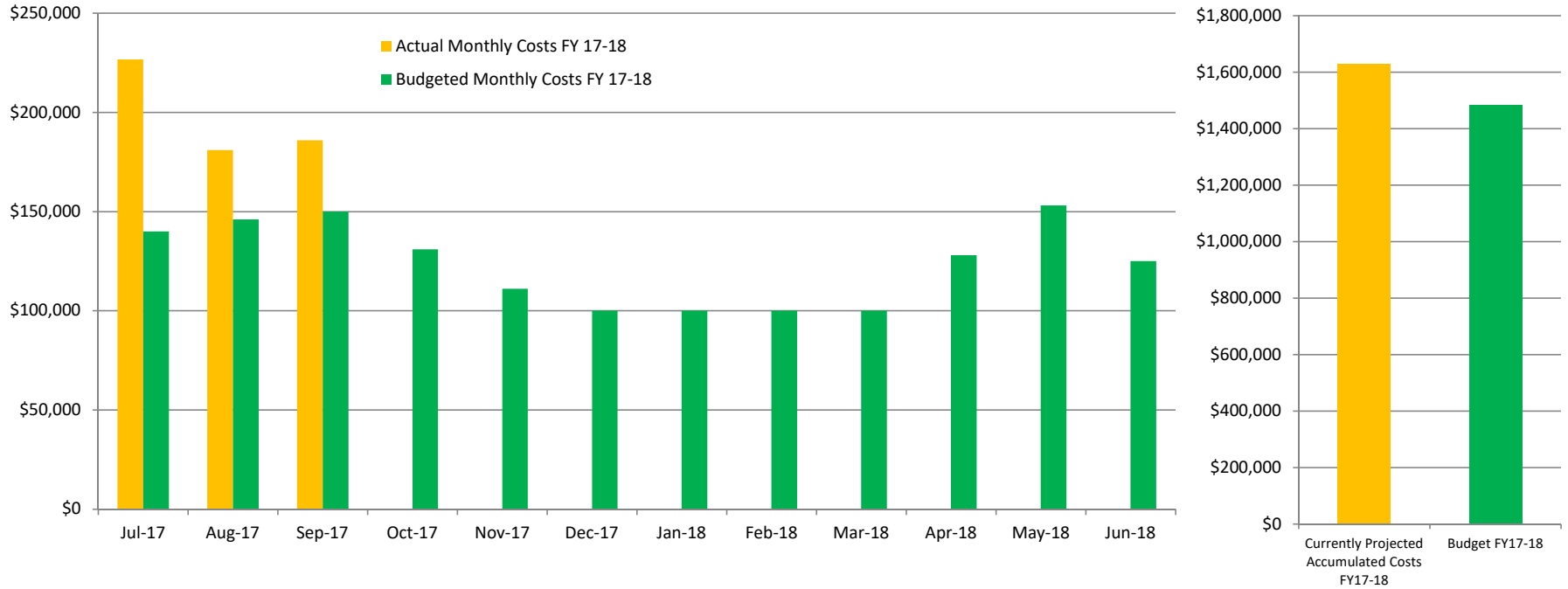
12-Month Running Total Discharge to Ocean Outfalls (AF)

Sep-17	1,573
Aug-17	1,414
Jul-17	1,425
Jun-17	1,611
May-17	1,578
Apr-17	1,854
Mar-17	2,659
Feb-17	3,057
Jan-17	3,184
Dec-16	2,549
Nov-16	1,886
Oct-16	1,564
Total	24,354



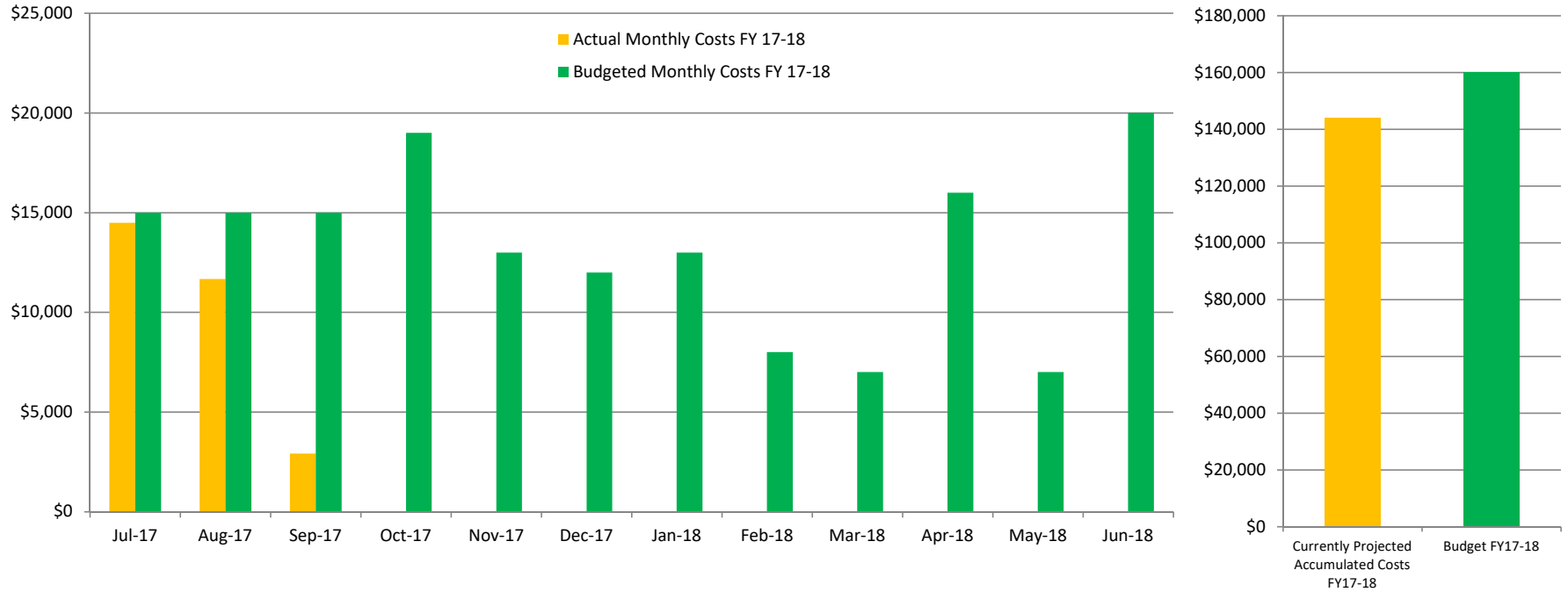
Quarterly Report on Key Operational Expenses

Electricity (5010) Costs



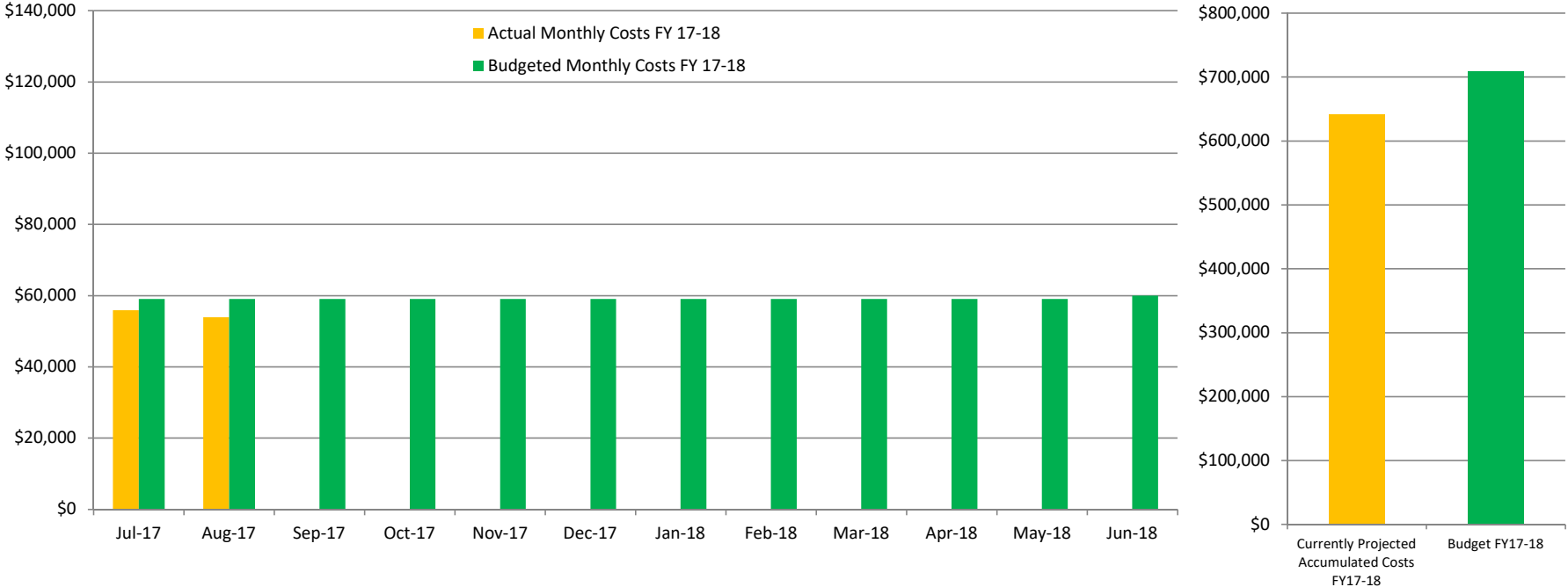
	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Currently Projected Accumulated Costs FY17-18	\$1,627,599
Actual Monthly Costs FY 17-18	\$226,662	\$180,959	\$185,978										Budget FY17-18	\$1,484,000
Budgeted Monthly Costs FY 17-18	\$140,000	\$146,000	\$150,000	\$131,000	\$111,000	\$100,000	\$100,000	\$100,000	\$100,000	\$128,000	\$153,000	\$125,000	Currently Projected Under(+)/Over (-) Budget	-\$143,599

Odor Control (5018) Costs



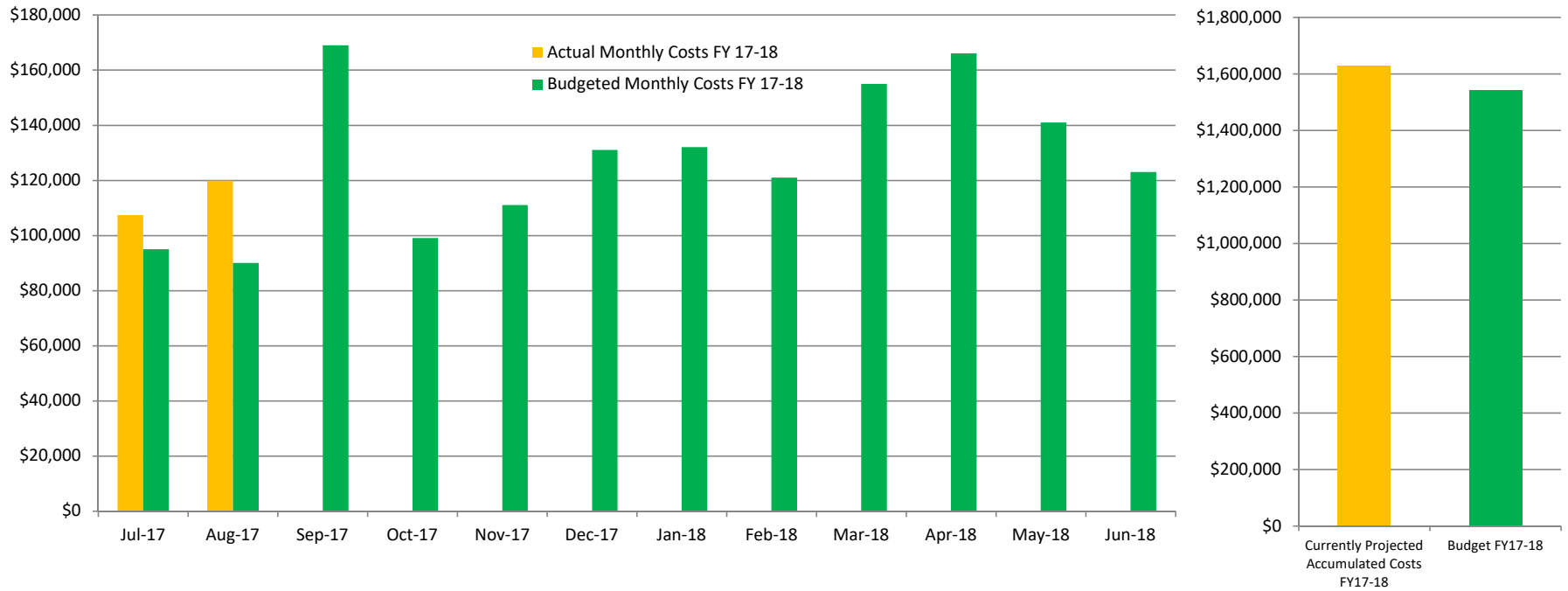
	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Currently Projected Accumulated Costs FY17-18	Budget FY17-18
Actual Monthly Costs FY 17-18	\$14,494	\$11,669	\$2,918										\$144,082	\$160,000
Budgeted Monthly Costs FY 17-18	\$15,000	\$15,000	\$15,000	\$19,000	\$13,000	\$12,000	\$13,000	\$8,000	\$7,000	\$16,000	\$7,000	\$20,000	Currently Projected Under(+)/Over (-) Budget	\$15,918

Polymer (5016) Costs



	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Currently Projected Accumulated Costs FY17-18	Budget FY17-18
Actual Monthly Costs FY 17-18	\$55,911	\$53,886	\$0										\$641,797	\$709,000
Budgeted Monthly Costs FY 17-18	\$59,000	\$59,000	\$59,000	\$59,000	\$59,000	\$59,000	\$59,000	\$59,000	\$59,000	\$59,000	\$59,000	\$60,000	Currently Projected Under(+)/Over (-) Budget	\$67,203

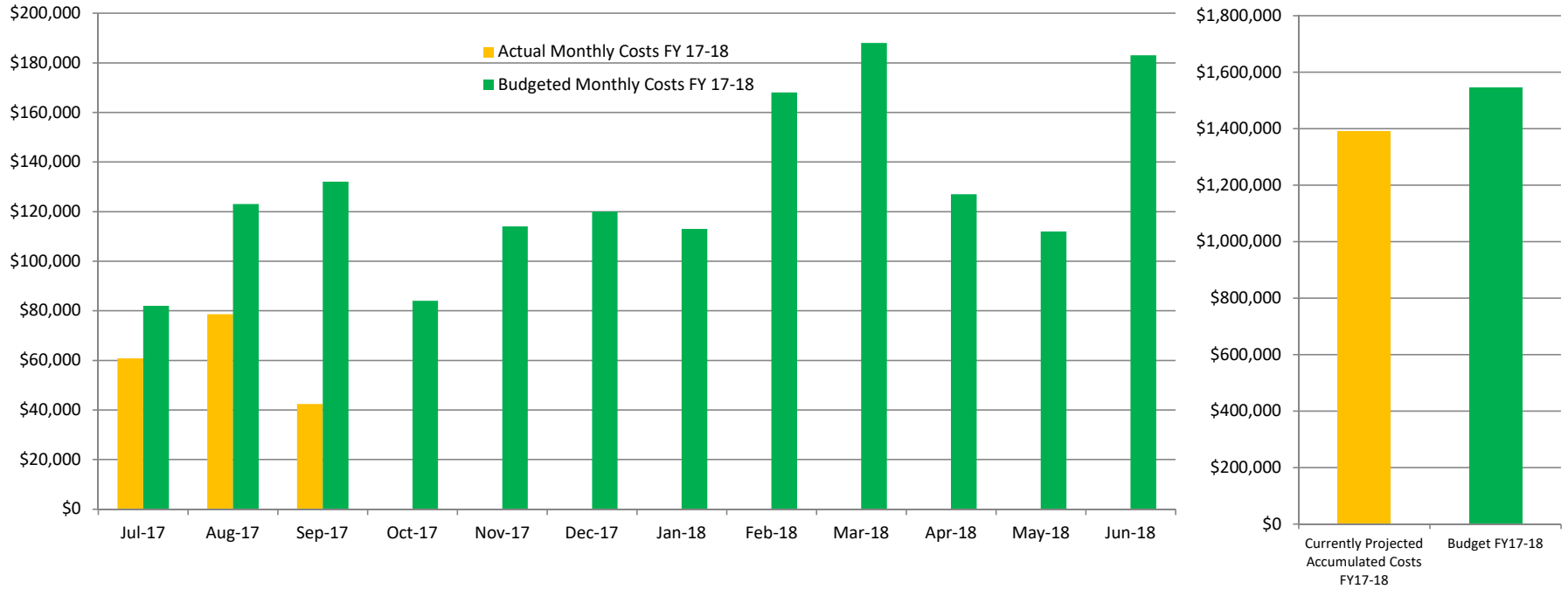
Biosolids (5078/21-B) Costs



	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Currently Projected Accumulated Costs FY17-18	Budget FY17-18
Actual Monthly Costs FY 17-18	\$107,410	\$119,836											\$1,626,856	\$1,541,000
Budgeted Monthly Costs FY 17-18	\$95,000	\$90,000	\$169,000	\$99,000	\$111,000	\$131,000	\$132,000	\$121,000	\$155,000	\$166,000	\$141,000	\$123,000	Currently Projected Under(+)/Over (-) Budget	-\$85,856

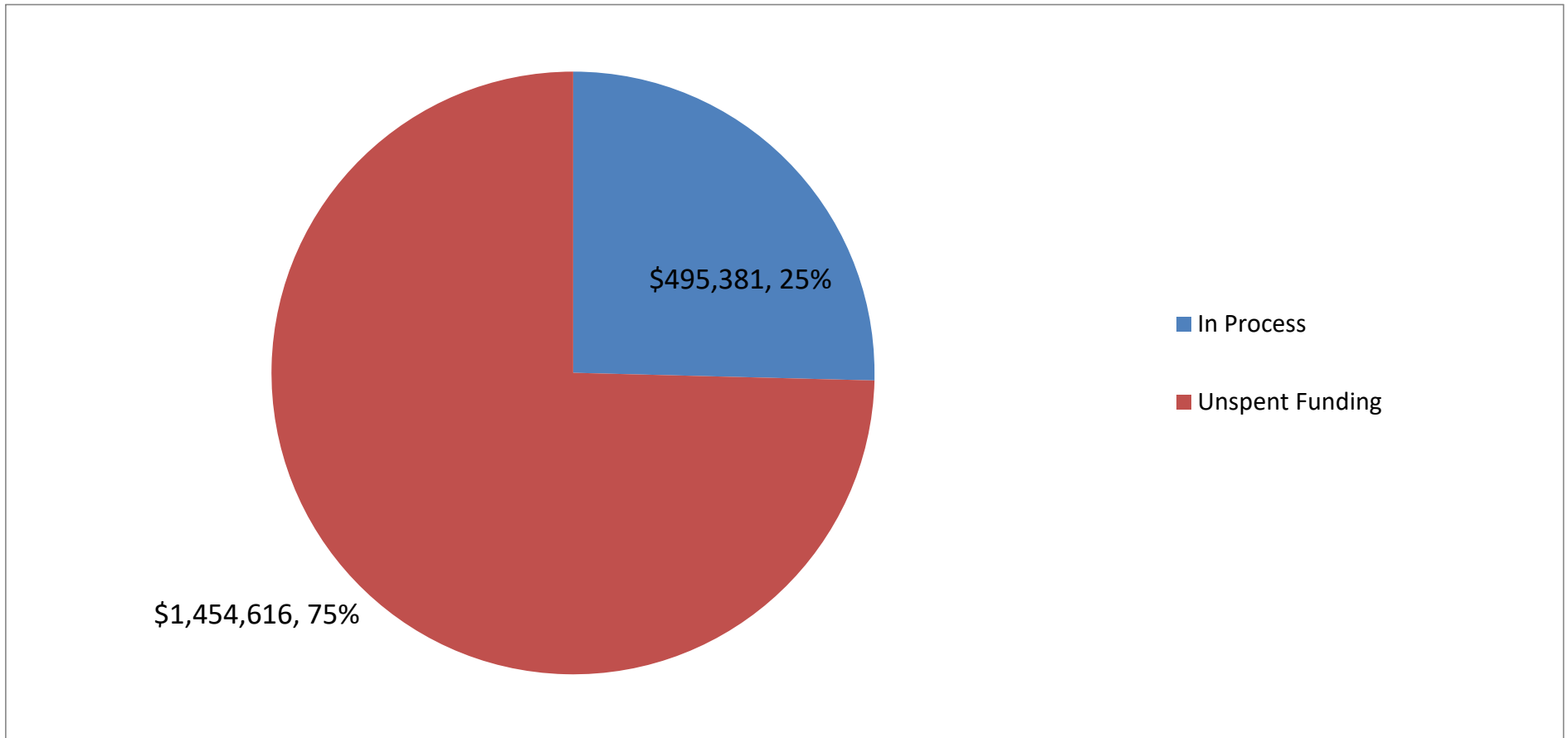
(1) September not posted.

Maintenance Repair (5086 to 5089) Costs



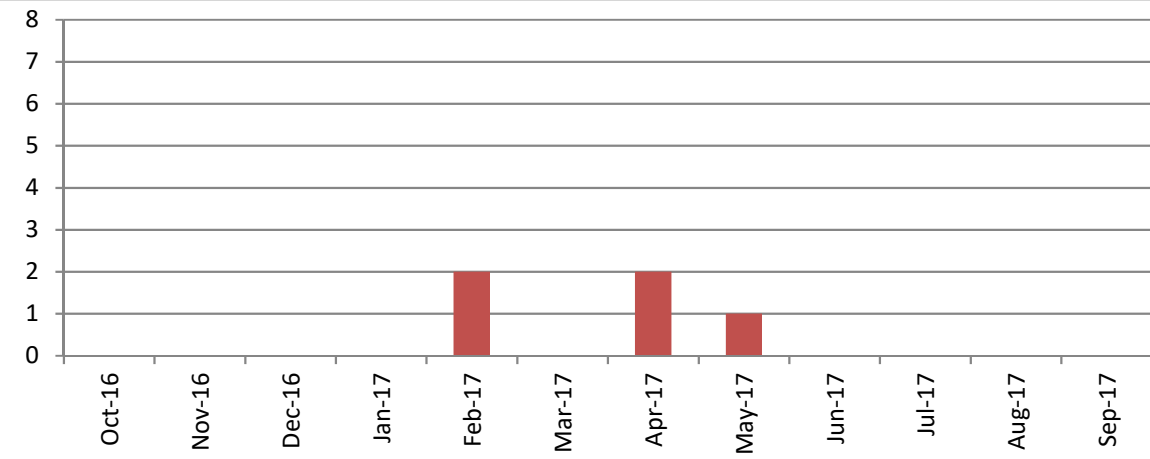
	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Currently Projected Accumulated Costs FY17-18	Budget FY17-18
Actual Monthly Costs FY 17-18	\$60,740	\$78,613	\$42,409										\$1,390,763	\$1,546,000
Budgeted Monthly Costs FY 17-18	\$82,000	\$123,000	\$132,000	\$84,000	\$114,000	\$120,000	\$113,000	\$168,000	\$188,000	\$127,000	\$112,000	\$183,000	Currently Projected Under(+)/Over (-) Budget	\$155,237

Small Internal Capital Costs



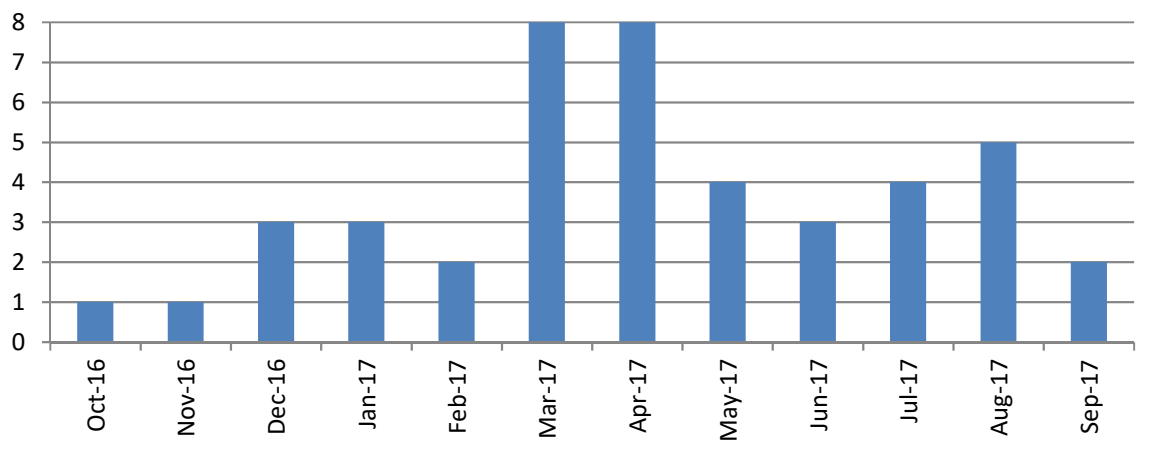
SAFETY UPDATE - OCTOBER 11, 2017

OSHA RECORDABLE INJURIES



	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17
OSHA RECORDABLE INJURIES	0	0	0	0	2	0	2	1	0	0	0	0

NEAR MISS REPORTS



	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17
NEAR MISS REPORTS	1	1	3	3	2	8	8	4	3	4	5	2

SAFETY TRAINING

TRAINING TOPIC	ATTENDANCE
September 2017 - Active Shooter and Workplace Violence Training	90%
July/August 2017 - Spill Response Training (hands on training with use of ICS System)	100%
June 2016 and 2017 - Annual Confined Space Entry Rescue Refresher Training	100%
May 2017 - Annual Fire Extinguisher Training and Safety Culture Training	100%
April 2017 - Annual 8-Hour HAZWOPER Refresher	100%
March 2017 - Authorized User Fall Protection Training and Bi-Annual CPR/First Aid/AED Training	100%
January 2017 - Confined Space Rescue Practice/Training and Lockout/Tagout Training	100%
December 2016 - Annual Defensive Driving and DUIs/Distracted Driver Training (with CHP)	100%
November 2016 - Annual Hearing Testing	100%
October 2016 - Confined Space Awareness/Entry Rescue Training and Forklift Training (for newer employees)	100%
May 2016 - Fire Extinguisher Training, Entry Level NIMS/ICS Training, and Heat Illness Training	100%
February 2016 - Biomechanics and Ergonomics (with CSRMA) and Bloodborne Pathogen Training	100%
Oct 2015 and Jan 2016 - Initial Confined Space Entry Rescue (Two 3-day training sessions)	100%
November 2015 - Laboratory Safety (for Laboratory Employees)	100%
September 2015 - Pre-Storm Workshop/Training, Arc Flash Training, and Forklift Training (Biennial)	100%
August 2015 - Fire Prevention for Water Utility Field Staff and Disaster Cost Recovery Training	100%
July 2015 - Initiate additional NIMS/ICS Training and Water and Power Resiliency Workshop	Ongoing
June 2015 - Initial Confined Space Awareness and Non-Entry Rescue Training	100%
March 2015 - Initiate Target Solutions Online Safety Training	Ongoing training includes topics not covered during classroom-based safety training

Agenda Item

Meeting Date: December 7, 2017

TO: Board of Directors
FROM: Betty Burnett, General Manager
STAFF CONTACT: Jim Burror, Director of Operations
SUBJECT: October 2017 Operations Report

Summary/Discussion

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

1) Monthly Operational Report

An eight (8) page overview and comparison of owner use of facilities, including influent and recycled water production. The pages include ongoing 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) Beach Ocean Monitoring Report

4) Recycled Water Report

5) Pretreatment Report

Fiscal impact

No change

Recommendation

Receive and file the operational reports.

Monthly Operational Report

SOCWA Operational Report October, 2017

Excursion, Complaint, and Violation Events

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

Plant Wastewater Billing Characteristics

Key Parameters	CTP	RTP	JBL TP1	JBL TP2	Totals
Influent (mgd)	2.70	7.74	7.14	2.58	20.15
Effluent (mgd)	3.01	1.35	7.14	0.80	12.30
Peak Flow (mgd)	2.81	15.18	13.23	6.05	37.27
Influent BOD (mg/l)	284	231	250	409	
Influent TSS (mg/l)	367	288	374	438	
Effluent BOD (mg/l)	5.3	3.6	6.2	12.3	
Effluent TSS (mg/l)	5.6	4.0	5.8	11.8	
Effluent Turbidity (NTU)	2.6	2.5	3.1	7.9	

Recycled Water (AWT) Operations

Key Parameters	CTP	RTP	JBL	Totals
Average Flow (mgd)	0.66	6.39		7.04
Days of Operation (days)	26	31		
Total Flow (million gallons)	20.3	198.0		218.4
Plant Irrigation (million gallons)	0.10	0.10	0.35	
AWT Time Online (%)	100.0	100.0		

Wastewater Unit Definitions

mgd = million gallons per day

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

NTU = Nephelometric Turbidity Units

SOCWA Operational Report October, 2017 (cont'd)

Biosolids Management

Biosolids Management Site	CTP	RTP	JBL	Totals
Synagro Compost (tons)		NA	NA	0.0
Nursery Products (tons)		253.5	NA	253.5
Prima Deshecha (tons)		67.7	36.6	104.3
Other: (tons)		0.0	0.0	0.0
Total Processed (tons)		321.2	36.6	357.8

Summary of Maintenance Activities

Task Type	CTP	RTP	JBL	Totals
Preventative Maintenance	340	555	577	917
Corrective Maintenance	53	106	135	188

Site Visitors

Visitor Types	CTP	RTP	JBL	Totals
Regulatory	0	2	0	2
Member Agency	0	4	0	4
Residents	0	0	0	0
Others	9	0	47	56
Tours #/Visitors	0	0	130	130

Grit Disposal Management

Grit & Screenings	CTP	RTP	JBL	Totals
Simi Valley Landfill (tons)	15.9	20.4	32.9	69.2

Chemical and Energy Utilization

Chemical/Utility	CTP	RTP	JBL	Totals
Ferric Chloride (tons)	0.1	NA	18.4	18.5
Power (kWh)	193,694	562,262	423,580	1,179,536
Natural Gas (Dth)	25	NA	3,414	3,439
Digester Gas to Engine (scfm)		0	939,011	939,011
Digester Gas to Flares (scfm)		9,227,068	2,978,750	12,205,818
Digester Gas Power Savings		(1)		

(1) Engines were off at RTP and being started up at JBL under ongoing construction projects.
 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 October, 2017 (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	1.567	56.69%				1.57
EBSB	0.047	1.70%				0.05
SCWD	1.151	41.61%		3.286	46.05%	4.44
MNWD	0.000	0.00%	7.74	1.400	19.62%	9.14
CSJC				2.193	30.73%	2.19
SMWD				0.257	3.60%	0.26
Total	2.765	100.00%	7.74	7.136	100.00%	17.64

Total Agency Outfall Flows by Outfall System-Billing Flows

Agency	SJCOO (mgd)	SJCOO (%)	SJCOO Meter (mgd)	ACOO (mgd)	ACOO (%)	Total (mgd)	Notes
CLB				1.57	19.66%	1.57	
EBSB				0.05	0.59%	0.05	
SCWD	3.37	33.15%		1.33	16.69%	4.70	Includes Desalters
MNWD	1.40	13.79%		1.35	16.98%	2.75	
ETWD				2.27	28.49%	2.27	Direct Outfall Only
CSJC	2.65	26.11%				2.65	Includes Desalter
SMWD	1.08	10.66%				1.08	Includes Chiquita
CSC	1.65	16.28%				1.65	Direct Outfall Only
IRWD				1.40	17.60%	1.40	Direct Outfall Only
Total	10.15	100.00%	9.86	7.97	100.00%	18.12	

SOCWA Operational Report October, 2017 (cont'd)

FY Flow/Solids Summary-Billing

Project Committee No. 2 Liquids (JBL)

Agency	Own (mgd)	Own (%)	Budget (mgd)	Budget (%)	Month (mgd)(1)	Month (%)	FY Avg to Date (mgd)	FY Avg to Date (%)
CSJC	4.00	30.77%	3.19	38.02%	2.193	30.73%	2.20	33.69%
MNWD	3.00	23.08%	1.40	16.69%	1.400	19.62%	1.40	21.46%
SCWD	3.75	28.85%	2.00	23.84%	3.286	46.05%	2.11	32.30%
SMWD	2.25	17.31%	1.80	21.45%	0.257	3.60%	0.82	12.54%
Total	13.00	100.00%	8.39	100.00%	7.136	100.00%	6.52	100.00%

Project Committee No. 2 Solids (JBL)

Agency	Own (lbs/d)	Own (%)	Budget (lbs/d)	Budget (%)	Month (lbs/d)	Month (%)	36 Month Rol. Avg. (lbs/d)	36 Month Rol. Avg. (%)
CSJC	11,572	30.00%	8,620	33.30%	5,057	23.48%	6,248	26.04%
MNWD	8,340	21.62%	5,270	20.36%	5,149	23.91%	6,037	25.16%
SCWD	7,715	20.00%	5,304	20.49%	10,387	48.23%	5,185	21.61%
SMWD	10,946	28.38%	6,695	25.86%	945	4.39%	6,527	27.20%
Total	38,573	100.00%	25,889	100.00%	21,538	100.00%	23,997	100.00%

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

Agency	Own (%)	Variable Budget (mgd)	Variable Budget (%)	Month Outfall Flow (mgd)	Month Outfall Flow (%)	Month EPS Outfall Flow (mgd)	Month EPS Outfall Flow (%)
CSC	16.62%	3.00	17.13%	1.65	16.28%		
CSJC	11.08%	3.83	21.87%	2.65	26.11%	2.19	30.73%
MNWD	15.51%	2.42	13.82%	1.40	13.79%	1.40	19.62%
SCWD	12.47%	2.67	15.25%	3.37	33.15%	3.29	46.05%
SMWD	44.32%	5.59	31.92%	1.08	10.66%	0.26	3.60%
Total	100.00%	17.51	100.00%	10.15	100.00%	7.14	100.00%

(1) Influent billing meter summary:

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

SOCWA Operational Report October, 2017 (cont'd)

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

Project Committee No. 5 - Outfall (SJCOO)

Agency	FY Avg Outfall Flow (mgd)	FY Avg Outfall Flow (%)	FY Avg EPS Outfall Flow (mgd)	FY Avg EPS Outfall Flow (%)
CSC	1.555	14.15%		
CSJC	2.615	23.81%	2.20	33.69%
MNWD	1.420	12.93%	1.40	21.46%
SCWD	2.215	20.17%	2.11	32.30%
SMWD	3.179	28.94%	0.82	12.54%
Total	10.984	100.00%	6.52	100.00%

Project Committee No. 15 (CTP)

Agency	Own (mgd)	Own (%)	Budget (mgd)	Budget (%)	Month (mgd)	Month (%)	FY Avg to Date (mgd)	FY Avg to Date (%)
CLB	2.54	37.91%	1.960	60.61%	1.567	56.69%	1.693	56.03%
EBS	0.20	2.99%	0.061	1.89%	0.047	1.70%	0.052	1.74%
SCWD	2.00	29.85%	1.213	37.51%	1.151	41.61%	1.276	42.24%
MNWD	1.96	29.25%	0.000	0.00%	0.000	0.00%	0.000	0.00%
Total	6.70	100.00%	3.234	100.00%	2.765	100.00%	3.021	100.00%

Project Committee No. 17 Liquids (RTP)

Agency	Budget Liquids (mgd)	Budget Liquids (%)	Month Plant Influent (mgd)	Month Centrate (mgd)	Month Total (mgd)(1)	Month Total (%)	FY Avg to Date (mgd)	FY Avg to Date (%)
CLB	0.01408	0.167%	0.0000	0.0117	0.0117	0.15%	0.0135	0.17%
EBS	0.00044	0.005%	0.0000	0.0004	0.0004	0.00%	0.0004	0.01%
SCWD	0.00871	0.103%	0.0000	0.0086	0.0086	0.11%	0.0102	0.13%
ETWD	0.01719	0.204%	0.0000	0.0116	0.0116	0.15%	0.0129	0.17%
MNWD	8.40541	99.521%	7.7413	0.0457	7.7870	99.59%	7.7359	99.52%
Total	8.44583	100.000%	7.7413	0.0781	7.8194	100.00%	7.7730	100.00%

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

SOCWA Operational Report October, 2017 (cont'd)

FY Flow/Solids Summary (cont'd)

Project Committee No. 17 Solids (RTP)

Agency	Own (lbs/d)	Own (%)	Budget (lbs/d)	Budget (%)	Total Month (lbs)	Total Month (%)	FY Avg Total to Date (lbs)	FY Avg Total to Date (%)
CLB	5,605	11.22%	4,728	12.95%	164,042	15.04%	178,667	15.70%
EBS	295	0.59%	147	0.40%	4,919	0.45%	5,561	0.49%
SCWD	4,480	8.96%	2,926	8.02%	120,420	11.04%	134,796	11.84%
ETWD	10,200	20.41%	5,903	16.17%	162,432	14.90%	168,970	14.84%
MNWD	29,395	58.82%	22,801	62.46%	638,590	58.56%	650,238	57.13%
Total	49,975	100.00%	36,505	100.00%	1,090,403	100.00%	1,138,233	100.00%

Project Committee No. 24 (ACOO)

Agency	Own (%)	Budget (mgd)	Budget (%)	Month Outfall Flow (mgd)	Month Outfall Flow (%)	FY Avg Outfall Flow (mgd)	FY Avg Outfall Flow (%)
CLB	11.000%	1.49	13.32%	1.567	19.66%	1.693	24.80%
EBS	0.780%	0.06	0.54%	0.047	0.59%	0.052	0.77%
ETWD	16.302%	2.89	25.83%	2.271	28.49%	1.837	26.91%
IRWD	15.760%	2.62	23.41%	1.403	17.60%	1.296	18.99%
MNWD	43.848%	2.96	26.45%	1.353	16.98%	1.062	15.56%
SCWD	12.310%	1.17	10.46%	1.330	16.69%	0.886	12.98%
Total	100.000%	11.19	100.00%	7.971	0.00%	6.825	100.00%

SOCWA Operational Report October, 2017 (cont'd)

Select Critical Equipment Repairs

JBL - PC2

Repaired a section of potable water line feeding plant air gap tank.
Centrifuge #2 pillow bearings and trust bearing.
Replaced Bar Rake #3 motor, gear box adapter, and drive roller/follower roller.
Replaced Primary sludge pump #3 and cleaned check valve.
Setup new Engineering office trailer utilities.
Rebuilt Plant #2 Wetwell control bubbler piping.
Replaced broken decant line.
Cleaned and unfroze idler gears in Secondary #11.
Continued replacement of failing tank wear strips.
Replaced flights in secondary tanks #5 and #9.
Prepared site for new manual barscreen at Plant #2.
Replaced barscreen rack motor and drive at Plant No. 2.
Replaced and rebuilt TWAS pump #2 motor and gear box.
Removed scum beach in Primary #9 for fabrication and replacement project.
Replaced failed process water line located by plant sump pump.

CTP - PC15

Acid washed scrubber and entered to removed blocks of sulfur clogging recirculation pumps.
Replaced leaking caustic valves on scrubber.
Replaced and calibrated faulty Chlorine Sensor.
Replaced failed process water control panel cooling unit.
Replaced overheated proses water pump VFD's.
Replaced chain and flights in Secondary Tank #9.
Replaced broken valve on process water line.
Replaced bad motor on Building #1 odor control fan.
Replaced Drainage Pumping Station Sump Pump
Removed broken AWT mixer and shipped to fabricator.
Repaired CTP effluent autosampler.
Replaced failed valve for high pressure air system.
Troubleshooted scum skimmer shear pin failure on primary tank.
Replaced failed DO probe on West 1B tank.
Troubleshooted SC200 Controller on West 2B tank.

RTP - PC17

Troubleshoot Centrifuge 3, diagnose bad cyclo unit.
Fabricate and install Primary Skimmer 1.
Replace Scrubber 1, Stage 2/3 Circulation Pump.
Repair broken flange and repiped suction side on 2-Water Booster Pump.

SOCWA Operational Report October, 2017 (cont'd)

RTP - PC17 (cont'd)

Fabricate new Mixed Liquor Channel Gate.
Repair Broken 3-Water (High Pressure) line on Scrubber 1.
Cleaned, inspected and repaired Grit Tank 1 piping.
Replaced corroded odor box for Aeration Tank 1.
Repaired access gate on Aeration Tank 3.
Jetted out plugged digester pipeline.
Removed failed primary gallery sump pumps for inspection and replacement.
De-ragged Primary Scum Pump 3.
Replace motor on Digester Building AHU.
Repaired leaking odor scrubber bleach tank.
Remove and replace broken sprayer nozzle on scrubber 1 Stage 2/3.
Rebuilt wet end of Scrubber 1 Stage 2/3 Bleach Pump.
Pumped out Truck Bay and Jetted plugged drain lines.
Removed and replaced RAS gate 3.
Installed rebuilt RAS Pumps 3 and 13.
Replaced pneumatic actuated wash water valve on Centrifuge 3.
Installed new pulleys and belts on Service Air Compressor 1.
Replaced broken nipple on suction side of Grit pump 6.

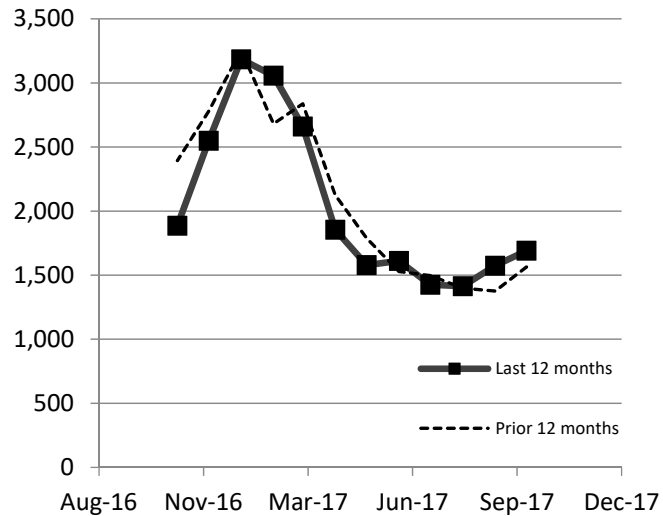
SOCWA Ocean Outfall Discharges by Agency

SOCWA Outfall Discharge Report October, 2017

Agency	SJCOO (mgd)	SJCOO (%)	ACOO (mgd)	ACOO (%)	Total (mgd)
CLB			1.57	19.66%	1.57
EBSD			0.05	0.59%	0.05
SCWD	3.37	33.15%	1.33	16.69%	4.70
MNWD	1.40	13.79%	1.35	16.98%	2.75
ETWD			2.27	28.49%	2.27
CSJC	2.65	26.11%			2.65
SMWD	1.08	10.66%			1.08
CSC	1.65	16.28%			1.65
IRWD			1.40	17.60%	1.40
Total	10.15	100.00%	7.97	100.00%	18.12
or Acre-Feet per year equivalent					20,299

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

Oct-17	1,692
Sep-17	1,573
Aug-17	1,414
Jul-17	1,425
Jun-17	1,611
May-17	1,578
Apr-17	1,854
Mar-17	2,659
Feb-17	3,057
Jan-17	3,184
Dec-16	2,549
Nov-16	1,886
Total	24,482



Beach / Ocean Monitoring Report

ACOO September & October

ALISO CREEK OCEAN OUTFALL MONITORING REPORT

September 2017

DATE	IRWD LOS ALISOS WRP				EL TORO WRP				SOCWA REGIONAL PLANT				SOCWA COASTAL PLANT				IRWD IDP	IRWD SGU	SCWD ACWRF	ACOO FLOW	Rain Fall
	FLOW MGD	TSS mg/L	cBOD mg/L	SS ml/L	FLOW MGD	TSS mg/L	cBOD mg/L	SS ml/L	FLOW MGD	TSS mg/L	cBOD mg/L	SS ml/L	FLOW MGD	TSS mg/L	cBOD mg/L	SS ml/L	FLOW MGD	FLOW MGD	FLOW MGD	FLOW MGD	inches
09/01/17	No Flow				1.299	11.4	2.5	0.5	1.140	6.9	8.0	0.1	2.654	4.8	5.0	0.1	0.729	0.563	0.107	6.492	0.00
09/02/17	No Flow				1.211	9.8	1.9	0.9	0.490				1.970				0.853	0.599	0.103	5.226	0.00
09/03/17	No Flow				0.874	15.2	1.7	<0.1	0.530	5.5	7.0	<0.1	2.278	2.1	7.0		0.574	0.473	0.097	4.826	0.00
09/04/17	No Flow				1.674	7.8	3.5	<0.1	1.800	5.9	7.0	<0.1	3.016	9.1	7.0	<0.1	0.419	0.426	0.104	7.439	0.00
09/05/17	No Flow				2.362	10.6	3.6	<0.1	1.290	8.5	6.0	<0.1	2.496	12.4	9.0	0.1	0.418	0.425	0.094	7.085	0.00
09/06/17	No Flow				2.864	10.6	2.7	<0.1	0.680	5.7	5.0	0.2	1.733	10.2	6.0	0.1	0.691	0.425	0.092	6.485	0.00
09/07/17	No Flow				2.261	9.4	2.9	<0.1	0.790	4.1	5.0	0.1	1.807	8.5	7.0	0.1	0.851	0.424	0.111	6.244	0.00
09/08/17	No Flow				1.845	10.0	4.2	0.1	0.740	5.4	4.0	0.1	2.531	5.5	6.0	0.1	0.849	0.578	0.083	6.626	0.00
09/09/17	No Flow				2.481	11.4	6.0	<0.1	0.120				2.434				0.849	0.612	0.109	6.605	0.00
09/10/17	No Flow				2.616	8.8	6.6	<0.1	1.490	3.9	6.0	<0.1	2.248	3.0	7.0		0.849	0.609	0.085	7.897	0.00
09/11/17	No Flow				2.539	19.6	8.5	<0.1	2.720	6.9	6.0	0.1	2.574	4.8	6.0	0.1	0.850	0.608	0.098	9.389	0.00
09/12/17	No Flow				1.125	29.2	11.4	<0.1	0.730	4.1	5.0	0.1	2.296	4.2	4.0	0.1	0.849	0.607	0.101	5.708	0.00
09/13/17	No Flow				1.959	23.4	7.8	<0.1	0.220	5.2	3.0	0.1	2.161	3.4	4.0	0.1	0.711	0.601	0.108	5.760	0.00
09/14/17	No Flow				1.986	37.0	13.4	<0.1	0.290	3.7	<2.0	0.4	1.667	1.8	4.0	0.1	0.849	0.574	0.101	5.467	0.00
09/15/17	No Flow				1.578	14.2	4.8	1.0	0.450	2.6	3.0	<0.1	2.127	7.0	9.0	<0.1	0.849	0.595	0.105	5.704	0.00
09/16/17	No Flow				1.894	15.6	6.4	0.3	0.100				2.312				0.848	0.588	0.104	5.846	0.00
09/17/17	No Flow				2.928	25.0	8.7	0.2	2.050	6.1	5.0	0.1	2.370	6.8	7.0		0.848	0.575	0.096	8.867	0.00
09/18/17	No Flow				2.155	15.4	6.8	1.0	3.670	8.2	7.0	<0.1	2.243	13.3		<0.1	0.849	0.573	0.099	9.589	0.00
09/19/17	No Flow				2.279	19.6	7.3	0.1	1.300	6.8	4.0	0.1	2.350	5.1	6.0	<0.1	0.848	0.608	0.121	7.506	0.00
09/20/17	No Flow				1.787	31.6	10.6	0.7	0.590	5.6	3.0	0.1	2.175	2.9	6.0	<0.1	0.847	0.607	0.030	6.036	0.00
09/21/17	No Flow				2.023	13.8	6.0	0.9	1.010	4.0	3.0	0.1	1.843	3.5	6.0	<0.1	0.848	0.603	0.114	6.441	0.01
09/22/17	No Flow				1.865	13.2	9.6	0.5	2.240	3.6	3.0	0.1	2.613	4.3	6.0	0.1	0.848	0.601	0.061	8.228	0.00
09/23/17	No Flow				2.642	22.0	8.3	0.4	3.270				2.616				0.848	0.597	0.102	10.075	0.00
09/24/17	No Flow				2.649	13.2	5.5	1.0	3.970	6.9	5.0	<0.1	2.627	4.7	7.0		0.848	0.529	0.085	10.708	0.00
09/25/17	No Flow				1.681	10.8	5.6	0.2	2.860	4.4	3.0	<0.1	3.608	4.8	12.0	0.1	0.848	0.602	0.008	9.607	0.00
09/26/17	No Flow				1.412	30.4	12.1	<0.1	1.230	3.7	3.0	<0.1	2.540	2.8	4.0	<0.1	0.821	0.600	0.092	6.695	0.00
09/27/17	No Flow				1.530	13.0	6.1	2.5	0.660	4.6	3.0	0.1	2.446	4.2	7.0	0.1	0.418	0.599	0.102	5.755	0.00
09/28/17	No Flow				2.051	12.0	4.7	0.4	0.110	3.5	4.0	0.1	2.642	4.3	6.0	<0.1	0.741	0.597	0.107	6.248	0.00
09/29/17	No Flow				1.588	22.0	6.1	0.2	0.250	2.5	2.0	0.1	2.773	5.9	7.0	0.1	0.848	0.595	0.092	6.146	0.00
09/30/17	No Flow				1.628	15.8	9.5	0.2	0.570				2.775				0.849	0.206	0.103	6.131	0.00
AVG	No Flow				1.960	16.7	6.5	<0.4	1.245	5.1	4.5	<0.1	2.398	5.6	6.5	<0.1	0.778	0.553	0.094	7.028	
TOTAL	No Flow				58.79				37.36				71.93				23.35	16.60	2.814	210.83	0.01

Unified Beach Monitoring

#1

South Orange County Wastewater Authority-Aliso Creek Ocean Outfall

REPORT FOR: September 2017
 REPORT DUE: November 1 2017
 SAMPLE SOURCE: Surf zone
 TYPE OF SAMPLE: Grab

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

Tidal Condition: High Tide 0946

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	09/06/17	740	9	<20	<3	None	None	None	None	Green	73	Clear		
S4	09/06/17	1010	9	<20	3	None	None	None	None	Green		Clear		
S5	09/06/17	945	<20	9	2	None	None	None	None	Green		Clear		
S6	09/06/17	935	9	<20	<3	None	None	None	None	Green		Clear		
WEST	09/06/17	930	9	<20	<3	None	None	None	None	Green		Clear		
S7	09/06/17	925	<20	<20	<3	None	None	None	None	Green		Clear		
S8	09/06/17	920	<20	<20	<3	None	None	None	None	Blue		Clear		
S9	09/06/17	905	9	<20	<3	None	None	None	None	Green		Clear		
ACM1	09/06/17	900	20	<20	2	None	None	None	None	Green		Clear		
S10	09/06/17	830	<20	<20	<3	None	None	None	None	Green		Clear		
S11	09/06/17	825	9	<20	2	None	None	None	None	Green		Clear		
S12	09/06/17	820	30	20	<4	None	None	None	None	Green		Clear		

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: September 2017
 REPORT DUE: November 1, 2017
 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 0906

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	09/13/17	925	<20	<20	<3	None	None	None	None	Green	71	Clear		
S4	09/13/17	1135	20	9	<3	None	None	None	None	Green		Clear		
S5	09/13/17	1115	<20	<20	2	None	None	None	None	Green		Clear		
S6	09/13/17	1050	<20	<20	<3	None	None	None	None	Green		Clear		
WEST	09/13/17	1045	9	<20	<3	None	None	None	None	Green		Clear		
S7	09/13/17	1040	<20	<20	<3	None	None	None	None	Green		Clear		
S8	09/13/17	1035	<20	<20	<3	None	None	None	None	Blue		Clear		
S9	09/13/17	1020	<20	<20	<3	None	None	None	None	Green		Clear		
ACM1	09/13/17	1015	<20	<20	<3	None	None	None	None	Green		Clear		
S10	09/13/17	955	<20	<20	<3	None	None	None	None	Green		Clear		
S11	09/13/17	950	9	<20	<3	None	None	None	None	Green		Clear		
S12	09/13/17	940	<10	<10	<4	None	None	None	None	Green		Clear		

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

South Orange County Wastewater Authority-Aliso Creek Ocean Outfall

REPORT FOR: September 2017
 REPORT DUE: November 1, 2017
 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 0947

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	09/20/17	0935	<20	<20	<3	None	None	None	None	Green	69	Clear		
S4	09/20/17	0920	<20	<20	5	None	None	None	None	Green		Clear		
S5	09/20/17	0910	<20	40	<3	None	None	None	None	Green		Clear		
S6	09/20/17	0855	10	<20	<3	None	None	None	None	Green		Clear		
WEST	09/20/17	0850	10	10	2	None	None	None	None	Green		Slightly Turbid		
S7	09/20/17	0845	<20	<20	<3	None	None	None	None	Green		Slightly Turbid		
S8	09/20/17	0840	<20	<20	7	None	None	None	None	Green		Slightly Turbid		
S9	09/20/17	0825	<20	<20	5	None	None	None	None	Green	67	Slightly Turbid		30
ACM1	09/20/17	0830	5	5	4	None	None	None	None	Green		Slightly Turbid		
S10	09/20/17	0820	<20	10	7	None	None	None	None	Green		Slightly Turbid		
S11	09/20/17	0815	<20	30	<3	None	None	None	None	Green		Slightly Turbid		
S12	09/20/17	0810	20	30	<3	None	None	None	None	Green		Slightly Turbid		

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

South Orange County Wastewater Authority-Aliso Creek Ocean Outfall

REPORT FOR: September 2017
 REPORT DUE: November 1, 2017
 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 0759

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	09/27/17	813	<20	<20	<3	None	None	None	None	Green	67	Slightly Turbid		
S4	09/27/17	833	<20	9	<3	None	None	None	None	Green		Slightly Turbid		2
S5	09/27/17	1119	60	<20	<3	None	None	None	None	Green		Clear		
S6	09/27/17	901	9	<20	<3	None	None	None	None	Green		Slightly Turbid		
WEST	09/27/17	904	<20	<20	<3	None	None	None	None	Green	67	Slightly Turbid		
S7	09/27/17	905	<20	<20	<3	None	None	None	None	Green		Slightly Turbid		
S8	09/27/17	1040	<20	<20	<3	None	None	None	None	Green		Clear		
S9	09/27/17	1037	<20	<20	<3	None	None	None	None	Green	67	Slightly Turbid		
ACM1	09/27/17	1026	20	<10	<4	None	None	None	None	Green		Slightly Turbid		
S10	09/27/17	947	<20	<20	<3	None	None	None	None	Green	67	Slightly Turbid	Flowing	
S11	09/27/17	943	<20	<20	<3	None	None	None	None	Green		Slightly Turbid		1
S12	09/27/17	1008	9	<20	<3	None	None	None	None	Green		Clear		

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

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 ACOO
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: September 2017

REPORT DUE: November 1, 2017

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 0947

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	09/20/17	<2	<2	<2	810	0	0	
A-1	Mid depth	09/20/17	<10	<10	<10				
A-2	Surface	09/20/17	<2	<2	<2	758	0	0	
A-2	Mid depth	09/20/17	<10	<10	<10				
A-3	Surface	09/20/17	2	<2	<2	802	0	0	
A-3	Mid depth	09/20/17	<10	<10	<10				
A-4	Surface	09/20/17	2	<2	<2	819	0	0	
A-4	Mid depth	09/20/17	<10	<10	<10				
A-5	Surface	09/20/17	<2	<2	<2	807	0	0	
A-5	Mid depth	09/20/17	<10	<10	<10				
B-1	Surface	09/20/17	<2	<2	<2	747	0	0	
B-1	Mid depth	09/20/17	<10	<10	<10				
B-2	Surface	09/20/17	<2	<2	<2	822	0	0	
B-2	Mid depth	09/20/17	<10	<10	<10				
N1	Surface	09/20/17	<2	<2	<2	839	0	0	
N2	Surface	09/20/17	2	<2	<2	838	0	0	
N3	Surface	09/20/17	<2	<2	<2	837	0	0	
N4	Surface	09/20/17	<2	<2	<2	835	0	0	
N5	Surface	09/20/17	<2	<2	<2	833	0	0	
N6	Surface	09/20/17	2	<2	<2	832	0	0	
N7	Surface	09/20/17	<2	<2	<2	829	0	0	

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

**Compliance Summary Report
Aliso Creek Ocean Outfall 2017**

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 - 2017 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
SOCWA	Regional Treatment Plant	60	Tertiary Effluent	Broken 3WHP 1" reclaimed water line due to a broken elbow. Spill was contained and pumped back to the plant.	None	N/A	1/11/2017
SOCWA	Regional Treatment Plant	124,320	Secondary Effluent	One of two applied reclaimed water effluent pumps failed. These pumps push water from the reclaimed water effluent pond to the reclaimed water reservoirs. The single pump could not keep up with the demand thus leading to a spill from the pond. All flows were diverted to the outfall while the applied pump was repaired. Sandbags were placed around the overflow in an effort to contain secondary water in the pond.	Sulphur Creek Aliso Creek Pacific Ocean	1/23/2017	1/22/2017
SOCWA	Pacific Hydrotech	100	Untreated Sewage	Pacific Hydrotech and Herc Rental has a sewer bypass in operation at RTP. One of the bypass pumps did not start. One of their employees noticed the spill and started the pump. The spill was contained in the area and internal drains routed the flow to the influent Junction Structure.	None	7/11/2017	7/11/2017
SOCWA	Pacific Hydrotech	225	Untreated Sewage	Pacific Hydrotech and Herc Rental has a sewer bypass in operation at RTP. One of the bypass pumps got a rag ball stuck in the pump One of their employees noticed the spill and remove rags form suction of the pump. The spill was contained in the area and internal drains routed the flow to the influent Junction Structure.	None	7/14/2017	7/14/2017
SOCWA	Pacific Hydrotech	300	Untreated Sewage	Pacific Hydrotech and Herc Rental has a sewer bypass in operation at RTP. One of the bypass pumps got a rag ball stuck in the pump One of their employees noticed the spill and remove rags form suction of the pump. The spill was contained in the area and internal drains routed the flow to the influent Junction Structure.	None	07-17-17	07-17-17
SOCWA	Regional Treatment Plant	7,575	Untreated Sewage	The control power on Barscreen 1 blew a 30 amp fuse making the barscreen inoperable. Spill was contained treated in the plant.	None	7/18/2017	7/18/2017
SOCWA	Regional Treatment Plant	200	Untreated Sewage	The control power fuse blew, preventing operation of Bar Screen 1. A pacific hydrotech employee on site for the bypass found the spill and called the standby operator. The standby operator called the CPO.	None	7/18/2017	7/19/2017

ALISO CREEK OCEAN OUTFALL MONITORING REPORT

October 2017

DATE	IRWD LOS ALISOS WRP				EL TORO WRP				SOCWA REGIONAL PLANT				SOCWA COASTAL PLANT				IRWD IDP	IRWD SGU	SCWD ACWRF	ACOO FLOW	Rain Fall
	FLOW MGD	TSS mg/L	cBOD mg/L	SS ml/L	FLOW MGD	TSS mg/L	cBOD mg/L	SS ml/L	FLOW MGD	TSS mg/L	cBOD mg/L	SS ml/L	FLOW MGD	TSS mg/L	cBOD mg/L	SS ml/L	FLOW MGD	FLOW MGD	FLOW MGD	FLOW MGD	inches
10/01/17	No Flow				2.190	7.4	4.1	1.0	1.250	3.5	5.0	<0.1	2.808	5.0	7.0		0.849	0.000	0.097	7.194	0.00
10/02/17	No Flow				2.573	10.2	3.7	0.1	1.000	5.8	6.0	<0.1	2.753	4.9	7.0	<0.1	0.850	0.000	0.068	7.244	0.00
10/03/17	No Flow				2.289	10.6	4.5	0.1	0.480	6.3	4.0	0.1	3.261	3.1	4.0	0.1	0.848	0.555	0.077	7.510	0.00
10/04/17	No Flow				2.133	10.2	4.3	0.1	0.580	2.1	2.0	<0.1	3.589	4.1	5.0	<0.1	0.817	0.629	0.127	7.875	0.00
10/05/17	No Flow				1.706	10.6	4.3	<0.1	1.850	2.4	2.0	<0.1	2.403	5.0	5.0	<0.1	0.421	0.627	0.048	7.055	0.00
10/06/17	No Flow				1.276	8.8	4.1	0.1	2.800	3.2	2.0	0.1	2.736	7.0	8.0	0.1	0.739	0.626	0.111	8.288	0.00
10/07/17	No Flow				1.997	12.6	3.9	0.1	0.420				2.656				0.851	0.625	0.090	6.639	0.00
10/08/17	No Flow				3.150	11.4	4.5	<0.1	1.340	3.2	3.0	<0.1	2.762	8.1	8.0		0.850	0.607	0.004	8.713	0.00
10/09/17	No Flow				1.495	7.6	2.9	0.1	2.040	3.5	3.0	<0.1	2.968	6.4	7.0	<0.1	0.851	0.621	0.111	8.086	0.00
10/10/17	No Flow				1.777	12.8	5.4	0.1	1.070	4.6	4.0	<0.1	3.663	5.9	6.0	0.1	0.850	0.620	0.093	8.073	0.00
10/11/17	No Flow				2.174	10.8	3.4	0.1	1.020	3.1	3.0	0.2	2.634	3.6	4.0	<0.1	0.850	0.618	0.097	7.393	0.00
10/12/17	No Flow				1.808	6.0	3.5	<0.1	0.840	2.0	<2.0	<0.1	2.860	3.6	3.0	<0.1	0.830	0.617	0.107	7.062	0.00
10/13/17	No Flow				2.206	8.0	3.1	<0.1	1.000	3.1	2.0	0.1	2.701	13.0	5.0	<0.1	0.851	0.616	0.083	7.457	0.00
10/14/17	No Flow				2.608	13.4	4.6	<0.1	0.700				2.982				0.850	0.637	0.109	7.886	0.00
10/15/17	No Flow				2.268	10.8	4.3	<0.1	2.950	3.5	3.0	<0.1	3.129	9.3	8.0		0.849	0.635	0.091	9.922	0.00
10/16/17	No Flow				2.761	9.2	4.5	<0.1	3.020	4.9	11.0	0.2	3.063	4.6	6.0	<0.1	0.850	0.634	0.118	10.446	0.00
10/17/17	No Flow				1.015	16.2	5.1	<0.1	0.410	4.5	3.0	0.1	2.948	4.6	5.0	<0.1	0.850	0.633	0.003	5.859	0.00
10/18/17	No Flow				1.696	18.4	4.7	0.1	0.210	3.4	3.0	<0.1	2.959	4.3	4.0	<0.1	0.850	0.634	No Flow	6.349	0.00
10/19/17	No Flow				1.672	12.0	4.4	<0.1	0.770	5.1	3.0	<0.1	2.895	7.5	5.0	<0.1	0.850	0.632	0.008	6.827	0.00
10/20/17	No Flow				1.973	27.2	8.6	<0.1	0.890	2.6	3.0	0.2	3.025	4.8	4.0	0.1	0.832	0.620	0.082	7.422	0.00
10/21/17	No Flow				2.228	21.0	6.6	0.2	2.280				2.927				0.850	0.631	0.087	9.003	0.00
10/22/17	No Flow				2.260	13.8	8.7	0.1	3.860	8.4	6.0	<0.1	3.195	6.1	6.0		0.831	0.632	0.008	10.786	0.00
10/23/17	No Flow				2.323	14.8	5.1	0.5	2.170	4.1	4.0	0.1	3.050	5.2	6.0	0.1	0.850	0.631	0.080	9.104	0.00
10/24/17	No Flow				1.792	9.2	3.6	0.1	0.220	3.1	4.0	0.1	3.016	3.3	4.0	<0.1	0.849	0.630	0.084	6.591	0.00
10/25/17	No Flow				1.805	16.6	9.4	0.1	0.370	3.8	3.0	<0.1	2.522	3.4	3.0	<0.1	0.850	0.630	0.088	6.265	0.00
10/26/17	No Flow				3.420	23.0	13.4	0.2	0.030	3.2	2.0	<0.1	2.584	3.7	3.0	<0.1	0.849	0.629	No Flow	7.512	0.00
10/27/17	No Flow				3.232	17.0	11.6	0.2	0.110	2.7	2.0	<0.1	2.636	7.6	4.0	0.1	0.849	0.629	No Flow	7.456	0.00
10/28/17	No Flow				3.221	31.6	17.4	0.2	0.920				2.655				0.849	0.629	No Flow	8.274	0.00
10/29/17	No Flow				3.038	12.6	12.6	0.1	1.910	6.7	6.0	<0.1	2.864	7.4	7.0		0.826	0.629	0.008	9.275	0.00
10/30/17	No Flow				3.613	20.6	11.3	0.1	3.480	4.1	4.0	<0.1	3.588	6.8	6.0	<0.1	0.825	0.628	0.004	12.138	0.00
10/31/17	No Flow				2.699	19.6	9.3	0.1	1.960	4.3	3.0	0.1	3.449	3.3	4.0	<0.1	0.554	0.628	0.116	9.406	0.00
AVG	No Flow				2.271	14.0	6.4	<0.2	1.353	4.0	3.6	<0.1	2.945	5.6	5.3	<0.1	0.818	0.584	0.064	8.036	
TOTAL	No Flow				70.40				41.95				91.28				25.37	18.11	1.999	249.11	0.00

Unified Beach Monitoring

#1

South Orange County Wastewater Authority-Aliso Creek Ocean Outfall

REPORT FOR: October 2017
 REPORT DUE: December 1 2017
 SAMPLE SOURCE: Surf zone
 TYPE OF SAMPLE: Grab

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

Tidal Condition: High Tide 0807

Weather: Partly Cloudy

COMMENTS:

STA#	DATE	TIME	Total Coliform	Fecal Coliform	Entero-coccus	Material of Sewage Origin		Oil & Grease	Odor	Water Color	H2O Temp(F)	Water Condition	Water Outlet	Birds
			CFU/100ml SM9222B	CFU/100ml SM9222D	CFU/100ml EPA 1600	Onshore	Offshore							
S3	10/02/17	830	<20	<20	<3	None	None	None	None	Green	69	Slightly Turbid		
S4	10/02/17	1130	9	<20	<3	None	None	None	None	Green		Slightly Turbid		
S5	10/02/17	1110	<20	<20	<3	None	None	None	None	Green	71	Slightly Turbid		
S6	10/02/17	1045	<20	<20	<3	None	None	None	None	Green		Slightly Turbid		
WEST	10/02/17	1040	<20	<20	2	None	None	None	None	Green		Slightly Turbid		
S7	10/02/17	1035	<20	<20	84	None	None	None	None	Green		Slightly Turbid		
S8	10/02/17	1030	<20	<20	<3	None	None	None	None	Blue		Clear		
S9	10/02/17	900	90	90	10	None	None	None	None	Green	69	Slightly Turbid		
ACM1	10/02/17	905	9	50	10	None	None	None	None	Green		Slightly Turbid		
S10	10/02/17	910	<20	<20	2	None	None	None	None	Blue		Clear		
S11	10/02/17	915	<20	<20	3	None	None	None	None	Blue		Clear		
S12	10/02/17	930	9	<10	<5	None	None	None	None	Blue	69	Clear		

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: October 2017
 REPORT DUE: December 1, 2017
 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 0724

Weather: Partly Cloudy

COMMENTS:

STA#	DATE	TIME	Total Coliform	Fecal Coliform	Entero-coccus	Material of Sewage Origin		Oil & Grease	Odor	Water Color	H2O Temp(F)	Water Condition	Water Outlet	Birds
			CFU/100ml SM9222B	CFU/100ml SM9222D	CFU/100ml EPA 1600	Onshore	Offshore							
S3	10/11/17	825	<20	<20	<3	None	None	None	None	Green	68	Clear		
S4	10/11/17	1105	<20	<20	<3	None	None	None	None	Green				
S5	10/11/17	1040	9	9	<3	None	None	None	None	Green				
S6	10/11/17	1015	<20	<20	<3	None	None	None	None	Green				
WEST	10/11/17	1005	<20	<20	<3	None	None	None	None	Green				
S7	10/11/17	1000	<20	<20	2	None	None	None	None	Green				
S8	10/11/17	955	<20	<20	<3	None	None	None	None	Blue				
S9	10/11/17	940	<20	<20	<3	None	None	None	None	Green				
ACM1	10/11/17	930	<20	<20	<3	None	None	None	None	Green				
S10	10/11/17	910	<20	<20	<3	None	None	None	None	Green				
S11	10/11/17	905	9	<20	<3	None	None	None	None	Green	69			
S12	10/11/17	900	<20	<20	<3	None	None	None	None	Green				

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

South Orange County Wastewater Authority-Aliso Creek Ocean Outfall

REPORT FOR: October 2017
 REPORT DUE: December 1, 2017
 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 0745

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	10/16/17	0950	<20	<20	<3	None	None	None	None	Green	68	Clear		
S4	10/16/17	0940	9	<20	5	None	None	None	None	Green		Clear		
S5	10/16/17	0930	<20	<20	<3	None	None	None	None	Green		Slightly Turbid		
S6	10/16/17	0915	<20	<20	<3	None	None	None	None	Green		Slightly Turbid		
WEST	10/16/17	0910	9	<20	<3	None	None	None	None	Green		Slightly Turbid		
S7	10/16/17	0905	<20	<20	<3	None	None	None	None	Green		Slightly Turbid		
S8	10/16/17	0900	<20	<20	<2	None	None	None	None	Green		Slightly Turbid		
S9	10/16/17	0849	10	<20	3	None	None	None	None	Green		Slightly Turbid		
ACM1	10/16/17	0850	9	20	<3	None	None	None	None	Green		Slightly Turbid		
S10	10/16/17	0840	9	<20	<3	None	None	None	None	Green		Slightly Turbid		
S11	10/16/17	0835	20	<20	7	None	None	None	None	Green	68	Slightly Turbid		
S12	10/16/17	0830	30	40	<3	None	None	None	None	Green		Slightly Turbid		

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

South Orange County Wastewater Authority-Aliso Creek Ocean Outfall

REPORT FOR: October 2017
 REPORT DUE: December 1, 2017
 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 1207

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	10/25/17	835	20	<20	<3	None	None	None	None	Green		Clear		
S4	10/25/17	1120	<20	<20	<3	None	None	None	None	Green	68	Clear		
S5	10/25/17	1105	20	<20	<3	None	None	None	None	Green		Clear		
S6	10/25/17	1050	<20	<20	<3	None	None	None	None	Green		Clear		
WEST	10/25/17	1045	<20	<20	<3	None	None	None	None	Green		Clear		
S7	10/25/17	1040	<20	<20	<3	None	None	None	None	Green	69	Clear		
S8	10/25/17	1030	<20	<20	<3	None	None	None	None	Blue		Clear		
S9	10/25/17	1010	<20	10	<3	None	None	None	None	Green		Clear		
ACM1	10/25/17	1000	<20	<20	3	None	None	None	None	Green		Clear		
S10	10/25/17	930	<20	<20	<3	None	None	None	None	Green		Clear		
S11	10/25/17	920	<20	<20	2	None	None	None	None	Green		Clear		
S12	10/25/17	915	<10	<10	<4	None	None	None	None	Green		Clear		

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

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 ACOO
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: October 2017

REPORT DUE: December 1, 2017

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 0845

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	10/04/17	<2	<2	<2	757	0	0	
A-1	Mid depth	10/04/17	<10	20	<10				
A-2	Surface	10/04/17	<2	<2	<2	745	0	0	
A-2	Mid depth	10/04/17	20	30	<10				
A-3	Surface	10/04/17	<2	<2	<2	749	0	0	
A-3	Mid depth	10/04/17	<10	10	<10				
A-4	Surface	10/04/17	<2	<2	<2	802	0	0	
A-4	Mid depth	10/04/17	<10	<10	<10				
A-5	Surface	10/04/17	<2	<2	<2	753	0	0	
A-5	Mid depth	10/04/17	20	<10	<10				
B-1	Surface	10/04/17	<2	<2	<2	737	0	0	
B-1	Mid depth	10/04/17	70	10	<10				
B-2	Surface	10/04/17	<2	<2	<2	810	0	0	
B-2	Mid depth	10/04/17	<10	<10	<10				
N1	Surface	10/04/17	<2	<2	<2	826	0	0	
N2	Surface	10/04/17	<2	<2	<2	824	0	0	
N3	Surface	10/04/17	<2	<2	<2	823	0	0	
N4	Surface	10/04/17	<2	<2	<2	822	0	0	
N5	Surface	10/04/17	<2	<2	<2	821	0	0	
N6	Surface	10/04/17	<2	2	2	820	0	0	
N7	Surface	10/04/17	<2	<2	<2	817	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 2017**

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 - 2017 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
SOCWA	Regional Treatment Plant	60	Tertiary Effluent	Broken 3WHP 1" reclaimed water line due to a broken elbow. Spill was contained and pumped back to the plant.	None	N/A	1/11/2017
SOCWA	Regional Treatment Plant	124,320	Secondary Effluent	One of two applied reclaimed water effluent pumps failed. These pumps push water from the reclaimed water effluent pond to the reclaimed water reservoirs. The single pump could not keep up with the demand thus leading to a spill from the pond. All flows were diverted to the outfall while the applied pump was repaired. Sandbags were placed around the overflow in an effort to contain secondary water in the pond.	Sulphur Creek Aliso Creek Pacific Ocean	1/23/2017	1/22/2017
SOCWA	Pacific Hydrotech	100	Untreated Sewage	Pacific Hydrotech and Herc Rental has a sewer bypass in operation at RTP. One of the bypass pumps did not start. One of their employees noticed the spill and started the pump. The spill was contained in the area and internal drains routed the flow to the influent Junction Structure.	None	7/11/2017	7/11/2017
SOCWA	Pacific Hydrotech	225	Untreated Sewage	Pacific Hydrotech and Herc Rental has a sewer bypass in operation at RTP. One of the bypass pumps got a rag ball stuck in the pump One of their employees noticed the spill and remove rags form suction of the pump. The spill was contained in the area and internal drains routed the flow to the influent Junction Structure.	None	7/14/2017	7/14/2017
SOCWA	Pacific Hydrotech	300	Untreated Sewage	Pacific Hydrotech and Herc Rental has a sewer bypass in operation at RTP. One of the bypass pumps got a rag ball stuck in the pump One of their employees noticed the spill and remove rags form suction of the pump. The spill was contained in the area and internal drains routed the flow to the influent Junction Structure.	None	07-17-17	07-17-17
SOCWA	Regional Treatment Plant	7,575	Untreated Sewage	The control power on Barscreen 1 blew a 30 amp fuse making the barscreen inoperable. Spill was contained treated in the plant.	None	7/18/2017	7/18/2017
SOCWA	Regional Treatment Plant	200	Untreated Sewage	The control power fuse blew, preventing operation of Bar Screen 1. A pacific hydrotech employee on site for the bypass found the spill and called the standby operator. The standby operator called the CPO.	None	7/18/2017	7/19/2017
SOCWA	Aliso Creek Water Harvesting Facility - South Coast Water District	30,000	Tertiary Effluent	Buffer tank overflow failure. Sump pump shut off which released pH neutral water to Aliso Creek.	Aliso Creek	10/5/2017	10/5/2017

Beach / Ocean Monitoring Report

SJCOO September & October

SAN JUAN CREEK OCEAN OUTFALL MONITORING REPORT

September 2017

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
09/01/17	6.570	6.0	4.1	0.1	1.366	8.6	5.0	<0.1	0.280	18.0	9.8	0.1	0.196	3.6	4.0	0.1	0.487	0.159	9.050	0.00
09/02/17	6.590				1.609				0.170				0.092				0.505	0.164	9.210	0.00
09/03/17	6.750				3.200				1.430				0.217				0.522	0.159	11.120	0.00
09/04/17	6.620	3.9	4.7	<0.1	1.803	7.6	5.0	<0.1	2.360	11.0	15.8	<0.1	0.180	3.0	14.0	<0.1	0.551	0.160	11.960	0.00
09/05/17	7.040	5.9	5.9	0.1	2.736	9.2	5.0	<0.1	1.650	8.6	16.0	0.1	0.412	2.7	14.0	<0.1	0.570	0.164	13.320	0.00
09/06/17	6.610	8.2	5.6	0.5	1.692	8.3	5.0	<0.1	1.160	11.4	9.0	0.1	0.132	3.1	3.0	<0.1	0.514	0.159	11.090	0.00
09/07/17	6.630	5.4	5.8	0.1	1.351	8.5	5.0	<0.1	0.120	8.0	5.9	<0.1	0.156	4.9	4.0	<0.1	0.532	0.165	10.060	0.00
09/08/17	6.800	5.4	6.4	0.2	1.052	7.7	4.0	<0.1	0.590	8.4	7.0	0.1	0.098	3.6	5.0	<0.1	0.531	0.160	9.120	0.00
09/09/17	6.540				1.342				0.500				0.020				0.492	0.159	9.250	0.00
09/10/17	6.740	7.9	8.2		1.624				2.060				0.138				0.499	0.164	9.820	0.00
09/11/17	6.560	5.0	5.3	0.1	3.353	8.4	5.0	<0.1	1.980	17.3	14.5	0.6	0.798	4.1	13.0	<0.1	0.497	0.160	12.740	0.00
09/12/17	6.960	6.4	5.5	0.1	1.523	7.3	5.0	<0.1	0.810	12.8	13.0	<0.1	0.074	2.4	11.0	<0.1	0.508	0.040	11.810	0.00
09/13/17	6.680	3.9	3.3	0.2	1.358	9.6	5.0	<0.1	0.360	9.2	10.5	<0.1	0.083	4.1	6.0	<0.1	0.515	No Flow	10.060	0.00
09/14/17	6.440	5.0	3.3	<0.1	1.007	8.8	5.0	<0.1	0.330	6.0	6.3	<0.1	0.035	3.2	7.0	<0.1	0.522	No Flow	8.910	0.00
09/15/17	6.610	5.5	3.3	0.1	1.378				0.260	12.0	8.6	<0.1	0.055	3.2	7.0	<0.1	0.541	No Flow	9.090	0.00
09/16/17	6.440				1.351	7.6	4.0	<0.1	1.110				0.024				0.555	No Flow	8.790	0.00
09/17/17	6.680	4.4	4.6		1.593				2.370				0.121				0.575	No Flow	10.180	0.00
09/18/17	6.820	6.6	6.8	<0.1	2.570	7.2	6.0	<0.1	1.180	7.0	13.4	<0.1	0.169	3.7	12.0	<0.1	0.571	No Flow	12.730	0.00
09/19/17	6.490	5.7	6.1	<0.1	1.560	11.4	6.0	<0.1	0.490	7.2	12.8	0.1	0.086	3.7	11.0	<0.1	0.565	No Flow	10.340	0.00
09/20/17	6.150	5.6	11.1	0.1	2.095	8.8	5.0	<0.1	0.930	5.2	5.6	<0.1	0.238	4.3	5.0	<0.1	0.568	No Flow	9.300	0.00
09/21/17	6.220	5.8	10.3	<0.1	1.341	10.8	6.0	<0.1	2.210	6.0	6.0	<0.1	0.189	3.8	5.0	<0.1	0.571	No Flow	9.860	0.01
09/22/17	6.310	7.0	10.0	0.2	1.025	12.6	6.0	<0.1	2.910	5.3	4.4	0.1	0.177	3.7	5.0	<0.1	0.398	No Flow	11.580	0.00
09/23/17	6.250				1.193				3.190				0.129				No Flow	No Flow	11.190	0.00
09/24/17	6.100	6.8	9.8		1.560				3.870				0.359				No Flow	No Flow	11.880	0.00
09/25/17	6.180	8.7	8.5	0.1	2.200	7.5	5.0	<0.1	1.870	8.8	13.5	<0.1	0.403	5.5	12.0	0.8	No Flow	No Flow	12.910	0.00
09/26/17	5.830	9.8	8.2	<0.1	1.361	8.7	5.0	<0.1	0.610	5.8	14.2	<0.1	0.211	4.1	13.0	0.1	No Flow	No Flow	9.740	0.00
09/27/17	6.350	7.0	8.1	0.2	1.361	8.1	5.0	<0.1	0.370	17.3	12.8	0.1	0.323	3.8	5.0	<0.1	0.171	No Flow	9.070	0.00
09/28/17	6.070	5.7	7.3	<0.1	1.514	7.9	5.0	<0.1	0.330	10.4	14.9	<0.1	0.201	3.8	5.0	<0.1	0.497	No Flow	8.470	0.00
09/29/17	6.660	6.8	6.8	0.1	1.256	7.1	4.0	<0.1	0.090	7.2	7.7	<0.1	0.172	4.0	6.0	<0.1	0.515	No Flow	8.880	0.00
09/30/17	6.510				1.423				0.080				0.215				0.503	No Flow	8.470	0.00
AVG	6.507	6.2	6.6	<0.1	1.660	8.7	5.0	<0.1	1.189	9.7	10.6	<0.1	0.190	3.7	8.0	<0.1	0.443	0.060	10.333	
TOTAL	195.200				49.797				35.670				5.703				13.275	1.813	310.000	0.01

REPORT FOR: September 2017
 REPORT DUE: November 1, 2017
 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 0925

Weather: Clear

COMMENTS:

STA#	DATE	TIME	Total	Fecal	Entero-	Material of Sewage		Oil & Grease	Odor	Water Color	H2O Temp(F)	Water Condition	Water Outlet	Birds
			Coliform CFU/100ml SM9222B	Coliform CFU/100ml SM9222D	coccus CFU/100ml EPA 1600	Onshore	Offshore							
S0	09/05/17	900	20	20	5	None	None	None	None	Green	74	Slightly Turbid		
S1	09/05/17	910	40	<40	4	None	None	None	None	Green		Slightly Turbid		
S2	09/05/17	805	20	<40	10	None	None	None	None	Green		Slightly Turbid		
DSB5	09/05/17	750	>=40	40	30	None	None	None	None	Green		Slightly Turbid		
S3	09/05/17	915	<40	<40	9	None	None	None	None	Green		Slightly Turbid		
DSB4	09/05/17	920	20	20	30	None	None	None	None	Green		Slightly Turbid		
S5	09/05/17	930	30	<30	3	None	None	None	None	Green		Slightly Turbid		
DSB1	09/05/17	940	<40	<40	2	None	None	None	None	Green		Slightly Turbid		
SJC1	09/05/17	850	<200	<200	9	None	None	None	None	Green		Slightly Turbid		

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

South Orange County Wastewater Authority-San Juan Creek Ocean Outfall

REPORT FOR: September 2017
 REPORT DUE: November 1, 2017
 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 0600

Weather: Partly Cloudy

COMMENTS:

STA#	DATE	TIME	Total	Fecal	Entero-	Material of Sewage		Oil & Grease	Odor	Water Color	H2O Temp(F)	Water Condition	Water Outlet	Birds
			Coliform CFU/100ml SM9222B	Coliform CFU/100ml SM9222D	coccus CFU/100ml EPA 1600	Onshore	Offshore							
S0	09/14/17	0915	40	40	10	None	None	None	None	Green	68	Turbid		
S1	09/14/17	0925	20	40	20	None	None	None	None	Green		Turbid		
S2	09/14/17	0900	40	<40	2	None	None	None	None	Green		Turbid		
DSB5	09/14/17	0850	<40	20	7	None	None	None	None	Green		Turbid		
S3	09/14/17	0930	<40	50	50	None	None	None	None	Green		Turbid		
DSB4	09/14/17	0930	20	20	20	None	None	None	None	Green		Turbid		
S5	09/14/17	0935	90	20	2	None	None	None	None	Green		Turbid		
DSB1	09/14/17	0940	100	50	2	None	None	None	None	Green	66	Turbid		
C1	09/14/17	0915	<100	<100	10	None	None	None	None	Green		Turbid		

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

REPORT FOR: September 2017
 REPORT DUE: November 1, 2017
 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 1017

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	09/21/17	825	<40	<40	2	None	None	None	None	Green	65	Turbid		
S1	09/21/17	831	<40	40	7	None	None	None	None	Green		Turbid		
S2	09/21/17	815	<40	<40	10	None	None	None	None	Green		Turbid		
DSB5	09/21/17	800	100	50	30	None	None	None	None	Green		Turbid		20
S3	09/21/17	835	<40	20	20	None	None	None	None	Green		Turbid		
DSB4	09/21/17	845	20	<40	120	None	None	None	None	Green	65	Turbid		
S5	09/21/17	855	<40	<40	10	None	None	None	None	Green		Turbid		
DSB1	09/21/17	907	<40	<40	10	None	None	None	None	Green		Turbid		
C1	09/21/17	830	<100	<100	<20	None	None	None	None	Green	65	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: September 2017
 REPORT DUE: November 1, 2017
 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 0638
 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	09/26/17	950	<40	<40	<4	None	None	None	None	Green	67	Turbid		
S1	09/26/17	955	<40	<40	<4	None	None	None	None	Green		Turbid		
S2	09/26/17	938	<40	<40	<4	None	None	None	None	Green		Turbid		
DSB5	09/26/17	928	<40	20	<4	None	None	None	None	Green		Clear		
S3	09/26/17	1000	<40	<40	<4	None	None	None	None	Green		Turbid		
DSB4	09/26/17	1005	<40	<40	<4	None	None	None	None	Green	67	Turbid		
S5	09/26/17	1010	<40	<40	<4	None	None	None	None	Green		Turbid		
DSB1	09/26/17	1015	<40	<40	7	None	None	None	None	Green	67	Turbid		
C1	09/26/17	948	<100	<100	<20	None	None	None	None	Green		Turbid		

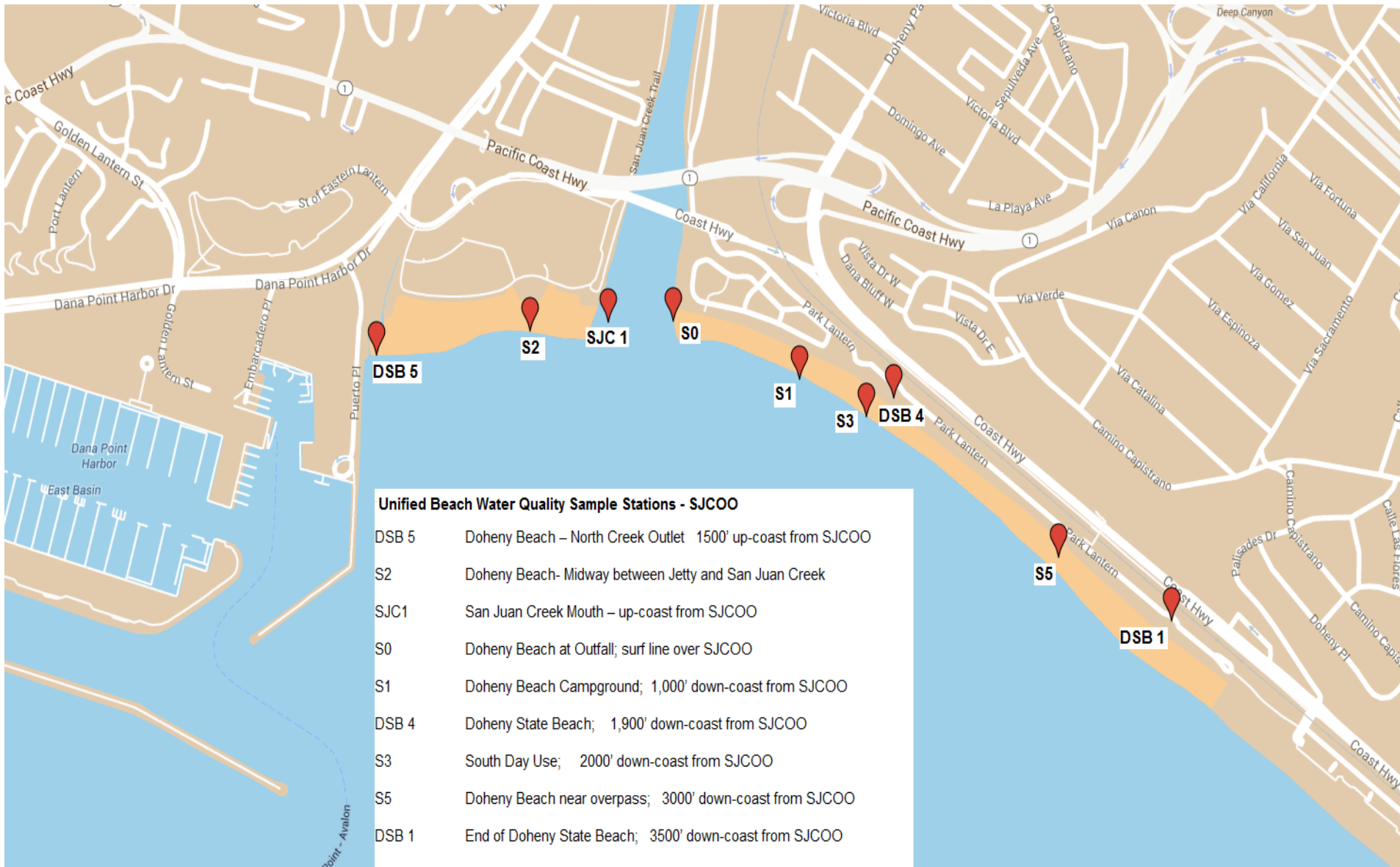
RECEIVING WATER LIMITATIONS: Single Sample Maximum - Total coliform density shall not exceed 10,000 per 100ml; Fecal coliform density shall not exceed 400 per 100ml; Enterococcus density shall not exceed 104 per 100ml.

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: September 2017

REPORT FREQUENCY: Monthly

REPORT DUE: November 1, 2017

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 0947

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	09/20/17	<2	<2	<2	932	0	0	0 - None
A-1	Mid depth	09/20/17	10	<10	<10				1 - Mild
A-2	Surface	09/20/17	<2	<2	<2	936	0	0	2 - Moderate
A-2	Mid depth	09/20/17	<10	<10	<10				3 - Severe
A-3	Surface	09/20/17	2	2	<2	939	0	0	
A-3	Mid depth	09/20/17	<10	<10	<10				
A-4	Surface	09/20/17	<2	<2	<2	948	0	0	
A-4	Mid depth	09/20/17	<10	<10	<10				
A-5	Surface	09/20/17	<2	<2	<2	944	0	0	
A-5	Mid depth	09/20/17	<10	<10	<10				
B-1	Surface	09/20/17	<2	<2	<2	924	0	0	
B-1	Mid depth	09/20/17	30	<10	<10				
B-2	Surface	09/20/17	<2	<2	<2	957	0	0	
B-2	Mid depth	09/20/17	<10	<10	<10				
N1	Surface	09/20/17	<2	<2	<2	909	0	0	
N2	Surface	09/20/17	<2	<2	<2	907	0	0	
N3	Surface	09/20/17	<2	<2	<2	903	0	0	
N4	Surface	09/20/17	6	<2	<2	858	0	0	
N5	Surface	09/20/17	2	<2	<2	854	0	0	
N6	Surface	09/20/17	16	6	<2	851	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 2017**

SJCOO Permit Order No. R9-2012-0012							
Agency	Violation Date	Constituent	Effluent Limit Violation	Units	Permit Limit	Reported Value	Potential Fine
SMWD - 3A	4/8/2017	Turbidity	Deficient Monitoring	ntu	weekly	not monitored	\$3,000
SMWD - CWRP	4/17/2017	TSS	TSS Monthly Average Limit	mg/L	30	87.8	\$3,000
SMWD - CWRP	4/18/2017	TSS	TSS Weekly Average Limit	mg/L	45	292	\$3,000
SMWD - CWRP	4/17/2017	TSS	TSS % Removal	%	85	0	\$3,000
SMWD - CWRP	4/30/2017	TSS	TSS % Removal	%	85	0	\$3,000
SOCWA - Outfall	7/12/2017	Fecal Coliform	30 Day Geometric Mean	cfu/100mL	200	315	N/A



**SOCWA and MEMBER AGENCY FACILITIES
SJCOO Spill / Overflow Report Log - 2017
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
SOCWA	JB Latham Plant	100	Primary	High flows experienced at the plant.	N/A	N/A	01-22-17

Recycled Water Report

**Compliance Summary Report
Recycled Water Permit
2017**

Waste Discharge Requirement Order 97 - 52							
Agency - Facility	Violation Date	Constituent	Effluent Limit Violation	Units	Permit Limit	Reported Value	Remarks
SCWD-CTP	1/4/2017	Manganese	12-Month	mg/L	0.05	0.06	
SOCWA - RTP	1/4/2017	TDS	12-month	mg/L	1,000	1026	
SOCWA - RTP	1/4/2007	Manganese	12-Month	mg/L	0.05	0.06	
SMWD-3A	1/31/2017	Manganese	12-Month	mg/L	0.05	0.06	Plant offline in January
SOCWA - RTP	2/14/2017	TDS	12-month	mg/L	1,000	1101	
SOCWA - RTP	2/14/2017	TDS	Daily	mg/L	1,100	1101	
SOCWA - RTP	2/14/2017	Manganese	12-Month	mg/L	0.05	0.06	
SMWD-3A	2/28/2017	Manganese	12-Month	mg/L	0.05	0.06	Plant offline in February
SOCWA - RTP	3/7/2017	TDS	12-month	mg/L	1,000	1047	
SOCWA - RTP	3/7/2017	Manganese	12-Month	mg/L	0.05	0.08	
SCWD-RTP	3/7/2017	Manganese	Daily	mg/L	0.06	0.11	
SMWD-3A	3/16/2017	Manganese	Daily	mg/L	0.06	0.07	
SMWD-3A	3/16/2017	Manganese	12-Month	mg/L	0.05	0.06	
SOCWA - RTP	4/11/2017	TDS	12-month	mg/L	1000	1083	
SOCWA - RTP	4/11/2017	Manganese	12-Month	mg/L	0.05	0.08	
SMWD-3A	4/13/2017	Manganese	12-Month	mg/L	0.05	0.06	
SMWD-3A	4/13/2017	Manganese	Daily	mg/L	0.06	0.07	
SMWD-3A	5/10/2017	Manganese	12-Month	mg/L	0.05	0.06	
SCWD-CTP	5/6/2017	Coliform	Daily	cfu/100mL	23	NR*	Monitoring violation
SOCWA - RTP	5/16/2017	Manganese	12-Month	mg/L	0.05	0.07	
SMWD-OCWRP	5/21/2017	Coliform	Daily	cfu/100mL	23	1600	Possible sample contamination reported by the Chief Plant Operator
SOCWA - RTP	6/6/2017	Manganese	12-Month	mg/L	0.05	0.08	
SMWD-3A	6/8/2017	Manganese	12-Month	mg/L	0.05	0.06	
SMWD-3A	7/1/2017	Manganese	12-Month	mg/L	0.05	0.06	
SOCWA - RTP	7/4/2017	Manganese	12-Month	mg/L	0.05	0.07	
SOCWA - RTP	8/8/2017	Manganese	12-Month	mg/L	0.05	0.08	
SMWD-3A	8/21/2017	Manganese	12-Month	mg/L	0.05	0.06	
SOCWA - RTP	9/12/2017	Manganese	12-Month	mg/L	0.05	0.08	
SOCWA - RTP	9/8/2017-9/10/17	Coliform	7 day median	cfu/100mL	<2.2	5,5,&4	The 7 day median was exceeded from 9/8/17 through 9/10/17
SMWD-3A	9/21/2017	Manganese	12-Month	mg/L	0.05	0.06	

SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

QUARTERLY RECYCLED WATER MONITORING

Monitoring Period Ending: Sep 30, 2017

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	752	908	929	779	844	949	820	962	709
Chloride	mg/L	375	144	182	218	161	185	239	186	238	207
Sulfate	mg/L	400	194	217	229	226	220	208	208	321	254
Sodium	mg/L	None	149	158	170	133	143	188	143	180	150
Alkalinity	mg/L	None	-	-	-	-	-	-	-	257	185
Adjusted SAR	Ratio	None	5.10	-	4.29	4.30	4.37	5.21	4.74	4.39	4.52
Iron	mg/L	0.3	0.023	0.040	0.027	0.224	0.084	0.056	0.13	0.187	0.123
Manganese	mg/L	0.05	0.024	0.013	0.020	0.024	0.031	0.018	0.060	0.082	0.044
MBAS	mg/L	0.5	0.11	0.00	0.05	0.60	0.45	0.48	0.60	0.10	0.10
Boron	mg/L	0.75	0.36	0.280	0.307	0.290	0.318	0.305	0.29	0.347	0.27
Fluoride	mg/L	None	0.49	1.540	0.43	0.840	0.76	0.99	0.99	0.93	0.79
Total Organic Carbon	mg/L	None	8.5	-	8.8	9.1	10.8	9.8	10.2	13.0	11.0

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

TDS 1000 mg/L
Chloride 180 mg/L
Sulfate 340 mg/L

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

TDS 910 mg/L

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

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

SOCWA Service Area Recycled Water Production (Ac-Ft) - 2017

Agency	Facility or Region	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Annual Totals
CSJC ¹	3-A Plant/MNWD	0.00	0.91	5.54	1.51	0.48	0.00	0.00	0.48	0.00				8.92
CSJC ²	Chiquita/SMWD	0.30	0.02	9.60	22.50	21.70	21.00	21.90	25.10	23.20				145.32
CSJC ³	Non-Domestic Well	3.18	4.44	NR	46.32	56.30	61.32	79.19	53.34	61.04				365.13
ETWD	Region 8	27.67	21.00	88.91	146.89	169.07	168.67	206.55	201.82	157.58				1188.15
IRWD														
	⁴ IRWD - 8	2.71	3.65	39.50	74.46	94.27	100.26	106.56	139.76	155.09				716.25
	⁴ IRWD - 9	1.11	4.97	28.05	63.80	85.49	88.45	102.61	157.79	124.95				657.22
SCWD	SOCWA CTP	3.32	10.16	49.66	116.27	116.12	76.77	123.91	129.51	108.75				734.47
MNWD	JRP	153.48	158.57	268.68	479.15	505.02	559.34	643.09	661.04	588.80				4017.17
	3-A Plant	0.00	0.00	70.24	123.24	174.31	175.83	178.74	179.59	180.67				1082.62
	⁵ CTP	-1.25	4.36	2.16	18.65	12.63	-34.25	0.40	-34.25	-5.28				-36.84
SMWD	Oso Creek	151.60	141.02	149.58	136.93	142.67	143.50	153.23	142.06	143.99				1304.58
	Chiquita	197.02	95.04	205.46	421.26	351.57	404.51	377.81	375.97	266.99				2695.63
	Nichols	1.73	1.53	1.82	1.72	1.98	2.21	2.84	2.83	2.45				19.11
TCWD	RRWRP	52.88	36.21	43.81	49.50	53.28	51.90	48.67	48.06	44.66				428.97
TOTALS		594.70	476.59	945.71	1659.54	1750.08	1832.75	2023.20	2091.77	1834.97	0.00	0.00	0.00	13209.30

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

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

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

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

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

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

NR = No Report

SAN JUAN CREEK OCEAN OUTFALL MONITORING REPORT

October 2017

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
10/01/17	6.690	5.6	9.4		1.319				0.730				0.342				0.500	No Flow	8.560	0.00
10/02/17	6.880	7.7	8.1	<0.1	3.334	8.5	6.0	<0.1	0.860	20.8	13.5	<0.1	0.358	5.6	13.0	<0.1	0.498	No Flow	10.950	0.00
10/03/17	6.810	5.1	8.0	0.1	0.621	10.2	6.0	<0.1	0.680	9.8	15.2	<0.1	0.240	3.3	14.0	0.1	0.497	No Flow	9.760	0.00
10/04/17	6.440	5.3	8.0	<0.1	1.639	9.5	6.0	<0.1	0.170	9.8	9.8	0.1	0.190	3.0	5.0	0.1	0.498	No Flow	9.730	0.00
10/05/17	6.400	6.5	8.0	0.2	1.762	8.8	5.0	<0.1	0.320	6.4	6.5	<0.1	0.308	2.9	5.0	<0.1	0.498	No Flow	9.210	0.00
10/06/17	6.160	5.5	7.0	0.1	1.269	11.0	7.0	<0.1	0.070	7.6	7.7	0.1	0.194	3.7	5.0	0.2	0.500	No Flow	9.220	0.00
10/07/17	6.080				1.267				0.420				0.120				0.501	No Flow	7.860	0.00
10/08/17	6.190	6.3	8.0		2.069				2.010				0.332				0.501	No Flow	9.700	0.00
10/09/17	6.310	6.4	5.0	<0.1	2.437	10.8	7.0	<0.1	0.490	17.7	13.2	<0.1	0.291	4.0	12.0	0.1	0.487	No Flow	12.210	0.00
10/10/17	6.400	6.3	7.0	0.2	1.432	10.3	6.0	<0.1	0.430	14.0	14.0	0.1	0.233	3.6	13.0	0.2	0.495	No Flow	10.100	0.00
10/11/17	6.150	6.5	6.0	<0.1	1.899	9.7	6.0	<0.1	0.510	7.6	7.5	<0.1	0.201	4.3	5.0	0.1	0.481	No Flow	8.810	0.00
10/12/17	5.870	7.5	4.0	<0.1	0.032	8.4	5.0	<0.1	0.800	10.0	8.6	<0.1	0.190	3.6	5.0	<0.1	0.499	0.022	8.560	0.00
10/13/17	5.900	6.1	4.0	<0.1	1.640	8.4	6.0	<0.1	0.600	8.0	6.8	<0.1	0.153	3.6	4.0	<0.1	0.477	No Flow	10.680	0.00
10/14/17	6.010				0.612				1.520				0.098				0.495	No Flow	9.250	0.00
10/15/17	6.210	6.0	8.0		2.005				2.650				0.185				0.495	No Flow	10.930	0.00
10/16/17	6.180	7.1	7.0	<0.1	2.503	8.4	6.0	<0.1	1.040	12.8	15.0	<0.1	0.217	4.0	13.0	<0.1	0.500	0.157	12.300	0.00
10/17/17	5.800	5.4	5.0	0.1	1.415	8.1	5.0	<0.1	0.730	8.4	13.5	0.1	0.186	4.0	13.0	0.1	0.500	0.177	9.950	0.00
10/18/17	6.170	6.6	6.0	<0.1	1.638	7.6	4.0	<0.1	0.550	7.2	7.8	<0.1	0.171	3.6	4.0	<0.1	0.501	0.160	10.400	0.00
10/19/17	6.310	8.1	11.2	<0.1	1.183	9.1	5.0	<0.1	0.720	7.6	8.1	0.1	0.180	4.0	4.0	0.1	0.495	0.164	8.130	0.00
10/20/17	7.000	8.4	7.3	0.1	1.902	7.9	5.0	<0.1	1.280	9.6	6.8	0.2	0.167	3.6	4.0	0.1	0.494	0.160	10.190	0.00
10/21/17	6.690				1.509				0.530				0.119				0.459	0.165	9.900	0.00
10/22/17	6.850	4.6	7.7		2.629				1.910				0.265				0.442	0.160	10.420	0.00
10/23/17	7.200	12.4	9.5	0.1	2.351	8.4	6.0	<0.1	0.980	18.8	13.8	0.1	0.221	4.8	12.0	0.1	0.442	0.160	12.310	0.00
10/24/17	6.750	10.6	8.3	0.1	1.122	7.9	5.0	<0.1	0.560	10.8	14.6	0.2	0.366	3.2	12.0	0.1	0.447	0.165	9.810	0.00
10/25/17	6.280	8.7	6.9	<0.1	1.440	9.2	6.0	<0.1	0.650	7.6	6.6	0.1	0.165	3.2	4.0	0.1	0.115	0.160	8.710	0.00
10/26/17	5.840	5.0	5.6	0.1	1.215	8.1	6.0	<0.1	0.360	8.2	8.3	<0.1	0.179	3.4	4.0	<0.1	0.279	0.160	8.280	0.00
10/27/17	6.260	6.1	4.9	0.1	0.479	7.2	5.0	<0.1	0.220	7.2	6.2	<0.1	0.181	4.0	5.0	<0.1	0.410	0.163	8.570	0.00
10/28/17	6.280				1.490				0.360				0.127				0.425	0.161	8.760	0.00
10/29/17	6.540	4.9	7.4		2.564				1.320				0.248				0.422	0.159	10.140	0.00
10/30/17	6.490	3.2	5.7	<0.1	2.448	6.9	5.0	<0.1	1.430	13.7	14.5	1.0	0.218	4.2	13.0	<0.1	0.422	0.164	11.330	0.00
10/31/17	6.200	5.5	4.5	<0.1	2.030	9.1	6.0	<0.1	0.700	18.8	15.0	<0.1	0.184	4.1	14.0	<0.1	0.429	0.018	10.970	0.00
AVG	6.366	6.6	6.9	<0.1	1.653	8.8	5.6	<0.1	0.826	11.0	10.6	<0.2	0.214	3.8	8.3	<0.1	0.458	0.080	9.861	
TOTAL	197.340				51.255				25.600				6.629				14.204	2.475	305.700	0.00

REPORT FOR: October 2017
 REPORT DUE: December 1, 2017
 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 0818

Weather: Overcast

COMMENTS:

STA#	DATE	TIME	Total	Fecal	Enterococcus	Material of Sewage		Oil & Grease	Odor	Water Color	H2O Temp(F)	Water Condition	Water Outlet	Birds
			Coliform CFU/100ml SM9222B	Coliform CFU/100ml SM9222D	CFU/100ml EPA 1600	Onshore	Offshore							
S0	10/03/17	0903	<40	20	5	None	None	None	None	Green		Turbid		
S1	10/03/17	0907	40	100	30	None	None	None	None	Green		Turbid		
S2	10/03/17	0846	20	<40	9	None	None	None	None	Green	69	Turbid		
DSB5	10/03/17	0840	<40	<40	4	None	None	None	None	Green		Turbid		
S3	10/03/17	0910	40	50	82	None	None	None	None	Green		Turbid		
DSB4	10/03/17	0911	20	90	98	None	None	None	None	Green		Turbid		
S5	10/03/17	0920	<40	<40	60	None	None	None	None	Green		Turbid		
DSB1	10/03/17	0925	<40	<40	<4	None	None	None	None	Green	70	Turbid		
SJC1	10/03/17	0905	9	<30	<10	None	None	None	None	Green		Turbid		50

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: October 2017
 REPORT DUE: December 1, 2017
 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 0724

Weather: Partly Cloudy

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	10/11/17	910	<40	<40	<4	None	None	None	None	Green	68	Slightly Turbid		
S1	10/11/17	915	<40	<40	<4	None	None	None	None	Green		Slightly Turbid		
S2	10/11/17	905	<40	<40	4	None	None	None	None	Green		Slightly Turbid		
DSB5	10/11/17	855	<40	20	4	None	None	None	None	Green		Slightly Turbid		
S3	10/11/17	920	20	<40	<4	None	None	None	None	Green		Slightly Turbid		
DSB4	10/11/17	930	20	20	4	None	None	None	None	Green	Slightly Turbid			
S5	10/11/17	940	20	20	2	None	None	None	None	Green	Slightly Turbid			
DSB1	10/11/17	950	<40	<40	4	None	None	None	None	Green	69	Slightly Turbid		
C1	10/11/17	911	<200	<200	20	None	None	None	None	Green		Slightly Turbid		

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

South Orange County Wastewater Authority-San Juan Creek Ocean Outfall

REPORT FOR: October 2017
 REPORT DUE: December 1, 2017
 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 0843

Weather: Partly Cloudy

COMMENTS:

STA#	DATE	TIME	Total	Fecal	Entero-	Material of Sewage		Oil & Grease	Odor	Water Color	H2O Temp(F)	Water Condition	Water Outlet	Birds
			Coliform CFU/100ml SM9222B	Coliform CFU/100ml SM9222D	coccus CFU/100ml EPA 1600	Onshore	Offshore							
S0	10/18/17	0855	20	<40	4	None	None	None	None	Green	68	Turbid		
S1	10/18/17	0915	40	<40	44	None	None	None	None	Green		Turbid		
S2	10/18/17	0845	20	<40	10	None	None	None	None	Green		Turbid		
DSB5	10/18/17	0840	<40	<40	4	None	None	None	None	Green	69	Turbid		
S3	10/18/17	0925	20	20	2	None	None	None	None	Green		Turbid		
DSB4	10/18/17	0920	<40	20	58	None	None	None	None	Green		Turbid		
S5	10/18/17	0930	40	<40	20	None	None	None	None	Brown		Turbid		
DSB1	10/18/17	0935	70	<40	30	None	None	None	None	Brown	70	Turbid		
C1	10/18/17	0850	20	<50	10	None	None	None	None	Green		Slightly Turbid		

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

South Orange County Wastewater Authority-San Juan Creek Ocean Outfall

REPORT FOR: October 2017
 REPORT DUE: December 1, 2017
 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 1100

Weather: Clear

COMMENTS:

STA#	DATE	TIME	Total Coliform	Fecal Coliform	Entero-coccus	Material of Sewage		Oil & Grease	Odor	Water Color	H2O Temp(F)	Water Condition	Water Outlet	Birds
			CFU/100ml SM9222B	CFU/100ml SM9222D	CFU/100ml EPA 1600	Onshore	Offshore							
S0	10/23/17	0855	<40	<40	2	None	None	None	None	Brown		Turbid		
S1	10/23/17	0900	<40	40	2	None	None	None	None	Brown		Turbid		
S2	10/23/17	0848	<40	<40	2	None	None	None	None	Brown	66	Turbid		
DSB5	10/23/17	0820	10	10	5	None	None	None	None	Brown		Turbid		
S3	10/23/17	0905	<40	<40	<4	None	None	None	None	Green		Turbid		
DSB4	10/23/17	0910	<40	20	<4	None	None	None	None	Green		Turbid		
S5	10/23/17	0920	20	<40	<4	None	None	None	None	Green		Turbid		
DSB1	10/23/17	0925	<40	<40	2	None	None	None	None	Green	68	Turbid		
C1	10/23/17	0855	<20	20	5	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.

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: October 2017

REPORT FREQUENCY: Monthly

REPORT DUE: December 1, 2017

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 0845

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	10/04/17	<2	<2	<2	923	0	0	0 - None
A-1	Mid depth	10/04/17	<10	<10	<10				1 - Mild
A-2	Surface	10/04/17	<2	<2	<2	926	0	0	2 - Moderate
A-2	Mid depth	10/04/17	<10	<10	<10				3 - Severe
A-3	Surface	10/04/17	<2	<2	<2	930	0	0	
A-3	Mid depth	10/04/17	<10	<10	<10				
A-4	Surface	10/04/17	<2	<2	<2	936	0	0	
A-4	Mid depth	10/04/17	<10	<10	<10				
A-5	Surface	10/04/17	<2	<2	<2	933	0	0	
A-5	Mid depth	10/04/17	<10	<10	<10				
B-1	Surface	10/04/17	<2	<2	<2	915	0	0	
B-1	Mid depth	10/04/17	<10	<10	<10				
B-2	Surface	10/04/17	<2	<2	<2	944	0	0	
B-2	Mid depth	10/04/17	<10	<10	<10				
N1	Surface	10/04/17	<2	<2	<2	900	0	0	
N2	Surface	10/04/17	<2	<2	<2	857	0	0	
N3	Surface	10/04/17	<2	<2	<2	852	0	0	
N4	Surface	10/04/17	4	<2	<2	847	0	0	
N5	Surface	10/04/17	<2	<2	<2	843	0	0	
N6	Surface	10/04/17	2	<2	<2	840	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 2017**

SJCOO Permit Order No. R9-2012-0012							
Agency	Violation Date	Constituent	Effluent Limit Violation	Units	Permit Limit	Reported Value	Potential Fine
SMWD - 3A	4/8/2017	Turbidity	Deficient Monitoring	ntu	weekly	not monitored	\$3,000
SMWD - CWRP	4/17/2017	TSS	TSS Monthly Average Limit	mg/L	30	87.8	\$3,000
SMWD - CWRP	4/18/2017	TSS	TSS Weekly Average Limit	mg/L	45	292	\$3,000
SMWD - CWRP	4/17/2017	TSS	TSS % Removal	%	85	0	\$3,000
SMWD - CWRP	4/30/2017	TSS	TSS % Removal	%	85	0	\$3,000
SOCWA - Outfall	7/12/2017	Fecal Coliform	30 Day Geometric Mean	cfu/100mL	200	315	N/A



**SOCWA and MEMBER AGENCY FACILITIES
SJCOO Spill / Overflow Report Log - 2017
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
SOCWA	JB Latham Plant	100	Primary	High flows experienced at the plant.	N/A	N/A	01-22-17

Recycled Water Report

**Compliance Summary Report
Recycled Water Permit
2017**

Waste Discharge Requirement Order 97 - 52

Agency - Facility	Violation Date	Constituent	Effluent Limit Violation	Units	Permit Limit	Reported Value	Remarks
SCWD-CTP	1/4/2017	Manganese	12-Month	mg/L	0.05	0.06	
SOCWA - RTP	1/4/2017	TDS	12-month	mg/L	1,000	1026	
SOCWA - RTP	1/4/2007	Manganese	12-Month	mg/L	0.05	0.06	
SMWD-3A	1/31/2017	Manganese	12-Month	mg/L	0.05	0.06	Plant offline in January
SOCWA - RTP	2/14/2017	TDS	12-month	mg/L	1,000	1101	
SOCWA - RTP	2/14/2017	TDS	Daily	mg/L	1,100	1101	
SOCWA - RTP	2/14/2017	Manganese	12-Month	mg/L	0.05	0.06	
SMWD-3A	2/28/2017	Manganese	12-Month	mg/L	0.05	0.06	Plant offline in February
SOCWA - RTP	3/7/2017	TDS	12-month	mg/L	1,000	1047	
SOCWA - RTP	3/7/2017	Manganese	12-Month	mg/L	0.05	0.08	
SCWD-RTP	3/7/2017	Manganese	Daily	mg/L	0.06	0.11	
SMWD-3A	3/16/2017	Manganese	Daily	mg/L	0.06	0.07	
SMWD-3A	3/16/2017	Manganese	12-Month	mg/L	0.05	0.06	
SOCWA - RTP	4/11/2017	TDS	12-month	mg/L	1000	1083	
SOCWA - RTP	4/11/2017	Manganese	12-Month	mg/L	0.05	0.08	
SMWD-3A	4/13/2017	Manganese	12-Month	mg/L	0.05	0.06	
SMWD-3A	4/13/2017	Manganese	Daily	mg/L	0.06	0.07	
SMWD-3A	5/10/2017	Manganese	12-Month	mg/L	0.05	0.06	
SCWD-CTP	5/6/2017	Coliform	Daily	cfu/100mL	23	NR*	Monitoring violation
SOCWA - RTP	5/16/2017	Manganese	12-Month	mg/L	0.05	0.07	
SMWD-OCWRP	5/21/2017	Coliform	Daily	cfu/100mL	23	1600	Possible sample contamination reported by the Chief Plant Operator
SOCWA - RTP	6/6/2017	Manganese	12-Month	mg/L	0.05	0.08	
SMWD-3A	6/8/2017	Manganese	12-Month	mg/L	0.05	0.06	
SMWD-3A	7/1/2017	Manganese	12-Month	mg/L	0.05	0.06	
SOCWA - RTP	7/4/2017	Manganese	12-Month	mg/L	0.05	0.07	
SOCWA - RTP	8/8/2017	Manganese	12-Month	mg/L	0.05	0.08	
SMWD-3A	8/21/2017	Manganese	12-Month	mg/L	0.05	0.06	
SOCWA - RTP	9/12/2017	Manganese	12-Month	mg/L	0.05	0.08	
SOCWA - RTP	9/8/2017-9/10/17	Coliform	7 day median	cfu/100mL	<2.2	5,5,&4	The 7 day median was exceeded from 9/8/17 through 9/10/17
SMWD-3A	9/21/2017	Manganese	12-Month	mg/L	0.05	0.06	
SOCWA - RTP	10/5/2017	Manganese	12-Month	mg/L	0.05	0.09	
SMWD-3A	10/6/2017	Manganese	12-Month	mg/L	0.05	0.06	

SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

QUARTERLY RECYCLED WATER MONITORING

Monitoring Period Ending: Oct 31, 2017

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	805	908	905	735	800	954	770	939	668
Chloride	mg/L	375	154	182	195	154	180	236	175	240	191
Sulfate	mg/L	400	210	217	219	205	210	211	183	315	165
Sodium	mg/L	None	149	158	155	120	137	180	127	180	140
Alkalinity	mg/L	None	-	-	-	-	-	-		251	171
Adjusted SAR	Ratio	None	5.20	-	3.88	4.11	4.28	5.11	4.51	4.38	4.31
Iron	mg/L	0.3	0.018	0.040	0.016	0.166	0.068	0.055	0.13	0.200	0.130
Manganese	mg/L	0.05	0.021	0.013	0.021	0.024	0.032	0.018	0.061	0.087	0.043
MBAS	mg/L	0.5	0.13	0.00	0.05	0.60	0.40	0.60	0.60	0.10	0.10
Boron	mg/L	0.75	0.35	0.280	0.295	0.290	0.320	0.303	0.29	0.345	0.27
Fluoride	mg/L	None	0.35	1.540	0.43	0.840	0.76	0.99	0.99	0.79	0.72
Total Organic Carbon	mg/L	None	9.3	-	9.2	8.1	9.8	9.4	9.2	12.5	10.0

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

TDS 1000 mg/L
Chloride 180 mg/L
Sulfate 340 mg/L

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

TDS 910 mg/L

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

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

SOCWA Service Area Recycled Water Production (Ac-Ft) - 2017

Agency	Facility or Region	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Annual Totals
CSJC ¹	3-A Plant/MNWD	0.00	0.91	5.54	1.51	0.48	0.00	0.00	0.48	0.00	0.00			8.92
CSJC ²	Chiquita/SMWD	0.30	0.02	9.60	22.50	21.70	21.00	21.90	25.10	23.20	28.20			173.52
CSJC ³	Non-Domestic Well	3.18	4.44	NR	46.32	56.30	61.32	79.19	53.34	61.04	67.14			432.27
ETWD	Region 8	27.67	21.00	88.91	146.89	169.07	168.67	206.55	201.82	157.58	144.70			1332.85
IRWD														
⁴	IRWD - 8	2.71	3.65	39.50	74.46	94.27	100.26	106.56	139.76	155.09	138.59			854.84
⁴	IRWD - 9	1.11	4.97	28.05	63.80	85.49	88.45	102.61	157.79	124.95	114.50			771.72
SCWD	SOCWA CTP	3.32	10.16	49.66	116.27	116.12	76.77	123.91	129.51	108.75	62.58			797.05
MNWD	JRP	153.48	158.57	268.68	479.15	505.02	559.34	643.09	661.04	588.80	607.73			4624.90
	3-A Plant	0.00	0.00	70.24	123.24	174.31	175.83	178.74	179.59	180.67	196.96			1279.58
	⁵ CTP	-1.25	4.36	2.16	18.65	12.63	-34.25	0.40	-34.25	-5.28	-38.15			-74.99
SMWD	Oso Creek	151.60	141.02	149.58	136.93	142.67	143.50	153.23	142.06	143.99	147.28			1451.86
	Chiquita	197.02	95.04	205.46	421.26	351.57	404.51	377.81	375.97	266.99	383.12			3078.75
	Nichols	1.73	1.53	1.82	1.72	1.98	2.21	2.84	2.83	2.45	2.11			21.22
TCWD	RRWRP	52.88	36.21	43.81	49.50	53.28	51.90	48.67	48.06	44.66	45.77			474.74
TOTALS		594.70	476.59	945.71	1659.54	1750.08	1832.75	2023.20	2091.77	1834.97	1910.47	0.00	0.00	15119.77

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

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

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

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

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

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

NR = No Report

Pretreatment Report

Agenda Item

Legal Counsel Review: N/A

Meeting Date: December 14, 2017

TO: SOCWA Board of Directors

FROM: Betty Burnett, General Manager

STAFF CONTACT: Katie Greenwood, Source Control Manager

SUBJECT: Monthly Pretreatment Report, September - November 2017
San Juan Creek Ocean Outfall
NPDES Permit #CA0107417 Order #R9-2012-0012
Aliso Creek Ocean Outfall
NPDES Permit #CA0107611 Order #R9-2012-0013

Summary of Program Activities

State contractors conducted a Pretreatment Compliance Inspection (PCI) of SOCWA's Pretreatment Program on March 23, 2017. The following two categorical industrial user (CIU) files and facilities were inspected: IRWD-Dynacast, SMWD-Applied Medical (003). Preliminary findings were presented verbally and include the requirement to modify permit language to state that all self-monitoring performed (at the sampling location described in the permit) must be reported to SOCWA, even if the IU is monitoring more frequently than required. Several recommendations for program improvement were also given verbally and include: 1.) SOCWA should evaluate IU facilities for the need to have a Slug Discharge Control Plan (SDCP) more frequently than federal law requires, and 2.) SOCWA Staff should be less specific as to when compliance sampling will occur over a timeframe when communicating with IUs.

- Staff has not yet received the PCI report and recently learned that other programs have experienced a similar delay in issuance of State inspection and audit reports.

The Dental Amalgam Rule became effective on July 14, 2017. The compliance date, meaning the date that Existing Sources subject to the rule must comply with the standards in this rule is July 14, 2020. New Sources subject to this rule must comply immediately with the standards in this rule. Staff has finished updating SOCWA's list of all existing dental offices. Staff created a Dental Discharger One-Time Compliance Report in advance of EPA publishing theirs. Staff plans to post information about the Rule along with a link to SOCWA's One-Time Compliance Report on SOCWA's website. Staff will also conduct a mass mail-out to all Dental Users to provide the Discharger One-Time Compliance Report.

SOCWA Staff provided required MAs (CSC, SMWD, ETWD, and IRWD) with the appropriate reporting sheets for their data submittals necessary to assist in the production of the annual pretreatment report, which is due to the RWQCB-SD by March 1, 2018. Once received, Staff will review and enter the data into the Water Information Management Solution (WIMS) database so it can be uploaded electronically to the State CA Integrated Water Quality System (CIWQS) database. Influent and effluent data from each of the treatment plants and the narrative portion of the report will only be submitted electronically to the State. SOCWA Staff has not yet received influent/effluent sampling results from SMWD, CSC, and ETWD. As of October 19, 2017:

- SOCWA Staff completed the annual influent/effluent sampling at JBL, CTP, and RTP treatment plants on September 19, 2017 and analytical results have been received.

- IRWD completed its annual influent/effluent sampling of the Los Alisos WRP on January 24-25, 2017 and submitted results to SOCWA for review on October 12, 2017.

Trainings and Committee Meetings Attended

SOCWA Staff attended the annual Strike Force training and lunch at Rattlesnake Reservoir on October 18, 2017.

Permit Related Activities

The following Wastewater Discharge (WD) Permits, Special Wastewater Discharge (SWD) Permits, Nuisance Water-Special Wastewater Discharge (NSWD) Permits, Non-Industrial Wastewater Discharge (NIWD) forms, and BMP letters were issued or are in the process of being drafted for issuance:

CLB – SWD Permit No. 4-001 (Chevron Co.) – Renewal, Non-SIU Class IV SWD Permit – issued October 16, 2017.

SMWD – WD Permit No. 2-001 (Control Components, Inc.) – Renewal, Non-SIU Class II WD Permit – issued October 5, 2017

CSC – SWD Permit No. 4-001 (FREY Environmental) – New, Non-SIU, Class IV SWD Permit to allow treated groundwater contaminated from a petroleum underground storage tank to be discharged to the sewer. A SWD Permit has been drafted. Staff is awaiting test results which show pollutant levels in the groundwater before and after treatment to prove the treatment system effectively treats the groundwater to non-detect pollutant levels.

SCWD – NSWD Permit No. N4-007 (Montage Resorts) –Montage Council submitted Agreement legal revisions to SCWD on July 27, 2017. SCWD Staff are working with legal to incorporate changes into the Agreement. The Permit may not be finalized until the Agreement is approved and signed by all parties. Montage management has indicated that its owners will sign the SCWD Agreement so that a new SWD Permit may be issued before the end of 2017.

Enforcement Events

SOCWA - Alliance Residential Broadstone, 27742 Forbes Rd, Laguna Niguel, CA 92677
Issued a Notice of non-Compliance (NON) on September 26, 2017.

Site exceeded the permit effluent limit for zinc and failed to notify SOCWA within 24 hours of becoming aware of the violation. Re-testing has been performed and the zinc result was within compliance. SOCWA Staff considers this enforcement matter resolved.

CSC - Regenesis, 1011 Calle Sombra #100, San Clemente, CA 92673
Issued a Warning NON on October 25, 2017.
Facility submitted their October SMR past the monthly due date.

SMWD - Forespar, 22322 Gilberto, Rancho Santa Margarita, CA 92688
Issued a Warning NON on October 26, 2017.
Facility submitted their October SMR past the monthly due date.

Inspection and Monitoring Activities

SOCWA Staff finished conducting the federally required annual site inspections and monitoring/sampling of all SIU/CIU's in the SOCWA service area. This is a required activity of the SOCWA approved pretreatment program and has to be completed by December 31, 2017.

The information and data obtained from these required activities will be incorporated into the SOCWA Pretreatment Annual Report.

On October 6, 2017 SOCWA Staff inspected Dynacast, WD Permit No. IRWD-1-001. Staff collected 24-hour composite samples of the facility wastewater to verify annual compliance with local limit values as required by federal pretreatment rules. Analytical results were received and all parameters were found in compliance.

Summary of Activities and Types of IUs in the SOCWA Service Area.

YTD through November 27, 2017.

<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)	1	3	2	5	8	111	0	0	129	
CSC	(M)	0	6	35	18	181	1283	0	3	1522	
CSJC	(S)	0	2	27	59	137	1669	0	1	1894	
ETWD	(M)	0	3	98	0	262	134	0	0	497	
EBSD	(U)	0	1	0	0	0	0	0	0	1	
IRWD	(S)	1	3	51	21	63	920	0	0	1058	
MNWD	(S)	104	5	125	40	614	2060	19	2	2844	
SMWD	(S)	62	5	20	20	183	738	5	2	964	
SCWD	(S)	0	6	33	7	148	184	0	4	386	
TCWD	(S)	0	11	0	0	7	33	0	0	51	
SOCWA	(S)	2	3	1	0	0	0	0	3	4	
Totals		88	55	392	170	1596	7097	7	8	9350	
Dentist (All)										444	
										Total Known IUs	9794

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

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

Agenda Item

Meeting Date: December 7, 2017

TO: Board of Directors

FROM: Betty Burnett, General Manager

STAFF CONTACT: Teri Noson, Executive Assistant/Clerk of the Board

SUBJECT: Project Committee No. 15 Minutes

The Project Committee No. 15 has approved the submitted set of minutes. These items are presented to the Board for information and review.

Recommended Action

Receive and file subject minutes.

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

Project Committee No.15

May 12, 2017

The Special Meeting of the South Orange County Wastewater Authority (SOCWA) Project Committee No. 15 was held on Friday, May 12, 2017, at 3:00 p.m. at SOCWA's Administrative Offices located at 34156 Del Obispo Street, Dana Point, California. The following members of Project Committee No. 15 were present:

JOHN PIETIG	City of Laguna Beach
JOONE LOPEZ	Moulton Niguel Water District
ANDY BRUNHART	South Coast Water District
MIKE DUNBAR	Emerald Bay Service District

Staff present:

BETTY BURNETT	General Manager
TERI NOSON	Executive Assistant/Clerk of the Board

Also present:

JEREMY JUNGREIS	Rutan & Tucker
ART KIDMAN	Kidman Law
ALLISON BURNS	Stradling, Yocca, Carlson & Rauth
PETER WHITTINGHAM	Curt Pringle & Associates
ERIC WEIGAND	Senator Patricia Bates
DON FROELICH	Moulton Niguel Water District
ROGER FAUBEL	Faubel Public Affairs
JAKE VOLLEBREGT	Moulton Niguel Water District
RUBEN DURAN	Moulton Niguel Water District
SHAUN PELLETER	Aliso Viejo
JOHN UHRICH	Moulton Niguel Water District
JEFF DUNN	Moulton Niguel Water District
DON SEDGWICK	Mayor- City Laguna Hills
ANTHONY KOO	County of Orange - Auditor Controller
ERIC WOOLERY	County of Orange - Auditor Controller
ROBERT L. BROWN	Citizen - Moulton Niguel Water District
SHARON CAMPBELL	Assemblyman Brough
DENNIS WILBERG	City of Mission Viejo
KATHYN FRESHLEY	Laguna Woods Village
ELAIN GENNAWEY	City of Laguna Niguel

Chairperson Dunbar called the meeting to order at 3:03 p.m. and welcomed everyone present.

Open Session

Public Comments

Public comments were received by Eric Woolery, Don Sedgwick and Robert L. Brown.

ACTION TAKEN

No action taken.

Approval of Minutes

Director Lopez noted for the record that the submitted minutes for approval indicate Moulton Niguel Water District (MNWD) as absent from the meeting and further stated that there was a discussion verbally and in writing about not consulting MNWD prior to scheduling all of the meetings that is outlined in the agenda. Director Lopez requested that there be a footnote added to all of the current submitted meeting minutes stating that MNWD was not notified and was not able to be present at the meetings, and that such a footnote should be added for the minutes of the May 12, 2017, Project Committee No. 15 meeting. Director Lopez further noted that if there is a Project Committee No. 15 meeting, MNWD would want to attend to understand "what is going on" and requested that all the minutes reflect Director Lopez's request. An open discussion ensued.

Chairperson Dunbar noted that Mr. Collings did attend the April 14, 2017, Project Committee No. 15 meeting. Director Lopez requested that her comments be added to the April 14, 2017, minutes noting that MNWD had to move their schedules to accommodate attendance of the meeting. An open discussion ensued.

Mr. Jungreis inquired if Director Lopez was making a motion to amend the submitted minutes. Director Lopez confirmed that her comments for the record were submitted for a motion to amend the submitted minutes for Project Committee No. 15 approval. An open discussion ensued.

Director Pietig reported that some of the meetings were scheduled on short notice due to actions by MNWD, and stated that MNWD had some responsibility for the short meeting notice situation. Director Pietig suggested that the notation to the minutes state MNWD had concerns regarding timeliness of meetings and requested notification in advance as much as possible in the future. An open discussion ensued.

Director Pietig reported that there were instances where Project Committee No. 15 members, Emerald Bay Service District, City of Laguna Beach, and South Coast Water District, have had to meet with legal counsel as a result of MNWD's actions. All of the meetings have had an open session as required by the Brown Act and adjourned to closed session. MNWD is welcome to attend open sessions, and they were notified of those meetings. MNWD's actions were the cause of the need to schedule meetings. Director Pietig stated that the other members of PC 15 look forward to coordinating Project Committee No. 15 meetings in a collaborative manner going forward. There were very specific reasons for the Project Committee No. 15 meetings to be scheduled in the manner that they were. An open discussion ensued.

Mr. Jungreis reported that there was not a second motion to Director Lopez's motion to amend the minutes, and it failed for lack of a second.

ACTION TAKEN

Motion was made by Director Pietig and seconded by Director Brunhart to approve the Project Committee No. 15 minutes for April 5, 2017, April 14, 2017, April 28, 2017, April 26, 2017 and May 4, 2017 as submitted.

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

Director Pietig	Aye
Director Dunbar	Aye
Director Brunhart	Aye
Director Lopez	Nay

Moulton Niguel Water District Payment of Due and Owing Invoices

Chairperson Dunbar provided brief comments regarding Project Committee No. 15 meeting comments/discussion protocol and welcomed opening comments from Project Committee No. 15 members.

Director Pietig, Director Lopez, Director Brunhart, and Chairperson Dunbar provided opening comments regarding the MNWD payments due and owing invoices.

Chairperson Dunbar requested that Director Lopez provide the full check of \$755,871 without any conditions, to Project Committee No. 15 at which time the Project Committee No. 15 members would proceed to the next steps of negotiations.

Director Lopez provided the check in the amount of \$755,871 accompanied by a letter from MNWD. An open discussion ensued.

Chairperson Dunbar adjourned the Project Committee No. 15 meeting for recess at 3:43 p.m.

The Board meeting reconvened at 3:51 p.m.

Chairperson Dunbar directed the SOCWA General Manager to provide the requested accounting that is available to MNWD, and referenced the MNWD provided letter and reported that conditions were not acceptable and did not accept the MNWD provided check stating that preconditions were unacceptable.

Chairperson Dunbar noted for the record that Project Committee No. 15 is not accepting any conditions on the payment and should MNWD insist that payment be conditional. Chairperson Dunbar requested that MNWD come and retrieve the check. Chairperson Dunbar directed that the minutes reflect that Project Committee No. 15 took custody of the check after declining to withdraw its conditions on payment.

Chairperson Dunbar further noted for the record that acceptance of the check is not acceptance of any condition that MNWD has attempted to impose. Project Committee No. 15 partners will discuss the next steps of negotiating potential divestment only after MNWD makes unconditional payment of past due amounts owed to South Orange County Wastewater Authority.

Director Lopez requested clarity regarding 'unconditional' and 'accounting that is available'. Chairperson Dunbar stated that the accounting that is available will be provided to MNWD and restated that the General Manager has been directed to provide the available requested accounting information.

Mr. Jungreis reported that the response to the MNWD letter was not agendized and a detailed discussion about data would have to be on the agenda. Mr. Jungreis stated that the Chairperson has made a commitment to MNWD to provide available SOCWA requested accounting data to address the concerns in the letter provided today. Any further discussion of data sought by MNWD would need to be agendized for a later meeting.

Director Lopez expressed concerns of receiving accounting information from SOCWA, and Chairperson Dunbar stated that the information would be provided to MNWD.

Chairperson Dunbar provided clarification on the need for unconditional payment to SOCWA referencing the letter submitted by MNWD. Chairperson Dunbar stated that the last sentence of the first paragraph of MNWD's letter was a condition and could not be accepted as condition of payment. The second paragraph of MNWD's letter also imposed a condition on payment. Chair Dunbar stated that should MNWD want to remove those two (2) conditions on payment, SOCWA would accept the check. Should MNWD not want to remove the two (2) conditions, then they were to retrieve the check. An open discussion ensued after which MNWD voluntarily retrieved the check.

ACTION TAKEN

Motion was made by Director Pietig and seconded by Director Dunbar that Project Committee No. 15 was unable to accept the check as currently provided because it was not in compliance with the existing legal agreements between the agencies. Chair Dunbar expressed willingness to begin negotiations with Moulton Niguel Water District regarding potential divestiture of MNWD's obligations under the agreements regarding the Coastal Treatment Plant once MNWD's obligations to PC 15 were unconditionally paid in full.

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

Director Pietig	Aye
Director Dunbar	Aye
Director Brunhart	Aye
Director Lopez	Nay

Director Lopez inquired if the check was accepted by Project Committee No. 15.

Mr. Jungreis reported that the approved motion was not to accept the check with the conditions on payment imposed by MNWD, and should MNWD want to withdraw the conditions a different motion could be submitted.

Public Comments

Upon the request of MNWD, additional public comments were received from Dennis Wilberg and Rod Foster.

Project Committee No. 15 went into Closed Session at 4:14p.m.

Closed Session

Closed Session was conducted under Government Code Section 54956.9 for the following purpose:

POTENTIAL LITIGATION IN 1 MATTER

Pursuant to Government Code Section 54956.9 a Closed Session was held to confer with legal counsel regarding potential litigation in 1 matter.

Project Committee No. 15 reconvened to open session at 5:39p.m.

Report Out of Closed Session

Director Dunbar reported that Project Committee No. 15 authorized the initiation of litigation.

Adjournment

There being no further business, Director Dunbar adjourned the meeting at 5:40p.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 Project Committee No. 15 of May 12, 2017, and approved by the Project Committee No. 15 of the South Orange County Wastewater Authority.

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

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

Project Committee No. 15

June 1, 2017

The Special Meeting of the South Orange County Wastewater Authority (SOCWA) Project Committee No. 15 was held on June 1, 2017, at 2:30 p.m. at SOCWA's Administrative Offices located at 34156 Del Obispo Street, Dana Point, California. The following members of Project Committee No. 15 were present:

JOHN PIETIG	City of Laguna Beach
ANDY BRUNHART	South Coast Water District
MIKE DUNBAR	Emerald Bay Service District

Absent:

Joone Lopez	Moulton Niguel Water District
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Staff present:

BETTY BURNETT	General Manager
TERI NOSON	Clerk of the Board

Also present:

JEREMY JUNGREIS	Runtan & Tucker
PETER WHITTINGHAM	CP&A

Director Dunbar called the meeting to order at 2:30 p.m. and welcomed everyone present.

Public Comments

There were no public comments received.

ACTION TAKEN:

No action taken.

The Board went into Closed Session at 2:33 p.m.

Closed Session

A Closed Session was conducted for the following matter:

Existing Litigation per paragraph (1) of subdivision (d) of Government Code
Section 54956.9, *Case of SOCWA, et al. v. Moulton Niguel Water District*
Case number 30-2017-00923143-CU-BC-CJC.

The Board meeting reconvened in Open Session at 4:15 p.m.

Report Out of Closed Session

Chairman Dunbar reported that there were no reportable actions from Closed Session.

Adjournment

There being no further business, Chairperson Dunbar adjourned the meeting at 4:16 p.m.

I HEREBY CERTIFY that the foregoing Minutes are a true and accurate copy of the Minutes of the Special Meeting of the South Orange County Wastewater Authority Project Committee No. 15 of June 1, 2017, and approved by the Project Committee No. 15 of the South Orange County Wastewater Authority.

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

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

Project Committee No. 15

June 15, 2017

The Special Meeting of the South Orange County Wastewater Authority (SOCWA) Project Committee No. 15 was held on June 15, 2017, at 3:00 p.m. at SOCWA's Administrative Offices located at 34156 Del Obispo Street, Dana Point, California. The following members of Project Committee No. 15 were present:

JOHN PIETIG
MIKE DUNBAR
ANDY BRUNHART

City of Laguna Beach
Emerald Bay Service District
South Coast Water District

Absent:

JOONE LOPEZ

Moulton Niguel Water District

Staff present:

BETTY BURNETT
TERI NOSON

General Manager
Clerk of the Board

Also Present:

JEREMY JUNGREIS
STEVE GREYSHOCK

Runtan & Tucker
Greycomm

Chairperson Dunbar called the meeting to order at 3:00 p.m. and welcomed everyone present.

Public Comments

There were no public comments received.

ACTION TAKEN

No action taken.

The Board went into closed session at 3:01 p.m.

Closed Session

A Closed Session was conducted for the following matter:

Existing Litigation per paragraph (1) of subdivision (d) of Government Code
Section 54956.9, *Case of SOCWA, et al. v. Moulton Niguel Water District*
Case number 30-2017-00923143-CU-BC-CJC.

The Board meeting reconvened in Open Session at 5:37 p.m.

Report Out of Closed Session

Chairperson Dunbar reported that there were no reportable actions from Closed Session.

Adjournment

There being no further business, Chairperson Dunbar adjourned the meeting at 5:38 p.m.

I HEREBY CERTIFY that the foregoing Minutes are a true and accurate copy of the Minutes of the Special Meeting of the South Orange County Wastewater Authority Project Committee No. 15 of June 15, 2017, and approved by the Project Committee No. 15 of the South Orange County Wastewater Authority.

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

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

Project Committee No. 15

June 29, 2017

The Special Meeting of the South Orange County Wastewater Authority (SOCWA) Project Committee No. 15 was held on June 29, 2017, at 3:00 p.m. at their Administrative Offices located at 34156 Del Obispo Street, Dana Point, California. The following members of Project Committee No. 15 were present:

JOHN PIETIG	City of Laguna Beach
MIKE DUNBAR	Emerald Bay Service District
ANDY BRUNHART	South Coast Water District
MATT COLLINGS	Moulton Niguel Water District [exit @ 3:13 p.m.]

Staff present:

BETTY BURNETT	General Manager
TERI NOSON	Clerk of the Board

Also Present:

JEREMY JUNGREIS	Runtan & Tucker
STEVE GREYSHOCK	Greycomm
ART KIDMAN	Kidman Law
ALLISON BURNES	Stradlig, Yocca, Carlson & Rauth
RAY MILLER	SOCWA/City of San Juan Capistrano [exit @ 3:13 p.m.]

Chairperson Dunbar called the meeting to order at 3:10 p.m. and welcomed everyone present.

Public Comments

There were no public comments received.

ACTION TAKEN

No action taken.

The Chairman adjourned the Project Committee No. 15 meeting for recess at 3:12 p.m.

The Board meeting reconvened at 3:15 p.m. and went into Closed Session at 3:16 p.m.

Closed Session

A Closed Session of Project Committee 15 was conducted for the following matter:

Existing Litigation per paragraph (1) of subdivision (d) of Government Code Section 54956.9, *Case of SOCWA, et al. v. Moulton Niguel Water District*
Case number 30-2017-00923143-CU-BC-CJC.

The Board meeting reconvened in Open Session at 5:56 p.m.

Report Out of Closed Session

Chairperson Dunbar reported that there were no reportable items from Closed Session.

Adjournment

There being no further business, Chairman Dunbar adjourned the meeting at 5:58 p.m.

I HEREBY CERTIFY that the foregoing Minutes are a true and accurate copy of the Minutes of the Special Meeting of the South Orange County Wastewater Authority Project Committee No. 15 of June 29, 2017, and approved by the Project Committee No. 15 of the South Orange County Wastewater Authority.

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

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

Project Committee No. 15

July 13, 2017

The Special Meeting of the South Orange County Wastewater Authority (SOCWA) Project Committee No. 15 was held on July 13, 2017, at 1:00 p.m. at their Administrative Offices located at 34156 Del Obispo Street, Dana Point, California. The following members of the Directors were present:

MIKE DUNBAR	Emerald Bay Service District
ANDY BRUNHART	South Coast Water District
JOHN PIETIG	City of Laguna Beach

Absent:

JOONE LOPEZ	Moulton Niguel Water District
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Staff present:

BETTY BURNETT	General Manager
TERI NOSON	Clerk of the Board
JEREMY JUNGREIS	Rutan & Tucker

Also present:

Ken Hume	KEH & Associates
Allison Burns	Stradling, Yocca, Carlson & Rauth
Steve Greyshock	Greycomm
Peter Wittingham	Curt Pringle & Associates
Curt Pringle	Curt Pringle & Associates

Chairperson Dunbar called the meeting to order at 1:06 p.m. and welcomed everyone present.

Public Comments

No comments were received.

Approval of Minutes

ACTION TAKEN:

Motion was made by Director Brunhart and seconded by Director Pietig to approve Project Committee No. 15 minutes for June 1, 2017, June 15, 2017, June 29, 2017 as submitted and defer approval of the May 12, 2017 minutes.

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

Director Pietig	Aye
Director Dunbar	Aye
Director Brunhart	Aye
Director Lopez	Absent

The Project Committee No. 15 meeting entered Closed Session at 1:10 p.m.

Closed Session

A Closed Session was conducted for the following matter:

Existing Litigation per paragraph (1) of subdivision (d) of Government Code Section 54956.9, *Case of SOCWA, et al. v. Moulton Niguel Water District*
Case number 30-2017-00923143-CU-BC-CJC.

The Project Committee No. 15 meeting reconvened to Open Session at 4:10 p.m.

Report Out of Closed Session

ACTION TAKEN

Chairperson Dunbar stated that there were no reportable items from Closed Session.

Adjournment

There being no further business, Chairperson Dunbar adjourned the meeting at 4:11 p.m.

I HEREBY CERTIFY that the foregoing Minutes are a true and accurate copy of the Minutes of the Special Meeting of the South Orange County Wastewater Authority Project Committee No. 15 of July 13, 2017, and approved and ratified by the Project Committee No. 15 of the South Orange County Wastewater Authority.

Betty Burnett, General Manager
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

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

Project Committee No. 15

August 10, 2017

The Special Meeting of the South Orange County Wastewater Authority (SOCWA) Project Committee No. 15 was held on August 10, 2017, at 3:00 p.m. at their Administrative Offices located at 34156 Del Obispo Street, Dana Point, California. The following Directors were present:

MATT COLLINGS	Moulton Niguel Water District
MIKE DUNBAR	Emerald Bay Service District
ANDY BRUNHART	South Coast Water District
JOHN PIETIG	City of Laguna Beach

Staff present:

BETTY BURNETT	General Manager
TERI NOSON	Executive Assistant
MORGAN GALLAGHER	Rutan & Tucker

Also present:

ALLISON BURNS	Stradling, Yocca, Carlson & Rauth
ART KIDMAN	Kidman Law

Chairperson Dunbar called the meeting to order at 3:09 p.m. and welcomed everyone present.

Public Comments

No public comments were received.

Director Comments

Chairperson Dunbar made opening comments regarding Moulton Niguel Water District's (MNWD) failure to pay its Project Committee No. 15 bills.

Director Collings reported that MNWD has paid and continues to pay MNWD's Operation and Maintenance invoices, which fund critical repairs and stated that MNWD has offered to pay under protest but the check was rejected by Project Committee No. 15 members.

Chairperson Dunbar reported that the check referenced by Director Collings came with conditions that were not acceptable to Project Committee No. 15 members.

Director Pietig stated that he supported Chairman Dunbar's comments and expressed disappointment of the current situation with MNWD.

Director Brunhart stated that no one was winning in this matter and the Orange County water community was losing.

The Project Committee No. 15 meeting entered Closed Session at 3:15 p.m.

Closed Session

Closed Session was conducted for the following matter:

Existing Litigation per paragraph (1) of subdivision (d) of Government Code Section 54956.9, *Case of SOCWA, et al. v. Moulton Niguel Water District*
Case number 30-2017-00923143-CU-BC-CJC.

The Project Committee No. 15 meeting reconvened to Open Session at 5:24 p.m.

Report out of Closed Session

Chairperson Dunbar stated that there were no reportable items from Closed Session.

Adjournment

There being no further business, Chairperson Dunbar adjourned the meeting at 5:26 p.m.

I HEREBY CERTIFY that the foregoing Minutes are a true and accurate copy of the Minutes of the Special Meeting of the South Orange County Wastewater Authority Project Committee No. 15 of August 10, 2017, and approved and ratified by the Project Committee No. 15 of the South Orange County Wastewater Authority.

Betty Burnett, General Manager
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

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

Project Committee No. 15

August 31, 2017

The Special Meeting of the South Orange County Wastewater Authority (SOCWA) Project Committee No. 15 was held on August 31, 2017, at 3:00 p.m. at their Administrative Offices located at 34156 Del Obispo Street, Dana Point, California. The following Directors were present:

MATT COLLINGS	Moulton Niguel Water District [exit 3:05 p.m.]
MIKE DUNBAR	Emerald Bay Service District
ANDY BRUNHART	South Coast Water District
JOHN PIETIG	City of Laguna Beach

Staff present:

BETTY BURNETT	General Manager
TERI NOSON	Executive Assistant
JEREMY JUNGREIS	Rutan & Tucker

Also present:

ALLISON BURNS	Stradling, Yocca, Carlson & Rauth
ART KIDMAN	Kidman Law
STEVE GREYSHOCK	Greycomm [exit 3:05 p.m.]

Chairperson Dunbar called the meeting to order at 3:02 p.m. and welcomed everyone present.

Public Comments

No public comments were received.

Open Session

Approval of Prior Project Committee No.15 Meeting Minutes

Director Collings requested that a copy of the previous version of edits of the May 12, 2017, Project Committee No. 15 minutes be provided to MNWD. Mr. Jungreis requested that MNWD provide a written request to SOCWA so that the committee could better understand exactly what records MNWD was seeking.

ACTION TAKEN

Motion was made by Director Collings and seconded by Director Pietig to defer any action on the minutes until MNWD had further opportunity to review the minutes.

Motion carried:	Aye 4; Nay 0; Abstain 0; Absent 0
	Director Pietig Aye
	Director Dunbar Aye
	Director Brunhart Aye
	Director Collings Aye

Committee Member Comments

There were no Director comments.

The Project Committee No. 15 meeting entered Closed Session at 3:10 p.m.

Closed Session

Closed Session was conducted for the following matter:
Existing Litigation per paragraph (1) of subdivision (d) of Government Code Section
54956.9, *Case of SOCWA, et al. v. Moulton Niguel Water District*
Case number 30-2017-00923143-CU-BC-CJC.

The Project Committee No. 15 meeting reconvened to Open Session at 5:37 p.m.

Report out of Closed Session

Chairperson Dunbar stated that there were no reportable items from Closed Session.

Adjournment

There being no further business, Chairperson Dunbar adjourned the meeting at 5:37 p.m.

I HEREBY CERTIFY that the foregoing Minutes are a true and accurate copy of the Minutes of the Special Meeting of the South Orange County Wastewater Authority Project Committee No. 15 of August 31, 2017, and approved and ratified by the Project Committee No. 15 of the South Orange County Wastewater Authority.

Betty Burnett, General Manager
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

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

Project Committee No. 15

September 14, 2017

The Special Meeting of the South Orange County Wastewater Authority (SOCWA) Project Committee No. 15 was held on September 14, 2017, at 2:30 p.m. at SOCWA Administrative Offices located at 34156 Del Obispo Street, Dana Point, California. The following members of Project Committee No. 15 were present:

MIKE DUNBAR	Emerald Bay Service District
ANDY BRUNHART	South Coast Water District
JOHN PIETIG	City of Laguna Beach

Absent:

JOONE LOPEZ	Moulton Niguel Water District
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Staff present:

BETTY BURNETT	General Manager
DANITA HIRSH	Executive Assistant

Also Present:

JEREMY JUNGREIS	Runtan & Tucker
ART KIDMAN	Kidman Law
STEVE GREYSHOCK	Greycomm, LLC
JAKE VOLLEBREGT	Moulton Niguel Water District

1. **Call Meeting to Order**

Chairperson Dunbar called the meeting to order at 2:34 p.m.

2. **Public Comments**

None.

3. **Open Session**

- Chair Comments –

Chairperson Dunbar commented that in the Open Session the Committee was tasked to approve several Minutes from previous meetings. He stated at the last meeting, Moulton Niguel requested that the Committee hold off on approvals to allow Moulton Niguel time to review the Minutes. Moulton Niguel was asked to provide the Committee with written comments and was given an opportunity to do so. None were received.

Chairperson Dunbar stated an email was received indicating that Matt Collings, Moulton Niguel's Alternate Representative for the Committee was not able to be present. Chairperson Dunbar noted Jake Vollebregt from Moulton Niguel was currently present in the audience.

Chairperson Dunbar went on to state that Moulton Niguel was provided 3 days notice for today's meeting, and in his opinion, this was sufficient time for Moulton Niguel to submit comments, and that he was prepared to approve the May 12 Minutes.

- Committee Member Comments
 - None.
- Approval of Prior Project Committee No. 15 Meeting Minutes

Chairperson Dunbar recommended the Committee vote on each set of Minutes separately.

ACTION TAKEN

Motion was made by Director Brunhart and seconded by Director Pietig to approve the Minutes of August 31, 2017.

Motion carried:	Aye 3, Nay 0, Abstain 0, Absent 1
	Director Dunbar Aye
	Director Pietig Aye
	Director Brunhart Aye
	Director Lopez Absent

Motion was made by Director Brunhart and seconded by Director Pietig to approve the Minutes of August 10, 2017.

Motion carried:	Aye 3, Nay 0, Abstain 0, Absent 1
	Director Dunbar Aye
	Director Pietig Aye
	Director Brunhart Aye
	Director Lopez Absent

Motion was made by Director Pietig and seconded by Director Brunhart to approve the Minutes of July 13, 2017.

Motion carried:	Aye 3, Nay 0, Abstain 0, Absent 1
	Director Dunbar Aye
	Director Pietig Aye
	Director Brunhart Aye
	Director Lopez Absent

Mr. Vollebregt of Moulton Niguel Water District addressed the Committee and stated Director Pietig's reference to Moulton Niguel's request at the last meeting on August 31st, was for Moulton Niguel to receive a copy of the prior meeting minute drafts so that Moulton Niguel could review them. He stated the drafts were requested, and Moulton Niguel was instructed to file a written request which request was filed with Chair Dunbar on Tuesday, September 12. Mr. Vollebregt stated that Moulton Niguel would appreciate the opportunity to look at the prior drafts before commenting on the minutes. He also requested that Moulton Niguel be given the professional courtesy of checking with their staff for availability on the days that future PC-15 Meetings are scheduled. He then requested the Committee to defer approval of May 12 Minutes to the next PC 15 meeting.

ACTION TAKEN

Motion was made by Director Pietig and seconded by Director Brunhart to defer the May12 Minutes to the next meeting on September 28, with the understanding that Moulton Niguel commits to either attending the meeting to provide comments, or provides any comments in writing should they not attend in order to support the orderly conduct of business for Project Committee No. 15.

Motion carried:	Aye 3, Nay 0, Abstain 0, Absent 1
	Director Dunbar Aye
	Director Pietig Aye
	Director Brunhart Aye
	Director Lopez Absent

General Manager, Betty Burnett, asked the Committee Chair whether a schedule had been determined for PC-15 Committee Meetings.

Chairman Dunbar responded that there had not been a formal routine schedule in the past and that it is an item to be discussed amongst the PC-15 Members. He stated, the next meeting would be on Thursday, September 28 pending Members schedules. He recommended holding the meetings every 2 weeks on Thursday at 3:00 p.m. The Committee Members concurred.

The Committee entered Closed Session at 2:50 p.m.

Closed Session

A Closed Session was conducted for the following matter:

Existing Litigation per paragraph (1) of subdivision (d) of Government Code Section 54956.9, *Case of SOCWA, et al. v. Moulton Niguel Water District*
Case number 30-2017-00923143-CU-BC-CJC.

The Board meeting reconvened in Open Session at 4:44 p.m.

Report Out of Closed Session

There were no reportable actions from Closed Session.

Adjournment

There being no further business, Chairperson Dunbar adjourned the meeting at 4:45 p.m.

I HEREBY CERTIFY that the foregoing Minutes are a true and accurate copy of the Minutes of the Special Meeting of the South Orange County Wastewater Authority Project Committee No. 15 of September 14, 2017 approved by the Project Committee No. 15 of the South Orange County Wastewater Authority.

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

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

Project Committee No. 15

September 27, 2017

The Special Meeting of the South Orange County Wastewater Authority (SOCWA) Project Committee No. 15 was held on September 27, 2017, at 5:00 p.m. at SOCWA's Administrative Offices located at 34156 Del Obispo Street, Dana Point, California. The following members of Project Committee No. 15 were present:

MATT COLLINGS
MIKE DUNBAR
ANDY BRUNHART
JOHN PIETIG

Moulton Niguel Water District
Emerald Bay Service District
South Coast Water District
City of Laguna Beach

Staff present:

BETTY BURNETT
DANITA HIRSH

General Manager
Executive Assistant

Also Present:

JEREMY JUNGREIS
ALLISON BURNS
TIFFANY ACKLEY
DANIEL SHIMELL
JAKE VOLLEBREGT

Rutan & Tucker, LLP
Stradling Yocca Carlson & Rauth
Kidman Law, LLP
Best Best & Krieger, LLP
Moulton Niguel Water District

1. **Call Meeting to Order**

Chairperson Dunbar called the meeting to order at 5:01 p.m.

2. **Public Comments**

None.

3. **Open Session**

- Chair Comments –

Chairperson Dunbar opened with brief comments regarding revisions that were requested by Moulton Niguel. He indicated that some of Moulton Niguel's previously suggested revisions had been incorporated into the May 12 Minutes, and the minutes were ready for approval. He welcomed other Committee Members comments prior to approving the May 12 Minutes.

- Committee Member Comments

Director Collings commented that he was not aware that all of the comments had been incorporated into the Minutes. He also stated that one of the comments was to include a copy of the check and Moulton Niguel's letter of May 12 as part of the Minutes. Discussion ensued.

ACTION TAKEN

Motion was made by Director Collings to approve the Minutes removing the word “voluntarily” from page 6, and adding the attachments to MNWD’s May 12 letter..

Mr. Jungreis stated there was a motion and asked if there was a second.

Mr. Jungreis stated to Chairperson Dunbar that since there was not a second, would there be a substitute motion to approve the Minutes as written subject to the revisions already made.

Substitute motion was made by Director Pietig and seconded by Chairperson Dunbar to approve the May12, 2017 Minutes as written with the following amendments:(1) to revise page 5, fifth full paragraph of the Minutes, to add a period after MNWD, and to strike the language reading “which is herewith attached to these minutes;” and (2) to remove the attachment of MNWD’s letter from the Minutes.

Motion carried:	Aye 3, Nay 1, Abstain 0, Absent 0
	Director Dunbar Aye
	Director Pietig Aye
	Director Brunhart Aye
	Director Collings Nay

The Project Committee No. 15 meeting entered Closed Session at 5:22 p.m.

Closed Session

A Closed Session was conducted for the following matter:

Existing Litigation per paragraph (1) of subdivision (d) of Government Code Section 54956.9, *Case of SOCWA, et al. v. Moulton Niguel Water District*
Case number 30-2017-00923143-CU-BC-CJC.

The Board meeting reconvened in Open Session at 7:27 p.m.

Report Out of Closed Session

There were no reportable actions from Closed Session.

Adjournment

There being no further business, Chairperson Dunbar adjourned the meeting at 7:28 p.m.

I HEREBY CERTIFY that the foregoing Minutes are a true and accurate copy of the Minutes of the Special Meeting of the South Orange County Wastewater Authority Project Committee No. 15 of September 27, 2017, and approved by the Project Committee No. 15 of the South Orange County Wastewater Authority.

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

Agenda Item

Budgeted: Yes

Budget amount: \$250,000 (for FY17-18)

Line Item: 5059 - PC-17

Legal Counsel Review: No

Meeting Date: December 7, 2017

TO: Board of Directors

FROM: Betty Burnett, General Manager

STAFF CONTACT: Jim Burror, Director of Operations

SUBJECT: Engine System Service Contract Award – Western Energy Systems
a division of Penn Detroit Diesel Allison, LLC. Regional Treatment Plant –
PC 17

Summary

SOCWA staff is requesting the award of a five (5) year contract with Western Energy Systems, a division of Penn Detroit Diesel Allison, LLC., (Western) to service SOCWA's newly installed engine/new power plant at RTP at a cost not to exceed \$300,000 per year, with annual CPI adjustments each year not to exceed 5%.

Discussion/Analysis

Vendor and Contract Provisions

Western is GE/Jenbacher's (GE/J) only authorized service representative for the Western United States. Staff contacted Western to get a sole source proposal from GE/J for engine maintenance services. Staff received a proposal from GE/J through Western. The contract pricing terms include two components as follows:

- \$17.70 per operating hour
- \$0.0208 per thousand kilowatt hours produced

The service contract includes recommended tasks (as shown on Attachment A), at recommended times, over a five (5) year period and up to 45,000 hours of engine operation.

Based on staff discussions with GE/J representatives and the design team, it is estimated that half of the service contract costs are for consumables (oil, spark plugs, bearings, coolant, gaskets, filters). This contract also requires the vendor to store these needed consumables on site to limit the amount of downtime associated with routine maintenance.

For comparison, to understand the significant increase in O&M activities for the new engine/power plant versus the old engine/blower tasks, the following is a list of the regular activities for the old engine/blower:

- Morning and afternoon manual data logging for 5 to 10 parameters.
- Visual and audio inspection of the engines once per day.

- Perform necessary periodic maintenance (e.g. leak repairs and replace bad components)
- Scheduled oil changes
- Scheduled spark plug changes
- Periodic valve adjustments
- Scheduled oil and air filter changes

Also, no certifications were required to perform any O&M tasks by the manufacturer for the old engine and blower.

New Engine/Power Plant Costs and Budgets

The newly installed GE/J engine/power plant at JBL requires significantly more maintenance funding than the old engine driven blower. The engineering report by HDR identified these costs in its financial assessment of the project to replace the old engine driven blower in 2013. That assessment included estimated O&M costs for the O&M Department to plan for in its budgets. Thus, the Co-gen budget will be increased to \$250,000 from \$69,000 in FY2017-18. The \$250,000 is for several planned contracts to maintain the new engine/power plant systems. This includes this proposed contract, and contracts for servicing the gas cleaning and the emissions control systems.

New Engine/Power Plant Maintenance Plan

The manufacture requires factory certified personnel to work on the new engine/power plant to maintain warranties on the equipment. All SOCWA staff to be involved with engine monitoring have received the Instructions at Commission Training. This training allows SOCWA staff to perform only the required monitoring tasks under this requested contract. Three (3) SOCWA staff members are scheduled to receive factory training to become certified operators of the equipment. These staff will be given user account information to operate and adjust the engine at their certification level.

To be fully certified by GE/J for all operations and maintenance activities on its engine/power plants, there are 17 courses ranging from 3 days to 10 days. The estimated cost to get personnel fully certified is estimated to be \$70,000, including lodging and travel to/from Waukesha, Wisconsin. Based on the scheduling of classes, these 17 classes could take about 3 years to complete. However, the highest-level classes will not be offered to our maintenance staff because there are pre-requisites including a degree in mechanical or electrical engineering that they don't possess.

Based on GE/J's extensive training program and pre-requisite requirements, SOCWA will be implementing a training program that is based on using an outside service provider to perform a majority of the maintenance services for the foreseeable future. SOCWA staff will receive the basic certification trainings to properly operate and monitor the new engine/power plant and effectively monitor the maintenance service provider. This will ensure that personnel working on the engine are as follows:

- Fully trained and certified for work to be performed.
- Have recent and relevant experience with performing services to be performed.

SOCWA will send staff to the necessary training courses to operate the equipment and administer the work under this contract. This will allow SOCWA to avoid the following:

- Investing up to \$70,000 per person for up to 3 staff members in factory training.

- Losing the value of this up to \$70,000 in training from retirements or changes in employment.
- Losing the value of equipment service repairs for items still under warranty.
- Extended service outages due to a lack of resources and/or experience in performing tasks.

In year 3 or 4 of this contract, prior to executing a new service contract, SOCWA staff will reassess the effectiveness and cost of this maintenance strategy.

Other Agencies Maintenance Strategies for GE/J Engine/Power Plants

Two other wastewater agencies that recently installed GE/J engines have also executed similar contracts with GE/J authorized vendors in the last 6 months. These agencies include the City of Bakersfield in California and Broward County in Florida. Union Sanitary District (USD), in the San Francisco Bay area, has recently switched to an on-call services contract for items above their staff's certification levels. USD's engines were installed over 2 years ago. USD's staff has been attending factory training sessions over the past 2 years to increase their abilities to perform O&M tasks and allow for this switch.

Prior Related Project Committee or Board Action(s)

In March of 2017 the Board approved a similar contract for the new engine at JBL (PC2).

Fiscal impact

None – This contract expense was anticipated within the PC-17 Co-Gen Maintenance budget for FY17-18. This contract will go into effect in February 2018 with about \$125,000 being charged in FY17-18.

Recommendation

Staff recommends the award of the engine/power plant system service contract with Western Energy Systems, a division of Penn Detroit Diesel Allison, LLC., with the following terms and conditions:

- 5-year term
- \$17.70 per engine operating hour
- \$0.0208 kilowatt hours (kWhe) produced
- First year annual contract costs shall not to exceed \$300,000
- Increases of contract prices shall be based on the CPI (consumer price index) for Los Angeles/Orange County area and shall not exceed 5% in any given year.

attachment

Attachment A

- Inspecting, re-gapping, and changing of spark plugs.
- Providing lube oil sample kits for use by Owner to draw oil samples per GE/J recommendations.
- Reviewing lube oil samples for Owner and provide comment as required.
- Reviewing owner daily entries and updating of Operating Logbook documents.
- Conducting coolant testing on an annual basis and provide reports to Owner.
- Performing lube oil and filter changes at defined GE/J maintenance intervals and provide all lube oil including makeup oil for Owner personnel routine maintenance.
- Removing cylinder kits and install new components inclusive of:
 - Pistons, piston rings, and piston cooling devices
 - Cylinder liners and scraper rings
 - New connecting rod bearings.

- Inspecting of connecting rods at 20,000 OPH. Install new connecting rod bolts.
- Providing and installing exchange connecting rods at 40,000 OPH only.
- Inspecting camshafts and cam follower assemblies. Installing new valve tappet adjusting screws and nuts.
- Providing up to 4 on-site troubleshooting callouts per year
- Removing and inspecting main bearings 40,000 OPH and replacement, if required.
- Inspecting Di.ANE (power plant computer system) controls, program settings; downloading operating systems for trend analysis and reviewing of system performance.
- Inspecting, adjusting and recording data for:
 - Intake and exhaust valve to valve lifter clearances
 - Intake and exhaust valve lash adjustments
 - Intake and exhaust valve stem projection (recession).

- Inspecting rocker arms, valve lifters, adjusting screws, tappets, and lock nuts
- Inspecting valve cover gaskets and replace as required.
- Inspecting, maintaining, and adjusting ignition systems inclusive of:
 - Inspecting and tightening connections and terminals at ignition box.
 - Inspecting ignition harness.
 - Inspecting ignition pickups for debris, clean as required, inspecting mounting distance.

- Inspecting ignition coils and record ignition voltages.
- Inspecting ignition plug sockets and springs.
- Inspecting and clean crankcase ventilation system, replace filter cartridge and media.
- Inspecting, cleaning, adjusting, and lubricating regulator rod linkage as required.
- Inspect, clean, and adjust the throttle valve. Inspect and install new bearings as required.
- Inspecting, cleaning, lubricating, and adjusting throttle valve: actuator control rod assemblies.
- Providing the lube oil and performing lube oil and filter changes at defined GE/J maintenance intervals. Western may, subject to Owner decision, provide all lube oil including makeup oil for Owner personnel routine maintenance.

- Inspecting plate and frame heat exchangers, measure and record differential pressures.
- Inspecting gas train filter, clean filter housing, and install new gas train filter element.
- Inspecting the electrical generator assembly, interior compartments, assembly, generator bearings, and generator coupling inclusive of.
 - Inspecting and lubricating generator bearings per manufacturer's requirements.
 - Inspecting and cleaning generator compartment, cooling air intake and outlets.
 - Inspecting auxiliary wiring for chafing and terminations.
 - Inspecting and checking surge suppressor varister and rectifier diodes per manufacturer's recommendations.

- Inspecting turbocharger, intake compressor housing and wheel assembly, exhaust housing and wheel assembly.
- Checking and recording end play to determine turbocharger condition.
- Inspecting engine cooling pump and check for wear and leaks.
- Inspecting electric starter motor for proper operation.
- Inspecting gas mixer assembly.
- Inspecting exhaust manifold assembly, inclusive of insulation, flexible compensators, and mounting hardware.

Agenda Item

Legal Counsel Review: N/A

Meeting Date: December 7, 2017

DATE: December 7, 2017
TO: Board of Directors
FROM: Betty Burnett, General Manager
SUBJECT: Investment Policy for Public Funds

Background

SOCWA staff received a recommendation from DavisFarr, independent auditing firm for the 2015-16 fiscal year audit, to bring forward to the Board a revised Investment Policy for Public Funds updated to 2017. Government Code Section 53600 governs public agency investing for districts, and whereas SOCWA is, pursuant to Section 3.4 of the Joint Powers Agreement, empowered to act as a California Water District, therefore Section 53600 et seq. applies to SOCWA.

This is an administrative matter as SOCWA's approach to collecting and depositing member agency funding is largely unchanged from past practices whereby LAIF is the core investment vehicle for SOCWA held deposits.

This item was presented to the Finance Committee on September 21, 2017. Moulton Niguel representative requested a time to review the item further and carry it over to the October 31, 2017 Finance Committee meeting where it was approved.

Recommendation Action

- 1) SOCWA Finance Committee and staff recommends to the Board of Directors adoption of Resolution 2017-09, A Resolution of the South Orange County Wastewater Authority (SOCWA) Adopting Investment Policy for Public Funds

attachments: Draft Policy Addressing the Application of the SOCWA Joint Powers Agreement for Distribution of the Costs to Member Agencies, and the attached 2005 Capitalization Policy

RESOLUTION NO. 2017-09

RESOLUTION OF THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY
(SOCWA)
ADOPTING INVESTMENT POLICY
FOR PUBLIC FUNDS

WHEREAS, the South Orange County Wastewater Authority (SOCWA) was created on July 1, 2001 as a Joint Powers Authority under the laws of the State of California; and

WHEREAS, pursuant to Government Code Section 53646, the General Manager of SOCWA may annually render to the legislative body of the local agency a Statement of Investment Policy; and

WHEREAS, the SOCWA Board of Directors desires to update the previous Investment Policy for Public Funds approved via Resolution 2007-05 and repeal and replace same; and

WHEREAS, pursuant to Government Code Section 53646, the General Manager of SOCWA may report either monthly or quarterly to the Board of Directors as to the type of investment, issuer, institution, date of maturity, amount of deposit, current market value for all securities and rate of interest; and

WHEREAS, the SOCWA Board of Directors desires that the required report be prepared to report in monthly cycles.

NOW, THEREFORE, BE IT RESOLVED by the Board of Directors of the South Orange County Wastewater Authority ("SOCWA") that the Investment Policy, as described in Exhibit "A" attached hereto and incorporated herein by reference as though fully set forth, is hereby adopted as the Investment Policy of SOCWA and further, that the General Manager accomplish the annual and monthly statements and reports provided for in this Resolution in accordance with California Government Code Section 53646.

FURTHER, Resolution 2007-05 is hereby repealed.

ADOPTED, SIGNED, and APPROVED this 7th day of December, 2017.

SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

President:

Secretary:

Investment Policy For Public Funds



~~September 2017~~ December 7, 2017

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 <small>South Orange County Wastewater Authority</small>	POLICY NUMBER 2017-XX
Agency Policy	Title: Investment Policy for Public Funds
Revised: September XX December 7, 2017	Path: XX

TABLE OF CONTENTS

- 1. Purpose of Policy**
- 2. Objective**
- 3. General Policy**
- 4. Delegation of Authority**
- 5. Ethics and Conflicts of Interests**
- 6. Authorized Financial Institutions**
- 7. Safekeeping and Custody**
- 8. Reporting Guidelines**
- 9. Policy Revisions**
- 10. Policy Approval and Adoption**

 <small>South Orange County Wastewater Authority</small>	POLICY NUMBER 2017-XX
Agency Policy	Title: Investment Policy for Public Funds
Revised: September XX December 7, 2017	Path: XX

1. PURPOSE OF POLICY

This statement is intended to provide guidelines to the Agency General Manager for the prudent investment of the South Orange County Wastewater Authority’s (“SOCWA”) available funds, and to outline policies for the safe and prudent management of SOCWA funds without sacrificing safety or liquidity. The Finance Committee will review this Policy annually, and if advisable, will recommend changes for approval of -the Board of Directors.

2. OBJECTIVE

SOCWA’s cash management system is designed to accurately monitor and forecast expenditures and revenues. All funds will be invested with the intent of maximizing safety and liquidity.

3. GENERAL POLICY

SOCWA invests member agency funds deposited with SOCWA in accordance with the prudent investor standard, Government Code Section 53600.3, which states:


“When investing, reinvesting, purchasing, acquiring, exchanging, selling or managing public funds, a trustee shall act with care, skill, prudence and diligence under the circumstances then prevailing, including but not limited to the general economic conditions and the anticipated needs of the agency, that a prudent person acting in a like capacity and familiarity with those matters would use in the conduct of funds of a like character and with like aims, to safeguard the principal and maintain the liquidity needs of the agency. Within the limitations of this section and considering individual investments as part of an overall strategy, investments may be acquired as authorized by law.”

As long as the investment complies with the aforesaid standard and is allowable under current statutes of the State of California (Government Code Section 53600 et seq.), SOCWA has a range of investment opportunities.

Investments may be made in the following:

(See Attachment A-1)


The list of permitted investments under ~~A~~attachment A-1 does not include all of those which are permitted under the California Government Code; rather this list includes the securities which are most appropriate to SOCWA. Specific limitations on these investments are specified.

 Agency Policy	POLICY NUMBER 2017-XX
Revised: September XX December 7, 2017	Title: Investment Policy for Public Funds Path: XX

Criteria for selecting investments and order of priority are:

- a) Safety. The Safety and risk associated with an investment refer to the potential loss of principal, interest, or a combination of these amounts. SOCWA only operates in those investments that are considered very safe.
- b) Liquidity. This refers to the ability to “cash in” at any moment in time with a minimal chance of losing some portion of principal or interest. Liquidity is an important investment quality especially when the need for unexpected funds occurs.
- c) Yield. Yield is potential dollar earnings an investment can provide, and sometimes is described as the rate of return.
- d) Safekeeping. Securities purchased from brokers/dealers shall be held in third party safekeeping by that trust department of the local agency’s bank or other designated third party trust, in local agencies name and control whenever possible.
- e) Investment objective. The cash management system of SOCWA is designed to accurately monitor and forecast expenditures and revenues, thus insuring the investment of monies to the fullest extent possible. SOCWA attempts to obtain the highest interest yields possible as long as investments meet the criteria required for safety and liquidity.
- f) Maximum Secured Investment. SOCWA may invest in Certificates of Deposit up to a maximum amount of \$250,000 per institution. SOCWA will rely on the FDIC \$250,000 insured limit to obtain security on the invested funds and will request that interest earned be paid monthly, in order to reduce the risk of loss interest.
- g) Should premature cancellation of an investment vehicle (under Attachment A-~~24~~) become necessary, the General Manager shall consult with either the Finance Committee, the Finance Committee Chairman, or the Board Chairman as time allows and determine the appropriate action to ensure the safety of SOCWA deposits. The SOCWA Finance Committee will be notified as soon as possible of the steps taken.

All member agency funds, to be invested, will be held in the California State local Agency Investment Fund (LAIF) unless the General Manager is instructed by the Finance Committee to invest in the investment vehicles listed in Attachment A-2. Staff would then present proposals to the Finance Committee, outlining the specifics of any investments to be made that meet the requirements of this policy. Upon approval, from the Finance Committee, investments will be made as soon as funds can be transferred. Any changes to investments

 <small>South Orange County Wastewater Authority</small>	POLICY NUMBER 2017-XX
Agency Policy	Title: Investment Policy for Public Funds
Revised: September XX December 7, 2017	Path: XX

approved by the Finance Committee will be reported to the Board of Directors at the next meeting of the Board of Directors.

4. DELEGATION OF AUTHORITY

Authority to manage SOCWA's investment program is derived from the approval of Resolution No. 2017-08 ~~-Adopting Investment Policy for+~~ Public Funds. Management responsibility for the program is hereby delegated to the General Manager of SOCWA who, pursuant to the approved terms under this Policy, ~~-has established -investment program~~ procedures and span of control requirements for staff. No person may engage in an investment transaction except as provided under the terms of this policy.

Broker/Dealers will be avoided whenever possible, unless specifically authorized by the Finance Committee.

5. ETHICS AND CONFLICTS OF INTERESTS


Officers and employees involved in the investment process shall refrain from personal business activity that could conflict with proper execution of the investment program, or which could impair their ability to make impartial investment decisions. Employees shall disclose to the General Manager any material financial interests in financial institutions that conduct business within the SOCWA jurisdiction, and they shall further disclose any personal financial/investment positions or interests related to the performance of the SOCWA's portfolio. Employees and officers shall subordinate their personal investment transactions to those of SOCWA, particularly with regard to the time of purchases and sales. These requirements are in addition to other conflict of interest rules that may otherwise apply.

6. AUTHORIZED FINANCIAL INSTITUTIONS

No public deposits shall be made except in a qualified public depository as established by state law. No Certificate Deposit shall be placed with any institution unless such deposit is FDIC insured.

7. SAFEKEEPING AND CUSTODY

All security transactions entered into by the SOCWA shall be conducted on a delivery-versus payment (DVP) basis. A third-party custodian designated by the General Manager and evidenced by safekeeping receipt will hold securities.

 <small>South Orange County Wastewater Authority</small>	POLICY NUMBER 2017-XX
Agency Policy	Title: Investment Policy for Public Funds
Revised: September XX December 7, 2017	Path: XX

8. REPORTING GUIDELINES

In accordance with Government Code 53646, the General Manager shall submit to the ~~Finance Committee~~ Board of Directors a monthly investment report. The report shall include a complete description of the portfolio including: the type of investments, the issuers, maturity dates, par values and the current market values of each component of the portfolio.

The report will also include the source of the portfolio valuation (with the exception of LAIF). As specified in Government Code 53646(e), if all funds are placed in the State LAIF or FDIC-insured accounts, copies of the latest statements from such institutions may be provided in lieu of the foregoing report elements. The report must also include a certification that (1) all investment actions executed since the last report have been made in full compliance with this Policy, and (2) SOCWA will meet its expenditure obligations for the next six months, or provide an explanation as to why money monies shall or may not be available. The General Manager shall maintain a complete and timely record of all investment transactions.

9. POLICY REVISIONS

This Policy will be reviewed ~~periodically~~ annually by the General Manager and the Finance Controller in consultation with the Agency’s legal counsel and the Finance Committee. Updates to the Attachments, A-1 and A-2 will occur whenever applicable federal, state or local regulations change or otherwise as the need arises. This Policy may only be revised by the Board of Directors.

10. POLICY APPROVAL AND ADOPTION

This Policy has been reviewed by the SOCWA Board of Director’s and adopted by Resolution 2017-08 on ~~October 6~~ December 7, 2017.

EXHIBIT A-1

**SOUTH ORANGE COUNTY WASTEWATER AUTHORITY
INVESTMENT POLICY – November 2, 2017**

Type of Investment	Major Provisions	Additional Restrictions imposed by SOCWA
Local Agency investment Fund (LAIF)	Permits a local agency to deposit funds with the State Treasurer for the purpose of investment in securities prescribed in Government Code Section 16430. (Government code Section 16429.1 et seq.)	None. Note: Current maximum deposit set by LAIF is \$40 million dollars.
Passbook Savings Account Demand Deposits	Savings in federally insured Banks and Thrifts insured by the FDIC. All funds exceeding \$250,000.00 at any time must be collateralized according to state statutes.	None.

Exhibit A-2
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY
INVESTMENT POLICY – November 2, 2017

Type of Investment	Major Provisions	Additional Restrictions imposed by SOCWA
Negotiable Certificate of Deposits	Permits a local agency to deposit funds in certificates of deposit in accordance with the requirements of Government Code 53601(i)	In compliance with Statute.
U.S. Treasury Notes	Permits a local agency to deposit funds in U.S. Treasury Notes in accordance with Government Code Section 53601(b)	In compliance with Statute.
Other Joint Powers Agency Investments	Permits a local agency to deposit funds with Other California Joint Powers Agency Investment programs in accordance with Government Code Section 53601(p)	In compliance with Statute.

Agenda Item

Legal Counsel Review: N/A

Meeting Dates: December 6, 2017 Finance Committee
December 7, 2017 Board Meeting

DATE: December 6, 2017
TO: Finance Committee and Board of Directors
FROM: Betty Burnett, General Manager
SUBJECT: Current FY General Budget of \$365,323 – Policy/Expense/Percentage Decisions

Summary

The Board of Directors requested that the Finance Committee take up the matter of the General Budget as adopted at the June 14, 2017 Board of Directors meeting during the first quarter of fiscal year 2017-18.

At the August 29, 2017, meeting of the Finance Committee the Committee discussed the matter and requested that this item return to the Finance Committee agenda at the September 21, 2017 Committee Meeting for further discussion.

On September 21, 2017, the Trabuco Canyon Water District (TCWD) representative provided a presentation on a potential approach to revising the General Budget. The Finance Committee requested that TCWD provide a presentation to the Board at the October 5, 2017 meeting and explain TCWD's conceptual approach. TCWD representatives requested more time to work on the item. Therefore, the item is returning to the Finance Committee and the Board at the December meetings.

The TCWD approach would divide the items identified by MNWD as General Fund Expenses (total of \$365,323, and as proposed by TCWD to be increased to \$442,962) by a fraction representing 1/47 for purposes of establishing a unit value/percent that is representative of agencies participation (units = per agency per project committee).

Staff Discussion

Board discussion on June 14, 2017 included consideration of possible policy objectives:

- 1) Prepare the General Budget as a baseline cost of legal compliance for a JPA and related costs thereto, or
- 2) Set a baseline for costs of maintaining the JPA as an organization assuming a scenario where there is no flow, or
- 3) Other

At the June 14, 2017, Board of Directors meeting the General Budget was approved based on costs and assigned equal percentages as shown in Table 1 (distributing \$365,323 in costs or \$36,532 per agency).

However, different project committees may have differing administrative support costs due to differences in purchasing and contracting needs, differences in personnel requirements,

differences in board/committee level matters, outside coordination or regional effort required, etc.

A positive aspect of the TCWD approach is that it takes into account the number of project committees each member agency participates in as a factor in determining the benefit received from the JPA.

Recommendation

- 1) Presentation of Trabuco Canyon Water District
- 2) Discussion and recommendations for further consideration
- 3) Committee Action
- 4) Board Action

Table 1

Expense	Staff Proposed % (on 6/14/17)	Staff Proposed Amount	Board Approved % on 6/14/17	Board Approved Amount 6/14/17
Public Notices	100%	\$1,400	100%	\$1,400
Office Equipment	20%	\$1,800	100%	\$8,000
Audit	50%	\$17,500	100%	\$35,000
Legal (Admin)	20%	\$18,000	40%	\$36,000
Outside Services (Records Mgt.)	100%	\$2,016	100%	\$2,016
Postage			20%	\$142
Office Supplies	20%	\$1,500	100%	\$7,500
Miscellaneous	20%	\$2,800	20%	\$2,800
IT Allocation	5.5%	\$6,109	5%	\$5,568
GM Payroll	32 hours per month	\$149,496	50%	\$266,897
Executive Asst.	48 hours per month		50%	
Finance Controller	5% of salary		5% of salary	
Total		\$184,392		\$365,323

Consistent with the terms of the JPA Agreement, the policy directing the sharing of expenses and percentages is as determined by the Board and subject to the approval of a simple majority of the Board. However, if the General Budget expenses are shared on some other basis than equal allocation among the 10-member agencies (i.e. \$36,532 per agency), then unanimous consent of all agencies is required to adopt the General Budget.



TCWD's 2017/18 SOCWA Budget Participation Update

December 6, 2017 Finance Committee

December 7, 2017 Board meeting

Summary

- At the June 14th Board Meeting SOCWA adopted a budget that increased TCWD's participation by 138%
- TCWD opposed the budget on the grounds it was hastily established without sufficient cost allocation/justification
- TCWD is committed to our participation in SOCWA, but the General Fund budget must be equitable.
- All SOCWA member agencies are committed to continue exploring concepts

Concept

- SOCWA should provide the efficiency of a JPA
- Any agency' s participation in SOCWA should provide cost benefits
- There are three main areas of SOCWA Services/Infrastructure
 - Permitting, Treatment and Outfalls
- A fair approach could be allocated based on PC participation

Reducing the Uncertainties of the Current General Fund Approach

Expense	Staff Proposed % (on 6/14/17)	Staff Proposed Amount	Board Approved % on 6/14/17	Board Approved Amount 6/14/17	Pre-Allocated Cost (\$)
Public Notices	100%	\$1,400	100%	\$1,400	\$ 1,400.00
Office Equipment	20%	\$1,800	100%	\$8,000	\$ 8,000.00
Audit	50%	\$17,500	100%	\$35,000	\$ 35,000.00
Legal (Admin)	20%	\$18,000	40%	\$36,000	\$ 90,000.00
Outside Services (Records Mgt.)	100%	\$2,016	100%	\$2,016	\$ 2,016.00
Postage			20%	\$142	\$ 710.00
Office Supplies	20%	\$1,500	100%	\$7,500	\$ 7,500.00
Miscellaneous	20%	\$2,800	20%	\$2,800	\$ 14,000.00
IT Allocation	5.5%	\$6,109	5%	\$5,568	\$111,360.00
GM Payroll	32 hours per month	\$149,496	50%	\$266,897	\$172,976.20
Executive Asst.	48 hours per month		50%		
Finance Controller	5% of salary		5% of salary		
Total		\$184,392		\$365,323	\$442,962.20

Project Committee Participation Approach



- Using the number of distinct agency participations within SOCWA
- 47 Total PC Participations

Project Committee Participation Approach

Agency	Project Committee Participation											Total PC's by Agency (#)	Total PC's by Agency (%)
	Permitting	Outfalls							Plants				
	PC2SO	PC8	PC 21 B,C &D	PC 21 E	PC 10	PC 23	PC 5	PC 24	PC2	PC 15	PC17		
El Toro Water District		1	1	1				1			1	5	10.64%
Emerald Bay Service District		1					1	1		1	1	5	10.64%
Irvine Ranch Water District	1	1	1	1				1				5	10.64%
City of Laguna Beach		1					1	1		1	1	5	10.64%
Moulton Niguel Water District	1	1		1			1	1	1	1	1	8	17.02%
City of San Clemente		1			1		1					3	6.38%
City of San Juan Capistrano	1	1					1		1			4	8.51%
Santa Margarita Water District	1	1					1		1			4	8.51%
South Coast Water District	1	1					1	1	1	1	1	7	14.89%
Trabuco Canyon Water District	1											1	2.13%
Total by PC's (#)	6	9	2	3	1	2	5	6	4	4	5	47	100.00%

- This matrix reflects the actual number of PC participations and percentages by agency within SOCWA

Proposed ETWD, EBSD, IRWD & CoLB General Fund Based on Five PC Participations

	Pre-Allocated Cost (\$)	Fixed Allocation (%)	Post-Allocated Fixed Cost (\$)	Fixed General Fund Allocation per Agency (%)	Fixed General Fund Baseline (\$)	Variable General Fund Allocation by Participation (%)	Variable General Fund by Participation (\$) ¹	Total General Fund
Public Notices	\$ 1,400.00	10.00%	\$ 140.00	10%	\$ 14.00	10.64%	\$134.04	\$ 148.04
Office Equipment	\$ 8,000.00	10.00%	\$ 800.00	10%	\$ 80.00	10.64%	\$765.96	\$ 845.96
Audit	\$ 35,000.00	10.00%	\$ 3,500.00	10%	\$ 350.00	10.64%	\$3,351.06	\$ 3,701.06
Legal (Admin)	\$ 90,000.00	10.00%	\$ 9,000.00	10%	\$ 900.00	10.64%	\$8,617.02	\$ 9,517.02
Outside Services (Records Mgt.)	\$ 2,016.00	10.00%	\$ 201.60	10%	\$ 20.16	10.64%	\$193.02	\$ 213.18
Postage	\$ 710.00	10.00%	\$ 71.00	10%	\$ 7.10	10.64%	\$67.98	\$ 75.08
Office Supplies	\$ 7,500.00	10.00%	\$ 750.00	10%	\$ 75.00	10.64%	\$718.09	\$ 793.09
Miscellaneous	\$ 14,000.00	10.00%	\$ 1,400.00	10%	\$ 140.00	10.64%	\$1,340.43	\$ 1,480.43
IT Allocation	\$ 111,360.00	10.00%	\$ 11,136.00	10%	\$ 1,113.60	10.64%	\$10,662.13	\$ 11,775.73
GM Payroll								
Executive Asst.	\$ 172,976.20	10.00%	\$ 17,297.62	10%	\$ 1,729.76	10.64%	\$16,561.55	\$ 18,291.31
Finance Controller								
						Total General Fund: \$ 46,840.90		

1. Applied to the remaining % of the Pre-Allocated Cost, after the General Fund Baseline %.

Proposed MNWD General Fund Based on Eight PC Participations

	Pre-Allocated Cost (\$)	Fixed Allocation (%)	Post-Allocated Fixed Cost (\$)	Fixed General Fund Allocation per Agency (%)	Fixed General Fund Baseline (\$)	Variable General Fund Allocation by Participation (%)	Variable General Fund by Participation (\$) ¹	Total General Fund
Public Notices	\$ 1,400.00	10.00%	\$ 140.00	10%	\$ 14.00	17.02%	\$214.47	\$ 228.47
Office Equipment	\$ 8,000.00	10.00%	\$ 800.00	10%	\$ 80.00	17.02%	\$1,225.53	\$ 1,305.53
Audit	\$ 35,000.00	10.00%	\$ 3,500.00	10%	\$ 350.00	17.02%	\$5,361.70	\$ 5,711.70
Legal (Admin)	\$ 90,000.00	10.00%	\$ 9,000.00	10%	\$ 900.00	17.02%	\$13,787.23	\$ 14,687.23
Outside Services (Records Mgt.)	\$ 2,016.00	10.00%	\$ 201.60	10%	\$ 20.16	17.02%	\$308.83	\$ 328.99
Postage	\$ 710.00	10.00%	\$ 71.00	10%	\$ 7.10	17.02%	\$108.77	\$ 115.87
Office Supplies	\$ 7,500.00	10.00%	\$ 750.00	10%	\$ 75.00	17.02%	\$1,148.94	\$ 1,223.94
Miscellaneous	\$ 14,000.00	10.00%	\$ 1,400.00	10%	\$ 140.00	17.02%	\$2,144.68	\$ 2,284.68
IT Allocation	\$ 111,360.00	10.00%	\$ 11,136.00	10%	\$ 1,113.60	17.02%	\$17,059.40	\$ 18,173.00
GM Payroll								
Executive Asst.	\$ 172,976.20	10.00%	\$ 17,297.62	10%	\$ 1,729.76	17.02%	\$26,498.48	\$ 28,228.24
Finance Controller								
						Total General Fund: \$ 72,287.66		

1. Applied to the remaining % of the Pre-Allocated Cost, after the General Fund Baseline %.

Proposed CoSC General Fund Based on Three PC Participations

	Pre-Allocated Cost (\$)	Fixed Allocation (%)	Post-Allocated Fixed Cost (\$)	Fixed General Fund Allocation per Agency (%)	Fixed General Fund Baseline (\$)	Variable General Fund Allocation by Participation (%)	Variable General Fund by Participation (\$) ¹	Total General Fund
Public Notices	\$ 1,400.00	10.00%	\$ 140.00	10%	\$ 14.00	6.38%	\$80.43	\$ 94.43
Office Equipment	\$ 8,000.00	10.00%	\$ 800.00	10%	\$ 80.00	6.38%	\$459.57	\$ 539.57
Audit	\$ 35,000.00	10.00%	\$ 3,500.00	10%	\$ 350.00	6.38%	\$2,010.64	\$ 2,360.64
Legal (Admin)	\$ 90,000.00	10.00%	\$ 9,000.00	10%	\$ 900.00	6.38%	\$5,170.21	\$ 6,070.21
Outside Services (Records Mgt.)	\$ 2,016.00	10.00%	\$ 201.60	10%	\$ 20.16	6.38%	\$115.81	\$ 135.97
Postage	\$ 710.00	10.00%	\$ 71.00	10%	\$ 7.10	6.38%	\$40.79	\$ 47.89
Office Supplies	\$ 7,500.00	10.00%	\$ 750.00	10%	\$ 75.00	6.38%	\$430.85	\$ 505.85
Miscellaneous	\$ 14,000.00	10.00%	\$ 1,400.00	10%	\$ 140.00	6.38%	\$804.26	\$ 944.26
IT Allocation	\$ 111,360.00	10.00%	\$ 11,136.00	10%	\$ 1,113.60	6.38%	\$6,397.28	\$ 7,510.88
GM Payroll								
Executive Asst.	\$ 172,976.20	10.00%	\$ 17,297.62	10%	\$ 1,729.76	6.38%	\$9,936.93	\$ 11,666.69
Finance Controller								
						Total General Fund: \$ 29,876.39		

1. Applied to the remaining % of the Pre-Allocated Cost, after the General Fund Baseline %.

Proposed CoSJC and SMWD General Fund Based on Four PC Participations

	Pre-Allocated Cost (\$)	Fixed Allocation (%)	Post-Allocated Fixed Cost (\$)	Fixed General Fund Allocation per Agency (%)	Fixed General Fund Baseline (\$)	Variable General Fund Allocation by Participation (%)	Variable General Fund by Participation (\$) ¹	Total General Fund
Public Notices	\$ 1,400.00	10.00%	\$ 140.00	10%	\$ 14.00	8.51%	\$107.23	\$ 121.23
Office Equipment	\$ 8,000.00	10.00%	\$ 800.00	10%	\$ 80.00	8.51%	\$612.77	\$ 692.77
Audit	\$ 35,000.00	10.00%	\$ 3,500.00	10%	\$ 350.00	8.51%	\$2,680.85	\$ 3,030.85
Legal (Admin)	\$ 90,000.00	10.00%	\$ 9,000.00	10%	\$ 900.00	8.51%	\$6,893.62	\$ 7,793.62
Outside Services (Records Mgt.)	\$ 2,016.00	10.00%	\$ 201.60	10%	\$ 20.16	8.51%	\$154.42	\$ 174.58
Postage	\$ 710.00	10.00%	\$ 71.00	10%	\$ 7.10	8.51%	\$54.38	\$ 61.48
Office Supplies	\$ 7,500.00	10.00%	\$ 750.00	10%	\$ 75.00	8.51%	\$574.47	\$ 649.47
Miscellaneous	\$ 14,000.00	10.00%	\$ 1,400.00	10%	\$ 140.00	8.51%	\$1,072.34	\$ 1,212.34
IT Allocation	\$ 111,360.00	10.00%	\$ 11,136.00	10%	\$ 1,113.60	8.51%	\$8,529.70	\$ 9,643.30
GM Payroll								
Executive Asst.	\$ 172,976.20	10.00%	\$ 17,297.62	10%	\$ 1,729.76	8.51%	\$13,249.24	\$ 14,979.00
Finance Controller								
						Total General Fund: \$ 38,358.64		

1. Applied to the remaining % of the Pre-Allocated Cost, after the General Fund Baseline %.

Proposed SCWD General Fund Based on Seven PC Participations

	Pre-Allocated Cost (\$)	Fixed Allocation (%)	Post-Allocated Fixed Cost (\$)	Fixed General Fund Allocation per Agency (%)	Fixed General Fund Baseline (\$)	Variable General Fund Allocation by Participation (%)	Variable General Fund by Participation (\$)¹	Total General Fund
Public Notices	\$ 1,400.00	10.00%	\$ 140.00	10%	\$ 14.00	14.89%	\$187.66	\$ 201.66
Office Equipment	\$ 8,000.00	10.00%	\$ 800.00	10%	\$ 80.00	14.89%	\$1,072.34	\$ 1,152.34
Audit	\$ 35,000.00	10.00%	\$ 3,500.00	10%	\$ 350.00	14.89%	\$4,691.49	\$ 5,041.49
Legal (Admin)	\$ 90,000.00	10.00%	\$ 9,000.00	10%	\$ 900.00	14.89%	\$12,063.83	\$ 12,963.83
Outside Services (Records Mgt.)	\$ 2,016.00	10.00%	\$ 201.60	10%	\$ 20.16	14.89%	\$270.23	\$ 290.39
Postage	\$ 710.00	10.00%	\$ 71.00	10%	\$ 7.10	14.89%	\$95.17	\$ 102.27
Office Supplies	\$ 7,500.00	10.00%	\$ 750.00	10%	\$ 75.00	14.89%	\$1,005.32	\$ 1,080.32
Miscellaneous	\$ 14,000.00	10.00%	\$ 1,400.00	10%	\$ 140.00	14.89%	\$1,876.60	\$ 2,016.60
IT Allocation	\$ 111,360.00	10.00%	\$ 11,136.00	10%	\$ 1,113.60	14.89%	\$14,926.98	\$ 16,040.58
GM Payroll								
Executive Asst.	\$ 172,976.20	10.00%	\$ 17,297.62	10%	\$ 1,729.76	14.89%	\$23,186.17	\$ 24,915.93
Finance Controller								
						Total General Fund: \$ 63,805.41		

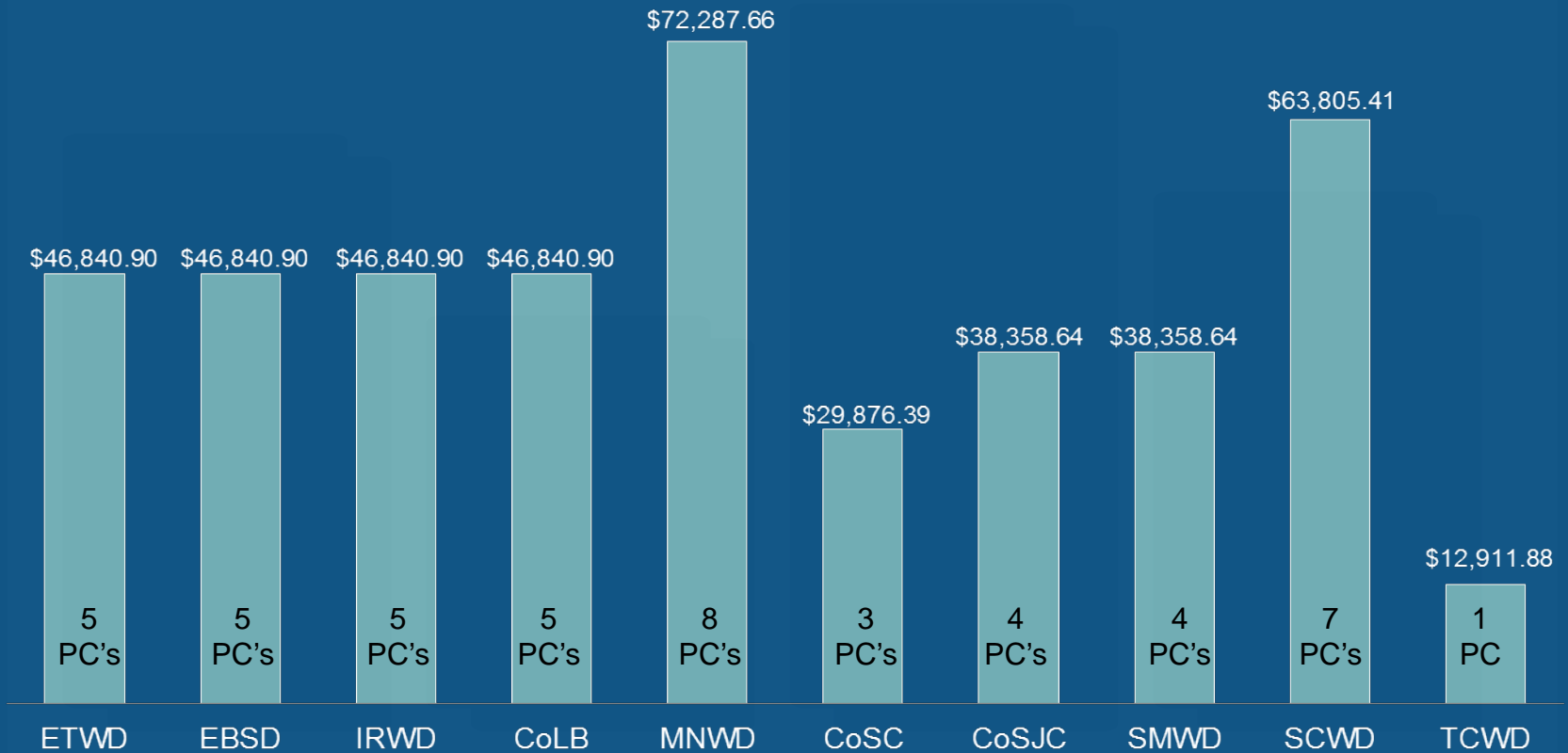
1. Applied to the remaining % of the Pre-Allocated Cost, after the General Fund Baseline %.

Proposed TCWD General Fund Based on One PC Participation

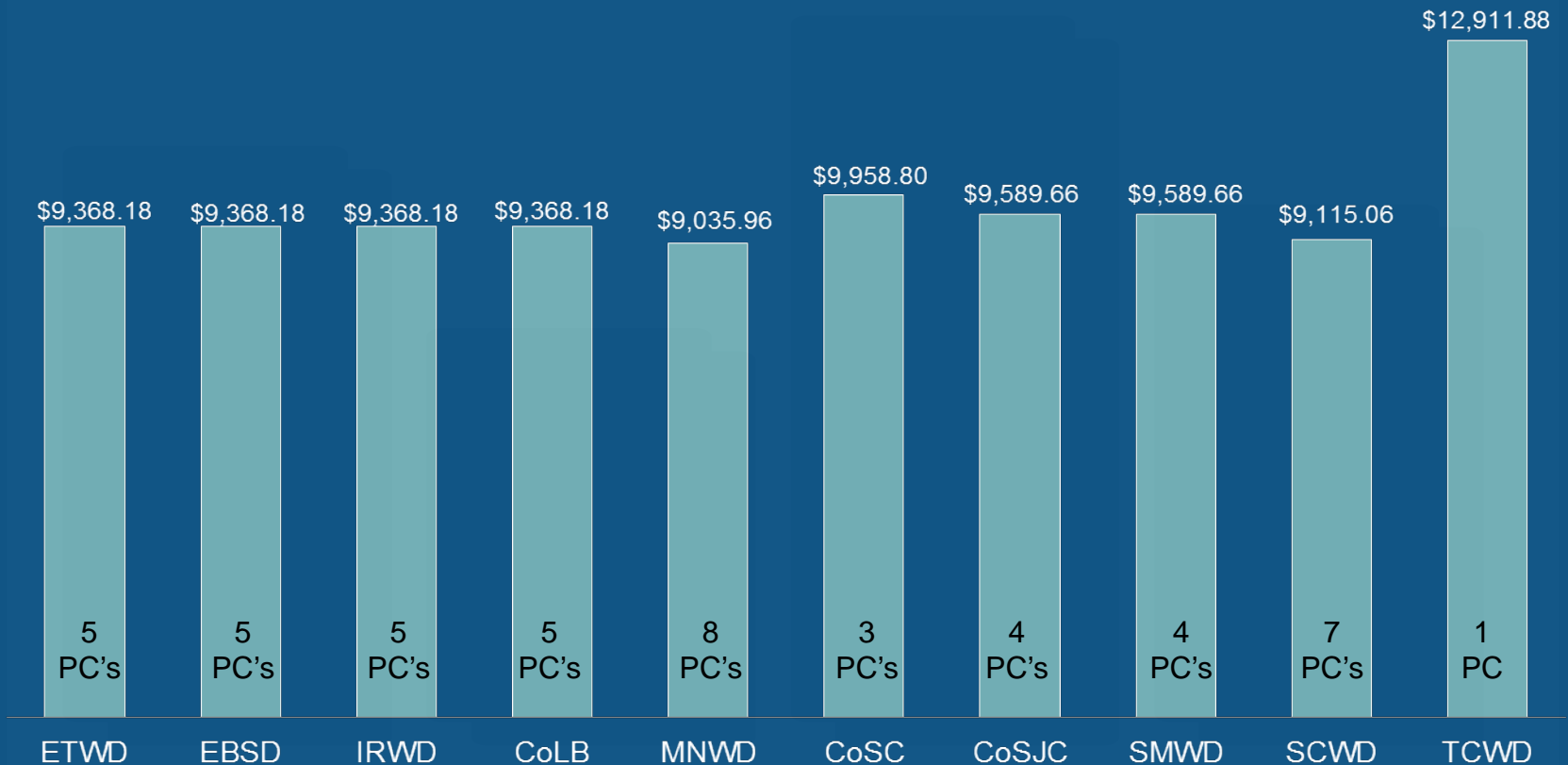
	Pre-Allocated Cost (\$)	Fixed Allocation (%)	Post-Allocated Fixed Cost (\$)	Fixed General Fund Allocation per Agency (%)	Fixed General Fund Baseline (\$)	Variable General Fund Allocation by Participation (%)	Variable General Fund by Participation (\$)¹	Total General Fund
Public Notices	\$ 1,400.00	10.00%	\$ 140.00	10%	\$ 14.00	2.13%	\$26.81	\$ 40.81
Office Equipment	\$ 8,000.00	10.00%	\$ 800.00	10%	\$ 80.00	2.13%	\$153.19	\$ 233.19
Audit	\$ 35,000.00	10.00%	\$ 3,500.00	10%	\$ 350.00	2.13%	\$670.21	\$ 1,020.21
Legal (Admin)	\$ 90,000.00	10.00%	\$ 9,000.00	10%	\$ 900.00	2.13%	\$1,723.40	\$ 2,623.40
Outside Services (Records Mgt.)	\$ 2,016.00	10.00%	\$ 201.60	10%	\$ 20.16	2.13%	\$38.60	\$ 58.76
Postage	\$ 710.00	10.00%	\$ 71.00	10%	\$ 7.10	2.13%	\$13.60	\$ 20.70
Office Supplies	\$ 7,500.00	10.00%	\$ 750.00	10%	\$ 75.00	2.13%	\$143.62	\$ 218.62
Miscellaneous	\$ 14,000.00	10.00%	\$ 1,400.00	10%	\$ 140.00	2.13%	\$268.09	\$ 408.09
IT Allocation	\$ 111,360.00	10.00%	\$ 11,136.00	10%	\$ 1,113.60	2.13%	\$2,132.43	\$ 3,246.03
GM Payroll								
Executive Asst.	\$ 172,976.20	10.00%	\$ 17,297.62	10%	\$ 1,729.76	2.13%	\$3,312.31	\$ 5,042.07
Finance Controller								
						Total General Fund: \$ 12,911.88		

1. Applied to the remaining % of the Pre-Allocated Cost, after the General Fund Baseline %.

Proposed SOCWA General Fund Budgets by Agency



Proposed SOCWA General Fund Budgets per Agency's PC Participation



Project Committee Participation Approach

	Pre-Allocated Cost (\$)	Fixed Allocation (%)	Post-Allocated Fixed Cost (\$)	Fixed General Fund Allocation per Agency (%)	Fixed General Fund Baseline (\$)	Variable General Fund Allocation by Participation (%)	Variable General Fund by Participation (\$)¹	Total General Fund
Public Notices	\$ 1,400.00	10.00%	\$ 140.00	10%	\$ 14.00	2.13%	\$26.81	\$ 40.81
Office Equipment	\$ 8,000.00	10.00%	\$ 800.00	10%	\$ 80.00	2.13%	\$153.19	\$ 233.19
Audit	\$ 35,000.00	10.00%	\$ 3,500.00	10%	\$ 350.00	2.13%	\$670.21	\$ 1,020.21
Legal (Admin)	\$ 90,000.00	10.00%	\$ 9,000.00	10%	\$ 900.00	2.13%	\$1,723.40	\$ 2,623.40
Outside Services (Records Mgt.)	\$ 2,016.00	10.00%	\$ 201.60	10%	\$ 20.16	2.13%	\$38.60	\$ 58.76
Postage	\$ 710.00	10.00%	\$ 71.00	10%	\$ 7.10	2.13%	\$13.60	\$ 20.70
Office Supplies	\$ 7,500.00	10.00%	\$ 750.00	10%	\$ 75.00	2.13%	\$143.62	\$ 218.62
Miscellaneous	\$ 14,000.00	10.00%	\$ 1,400.00	10%	\$ 140.00	2.13%	\$268.09	\$ 408.09
IT Allocation	\$ 111,360.00	10.00%	\$ 11,136.00	10%	\$ 1,113.60	2.13%	\$2,132.43	\$ 3,246.03
GM Payroll	\$ 172,976.20	10.00%	\$ 17,297.62	10%	\$ 1,729.76	2.13%	\$3,312.31	\$ 5,042.07
Executive Asst.								
Finance Controller								
						Total General Fund: \$ 12,911.88		

1. Applied to the remaining % of the Pre-Allocated Cost, after the General Fund Baseline %.

Proposed TCWD SOCWA Budget

	TCWD Total SOCWA Budgets	
	Current FY 2017-18	Final Revised FY 2017-18
O&M Environmental, Safety Expenses	\$ 24,824	9241
Member Agency Administration & Residual Engineering Expenses	\$ 2,844	\$ 2,844
Member Agency General Fund Expenses	\$ 36,532	\$ 12,911.88
TOTAL - O&M Environmental, Safety Expenses PLUS Member Agency Administration, Residual Engineering Expenses & General Fund Expenses	\$ 64,200	\$ 24,996.88

Key Considerations

- This approach is based on quantifiable metrics
- The debatable assumptions (%) that led substantial GF increase are largely replaced
- If an Agency's GF budget increased under this concept, their corresponding PC budget will decrease

Questions, Feedback & Next Steps



Agenda Item

Meeting Date: December 6, 2017 –
Finance Committee
December 7, 2017 – Board Meeting

TO: Finance Committee and Board of Directors

FROM: Betty Burnett, General Manager

STAFF CONTACT: Mary Carey, Finance Controller

SUBJECT: FY 2015-16 Audited Financial Statements Supplemental Schedules

At the June 14, 2017 Board of Directors meeting a lengthy discussion occurred regarding the differences in the Supplemental Schedules and the Changes in Net Position by Project Committee as reported in the Financial Statements and Independent Auditor's Report prepared by DavisFarr, LLP for Fiscal Year Ending June 30, 2016.

Ms. Carey committed to review the questions and provide clarification. As a result of the request for information and with the concurrence of Jennifer Farr of DavisFarr, LLP the Supplemental Schedules prepared here at SOCWA were not received and filed by the Board of Directors for the FY 2015-16 Audit.

The primary question raised was as to the difference between the Use Audit for FY 15-16 reported expenses and the Total O&M Expenses as reported in the DavisFarr audited financial statements. At the October 5, 2017 Board meeting, staff provided a summary of the adjustments for '15-'16 which will be captured and shown with the FY 2016-17 Use Audit now in preparation. The attached tables detail the two adjustments that make up the difference between the supplemental schedules and the Changes in Net Position by Project Committee:

1. The adjustment out of the PC 23 North Coast Interceptor financials in the amount of \$184,871. You may recall that PC 23 is a Project Committee of one member, the City of Laguna Beach, and the accounting is all conducted at the City, this expense is not within a SOCWA Budget, but it is still a SOCWA Project Committee and included in the SOCWA Independent Audit.
2. Staff has included the numbers coming from the Use Audit adjustment for port cleaning, additions to engineering misc. expenses, electricity billing, permit costs, overtime-salaries in O&M and other misc. expenses in the total amount of \$311,131. Detail is attached. The department codes were still being loaded to the new system when these expenses were incurred.

At the October 5, 2017 Board meeting staff requested that any additional questions related to the Supplement Schedules be submitted by agency representatives. MNWD requested a review of its June 9, 2017 correspondence (see attached) with respect to questions about the supplemental schedules. MNWD also sent a letter to SOCWA dated November 20, 2017 (see attached). Staff has reviewed the comments and submits the attached additional responses.

Recommended Action

Board to consider Finance Committee recommendation from December 6, 2017 meeting;
Board to receive and file the FY Ending June 30, 2016 Supplemental Schedules as revised.

Additional Responses to June 9, 2017 MNWD Correspondence
Re: Supplemental Schedules Draft for '15-'16 Audit

Staff provides the following additional information which addresses questions asked that were about the supplemental schedules prepared by SOCWA staff:

Question 12: Question requests clarification as to reported Use Audit differences in contrast to the audited financial statements.

Response: The differences between the Use Audit and the audited financial statements are as described above and shown in the attached tables.

Question 15: Question requested clarification with respect to the reference to General Fund.

Response: This portion of the staff prepared supplemental schedule is addressing the costs in administration (which includes general fund expenses), residual engineering and IT allocations into PCs and departments. The wording used is "general fund" but it includes these categories of administrative expenses. The detail as to distribution of these expenses is shown in the Use Audit with an allocation in proportion to total O&M expenses by Member Agency. In addition, the distribution by Member Agency is not within the scope of the Financial Statements Audit and is treated as a SOCWA expense in total.

Question 15a: Question is regarding the \$257,000 assigned as cash to the general fund.

Response: This amount was a staff level estimate of an amount given treatment as a whole for SOCWA "cash on hand" in the audited financial statements. For FY 15-16 an estimated distribution was made for the supplemental schedule to administration.

Question 15b: Question asks for detail of capital assets in administration.

Response: Capital Assets, 01-1560-00-00-00 Computer Hardware in the amount of \$32,541.57.

Question 15ci: Questions seeks clarification on compensated absences.

Response: Comment is correct that the amount estimated for administration did not equal the total cash collected for compensated absences. The amount is placed within the "general" or administration portion of the audited financial statements as a total "all" employee account which is broken into two parts, an estimate of usable accrual within 1 year (shorter term usage) and long term accruals likely not usable within 1 year. It is a total SOCWA obligation for work across all project committees and is treated for audit purposes as a liability for SOCWA that is accrued until used by the employee. The distribution by Project Committee occurs as the employee works and earns the benefit.

Question 15cii: Question as to net pension liability.

Response: The allocation of the whole accumulated net pension liability is made using historical percentages shown on the attached sheet. Again, this liability is given treatment as a whole for the audited financial statements and the representation by project committee is split using the percentages historically used.

Question 16: Question regarding LAIF received interest.

Response: The LAIF interest allocations were estimated. Again, for SOCWA the audited financials give treatment to LAIF interest as a whole.

Question 17: Question regarding payroll for PC 12.

Response: PC 12 did not historically have an available percentage as shown on the attached report. This may have been due to the structure not being related to a specific historically 'owned' facility. Rather PC 12 is a result of the former SOCRA, which was a standalone JPA that was incorporated into SOCWA. Current SOCWA staff is using historical percentages.

Question 18: Question regarding payroll and/or pension liability to PC 21 and 23. See above response to historical percentages to pension liability distribution for purposes of supplemental schedule reporting. Lack of reporting of payroll costs is related to lack of employee time spent on those PCs within the FY 15-16.

Question 19: Clarification of audit adjustment is requested.

Response: The amount will be shown within the 2016-17 Use Audit as being generated from the 15-16 adjustment and the amount as explained above is \$311,131.

Question 20: Administration costs allocated to PC 3.

Response: PC 3 had O&M expenses in '15-'16 which based on percentages to each agency generate an administrative expense share of \$5,121. The credit resulted from an applied \$14,269 to the same account.

Question 21: Clarify expense schedules.

Response: The expense schedules referenced are for O&M only and exclude the administration expenses described above that is why the totals are different.

Question 22: Comment regarding 3A.

Response: comment noted.

Additional Responses to November 20, 2017 MNWD Correspondence
Re: Supplemental Schedules Draft for '15-'16 Audit

Question 1: Work is ongoing to distribute cash on hand. The current approach is to use invoicing for capital collection which allocates by project and member agency at the time of collection and is recorded in the financial system in the manner invoiced and paid.

Question 2. See response to Question 15cii for the June 9, 2017 letter. Pension Liability is paid through PERS deposits and SOCWA is presently 77.3% funded. All employees are SOCWA employees. SOCWA staff has attended CSMFO conferences whereat it has been recommended that California public agencies consider meeting all unfunded PERS obligations through savings such as the PARS (OPEB Funding) account deposits and/or through lump sum advanced deposits. The current pay-go system is effective for facilities that, from a practical perspective, will continue to be in service. However, SOCWA could accrue advanced deposits against estimates through the fringe pool in percentages tied to the labor expended. Mechanisms for advance funding would be at the discretion of the Board.

Question 3: Comment noted.

Cash on Hand Discussion: Comments noted. Work is ongoing to distribute cash on hand.

Remaining Questions are answered as noted in the responses above to the June 9, 2017 letter.

			<u>Contributions</u>	<u>% of Total</u>	<u>Allocation of NPL</u>
PC 5 - Ocean Outfall (San Juan Ceek)	05-5005-05	Retirement - PERS	8,523	1%	88,943
PC 24 - Ocean Outfall (Aliso Creek)	05-5005-24	Retirement - PERS	10,233	2%	106,788
Pretreatment	05-5005-08	Retirement - PERS	20,714	3%	216,164
PC 3A - MNWD/SMWD Treatment Plant	05-5005-03	Retirement - PERS	83,120	13%	867,413
PC 15 - Coastal Treatment Plant	05-5005-15	Retirement - PERS	120,211	18%	1,254,482
Adminstration	05-5005-07	Retirement - PERS	142,867	0%	-
PC 2 - JB Latham (Dana Point) Treatment P	05-5005-02	Retirement - PERS	182,148'	28%	1,900,837
PC 17 - Regional Treatment Plant	05-5005-17	Retirement - PERS	226,114	35%	2,359,651
			793,930	100%	6,794,279

2015-16 Audit - Staff Supplemental Statements

The following demonstrates the Changes in Net Position by Project Committee reconciliation to O&M expenses by Project Committee. The Intended Use of the Change in Net Position by Project Committee is to show the Connection between the November 29, 2016 approved USE AUDIT and the Audited Financial Statements received and filed June June 14, 2017.

	JB Latham Treatment Plant PC 02	Water Reclamation Permits PC 12	SOCWA Plan PCA AWT PC 03	San Juan Creek Outfall PC 05	Coastal Treatment Plant PC 15	Joint Regional Treatment Plant PC 17	Effluent Transmission PC 21	North Coast Interceptor PC 23	Aliso Creek Ocean Outfall PC 24	Pre-Treatment Program PC 08	Total
Total O&M Expenses (page 71 Audit)	5,590,465	204,417	43,956	467,833	2,835,067	6,963,008	2,697	184,871	442,693	197,218	16,932,225
1. Less PC 23, North Coast Interceptor (NCI) Net SOCWA Expenses	5,590,465	204,417	43,956	467,833	2,835,067	6,963,008	2,697	(184,871)	442,693	197,218	16,747,354 (1)
2. Less Audit Adjustment	(9,117)		(0)	(63,209)	(25,667)	(115,275)	6		(95,000)	(1,416)	(309,680) (2)
Other	2	-	0	-	2	(4)	0	-	0	0	2
Reconciled O&M Expenses to Changes in Net Position	5,581,350	204,417	43,956	404,624	2,809,402	6,847,729	2,703	-	347,693	195,802	16,437,676 (3)
Schedule of Revenues, Expenses and Changes in Net Position by Project Committee (pages 58-67 Audit)	5,581,350	204,417	43,956	404,624	2,809,402	6,847,729	2,703		347,693	195,802	16,437,676 (3)
Other	0	(1)	0	0	(2)	1	0	0	(1)	0	(3)
FY 2015-16 USE AUDIT O&M Expenses (USE AUDIT Book page 9)	5,581,350	204,416	43,956	404,624	2,809,400	6,847,730	2,703	0	347,692	195,802	16,437,673 (4)

- (1) PC 23 North Coast Interceptor, NCI, is included in SOCWA's Financial Statements but is not on the Authority's Books.
- (2) The Audit Adjustment was recorded after the completion of the USE Audit.
- (3) Pages 58-67 are the Supplemental Schedules discussed at the June 14th Board of Director's Meeting.
- (4) USE AUDIT approved November 29, 2016

**South Orange County Wastewater Authority
Financial Statements Reconciliation
For the year ended June 30, 2016**

O&M Costs:		
Use Audit (page 9)	16,437,673	
Less:		
SCADA System movement from O&M to Capital Assets	(218,030)	
Plus:		
Audit Adjustment	309,680	(1)
SOCWA O&M Costs Per Financial Statements (Page 16 Audit Book)	16,529,324	
Plus:		
NCI (PC23)	184,871	
O&M (Page 16 Audit Book)	16,714,195	
(1) Audit Adjustment:		
O&M	309,680	
Engineering After Capital Transfer	485	
Administration	965	
Total Audit Adjustment	311,131	

FY 2015-16 Use Audit Adjustment

Description	Amount	
Port Cleaning	153,557	
Engineering Misc	68,286	
Electricity	41,832	
Permits	15,578	
Overtime Salaries-O&M	5,507	
Other Misc.	26,371	
	311,131	
Will be Included in USE AUDIT for FY 2016-17		

**South Orange County Wastewater Authority
FY 2015-16 USE AUDIT Adjustment**

O&M					
FY 2015-16 USE AUDIT	FY 2015-16 Adjustment	FY 2015-16 Adjusted USE AUDIT	FY 2015-16 Budget	(Over)/Under Budget	% Expended
SOCWA by Member Agency					
City of Laguna Beach	33,946	1,961,280	1,990,298	29,017	98.5%
City of San Clemente	13,105	109,358	143,305	33,948	76.3%
City of San Juan Capistrano	15,404	1,883,413	2,238,795	355,382	84.1%
El Toro Water District	34,846	766,305	868,212	101,907	88.3%
Emerald Bay Service District	1,342	86,410	80,822	(5,588)	106.9%
Irvine Ranch Water District	25,812	153,536	241,964	88,428	63.5%
Moulton Niguel Water District	133,889	8,527,781	8,006,227	(521,554)	106.5%
Santa Margarita Water District	21,412	1,830,283	1,769,400	(60,884)	103.4%
South Coast Water District	31,374	3,348,390	3,236,962	(111,428)	103.4%
Trabuco Canyon Water District	-	20,940	25,640	4,700	81.7%
Total Member Agency	311,131	18,687,697	18,601,624	(86,073)	100.5%

**SUPPLEMENTARY
INFORMATION**

South Orange County Wastewater Authority
Schedule of Net Position by Project Committee
As of June 30, 2016

01 - General Fund

ASSETS

Current Assets

Cash and Investments	\$ 256,928
Accounts Receivable, net	4,923
LAIF Interest Receivable	6
Prepaid items	6,687

Total Current Assets	268,544
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Noncurrent Assets

Capital Assets

Assets	32,540
Accumulated Depreciation	(6,876)

Total Capital Assets	25,664
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Total Noncurrent Assets	25,664
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Total ASSETS	294,208
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LIABILITIES

Current Liabilities

Accounts Payable	171,970
Due to Member Agencies	306
Payroll Costs Payable	50,734
Current Portion of Compensated Absences	259,347

Total Current Liabilities	482,357
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Noncurrent Liabilities

Long-term Portion of Compensated Absences	425,420
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Total Noncurrent Liabilities	425,420
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Total LIABILITIES	907,777
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NET POSITION

Net Investment in Capital Assets	25,664
Restricted for Project Committees	(639,233)

Total NET POSITION	\$ (613,569)
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(continued)

South Orange County Wastewater Authority
Schedule of Net Position by Project Committee
As of June 30, 2016

02 - Jay B. Latham Plant

ASSETS

Current Assets

Cash and Investments	\$ 1,140,169
Accounts Receivable, net	(951)
Due from Member Agencies	531,460
LAIF Interest Receivable	(1,157)
Inventories	81,456
Prepaid Items	25,782
Total Current Assets	<u>1,776,759</u>

Noncurrent Assets

Capital Assets Not Depreciated	
Land	653,224
Construction in Progress	17,585,365
Total Capital Assets Not Depreciated	<u>18,238,589</u>

Capital Assets

Assets	53,742,049
Accumulated Depreciation	(38,184,968)
Total Capital Assets	<u>15,557,081</u>

Total Noncurrent Assets

33,795,670

Total ASSETS

35,572,429

DEFERRED OUTFLOWS

Deferred Outflows - Pension Contribution	265,118
Deferred Outflows - Actuarial	213,907

Total Deferred Outflows

479,025

LIABILITIES

Current Liabilities

Accounts Payable	736,375
Due to Member Agencies	403,698
Payroll Costs Payable	26,079
Total Current Liabilities	<u>1,166,152</u>

Noncurrent Liabilities

Net Other Postemployment Benefits	214,820
Net Pension Liability	2,533,192
Total Noncurrent Liabilities	<u>2,748,012</u>

Total LIABILITIES

3,914,164

DEFERRED INFLOWS

Deferred Inflows - Actuarial	275,607
Deferred Inflows - Additional Deferral	92,331

Total Deferred Inflows

367,938

NET POSITION

Net Investment in Capital Assets	33,795,670
Restricted for Project Committees	(2,026,318)
Total NET POSITION	<u>\$ 31,769,352</u>

(continued)

South Orange County Wastewater Authority
Schedule of Net Position by Project Committee
As of June 30, 2016

03 - SOCWA Plant/PCA AWT

ASSETS

Current Assets

Cash and Investments	\$ 817,306
LAIF Interest Receivable	1,370

Total Current Assets	<u>818,676</u>
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Total ASSETS	<u>818,676</u>
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DEFERRED OUTFLOWS

Deferred Outflows - Pension Contribution	120,983
Deferred Outflows - Actuarial	97,616

Total Deferred Outflows	<u>218,599</u>
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LIABILITIES

Current Liabilities

Accounts Payable	4,680
Due to Member Agencies	288,141
Payroll Costs Payable	176

Total Current Liabilities	<u>292,997</u>
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Noncurrent Liabilities

Net Other Postemployment Benefits	106,649
Net Pension Liability	1,155,983

Total Noncurrent Liabilities	<u>1,262,632</u>
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Total LIABILITIES	<u>1,555,629</u>
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DEFERRED INFLOWS

Deferred Inflows - Actuarial	125,765
Deferred Inflows - Additional Deferral	42,133

Total Deferred Inflows	<u>167,898</u>
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NET POSITION

Restricted for Project Committees	<u>(686,252)</u>
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Total NET POSITION	<u><u>\$ (686,252)</u></u>
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(continued)

South Orange County Wastewater Authority
Schedule of Net Position by Project Committee
As of June 30, 2016

05 - San Juan Creek Ocean Outfall

ASSETS

Current Assets

Cash and Investments	\$ 424,489
LAIF Interest Receivable	693
Prepaid Items	1,781
Total Current Assets	<u>426,963</u>

Noncurrent Assets

Capital Assets Not Depreciated	
Construction in Progress	142,926
Total Capital Assets Not Depreciated	<u>142,926</u>

Capital Assets

Assets	4,931,297
Accumulated Depreciation	(4,233,193)
Total Capital Assets	<u>698,104</u>

Total Noncurrent Assets	<u>841,030</u>
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Total ASSETS	<u>1,267,993</u>
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DEFERRED OUTFLOWS

Deferred Outflows - Pension Contribution	12,404
Deferred Outflows - Actuarial	10,009

Total Deferred Outflows	<u>22,413</u>
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LIABILITIES

Current Liabilities

Accounts Payable	10,404
Due to Member Agencies	301,465
Payroll Costs Payable	1,316

Total Current Liabilities	<u>313,185</u>
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Noncurrent Liabilities

Net Other Postemployment Benefits	15,185
Net Pension Liability	118,530

Total Noncurrent Liabilities	<u>133,715</u>
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Total LIABILITIES	<u>446,900</u>
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DEFERRED INFLOWS

Deferred Inflows - Actuarial	12,897
Deferred Inflows - Additional Deferral	4,321

Total Deferred Inflows	<u>17,218</u>
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NET POSITION

Net Investment in Capital Assets	841,030
Restricted for Project Committees	(14,742)

Total NET POSITION	<u>\$ 826,288</u>
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(continued)

South Orange County Wastewater Authority
Schedule of Net Position by Project Committee
As of June 30, 2016

08 - Pre Treatment

ASSETS

Current Assets

Cash and Investments	\$ 25,235
Due from Member Agencies	10,076
LAIF Interest Receivable	(307)
Total Current Assets	<u>35,004</u>

Noncurrent Assets

Capital Assets

Assets	79,238
Accumulated Depreciation	(65,388)
Total Capital Assets	<u>13,850</u>

Total Noncurrent Assets

Total ASSETS	<u>48,854</u>
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DEFERRED OUTFLOWS

Deferred Outflows - Pension Contribution	30,148
Deferred Outflows - Actuarial	24,317
Total Deferred Outflows	<u>54,465</u>

LIABILITIES

Current Liabilities

Accounts Payable	4,690
Due to Member Agencies	14,820
Payroll Costs Payable	1,241
Total Current Liabilities	<u>20,751</u>

Noncurrent Liabilities

Net Other Postemployment Benefits	14,919
Net Pension Liability	288,052
Total Noncurrent Liabilities	<u>302,971</u>

Total LIABILITIES	<u>323,723</u>
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DEFERRED INFLOWS

Deferred Inflows - Actuarial	31,357
Deferred Inflows - Additional Deferral	10,499
Total Deferred Inflows	<u>41,856</u>

NET POSITION

Net Investment in Capital Assets	13,850
Restricted for Project Committees	(276,110)
Total NET POSITION	<u>\$ (262,260)</u>

(continued)

South Orange County Wastewater Authority
Schedule of Net Position by Project Committee
As of June 30, 2016

12 - Water Reclamation Permits

ASSETS

Current Assets

Cash and Investments \$ 66,574

LAIF Interest Receivable 65

Total Current Assets 66,639

Total ASSETS 66,639

LIABILITIES

Current Liabilities

Accounts Payable 13,309

Due to Member Agencies 52,205

Payroll Costs Payable 1,039

Total Current Liabilities 66,553

Total LIABILITIES 66,553

NET POSITION

Restricted for Project Committees 86

Total NET POSITION \$ 86

(continued)

South Orange County Wastewater Authority
Schedule of Net Position by Project Committee
As of June 30, 2016

15 - Coastal Treatment Plant

ASSETS

Current Assets

Cash and Investments	\$ 1,509,178
Accounts Receivable, net	312,800
Due from Member Agencies	344,427
LAIF Interest Receivable	3,509
Inventories	101,223
Prepaid Items	5,788
Total Current Assets	<u>2,276,925</u>

Noncurrent Assets

Capital Assets Not Depreciated	
Land	7,160,000
Construction in Progress	1,704,561
Total Capital Assets Not Depreciated	<u>8,864,561</u>

Capital Assets

Assets	40,532,971
Accumulated Depreciation	<u>(20,285,818)</u>
Total Capital Assets	<u>20,247,153</u>

Total Noncurrent Assets	<u>29,111,714</u>
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Total ASSETS	<u>31,388,639</u>
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DEFERRED OUTFLOWS

Deferred Outflows - Pension Contribution	174,969
Deferred Outflows - Actuarial	141,165

Total Deferred Outflows	<u>316,134</u>
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LIABILITIES

Current Liabilities

Accounts Payable	563,890
Due to Member Agencies	60,149
Payroll Costs Payable	12,446

Total Current Liabilities	<u>636,485</u>
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Noncurrent Liabilities

Net Other Postemployment Benefits	125,269
Net Pension Liability	1,671,795

Total Noncurrent Liabilities	<u>1,797,064</u>
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Total LIABILITIES	<u>2,433,549</u>
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DEFERRED INFLOWS

Deferred Inflows - Actuarial	181,902
Deferred Inflows - Additional Deferral	60,935

Total Deferred Inflows	<u>242,837</u>
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NET POSITION

Net Investment in Capital Assets	29,111,714
Restricted for Project Committees	<u>(83,327)</u>

Total NET POSITION	<u>\$ 29,028,387</u>
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(continued)

South Orange County Wastewater Authority
Schedule of Net Position by Project Committee
As of June 30, 2016

17 - Joint Regional Wastewater Reclamation and Sludge Handling

ASSETS

Current Assets

Cash and Investments	\$ 854,438
Due from Member Agencies	430,292
LAIF Interest Receivable	354
Inventories	34,750
Deposits	18,000
Prepaid Items	<u>23,676</u>
Total Current Assets	<u>1,361,510</u>

Noncurrent Assets

Capital Assets Not Depreciated	
Land	6,589,000
Construction in Progress	<u>8,510,667</u>
Total Capital Assets Not Depreciated	<u>15,099,667</u>

Capital Assets

Assets	78,690,000
Accumulated Depreciation	<u>(53,155,483)</u>
Total Capital Assets	<u>25,534,517</u>

Total Noncurrent Assets

40,634,184

Total ASSETS

41,995,694

DEFERRED OUTFLOWS

Deferred Outflows - Pension Contribution	329,111
Deferred Outflows - Actuarial	<u>265,548</u>

Total Deferred Outflows

594,659

LIABILITIES

Current Liabilities

Accounts Payable	867,321
Due to Member Agencies	171,857
Payroll Costs Payable	<u>35,773</u>
Total Current Liabilities	<u>1,074,951</u>

Noncurrent Liabilities

Net Other Postemployment Benefits	254,276
Net Pension Liability	<u>3,144,662</u>
Total Noncurrent Liabilities	<u>3,398,938</u>

Total LIABILITIES

4,473,889

DEFERRED INFLOWS

Deferred Inflows - Actuarial	342,120
Deferred Inflows - Additional Deferral	<u>114,616</u>

Total Deferred Inflows

456,736

NET POSITION

Net Investment in Capital Assets	40,634,184
Restricted for Project Committees	<u>(2,974,456)</u>

Total NET POSITION

\$ 37,659,728

(continued)

South Orange County Wastewater Authority
Schedule of Net Position by Project Committee
As of June 30, 2016

21 - Effluent Transmission Main

ASSETS

Current Assets

Cash and Investments	\$ 368,768
LAIF Interest Receivable	16
Total Current Assets	368,784

Noncurrent Assets

Capital Assets Not Depreciated	
Construction in Progress	307
Total Capital Assets Not Depreciated	307

Capital Assets

Assets	14,686,827
Accumulated Depreciation	(11,805,471)
Total Capital Assets	2,881,356

Total Noncurrent Assets	2,881,663
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Total ASSETS	3,250,447
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LIABILITIES

Current Liabilities

Accounts Payable	84
Due to Member Agencies	95,118
Total Current Liabilities	95,202

Total LIABILITIES	95,202
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NET POSITION

Net Investment in Capital Assets	2,881,663
Restricted for Project Committees	273,582
Total NET POSITION	\$ 3,155,245

(continued)

South Orange County Wastewater Authority
Schedule of Net Position by Project Committee
As of June 30, 2016

23 - North Coast Interceptor

ASSETS

Current Assets

Cash and Investments	\$ (842)
Prepaid Items	<u>564</u>
Total Current Assets	<u>(278)</u>

Noncurrent Assets

Capital Assets Not Depreciated	
Construction in Progress	<u>225,307</u>
Total Capital Assets Not Depreciated	<u>225,307</u>

Capital Assets

Assets	6,816,349
Accumulated Depreciation	<u>(3,505,940)</u>
Total Capital Assets	<u>3,310,409</u>

Total Noncurrent Assets	<u>3,535,716</u>
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Total ASSETS	<u>3,535,438</u>
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LIABILITIES

Current Liabilities

Accounts Payable	<u>(9)</u>
Total Current Liabilities	<u>(9)</u>

Total LIABILITIES	<u>(9)</u>
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NET POSITION

Net Investment in Capital Assets	3,535,716
Restricted for Project Committees	<u>(269)</u>
Total NET POSITION	<u>\$ 3,535,447</u>

(continued)

South Orange County Wastewater Authority
Schedule of Net Position by Project Committee
As of June 30, 2016

24 - Aliso Creek Ocean Outfall

ASSETS

Current Assets

Cash and Investments	\$ 315,243
LAIF Interest Receivable	385
Prepaid Items	1,336

Total Current Assets	316,964
-----------------------------	----------------

Noncurrent Assets

Capital Assets Not Depreciated	
Construction in Progress	177
Total Capital Assets Not Depreciated	177

Capital Assets

Assets	15,872,067
Accumulated Depreciation	(11,454,246)
Total Capital Assets	4,417,821

Total Noncurrent Assets	4,417,998
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Total ASSETS	4,734,962
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DEFERRED OUTFLOWS

Deferred Outflows - Pension Contribution	14,894
Deferred Outflows - Actuarial	12,020

Total Deferred Outflows	26,914
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LIABILITIES

Current Liabilities

Accounts Payable	80,364
Due to Member Agencies	304,639
Payroll Costs Payable	1,155

Total Current Liabilities	386,158
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Noncurrent Liabilities

Net Other Postemployment Benefits	14,844
Net Pension Liability	142,321

Total Noncurrent Liabilities	157,165
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Total LIABILITIES	543,323
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DEFERRED INFLOWS

Deferred Inflows - Actuarial	15,478
Deferred Inflows - Additional Deferral	5,190

Total Deferred Inflows	20,668
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NET POSITION

Net Investment in Capital Assets	4,417,998
Restricted for Project Committees	(220,112)

Total NET POSITION	\$ 4,197,886
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(continued)

South Orange County Wastewater Authority
Schedule of Revenues, Expenses and Changes in Net Position
by Project Committee
For the year ended June 30, 2016

01 - General Fund	
OPERATING EXPENSES	
Engineering After Capital Transfer	\$ 200,311
Administration	(198,861)
SCADA System transfer to Capital	(218,030)
O&M Costs missing from Use Audit, will be allocated in 16/17	309,680
Total OPERATING EXPENSES	<u>93,100</u>
Operating Loss	<u>(93,100)</u>
NON-OPERATING REVENUES	
Other Revenues	
Interest Income	444
Other Income - Misc	18,987
Total NON-OPERATING REVENUES	<u>19,431</u>
Depreciation	2,285
CHANGE IN NET POSITION	<u><u>\$ (75,954)</u></u>

(continued)

South Orange County Wastewater Authority
Schedule of Revenues, Expenses and Changes in Net Position
by Project Committee
For the year ended June 30, 2016

02 - Jay B. Latham Plant

OPERATING REVENUES

O & M Member Agency Assessments

City of San Juan Capistrano \$ 1,763,918

Moulton Niguel Water District 1,459,703

South Coast Water District 1,486,125

Santa Margarita Water District 1,521,846

Total O & M Member Agency Assessments 6,231,592

Total OPERATING REVENUES 6,231,592

OPERATING EXPENSES

O&M & Environmental, Compliance & Safety

City of San Juan Capistrano 1,579,860

Moulton Niguel Water District 1,307,389

South Coast Water District 1,331,054

Santa Margarita Water District 1,363,047

Total O&M & Environmental, Compliance & Safety 5,581,350

Administration 688,065

Depreciation 1,500,584

Total OPERATING EXPENSES 7,769,999

Operating Loss (1,538,407)

CAPITAL CONTRIBUTIONS AND TRANSFERS

Member Agency Assessments

City of San Juan Capistrano 3,996,988

Moulton Niguel Water District 2,939,507

South Coast Water District 3,208,525

Santa Margarita Water District 3,010,929

Total Member Agency Assessments 13,155,949

Total CAPITAL CONTRIBUTIONS AND TRANSFERS 13,155,949

NON-OPERATING REVENUES

Other Revenues

Interest Income 3,179

Total Other Revenues 3,179

Total NON-OPERATING REVENUES 3,179

CHANGE IN NET POSITION \$ 11,620,721

(continued)

South Orange County Wastewater Authority
Schedule of Revenues, Expenses and Changes in Net Position
by Project Committee
For the year ended June 30, 2016

03 - SOCWA Plant/PCA AWT

OPERATING REVENUES

O & M Member Agency Assessments

Moulton Niguel Water District

\$ 43,894

Santa Margarita Water District

5,183

Total O & M Member Agency Assessments

49,077

Total OPERATING REVENUES

49,077

OPERATING EXPENSES

O&M & Environmental, Compliance & Safety

Moulton Niguel Water District

39,314

Santa Margarita Water District

4,642

Total O&M & Environmental, Compliance & Safety

43,956

Administration

(9,148)

Total OPERATING EXPENSES

34,808

Operating Income

14,269

CAPITAL CONTRIBUTIONS AND TRANSFERS

Member Agency Assessments

Moulton Niguel Water District

1,134,068

South Coast Water District

(56,283)

Santa Margarita Water District

499,938

Total Member Agency Assessments

1,577,723

Total CAPITAL CONTRIBUTIONS AND TRANSFERS

1,577,723

NON-OPERATING REVENUES (EXPENSES):

Other Revenues

Interest Income

2,302

Total Other Revenues

2,302

Other Expenses

PC 3A CIP Elimination

(1,548,438)

Total Other Expenses

(1,548,438)

Total NON-OPERATING REVENUES (EXPENSES)

(1,546,136)

CHANGE IN NET POSITION

\$ 45,856

(continued)

South Orange County Wastewater Authority
Schedule of Revenues, Expenses and Changes in Net Position
by Project Committee
For the year ended June 30, 2016

05 - San Juan Creek Ocean Outfall

OPERATING REVENUES	
O & M Member Agency Assessments	
City of San Clemente	\$ 78,540
City of San Juan Capistrano	67,673
Moulton Niguel Water District	71,052
South Coast Water District	62,360
Santa Margarita Water District	<u>172,138</u>
Total O & M Member Agency Assessments	<u>451,763</u>
Total OPERATING REVENUES	<u>451,763</u>
OPERATING EXPENSES	
O&M & Environmental, Compliance & Safety	
City of San Clemente	70,345
City of San Juan Capistrano	60,612
Moulton Niguel Water District	63,638
South Coast Water District	55,853
Santa Margarita Water District	<u>154,176</u>
Total O&M & Environmental, Compliance & Safety	<u>404,624</u>
Administration	43,751
Depreciation	<u>203,053</u>
Total OPERATING EXPENSES	<u>651,428</u>
Operating Loss	<u>(199,665)</u>
CAPITAL CONTRIBUTIONS AND TRANSFERS	
Member Agency Assessments	
City of San Clemente	33,240
City of San Juan Capistrano	22,160
Moulton Niguel Water District	31,020
South Coast Water District	24,941
Santa Margarita Water District	<u>88,639</u>
Total Member Agency Assessments	<u>200,000</u>
Total CAPITAL CONTRIBUTIONS AND TRANSFERS	<u>200,000</u>
NON-OPERATING REVENUES	
Other Revenues	
Interest Income	<u>2,023</u>
Total Other Revenues	<u>2,023</u>
Total NON-OPERATING REVENUES	<u>2,023</u>
CHANGE IN NET POSITION	<u>\$ 2,358</u>

(continued)

South Orange County Wastewater Authority
Schedule of Revenues, Expenses and Changes in Net Position
by Project Committee
For the year ended June 30, 2016

08 - Pre Treatment

OPERATING REVENUES

O & M Member Agency Assessments

City of Laguna Beach	\$ 14,617
City of San Clemente	17,712
City of San Juan Capistrano	16,621
Emerald Bay Service District	1,985
El Toro Water District	10,285
Irvine Ranch Water District	20,989
Moulton Niguel Water District	47,639
South Coast Water District	38,466
Santa Margarita Water District	50,479

Total O & M Member Agency Assessments	<u>218,793</u>
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Total OPERATING REVENUES	<u>218,793</u>
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OPERATING EXPENSES

O&M & Environmental, Compliance & Safety

City of Laguna Beach	12,930
City of San Clemente	15,864
City of San Juan Capistrano	14,887
El Toro Water District	9,212
Emerald Bay Service District	1,778
Irvine Ranch Water District	18,799
Moulton Niguel Water District	42,668
South Coast Water District	34,452
Santa Margarita Water District	45,212

Total O&M & Environmental, Compliance & Safety	<u>195,802</u>
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Administration	24,716
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Depreciation	3,451
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Total OPERATING EXPENSES	<u>223,969</u>
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Operating Income/(Loss)	<u>(5,176)</u>
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NON-OPERATING REVENUES

Other Revenues

Interest Income	132
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Total Other Revenues	<u>132</u>
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Total NON-OPERATING REVENUES	<u>132</u>
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CHANGE IN NET POSITION	<u>\$ (5,044)</u>
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(continued)

South Orange County Wastewater Authority
Schedule of Revenues, Expenses and Changes in Net Position
by Project Committee
For the year ended June 30, 2016

12 - Water Reclamation Permits

OPERATING REVENUES	
O & M Member Agency Assessments	
City of San Juan Capistrano	\$ 19,797
El Toro Water District	16,308
Irvine Ranch Water District	20,816
Moulton Niguel Water District	66,803
South Coast Water District	24,342
Santa Margarita Water District	59,226
Trabuco Canyon Water District	20,940
Total O & M Member Agency Assessments	<u>228,232</u>
Total OPERATING REVENUES	<u>228,232</u>
OPERATING EXPENSES	
O&M & Environmental, Compliance & Safety	
City of San Juan Capistrano	17,732
El Toro Water District	14,606
Irvine Ranch Water District	18,644
Moulton Niguel Water District	59,832
South Coast Water District	21,802
Santa Margarita Water District	53,046
Trabuco Canyon Water District	18,755
Total O&M & Environmental, Compliance & Safety	<u>204,417</u>
Administration	23,815
Total OPERATING EXPENSES	<u>228,232</u>
Operating Income	<u>-</u>
NON-OPERATING REVENUES	
Other Revenues	
Interest Income	178
Total Other Revenues	<u>178</u>
Total NON-OPERATING REVENUES	<u>178</u>
CHANGE IN NET POSITION	<u>\$ 178</u>

(continued)

South Orange County Wastewater Authority
Schedule of Revenues, Expenses and Changes in Net Position
by Project Committee
For the year ended June 30, 2016

15 - Coastal Treatment Plant

OPERATING REVENUES	
O & M Member Agency Assessments	
City of Laguna Beach	\$ 1,359,491
Emerald Bay Service District	64,430
Moulton Niguel Water District	395,640
South Coast Water District	1,333,973
Total O & M Member Agency Assessments	<u>3,153,534</u>
Total OPERATING REVENUES	<u>3,153,534</u>
OPERATING EXPENSES	
O&M & Environmental, Compliance & Safety	
City of Laguna Beach	1,202,560
Emerald Bay Service District	57,707
Moulton Niguel Water District	354,357
South Coast Water District	1,194,778
Total O&M & Environmental, Compliance & Safety	<u>2,809,402</u>
Administration	336,621
Depreciation	1,301,134
Total OPERATING EXPENSES	<u>4,447,157</u>
Operating Loss	<u>(1,293,623)</u>
CAPITAL CONTRIBUTIONS AND TRANSFERS	
Member Agency Assessments	
City of Laguna Beach	441,569
Emerald Bay Service District	34,768
Moulton Niguel Water District	340,738
South Coast Water District	457,693
Total Member Agency Assessments	<u>1,274,768</u>
Total CAPITAL CONTRIBUTIONS AND TRANSFERS	<u>1,274,768</u>
NON-OPERATING REVENUES (EXPENSES)	
Other Revenues	
Interest Income	6,515
Other Income - Misc	825,000
Gain on Sale of Fixed Assets	7,200
Total Other Revenues	<u>838,715</u>
Other Expenses	
Other	<u>(830,500)</u>
Total Other Expenses	<u>(830,500)</u>
Total NON-OPERATING REVENUES (EXPENSES)	<u>8,215</u>
CHANGE IN NET POSITION	<u>\$ (10,640)</u>

(continued)

South Orange County Wastewater Authority
Schedule of Revenues, Expenses and Changes in Net Position
by Project Committee
For the year ended June 30, 2016

17 - Joint Regional Wastewater Reclamation and Sludge Handling
OPERATING REVENUES

O & M Member Agency Assessments	
City of Laguna Beach	\$ 500,985
Emerald Bay Service District	16,284
El Toro Water District	621,659
Moulton Niguel Water District	6,175,621
South Coast Water District	<u>337,163</u>
Total O & M Member Agency Assessments	<u>7,651,712</u>

Total OPERATING REVENUES 7,651,712

OPERATING EXPENSES

O&M & Environmental, Compliance & Safety	
City of Laguna Beach	443,154
El Toro Water District	556,791
Emerald Bay Service District	14,585
Moulton Niguel Water District	5,531,254
South Coast Water District	<u>301,945</u>
Total O&M & Environmental, Compliance & Safety	<u>6,847,729</u>

Administration 793,406

Depreciation 2,119,162

Total OPERATING EXPENSES 9,760,297

Operating Loss (2,108,585)

CAPITAL CONTRIBUTIONS AND TRANSFERS

Member Agency Assessments	
City of Laguna Beach	559,422
Emerald Bay Service District	29,553
El Toro Water District	1,018,060
Moulton Niguel Water District	5,397,980
South Coast Water District	<u>447,048</u>
Total Member Agency Assessments	<u>7,452,063</u>

Total CAPITAL CONTRIBUTIONS AND TRANSFERS 7,452,063

NON-OPERATING REVENUES (EXPENSES):

Other Revenues	
Interest Income	7,538
Other Income - Misc	204
Gain on Sale of Fixed Assets	<u>11,589</u>
Total Other Revenues	<u>19,331</u>

Total NON-OPERATING REVENUES (EXPENSES) 19,331

CHANGE IN NET POSITION \$ 5,362,809

(continued)

South Orange County Wastewater Authority
Schedule of Revenues, Expenses and Changes in Net Position
by Project Committee
For the year ended June 30, 2016

21 - Effluent Transmission Main

OPERATING REVENUES	
O & M Member Agency Assessments	
El Toro Water District	\$ 1,243
Irvine Ranch Water District	1,243
Moulton Niguel Water District	533
Total O & M Member Agency Assessments	<u>3,019</u>
Total OPERATING REVENUES	<u><u>3,019</u></u>
OPERATING EXPENSES	
O&M & Environmental, Compliance & Safety	
El Toro Water District	1,113
Irvine Ranch Water District	1,113
Moulton Niguel Water District	477
Total O&M & Environmental, Compliance & Safety	<u>2,703</u>
Administration	316
Depreciation	<u>216,355</u>
Total OPERATING EXPENSES	<u><u>219,374</u></u>
Operating Loss	<u><u>(216,355)</u></u>
CAPITAL CONTRIBUTIONS AND TRANSFERS	
Member Agency Assessments	
El Toro Water District	12,500
Irvine Ranch Water District	12,500
Total Member Agency Assessments	<u>25,000</u>
Total CAPITAL CONTRIBUTIONS AND TRANSFERS	<u><u>25,000</u></u>
NON-OPERATING REVENUES	
Other Revenues	
Interest Income	1,183
Total Other Revenues	<u>1,183</u>
Total NON-OPERATING REVENUES	<u><u>1,183</u></u>
CHANGE IN NET POSITION	<u><u>\$ (190,172)</u></u>

(continued)

South Orange County Wastewater Authority
Schedule of Revenues, Expenses and Changes in Net Position
by Project Committee
For the year ended June 30, 2016

23 - North Coast Interceptor	
OPERATING REVENUES	
O & M Member Agency Assessments	
City of Laguna Beach	\$ 742,116
Total OPERATING REVENUES	<u>742,116</u>
 OPERATING EXPENSES	
O&M & Environmental, Compliance & Safety	
City of Laguna Beach	184,871
Total O&M & Environmental, Compliance & Safety	<u>184,871</u>
Engineering After Capital Transfer	233,374
Administration	56,809
Depreciation	169,949
Total OPERATING EXPENSES	<u>645,003</u>
CHANGE IN NET POSITION	<u>\$ 97,113</u>

(continued)

South Orange County Wastewater Authority
Schedule of Revenues, Expenses and Changes in Net Position
by Project Committee
For the year ended June 30, 2016

24 - Aliso Creek Ocean Outfall

OPERATING REVENUES

O & M Member Agency Assessments

City of Laguna Beach	\$ 52,242
Emerald Bay Service District	2,368
El Toro Water District	81,965
Irvine Ranch Water District	84,676
Moulton Niguel Water District	133,009
South Coast Water District	<u>34,587</u>
Total O & M Member Agency Assessments	<u>388,847</u>

Total OPERATING REVENUES

388,847

OPERATING EXPENSES

O&M & Environmental, Compliance & Safety

City of Laguna Beach	46,211
El Toro Water District	73,412
Emerald Bay Service District	2,121
Irvine Ranch Water District	75,840
Moulton Niguel Water District	119,131
South Coast Water District	<u>30,978</u>
Total O&M & Environmental, Compliance & Safety	<u>347,693</u>

Administration

38,623

Depreciation

330,629

Total OPERATING EXPENSES

716,945

Operating Loss

(328,098)

CAPITAL CONTRIBUTIONS AND TRANSFERS

Member Agency Assessments

City of Laguna Beach	2,750
Emerald Bay Service District	195
El Toro Water District	4,076
Irvine Ranch Water District	3,940
Moulton Niguel Water District	10,962
South Coast Water District	<u>3,077</u>
Total Member Agency Assessments	<u>25,000</u>

Total CAPITAL CONTRIBUTIONS AND TRANSFERS

25,000

NON-OPERATING REVENUES (EXPENSES):

Other Revenues

Interest Income 1,094

Total Other Revenues

1,094

Total NON-OPERATING REVENUES (EXPENSES)

1,094

CHANGE IN NET POSITION

\$ (302,004)

(continued)

South Orange County Wastewater Authority
Schedule of Capital Contributions by Project Committee and Member Agency
For the Year Ended June 30, 2016

Capital Contributions by Project Committee and Member Agency	PC 2	PC 3	PC 5	PC 15	PC 17	PC 21	PC 24	Total
City of Laguna Beach	\$ -	-	-	441,569	559,422	-	2,750	1,003,741
City of San Clemente	-	-	33,240	-	-	-	-	33,240
City of San Juan Capistrano	3,996,988	-	22,160	-	-	-	-	4,019,148
El Toro Water District	-	-	-	-	1,018,060	12,500	4,076	1,034,636
Emerald Bay Service District	-	-	-	34,768	29,553	-	195	64,516
Irvine Ranch Water District	-	-	-	-	-	12,500	3,940	16,440
Moulton Niguel Water District	2,939,507	1,134,068	31,020	340,738	5,397,980	-	10,962	9,854,276
Santa Margarita Water District	3,010,929	499,938	88,639	-	-	-	-	3,599,506
South Coast Water District	3,208,525	(56,283)	24,941	457,693	447,048	-	3,077	4,085,001
Trabuco Canyon Water District	-	-	-	-	-	-	-	0
Total Capital Contributions	\$ 13,155,949	1,577,723	200,000	1,274,769	7,452,063	25,000	25,000	23,710,504

South Orange County Wastewater Authority
Schedule of O&M Operating Expenses by Project Committee
For the Year Ended June 30, 2016

	JB Latham Treatment Plant PC 02	Water Reclamation Permits PC 12	SOCWA Plan PCA AWT PC 03	San Juan Creek Outfall PC 05	Coastal Treatment Plant PC 15
Salary and Fringe					
Regular Salaries-O&M	\$1,350,086	33,466	20,795	68,145	753,438
Overtime Salaries-O&M	41,646	-	530	3,387	11,426
Fringe Benefits IN to PC's & Depts.	1,049,637	26,104	16,220	53,153	584,252
Standby Pay	19,500	-	-	-	4,550
Total Payroll Costs	2,460,869	59,570	37,545	124,685	1,353,666
Other Expenses					
Electricity	691,961	-	-	97	218,757
Natural Gas	20,289	-	-	132	1,937
Potable & Reclaimed Water	15,979	-	-	-	13,437
Co-generation Power Credit	-	-	-	-	-
Chlorine/Sodium Hypochlorite	16,767	-	-	-	73,924
Polymer Products	301,507	-	-	-	-
Ferric Chloride	98,253	-	-	-	29,311
Odor Control Chemicals	32,820	-	-	-	79,538
Other Chemicals - Misc.	164	-	-	-	-
Laboratory Services	9,508	-	153	-	10,025
Grit Hauling	53,638	-	-	-	22,276
Landscaping	41,584	-	-	-	80,757
Engineering - Misc.	72,086	-	3,757	7,461	150,988
Management Support Services	37,321	13,600	-	-	16,607
Legal Fees	39,747	1,125	-	1,558	88,605
Contract Services Misc.	84,690	-	-	-	58,386
Postage Expense	-	-	-	-	-
Small Vehicle Expense	9,647	-	-	-	4,873
Miscellaneous Expense	10,970	-	-	-	2,398
Office Supplies - All	22,543	-	317	-	7,184
Petroleum Products	12,869	-	-	-	86
Uniforms	11,133	-	-	-	4,758
Small Vehicle Fuel	9,462	-	-	-	2,181
Insurance - Property/Liability	13,512	-	-	24,317	45,776
Small Tools & Supplies	35,285	-	-	-	8,183
Trash Disposal	1,265	-	-	-	1,153
Safety Supplies	29,505	-	121	5,468	27,582
Equipment Rental	2,533	-	-	-	274
Recruitment	780	-	-	-	-
Travel Expense/Tech. Conferences	16,505	-	-	1,302	1,845
Training Expense	28,853	-	-	-	7,028
Laboratory Supplies	9,412	-	-	9,474	10,344
Office Equipment	17,295	-	-	-	854
Permits	11,748	109,095	-	144,192	4,284
Membership Dues/Fees	7,088	-	-	-	4,751

Joint Regional Treatment Plant PC 17	Effluent Transmission PC 21	North Coast Interceptor PC 23	Aliso Creek Ocean Outfall PC 24	Pre- Treatment Program PC 08	Total
1,621,466	145	-	60,286	105,799	4,013,626
61,036	-	-	3,891	-	121,916
1,261,314	113	-	47,023	82,523	3,120,339
20,475	-	-	-	-	44,525
2,964,291	258	-	111,200	188,322	7,300,406
366,358	-	-	-	-	1,277,173
86,251	-	-	-	-	108,609
37,597	-	-	-	-	67,013
(489,013)	-	-	-	-	(489,013)
271,180	-	-	-	-	361,871
382,744	-	-	-	-	684,251
117,607	-	-	-	-	245,171
41,918	-	81,897	-	-	236,173
1,831	-	3,655	-	-	5,650
14,376	-	-	-	3,600	37,662
65,461	-	-	-	-	141,375
50,322	-	-	-	-	172,663
137,332	101	-	14,857	-	386,582
31,102	-	-	-	-	98,630
2,447	-	-	451	-	133,933
145,423	327	73,321	-	-	362,147
4	-	-	-	-	4
5,228	-	-	-	16	19,764
12,816	-	-	-	549	26,733
11,123	-	-	-	-	41,167
36,653	-	-	-	-	49,608
15,478	-	-	-	-	31,369
5,497	-	-	-	45	17,185
57,820	2,011	-	1,052	155	144,643
20,800	-	-	-	1,877	66,145
1,080	-	-	-	-	3,498
33,436	-	-	5,389	-	101,501
858	-	-	-	-	3,665
2,331	-	-	-	-	3,111
1,653	-	-	-	1,219	22,524
12,392	-	-	-	1,435	49,708
21,221	-	-	11,006	-	61,457
4,364	-	-	-	-	22,513
15,164	-	-	138,306	-	422,789
8,525	-	-	-	-	20,364

(Continued)

South Orange County Wastewater Authority
Fiscal Year 2015-16 O&M Operating Expenses by Project Committee
(Administration and Residual Engineering not Included)

	PC 02	PC 12	PC 03	PC 05	PC 15	PC 17	PC 21	PC 24	PC 08	SOCWA
Salary and Fringe										
Regular Salaries-O&M	\$1,350,086	\$33,486	\$20,795	\$68,145	\$753,438	\$1,621,466	\$145	\$60,288	\$105,799	\$4,013,626
Overtime Salaries-O&M	41,646	-	530	3,387	11,426	61,036	-	3,891	-	121,917
Fringe Benefits IN to PC's & Depts.	1,049,637	26,104	16,220	53,153	584,252	1,261,314	113	47,023	82,523	3,120,339
Standby Pay	19,500	-	-	-	4,550	20,475	-	-	-	44,525
Total Payroll Costs	2,460,869	59,570	37,546	124,685	1,353,665	2,884,291	269	111,200	188,322	7,300,407
Other Expenses										
Electricity	691,981	-	-	97	218,757	366,358	-	-	-	1,277,173
Natural Gas	20,289	-	-	132	1,937	86,251	-	-	-	108,610
Potable & Reclaimed Water	15,979	-	-	-	13,437	37,597	-	-	-	67,013
Co-generation Power Credit	-	-	-	-	-	(489,013)	-	-	-	(489,013)
Chlorine/Sodium Hypochlorite	16,767	-	-	-	73,924	271,180	-	-	-	361,671
Polymer Products	301,507	-	-	-	-	382,744	-	-	-	684,250
Ferric Chloride	88,253	-	-	-	29,311	117,607	-	-	-	245,172
Odor Control Chemicals	32,820	-	-	-	79,538	41,918	-	-	-	154,277
Other Chemicals - Misc.	164	-	-	-	-	1,831	-	-	-	1,995
Laboratory Services	9,508	-	153	-	10,025	14,376	-	-	3,600	37,663
Grit Hauling	53,638	-	-	-	22,276	65,481	-	-	-	141,376
Landscaping	41,584	-	-	-	80,757	50,322	-	-	-	172,662
Engineering - Misc.	72,086	-	3,757	7,461	150,988	137,332	101	14,857	-	366,581
Management Support Services	37,321	13,600	-	-	16,607	31,102	-	-	-	98,630
Legal Fees	39,747	1,125	-	1,558	88,605	2,447	-	451	-	133,933
Contract Services Misc.	84,690	-	-	-	58,388	145,423	327	-	-	288,826
Postage Expense	-	-	-	-	-	4	-	-	-	4
Small Vehicle Expense	9,647	-	-	-	4,873	5,228	-	-	16	19,764
Miscellaneous Expense	10,970	-	-	-	2,398	12,816	-	-	549	26,734
Office Supplies - All	22,543	-	317	-	7,184	11,123	-	-	-	41,167
Petroleum Products	12,669	-	-	-	86	36,653	-	-	-	49,608
Uniforms	11,133	-	-	-	4,758	15,478	-	-	-	31,370
Small Vehicle Fuel	9,462	-	-	-	2,181	5,497	-	-	45	17,185
Insurance - Property/Liability	13,512	-	-	24,317	45,776	57,820	2,011	1,052	155	144,644
Small Tools & Supplies	35,285	-	-	-	8,183	20,800	-	-	1,877	68,146
Trash Disposal	1,265	-	-	-	1,153	1,080	-	-	-	3,498
Safety Supplies	29,505	-	121	5,468	27,582	33,436	-	5,389	-	101,499
Equipment Rental	2,533	-	-	-	274	858	-	-	-	3,664
Recruitment	780	-	-	-	-	2,331	-	-	-	3,111
Travel Expense/Tech. Conferences	16,505	-	-	1,302	1,845	1,653	-	-	1,219	22,525
Training Expense	28,853	-	-	-	7,028	12,392	-	-	1,435	49,709
Laboratory Supplies	9,412	-	-	9,474	10,344	21,221	-	11,006	-	61,458
Office Equipment	17,295	-	-	-	854	4,384	-	-	-	22,513
Permits	11,748	109,095	-	144,192	4,284	15,164	-	138,308	-	422,788
Membership Dues/Fees	7,088	-	-	-	4,751	8,525	-	-	-	20,363
Electricity - EPS - PC 5	-	-	-	2,534	-	-	-	-	-	2,534
Offshore Monitoring	-	-	-	12,471	-	-	-	12,313	-	24,784
Offshore Biochemistry - 20B	-	-	-	4,180	-	-	-	-	-	4,180
Effluent Chemistry	-	-	-	15,198	-	-	-	29,576	-	44,773
Access Road Expenses	-	-	-	-	84,538	-	-	-	-	84,538
Biosolids Disposal	569,254	-	-	-	-	908,443	-	-	-	1,477,697
Contract Services Generators - 29A	10,127	-	-	-	3,099	6,537	-	-	-	19,763
Janitorial Services	11,942	-	32	-	9,919	10,705	-	-	-	32,597
Contract Serv - Digester Cleaning - 29E	-	-	-	-	-	34,641	-	-	-	34,641
Diesel Truck Maint	28,525	-	-	-	6,088	21,441	-	-	-	56,054
Diesel Truck Fuel	2,048	-	-	-	-	7,850	-	-	-	9,899
Maintenance Equip. & Facilities (Solids)	168,198	-	1,750	9,246	-	208,691	-	-	-	386,885
Maintenance Equip. & Facilities (Liquids)	231,731	-	61	-	128,029	169,640	-	-	-	529,461
Maintenance Equip. & Facilities (Common)	15,436	-	220	-	20,872	21,363	-	-	-	57,891
Maintenance Equip. & Facilities (Co-Gen)	76,406	-	-	-	-	136,578	-	-	-	212,984
Maintenance Equip. & Facilities (AWT)	-	-	-	-	21,975	41,738	-	-	-	63,713
Mileage	1,514	-	-	-	895	2,309	-	-	-	4,718
Port Cleaning	-	-	-	68,607	-	-	-	99,050	-	167,657
MNWD Potable Water Supplies & Svcs.	-	-	-	-	-	16,284	-	-	-	16,284
IT Direct	18,351	-	-	-	98,056	160,462	-	-	-	274,869 (1)
Employee Recognition	-	-	-	-	-	236	-	-	-	236
Co-Generation Power Credit - Offset	-	-	-	-	-	489,013	-	-	-	489,013
Non-Capital Engineering	18,851	-	-	-	-	-	-	-	-	18,851
Vehicle Pay	39	-	-	-	-	-	-	-	-	39
Group Insurance Waiver	1,771	-	-	-	2,400	1,292	-	-	-	5,463
Medicare Tax Payments for Employees	2,313	83	-	944	2,133	1,207	-	-	-	6,680
Operating Leases	4,515	-	-	-	-	-	-	-	-	4,515
Monthly Car Allowance	15,307	162	-	1,777	3,877	11,931	-	-	-	33,053
Shipping/Freight	108	-	-	-	-	53	-	-	-	162
IT Allocations in to PC's & Depts.	188,441	20,782	-	34,182	123,418	217,922	-	19,493	-	604,238
Total Other Expenses	3,129,598	144,848	6,411	343,147	1,481,401	3,888,713	2,438	331,493	8,897	9,446,947
Total Expenses	\$8,590,467	\$204,417	\$43,957	\$467,833	\$2,835,067	\$6,893,004	\$2,697	\$442,693	\$197,219	\$18,747,354

1. Includes \$218,030, SCADA system computer hardware which was reclassified to Fixed Assets.

Joint Regional Treatment Plant PC 17	Effluent Transmission PC 21	North Coast Interceptor PC 23	Aliso Creek Ocean Outfall PC 24	Pre- Treatment Program PC 08	Total
-	-	-	-	-	2,534
-	-	-	12,313	-	24,784
-	-	-	-	-	4,190
-	-	-	29,576	-	44,772
-	-	-	-	-	84,538
908,443	-	-	-	-	1,477,697
6,537	-	-	-	-	19,763
10,705	-	-	-	-	32,598
34,641	-	-	-	-	34,641
21,441	-	-	-	-	56,054
7,850	-	-	-	-	9,898
209,691	-	-	-	-	386,885
169,640	-	-	-	-	529,461
21,363	-	-	-	-	57,891
136,578	-	-	-	-	212,984
41,738	-	-	-	-	63,713
2,309	-	-	-	-	4,718
-	-	-	99,050	-	167,657
16,284	-	-	-	-	16,284
160,464	-	-	-	-	274,871 (1)
236	-	-	-	-	236
489,013	-	-	-	-	489,013
-	-	25,998	-	-	44,849
-	-	-	-	-	39
1,292	-	-	-	-	5,463
1,207	-	-	-	-	6,680
-	-	-	-	-	4,515
11,931	-	-	-	-	33,054
53	-	-	-	-	161
217,922	-	-	19,493	-	604,238
<u>3,998,717</u>	<u>2,439</u>	<u>184,871</u>	<u>331,493</u>	<u>8,896</u>	<u>9,631,819</u>
<u>6,963,008</u>	<u>2,697</u>	<u>184,871</u>	<u>442,693</u>	<u>197,218</u>	<u>16,932,225</u>

South Orange County Wastewater Authority
Engineering Expenses
For the Year Ended June 30, 2016

Salary and Fringe	
Regular Salaries-O&N	\$ 130,251
Fringe Benefits IN to PC's & Depts.	48,248
Total Payroll Costs	<u>178,499</u>
Other Expenses	
Engineering - Misc	21,608
Management Support Services	16,004
Miscellaneous Expense	121,701
Office Supplies - All	37
Travel Expense/Tech. Conferences	974
Training Expense	594
Membership Dues/Fees	862
Mileage	98
Recruitment	30,300
Operating Leases	15,348
Monthly Car Allowance	1,938
IT Allocations in to PC's & Depts.	45,721
Total Other Expenses	<u>122,499</u>
 Total Engineering Expenses	 <u><u>\$ 300,998</u></u>

South Orange County Wastewater Authority
Administrative Expenses
For the Year Ended June 30, 2016

Salary and Fringe	
Fringe Benefits IN to PC's & Depts.	\$ 537,570
Regular Salaries-Admin & IT	667,234
Overtime Salaries-Admin & IT	21,816
Total Payroll Costs	<u>1,226,620</u>
Other Expenses	
Public Notices/ Public Relations	1,350
Miscellaneous Expense	38,209
Office Supplies - All	2,705
Insurance - Property/Liability	1,374
Office Equipment	7,814
Earned Benefit	2,211
Recruitment & Employee Relations	22,310
Management Support Services	180,895
Audit	22,900
Legal	76,861
Postage	3,512
Board of Directors - Fees	10,854
Memberships & Trainings	57,300
Travel & Conference	24,734
Scholarship Sponsorship	1,000
Miscellaneous	18,408
Mileage	328
Contract Services Misc	4,225
IT Allocations in to PC's & Depts.	80,556
Shipping/Freight	1,067
Monthly Car Allowance	11,607
Total Other Expenses	<u>570,220</u>
Total Administrative Expenses	<u><u>\$ 1,740,032</u></u>

South Orange County Wastewater Authority
Information Technology Expenses
For the Year Ended June 30, 2016

Salary & Fringe	
Fringe Benefits IN to PC's & Depts.	\$ 52,159
Regular Salaries-Admin & IT	66,870
Overtime Salaries-Admin & IT	1,275
Total Salary & Fringe	<u>120,304</u>
Other Expenses	
Office Supplies - All	91
Small Tools & Supplies	458
Training Expense	99
Office Equipment	3,626
Mileage	83
Subscriptions	168
Management Support Services	5,021
Memberships & Trainings	13,701
Travel & Conference	1,586
Software Maintenance Agreements	74,078
Hardware Maintenance Agreements	150,043
Cloud Subscriptions (Internet)	21,049
Telecommunications	116,136
IT Professional Services	158,246
Small Hardware Purchases (< \$5k)	4,692
Small Software Purchases (<\$5k)	13,469
Operating Leases	42,880
Total Other Expenses	<u>605,426</u>
Total IT Expenses before Allocation	<u>\$ 725,730</u>
IT Allocations (OUT) to PC's & Depts.	(725,730)

South Orange County Wastewater Authority
Depreciation Summary Report
For the Year Ended June 30, 2016

Class	No. of Assets	Acquisition Value	Disposal Price	Depreciation Basis	Total Depreciation	Book Value
Building Improvements	47	10,042,279	-	10,042,279	7,558,119	2,484,160
Buildings	30	20,024,645	-	20,024,645	14,483,681	5,540,964
Computer Hardware	50	2,369,250	-	2,369,250	1,996,522	372,728
Computer Software	10	109,714	-	109,714	83,008	26,706
Furniture & Fixtures	7	116,326	-	116,326	116,326	(0)
Infrastructure	143	123,304,844	-	123,304,844	77,758,566	45,546,278
Land	4	14,402,224	-	14,402,224	-	14,402,224
Machinery & Equipment	284	58,750,579	-	58,750,579	40,213,656	18,536,923
Vehicles	34	665,702	-	665,702	487,505	178,197
GRAND TOTALS:	609	229,785,563	-	229,785,563	142,697,383	87,088,180
9 class(es) listed.						
Less Land		14,402,224	-	14,402,224	-	14,402,224
Plant and Equipment		215,383,339	-	215,383,339	142,697,383	72,685,956

OTHER
INFORMATION

**South Orange County Wastewater Authority
Other Information
For the year ended June 30, 2016**

PROJECT COMMITTEES

The following is a description of Project Committee ("PC") activity during the fiscal year ended June 30, 2016:

Project Committee No. 2 ("PC 2") and Project Committee No. 2 Rehabilitation ("PC 2R")

PC 2 was formed for the acquisition, use, operation, maintenance and expansion of the J.B. Latham Sewage Treatment Plant. Operations and maintenance expenses are allocated to participating member agencies on the basis of ownership and usage of the facilities. Standby charges are based on unused capacity. On June 30, 2016, the capacity ownership of the PC 2 members in the J.B Latham Sewage Treatment Plant, excluding the Advanced Wastewater Treatment ("AWT") project, was as follows:

Members	Liquid Capacity		Solids Handling Capacity	
	(MGD)	Percentage	(MGD)	Percentage
CSJC	4.00	30.77%	5.55	30.00%
MNWD	3.00	23.08%	4.00	21.62%
SCWD	3.75	28.84%	3.70	20.00%
SMWD	2.25	17.31%	5.25	28.38%
Total	13.00	100.00%	18.50	100.00%

MGD = Million gallons per day average dry weather flow rate

On June 29, 2000, the members entered into Amendment 2 to the PC 2 agreement to provide for the design and construction of the AWT project at the J.B. Latham Sewage Treatment Plant. The PC 2 members who funded, and therefore have capacity interest in the AWT project, are CSJC, MNWD, and SCWD.

Project Committee No. 2(SO) ("PC 2(SO)")

PC 2(SO) was formed in order to obtain a permit to discharge reclaimed water. The Authority is to hold a single producer/primary user permit and maintain waste discharge permit requirements for the production, distribution and use of reclaimed water. A portion of the costs are split equally among each member agency, part of the costs are allocated to member agencies based on non-potable water production in Region 9, and permit costs are allocated based on region. CSJC, ETWD, IRWD, MNWD, SCWD, SMWD, and TCWD are members of PC 2(SO).

Project Committee No. 3A ("PC 3A") and Project Committee No. 3A Rehabilitation ("PC 3A(R)")

The Authority provides contract operation and maintenance services for the PC 3A wastewater treatment plant and related reclamation facilities for the benefit of MNWD and SMWD. An amendment to the original agreement extended the contract to the fiscal year ending June 30, 2012. The agreement provides for subsequent extensions.

**South Orange County Wastewater Authority
Other Information, Continued
For the year ended June 30, 2016**

PROJECT COMMITTEES, Continued

Project Committee No. 5 ("PC 5")

PC 5 was formed for the purpose of planning, designing, constructing, operating and maintaining the San Juan Creek Ocean Outfall. On June 30, 2016, the capacity ownership of the PC 5 members in the San Juan Creek Ocean Outfall was as follows:

<u>Members</u>	<u>MGD</u>	<u>Percentage</u>
CSC	13.30	16.62%
CSJC	8.86	11.08%
MNWD	12.41	15.51%
SCWD	9.97	12.47%
SMWD	35.46	44.32%
Total	80.00	100.00%

MGD = Million gallons per day peak flow rate

Project Committee No. 15 ("PC 15") and Project Committee No. 15 Rehabilitation ("PC 15R")

PC 15 caused construction of facilities known as the Coastal Wastewater Treatment Facility to receive and treat wastewater. Operations and maintenance expenses are allocated to participating member agencies on the basis of ownership and usage of the facilities. PC 15R is used to account for rehabilitation and construction projects for the Coastal Treatment Plant. On June 30, 2015, the capacity ownership of the PC 15 members in the Coastal Treatment Plant was as follows:

<u>Members</u>	<u>MGD</u>	<u>Percentage</u>
CLB	2.54	37.91%
EBSD	0.20	2.99%
SCWD	2.00	29.85%
MNWD	1.96	29.25%
Total	6.70	100.00%

MGD = Million gallons per day average dry weather flow rate

**South Orange County Wastewater Authority
Other Information, Continued
For the year ended June 30, 2016**

PROJECT COMMITTEES, Continued

Project Committee No. 17 ("PC 17") and Project Committee No. 17 Rehabilitation ("PC 17(R"))

PC 17 is for the operations and maintenance of the facilities known as the Regional Wastewater Treatment, Reclamation and Solids Handling Facilities ("Joint Regional Treatment Plant"). The Joint Regional Treatment Plant treats and reclaims wastewater and handles solid waste. Operations and maintenance expenses are allocated to participating member agencies on the basis of ownership and of usage of the facilities. PC 17(R) is used to account for rehabilitation and construction projects for the Joint Regional Treatment Plant. On June 30, 2016, the capacity ownership of the PC 17 members in the Joint Regional Treatment Plant was as follows:

Members	Liquid Capacity		Solids Handling Capacity	
	(MGD)	Percentage	Pounds	Percentage
CLB	-	0.00%	5,605	11.22%
EBSD	-	0.00%	295	0.59%
ETWD	-	0.00%	10,200	20.41%
MNWD	12.00	100.00%	29,395	58.82%
SCWD	-	0.00%	4,480	8.96%
Total	12.00	100.00%	49,975	100.00%

MGD = Million gallons per day average dry weather flow rate
Pounds = Loadings are shown in pounds per day

Project Committee No. 21 ("PC 21")

PC 21 is for the operation and maintenance of the Effluent Transmission Main. Expenses are allocated to participating members on the basis of ownership of the facilities as follows:

Members	Reach B/C	Reach D	Reach E
ETWD	50.00%	50.00%	23.29%
IRWD	50.00%	50.00%	23.29%
MNWD	0.00%	0.00%	53.42%
Total	100.00%	100.00%	100.00%

On October 7, 1999, the title to Reach A of the Effluent Transmission Main was transferred to Los Aliso Water District (now part of IRWD) and the El Toro Pump Station was transferred to ETWD. The Alicia Parkway Pump Station is owned and operated by MNWD.

PROJECT COMMITTEES, Continued

Project Committee No. 23 ("PC 23")

PC 23 is for the operations and maintenance of the North Coast Interceptor and the Laguna Beach and Bluebird pump stations. Operations and maintenance expenses are allocated to participating member agencies on the basis of ownership and usage of the facilities. The City of Laguna Beach operates and maintains the facility. Ownership of the facilities at June 30, 2016 was as follows:

**South Orange County Wastewater Authority
Other Information, Continued
For the year ended June 30, 2016**

Members	Percentage
CLB	95.88%
EBSB	4.12%
Total	100.00%

Project Committee No. 24 ("PC 24")

PC 24 is for the operations and maintenance of the facilities known as the Aliso Creek Land and Ocean Outfall which disposes of treated wastewater. Operations and maintenance expenses are allocated to participating member agencies on the basis of ownership and usage of the facilities. On June 30, 2016, the capacity ownership in the Aliso Creek Ocean Outfall was as follows:

Members	MGD	Percentage
CLB	5.50	11.00%
EBSB	0.39	0.78%
ETWD	8.15	16.30%
IRWD	7.88	15.76%
MNWD	21.92	43.85%
SCWD	6.16	12.31%
Total	50.00	100.00%

MGD = Million gallons per day peak flow rate

Pre-Treatment Program

The Pre-Treatment Program was established in compliance with the Environmental Protection Agency ("EPA") to monitor the contents of industrial waste flowing from industries within the areas served by several of the member agencies.

November 20, 2017

Betty Burnett, General Manager
South Orange County Wastewater Authority
34156 Del Obispo Street
Dana Point, CA 92629

Re: FY 15-16 Supplemental Schedules

Dear Ms. Burnett:

On several occasions over the past five months Moulton Niguel Water District ("MNWD") has requested to discuss outstanding and unanswered questions on South Orange County Wastewater Authority ("SOCWA") supplemental schedules that were provided as part of the draft Fiscal Year ("FY") 15-16 audit report. Those questions are included as Enclosure 1 to this letter. On October 31, 2017, you indicated that you could not provide an estimated timeframe on when those schedules will be brought back for review. As expressed at the October 31, 2017, SOCWA Finance Committee meeting, MNWD cannot support approval of the Fiscal Year 2016-17 audit without inclusion of the supplemental schedules and responses to the related questions.

The supplemental schedules are a critical component of the audit report, as evidenced by the following comments and questions:

1. SOCWA is holding approximately \$6 million of unreconciled funds deposited by the ten member agencies, yet continues to invoice the member agencies millions of dollars each quarter.
 - a. The FY 15-16 supplemental schedules allocation of cash disagree with the presentation by Leaf & Cole, LLP, provided on May 22, 2017. Which set of information is correct, if any, and when does SOCWA intend to resolve the cash by member agency issue?
2. The supplemental schedules allocate assets and liabilities by Project Committee ("PC"). SOCWA staff had previously indicated those allocations are arbitrary. It is necessary to reflect an accurate allocation of assets and liabilities by PC.
 - a. How is the allocation of Net Pension Liability allocated across the PCs? How are those liabilities being funded? Does the Net Pension Liability rest with SOCWA as a whole or with the participating member agencies?
 - b. How is SOCWA addressing the existing unfunded liabilities with the changing conditions among SOCWA's PCs, i.e. El Toro Water District ("ETWD") participation in PC 12?
 - c. How is the Net Pension Liability associated with the *General Fund being* allocated and funded?

3. SOCWA cannot exceed its proposed expenditure budget at the PC level. The consolidated audit report does not provide sufficient detail for the Board to enforce those controls.
 - a. The Use Audit or the monthly financial reports are the only other reports the Board can view that provides the level of detail necessary. However, the Use Audit is yet to be completed and SOCWA has indicated they will not be presenting the monthly financial report for some time. How does the Board plan to monitor spending by PC without these critical documents?

MNWD is aware that SOCWA intends to receive approval on the FY 16-17 audit in December. MNWD wants to be extremely clear that we do not intend to approve the FY 16-17 audit if these questions remain unanswered, nor would we approve the audit and simply ignore these questions by excluding the supplemental schedules as was done with the FY 15-16 audit. We support the desire to approve the audit in a timely manner, but not at the expense of accurate and supportable accounting. The supplemental schedules are a critical component of the audit report and cannot be dismissed by the SOCWA Board of Directors or SOCWA staff.

Cash by Member Agency

MNWD still has the following outstanding questions related to cash by member agency originally included in the enclosed letter:

15.a. The [Net Position by PC] schedules on pages 46-56 do not match the schedule provided by Leaf & Cole, LLP, on May 22, 2017, for cash by PC. There was no cash allocated to the General Fund in that presentation, yet this schedule per the draft audited statements indicates approximately \$257,000 assigned to the General Fund.

15.c. The [Net Position by PC] schedule shows that there is "\$684,767" of compensated absences allocated to the General Fund. However, the \$257,000 is not sufficient to fund these compensated absences, despite the fact that the May 22, 2017, presentation of cash by member agency indicated SOCWA was holding "\$684,765" in "reserves" for these liabilities.

16. Pages 47 and 50 – PCs 02 and 08 indicated positive cash balances of \$1,140,169 and \$25,235, respectively, yet both PCs have been allocated a negative LAIF interest receivable. Can SOCWA explain the methodology for allocating negative LAIF interest receivable to those PCs?

On May 22, 2017, the SOCWA Finance Committee received a presentation from Leaf & Cole, LLP, indicating that SOCWA held nearly \$6 million in member agency deposits. During that presentation, Leaf & Cole, LLP, stated that SOCWA used "historical records" to attempt to corroborate a \$4.1 million piece of that \$6 million balance. Upon further discussion, it was discovered that the historical records



referenced were the supplemental schedules included in past audit reports. This admission clearly suggested that SOCWA staff believed the supplemental schedules had enough merit as of May 22, 2017, to use them as “evidence” of prior reconciliations. MNWD was one of several agencies that discussed concerns with the methodology presented that day.

Just eleven calendar days later, SOCWA provided the draft audit report for FY 15-16, and the supplemental schedules therein contained significant variances from the Leaf & Cole, LLP presentation. MNWD and the SOCWA Board were told by the external auditor, Davis Farr, LLP, that the supplemental schedules are not audited and they do not give assurances on those schedules.

So, in summary, SOCWA has approximately \$6 million of unaccounted extra deposits, and relied on unsubstantiated “historical records” that SOCWA claimed were part of past audits, but that the auditors affirmed were simply provided by SOCWA and not audited. SOCWA relied on Leaf & Cole, LLP, who relied on Davis Farr, LLP, who relied on SOCWA for the unaudited schedules, demonstrating a clear lack of proper verification. Even amongst those schedules SOCWA did provide, SOCWA was unable to provide a consistent allocation of cash by member agency to either CPA firm.

On top of those issues, the supplemental schedules used in the past were unable to corroborate almost \$1 million of deposits that are completely unaccounted for. This issue could have been averted had SOCWA maintained adequate records and supplemental schedules in the past.

Supplemental Schedules and Misallocation of Net Pension Liabilities

MNWD still has the following outstanding questions related to the allocation of Net Pension Liabilities across PCs, originally included in the enclosed letter:

15.c.ii. The net pension liability is the result of future benefits to be provided to SOCWA employees. “Payroll costs payable” are allocated to the General Fund, yet there is no associated Net Pension Liability allocated to the General Fund. Please explain your reasoning for allocating the liabilities in this manner.

17. Page 51 – PC 12 has “payroll costs payable”, yet no associated Net Pension Liability. Please explain your reasoning for allocating the liabilities in this manner.

18. Pages 54-55 – PCs 21 and 23 have no payroll costs or associated Net Pension Liability, yet the fact that separate funds and schedules are maintained is a clear indication that staff time is needed to track these PCs. Where is the SOCWA staff time associated with these PCs allocated? Please explain why the treatment and allocation for these items are inconsistent for PCs 21 and 23 as compared to PCs 02, 03, 05, 08, 12, 15, and 17.



In addition to those questions, and upon further review of the supplemental schedules leading up to the October 5, 2017, SOCWA Board meeting, MNWD identified the following concern. On page 48 of the supplemental schedules, SOCWA indicates that PC 3A has a \$1.2 million Net Pension Liability, yet in the FY 16-17 and FY 17-18 proposed budgets, there is no funding for PC 3A. It is not clear how the liabilities associated with SOCWA's past performance at Plant 3A is being calculated or funded. Should PC 3A indicate any Net Pension Liability since those employees were transferred to other facilities? If there is a remaining liability with PC3A, how is it being funded? MNWD would like to know how SOCWA calculated the Net Pension Liability balances that are recorded within each PC, as there does not appear to be a consistent approach or treatment.

One risk in recording assets and liabilities only at the Authority level assumes that nothing will ever change at SOCWA in relation to the PC participation, when we know that is not the case. As mentioned above, the PC 3A participants no longer utilize SOCWA as contract operators, and in the FY 17-18 Budget discussions, ETWD gave notice of an intent to withdraw from PC 12. How is SOCWA planning to obtain the funding from former or outgoing PC participants as it relates to the Net Pension Liability, or the Other Post-Employment Benefits ("OPEB") liability?

Finally, if assets and liabilities rest with individual member agencies according to each agencies' participation at the PC level, should the assets and liabilities even be reported on SOCWA's Statement of Net Position? Using PC 3A as an example, if the ownership of that liability rests with the former PC 3A participants, does SOCWA actually owe \$1.2 million towards the Net Pension Liability, or should that liability be transferred to the former participants to be recorded on their financial statements? If this is the case, SOCWA's total Net Pension Liability may have been materially overstated in past audits.

These questions are quite significant and can have far reaching consequences if not addressed. It is imperative that the SOCWA Board have a clear understanding of the current status of cash, allocations of assets and liabilities, and the implications of changing conditions within SOCWA on those allocations. These items directly reflect the importance of accurate and consistent supplemental schedules. For this reason, MNWD cannot support approval of the audit without updated supplemental schedules and the associated answers to the questions and concerns above.

Thank you,



Matt Collings



Enclosures:

1. Letter dated June 9, 2017, to Ms. Betty Burnett "Financial Statements & Independent Auditor's Report FY Ending June 30, 2016"

cc: Mary Carey, SOCWA Controller
SOCWA Board of Directors
MNWD Board of Directors
Member Agency Finance Officers
Joone Lopez, MNWD General Manager
Trevor Agrelius, MNWD Controller



June 9, 2017

Betty Burnett, General Manager/Treasurer
South Orange County Wastewater Authority
34156 Del Obispo Street
Dana Point, CA 92629

Re: Financial Statements & Independent Auditor's Report FY Ending June 30, 2016

Dear Ms. Burnett:

Moulton Niguel Water District ("MNWD") received the South Orange County Wastewater Authority ("SOCWA") draft audited Financial Statements and Independent Auditor's Report for Fiscal Year ("FY") 2015-2016 on Monday, June 5, 2017. MNWD understands the importance of producing accurate and understandable financial statements for the public and each of SOCWA's ten member agencies.

We recognize SOCWA's desire to submit these financial statements to the Board on June 14, 2017. However, MNWD has concerns related to this timeline, given the significant process and reconciliation questions identified during our review of the information provided. In summary, the main concerns we have identified are:

1. The qualified opinion received by SOCWA for the second consecutive year.
2. The procedures used to reconcile and the representation of the cash by member agencies and project committees. Specifically, the several discrepancies noted between the draft audited statements and other financial reports and presentations provided during the course of the year.
3. The overall audit process, including the substantive test work and quality.

MNWD recommends having the auditor address the questions and concerns below to ensure the financial statements are accurate before they are considered by the Board for adoption. We are concerned and disappointed to see that SOCWA will again be receiving a qualified opinion on the FY 15-16 audited statements, as there were no indications given to the member agencies that this would be the case. Receiving a qualified opinion two years in a row is a cause for serious concern, and should have been discussed prior to the time the draft audited statements are being provided for consideration.

Audit Process:

MNWD raised concerns last year related to the quality of the FY 14-15 draft audited statements and the quality of substantive test work performed in the past regarding unrecorded real property, as these deficiencies were the basis for the qualified opinion for the FY 14-15 audit. We still have those same concerns, and request additional information about the type of test work performed in specific areas, as identified below:

1. How long has the current auditor been engaged with SOCWA, including the years the auditor was formerly Mayor Hoffman McCann, P.C.? Additionally, how long has the engagement partner served in that capacity during that same time frame? Assembly Bill 1345 requires rotation every six years, and although there is no requirement to include years prior to FY 13-14, we would be interested to know that information.
2. The opinion letter on page 3 of the draft audited statements refer to "internal control over financial reporting and on our tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements and other matters," and states that this report is "an integral part of the audit performed in accordance with Government Auditing Standards." The letter on internal control did not mention any tests of compliance referenced in the opinion letter. We understand that the auditor is not expected to provide an opinion on compliance; however, MNWD would like to know the specific types of compliance test work performed by the auditor:
 - a. Did the auditor inspect SOCWA's purchasing policy to determine if FY 15-16 expenditures complied with that policy? The most recent purchasing policy SOCWA has provided to MNWD was approved on March 5, 2015. In Section 7 of that policy, it states that "annually, the General Manager shall update the authority levels and dollar amounts for specific positions and the same shall be submitted with the Budget Assumptions." In reviewing the FY 15-16 and FY 16-17 budgets, the spending authority was not included as part of the budget assumptions, yet we did not see this identified in the letter on internal control as a deficiency in compliance related matters. In fact, Appendix 1 of that policy indicates the spending limits are applicable to FY 14-15 only.
 - b. Did the auditor review SOCWA's Joint Exercise of Powers Agreement to determine the legal level of authority the General Manager has to transfer funds among project committees? Section 6.5 of the agreement states "no expenditures in excess of those budgeted in the General Budget or in a Project Budget shall be made without the unanimous consent and approval of the directors representing the Member Agencies affected by the budget under consideration." Additionally, pages 46-56 of the draft



audited statements indicate that the net position is restricted per project committee. Yet in the FY 15-16 Use Audit, project committees 02, 08, 15, and 17 all incurred expenditures in excess of the budget without approved budget amendments (see pages 15-15x of the final FY 15-16 Use Audit).

- c. Government Code Section 6505 requires that audited financial statements for Joint Powers Authorities be submitted to the County Auditor within 12 months after the end of the fiscal year(s) under examination. SOCWA received a letter from Mr. Eric Woolery, Orange County Auditor-Controller on March 31, 2017, indicating that the audited statements for the period ending June 30, 2015 had been submitted late. Moreover, section 10.2 of SOCWA's Joint Exercise of Powers Agreement is even more restrictive, and states that the audited financial statements "shall be filed with the State Controller, Orange County Auditor and each member agency within six (6) months of the end of the Fiscal Year under examination. The submission of the audited financial statements for both FY 14-15 and FY 15-16 violated that section of the agreement, yet there was no mention of this non-compliance in the letter on internal control.
3. Can the auditor provide specific information on the substantive test work performed related to the real property additions that resulted in a \$38.9M restatement to beginning net position? Up until this time, the member agencies have received limited information regarding this restatement.
 - a. Did the auditor verify that the newly recorded values were reported to the County of Orange, which was indicated in SOCWA's response to the FY 14-15 deficiency noted in the FY 14-15 letter on internal control?
 4. SOCWA has engaged Leaf and Cole, LLP to perform procedures to substantiate SOCWA's cash on hand by member agency, project committee, and capital project. What specific procedures were performed by the auditor during the FY 15-16 audit to verify cash on hand by member agency, project committee, and capital project? What specific procedures were performed in past fiscal years, as it has been noted that the audit team has remained relatively consistent for several years?
 5. On the internal control letter, the third paragraph mentions the definition for both a significant deficiency and a material weakness, yet the last sentence states "we consider the following deficiencies to conform to that definition." It is unclear whether deficiency #1 noted was classified as a material weakness or a significant deficiency. The summary of the deficiency states that the adjustment itself was material, so we believe it to be a material weakness, but nevertheless request clarification. We'd also like to know what the dollar amount of that adjustment was, and how many projects were not properly closed by SOCWA.



6. We did not see any mention of the \$38.9M restatement to net position or the lack of historical documentation for \$23.6M listed on the internal control letter as significant deficiencies or material weaknesses. We want to understand the auditor's methodology for not including them in that letter.
7. MNWD concurs with the recommended best practices noted on Page 2 of the internal control letter. Item #1 mentions that there is a lack of proper segregation of duties related to the accounts payable process, but a compensating control will be performed going forward. Did the auditor verify that no unauthorized changes or improper payments were made during FY 15-16, and why was this not disclosed in past audits if there were not proper controls or compensating controls in place?

Draft Audited Financial Statements:

8. Page 2 – The auditor indicated the reason for the qualified opinion on the FY 15-16 audit is due to poor historical records related to \$23.6M of infrastructure capital assets. Is that \$23.6M part of the \$38.9M restatement mentioned in question #4 above? Also, given the fact that the records are not currently available, in the event the records are not retrievable, can the member agencies expect qualified opinions on future financial statements in perpetuity due to this issue? Later in the report on page 4, SOCWA indicated that the Authority will pursue further evaluation to obtain supporting detail for these assets. Can you clarify the scope of that effort?
9. Page 4 – GASB 68 Deferred Outflows should not be located under Liabilities. See page 8, as it is presented accurately on that page. Deferred Inflows are also not liabilities as indicated on page 4.
10. Page 4 – Can we get detailed information on the \$108.1M and (\$82.9M) restatements for capital asset additions indicated? MNWD previously requested this and additional information related to these restatements from the SOCWA Controller on May 9, 2017, and was told we would receive the information after the audit was finalized. This response is unacceptable, as the audit cannot be finalized until those questions are properly addressed.
11. Page 12 – The capital asset section under supplementary information indicates there was \$3.9M in construction in progress that was completed during the year; however, pages 32-35 of the FY 15-16 Use Audit only indicates \$2.9M was closed out. Can you provide additional detail to substantiate this \$1.0M discrepancy? The completed projects listed in the Use Audit were PC 17 – 3703, 3705, 3732 and PC 15 – 3535. This discrepancy directly impacts the reconciliation of cash by member agency.



12. Page 16 – We noted several differences between this Statement of Revenues, Expenses, and Changes in Net Position and the FY 15-16 Use Audit, as identified below. We hereby request any details available that might substantiate the following discrepancies:

- a. Total O&M member agency assessments per the draft audited statements is \$19.1M. Total O&M member agency receipts per the Use Audit were \$18.6M (page 1 of Use Audit). If we were to include the actual assessments after the use audit, the total assessments would be \$18.4M.
- b. Total operating expenses, excluding depreciation per the draft audited statements are \$18.9M. Total O&M expenses allocated to Member agencies per the Use Audit was \$18.4M (page 1 of the FY 15-16 Use Audit).
 - i. These items add up to \$1.2M of incorrectly applied contributions and expenses that were included as part of the Use Audit, and has direct impact on the reconciliation of cash by member agency.

13. Page 16 – We request details or explanations for the capital donations to other governments – (\$1,548,438).

- a. Page 59 indicates these expenses identified as PC 3A CIP Elimination. If these expenses were indeed CIP from previous years, they should not be recorded as FY 15-16 expenses. Rather, they should be recorded as a restatement of the beginning net position for project committee 03.

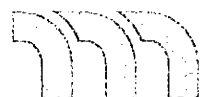
14. Page 28 – We would like to request that this schedule show the beginning balance per the ending FY 14-15 audited balance and the adjustment column, in order to track the changes made as a result of the real property additions.

15. Page 46 – The first schedule of Net Position by Project Committee that is presented is the General Fund. This is the first time a General Fund has been presented for FY 15-16 in any report provided to the member agencies. How are each of the 13 individual line items included on this schedule allocated to each member agency?

- a. The schedules on pages 46-56 do not match the schedule provided by Leaf and Cole, LLP on May 22, 2017, for cash by project committee. There was no cash allocated to the General Fund in that presentation, yet this schedule per the draft audited statements indicates approximately \$257,000 assigned to the General Fund.



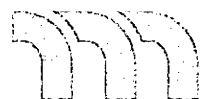
- b. This schedule identifies \$32,540 in capital assets associated with the General Fund. Can you provide detail into what specific capital assets are included in this fund, what each member agency contributed to fund those assets, and how they are allocated among the member agencies on SOCWA's books?
 - c. This schedule shows that there is \$684,767 of compensated absences allocated to the General Fund. However, the \$257,000 is not sufficient to fund these compensated absences, despite the fact that the May 22, 2017, presentation of cash by member agency indicated SOCWA was holding "\$684,765" in "reserves" for these liabilities.
 - i. Why is 100% of the compensated absences liability allocated to the General Fund, when the majority of the different project committees have "payroll costs payable," indicating employees are assigned to those project committees? The liability should reside within the project committee in which the employee and payroll expense are assigned. Please explain your reasoning for allocating the liabilities in this manner.
 - ii. The net pension liability is the result of future benefits to be provided to SOCWA employees. "Payroll costs payable" are allocated to the General Fund, yet there is no associated net pension liability allocated to the General Fund. Please explain your reasoning for allocating the liabilities in this manner.
16. Pages 47 and 50 – Project committees 02 and 08 indicate positive cash balances of \$1,140,169 and \$25,235, respectively, yet both project committees have been allocated a negative LAIF interest receivable. Can SOCWA explain the methodology for allocating negative LAIF interest receivable to those project committees?
17. Page 51 – Project committee 12 has "payroll costs payable", yet no associated net pension liability. Please explain your reasoning for allocating the liabilities in this manner.
18. Pages 54-55 – Project committees 21 and 23 have no payroll costs or associated net pension liability, yet the fact that separate funds and schedules are maintained is a clear indication that staff time is needed to track these project committees. Where is the SOCWA staff time associated with these project committees allocated? Please explain why the treatment and allocation for these items are inconsistent for project committees 21 and 23 as compared to project committees 02, 03, 05, 08, 12, 15, and 17.



19. Page 57 – MNWD requested that the Use Audit be postponed until after the FY 15-16 audit was completed to ensure costs were fully captured in the Use Audit. Our request was denied, and only here are we shown that \$309,680 was missed during the FY 15-16 Use Audit. MNWD requests more detail related to these items, and to understand how these expenses were not captured as part of SOCWA's internal control and review processes.
- a. The notes indicate that these expenses will be allocated in FY 16-17. Can you explain how you intend to allocate those expenses to the member agencies?
 - b. Furthermore, the presentation of cash by member agency given by Leaf and Cole, LLP on May 22, 2017 indicated the audit adjustment was \$311,131. Was that amount referencing these missed O&M expenses or the material audit adjustment noted by the auditors?
20. Page 59 – Why is there (\$9,148) in administration expenses allocated to project committee 03?
21. Pages 69-72 – This schedule does not include a General Fund, which is a different presentation then the schedules on pages 57-67. Furthermore, the total expenses on this schedule do not reconcile with the schedules on pages 57-67. Please explain the discrepancy in operating expenses between the two schedules.
22. Page 78 – Project committee 3A information should either be removed or reworded to indicate that SOCWA no longer provides contract operation and maintenance services for this facility.

Audit Communication Letter:

23. Page 1 – The first bullet under the most sensitive estimates section states “management judgements regarding the allocation of capital costs due to/from member agencies for various capital projects.” We request clarification as to what this refers to. Our understanding of allocations for capital costs at each facility is based on ownership capacity, which is a fixed number, not an estimate.
24. Page 2 – Under the corrected and uncorrected misstatements section, the auditors mention one material adjustment was detected as a result of audit procedures. As indicated in question #6 above, we would like additional information on this material adjustment. We would also like to know why these projects were not captured during the Use Audit.



MNWD requests a report on your plan for the FY 16-17 audit. SOCWA's contract with the current auditor is limited to the FY 15-16 audit. SOCWA staff received clear direction from the Finance Committee in August 2016 to perform a full solicitation for its next round of auditing services, and to survey the auditing practices of SOCWA's member agencies as part of that process. Given the concerns raised in June 2016 regarding the discrepancies and mistakes in the FY 14-15 draft audited statements, we are concerned about the lack of response to the Finance Committee's direction.

Due to the multitude of discrepancies, MNWD does not recommend these draft audited statements for approval by the SOCWA Board of Directors until the points above are either sufficiently explained or appropriate revisions are made to the statements themselves.

Thank you,



Matt Collings

Cc: Dan Ferons, SOCWA Board Chair
Mary Carey, SOCWA Controller
Hon. Eric Woolery, County of Orange Auditor-Controller
SOCWA Finance Committee Members
SOCWA Member Agency Finance Officers
Joone Lopez, Moulton Niguel Water District General Manager
Trevor Agrelius, Moulton Niguel Water District Controller



Agenda Item

Meeting Date: December 7, 2017

TO: Board of Directors
FROM: Betty Burnett, General Manager
Staff contact: Mary Carey, Finance Controller
SUBJECT: Use Audit 2016-17 Recommendation for Approval

The Finance Committee met on December 6, 2017 to review the draft Use Audit for the Fiscal Year 2016-17. Information is provided to the Board under separate cover. Staff will be seeking concurrence to approve the Use Audit and make collections and refunds in accordance with the attached summary.

Recommended Action

The General Manager (with report of Finance Committee Action on this item) recommends to the Board of Directors: 1) approve the Fiscal Year 2016-17 Use Audit dated December 6, 2017, 2) approve refunds for Agencies whose costs were under budget, and 3) approve billings for Agencies with additional assessments in accordance with the attached summary.

Agenda Item

Legal Counsel Review: No

Meeting Dates: December 6, 2017 Finance Committee

December 7, 2017 Board Meeting

TO: Finance Committee and Board of Directors

FROM: Betty Burnett, General Manager

STAFF CONTACTS: Brian Peck, Mary Carey

SUBJECT: Infrastructure Valuation Services

Summary

On September 7, 2017, the Board of Directors authorized the work of Carollo Engineering to review SOCWA records, conduct field investigations and research, and prepare a valuation report for SOCWA infrastructure assets for submission to the FY 2016-17 Auditors, Pun Group. A Finance Committee workshop was held on September 21, 2017 for the purposes of discussing with Carollo Engineering and Pun Group representatives the scope of the work and the approach expected to be used to determine asset detail and value at the time of acquisition. At the workshop, Carollo Engineering and Pun Group discussed the planned work and there was general concurrence of the Finance Committee to proceed with the work.

For the December 6, 2017 Finance Committee Meeting and for the Board meeting on December 7, 2017, Carollo Engineering will provide an update on the project, and a general overview of the process is provided on the attached slides. At the meeting, Carollo will provide more specific information on the project progress with detailed valuation results for the Regional Treatment Plant. Work is proceeding with the resulting report expected for the December 14, 2017 Board meeting.

Background

With the submission of the FY 2015-16 Audit the DavisFarr audit firm recommended that SOCWA conduct an engineering valuation to provide the detail that supports the net book value of SOCWA infrastructure assets. In the past audit years, SOCWA has reported \$23.6 million in infrastructure assets and the project is important to identify the assets, determine what is in use and confirm the values for submission with the FY 2016-17 Audit.

Recommendations

Committee and Board Member questions and comments.

Infrastructure Audit Progress Update

December 7, 2017



Quick Recap of the Project

What:

- Review the assets in the financial register and update information

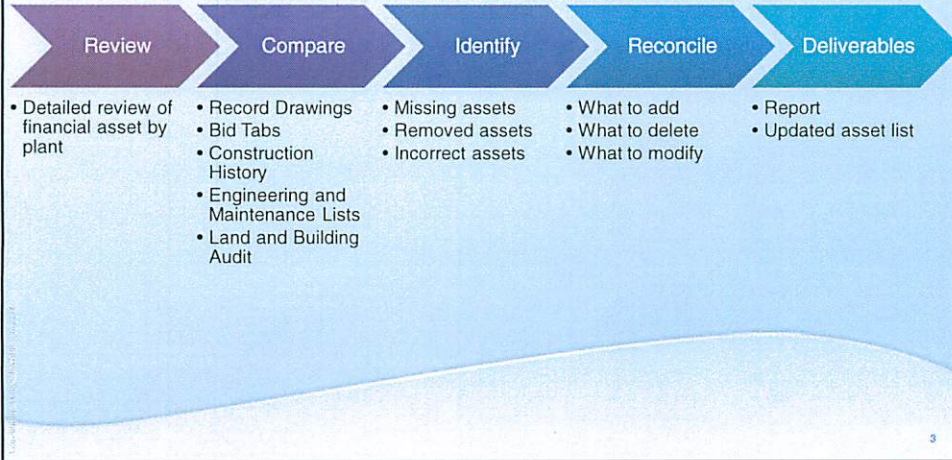
Why:

- Improve the confidence in the asset records
- Support the financial audit

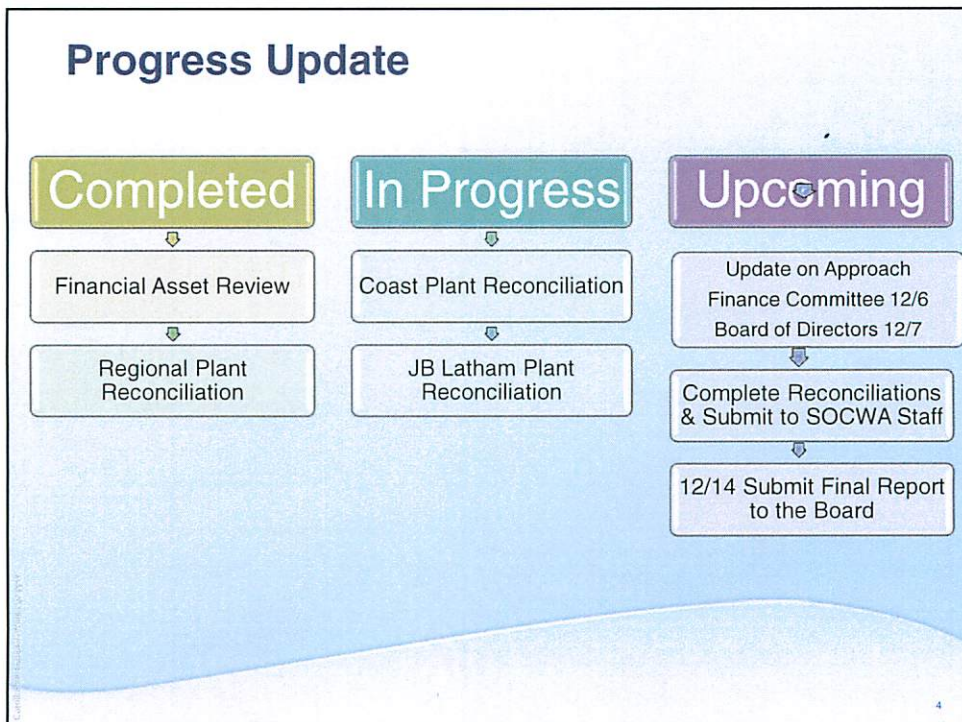
How:

- Compare the financial assets to other sources of asset information

Process Overview



Progress Update



Key Findings to this Point

A few large historically constructed projects were missing from the financial register

- Adding new asset records so they can be tracked and disposed of in future audits. Most of the assets are fully depreciated by now.

Large construction from 1970s, 80s, and 90s are lacking detail

- Adding detail to better reflect the types of assets contained in these projects, using bid tabs to split out costs.

Some historically constructed assets no longer exist

- These will be removed from the financial register.

Effect on overall value of assets is minor

5

Any Questions?



Questions

6

Agenda Item

Budgeted: Yes

Legal Counsel Review: No

Meeting Date: December 7, 2017

TO: Board of Directors
FROM: Betty Burnett, General Manager
STAFF CONTACT: Jim Burror, Director of Operations
SUBJECT: Card Access Security Expansion at the Coastal Treatment Plant – PC15

Summary

This item is to complete the security access control and monitoring system at the Coastal Treatment Plant. The cost for the project is \$123,339.00 and will be completed through our existing alarm monitoring service provider Stanley Convergent.

Discussion/Analysis

Each facility has a combination of fire and burglar alarms that are monitored during periods that employees are not on site, weekends and nights depending on the facility. This contract will be completed using small internal capital funding.

The following are the benefits of upgrading our facilities with modern safety and security features:

- Integrated alarming with the security badges will allow:
 - Monitoring activation and deactivation of the alarms
 - Safety of SOCWA staff in the event of emergency
 - Control access to restricted areas, where a staff member should be present for safety purposes
 - Automatic notification of unusually activity similar to the access control system
 - Integrated weekly reports to plant management.
 - The capability of future integration with existing security camera systems at the agency.

The project would also increase the monthly service fee by \$2,585.00 per month for 5 years to be adjusted with the consumer price index (CPI).

Executing this contract prior to the calendar year ending will avoid planned price increases of about 3% that will go into effect January 1, 2018.

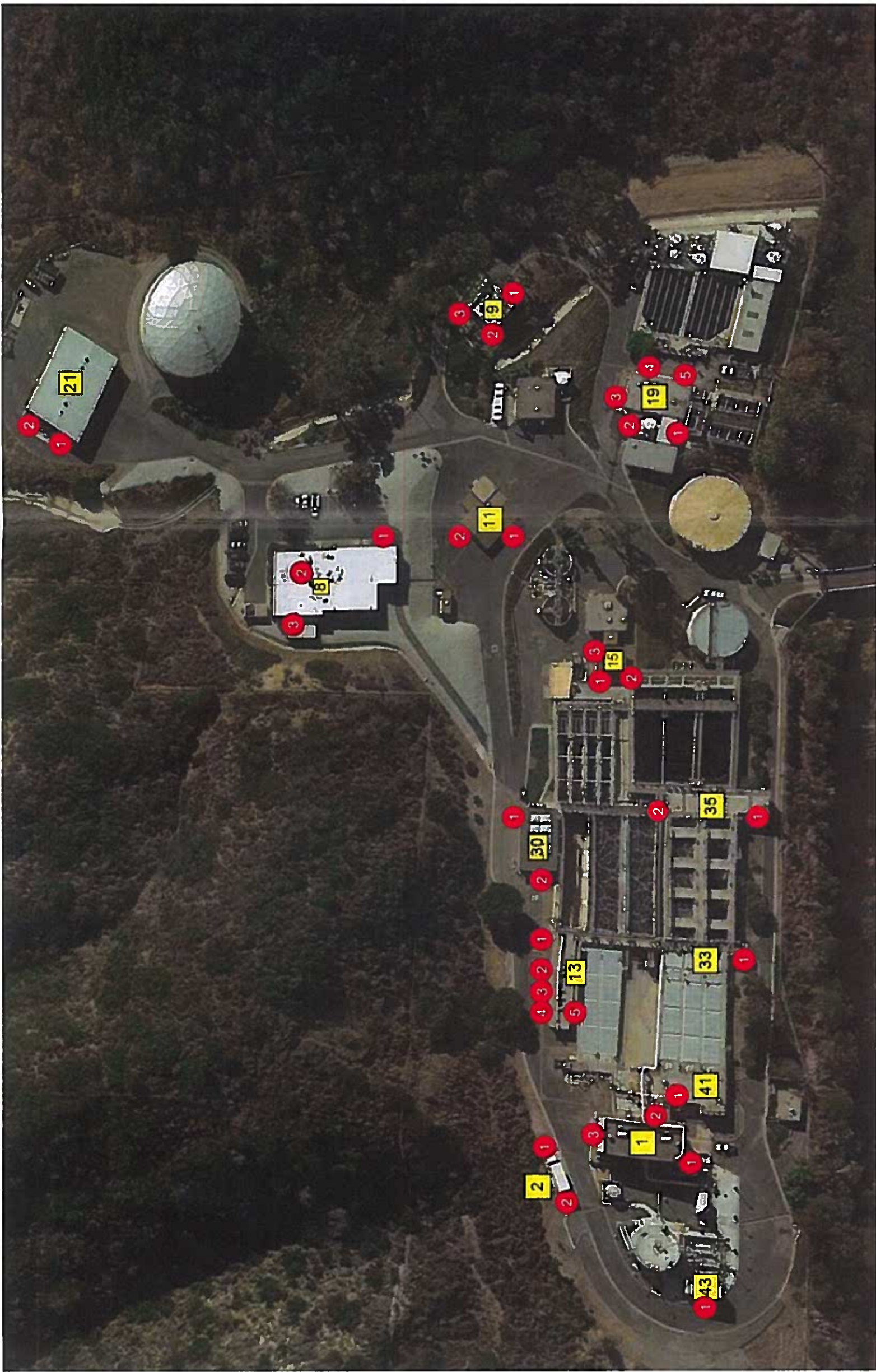
Recommendation

Approve the 5-year contract with Stanley Convergent Security Solutions for equipment installation and alarm monitoring for a total of \$123,339.00 and a monthly fee of \$2,585.00 to be adjusted with the consumer price index (CPI).

attachment - CTP Doors to be Locked Figure

Security Solutions

	Access Control Panel
	Single Door Controller
	Access Power Supply
	Lock Power Supply
	Access Enclosure
	Remote Enclosure
	Single Reader Board
	Dual Reader Board
	Input Board (16 inputs)
	Output Board (16 outputs)
	Card Reader - specify type
	Door Contact
	Electronic Lock - specify type
	Door Release Button
	Request to Exit Motion
	Request to Exit Button
	Door Management Alarm
	Intercom Master Station
	Intercom Door Station
	Electronic Lock - by others
	Door Release Button
	Request to Exit
	Request to Exit Button
	Wireless Receiver
	RJ45 Network Jack - by others
	110VAC Power - by others



SOCWA CTP			
Access Control System			
SIZE	FSCM NO	OPPORTUNITY #	REV
		0-XXXXXXXX	
SCALE	NTS	SHEET	2 OF 3

Stanley CSS
 514 South Lyon Street
 Santa Ana, CA 92701
 Tel: 714-796-7500
 Fax: 714-796-7555

Assumptions:

- All installation work to be performed during normal business hours (8a-4p M-F)
- Required conduit, as specified by Stanley CSS
- Required 110vac power provided by others, as specified by Stanley CSS
- Required RJ31x telephone jack provided by others, as specified by Stanley CSS
- Required RJ45 jack (100/1000MB) with static IP address provided by other, as specified by Stanley CSS

Installation Notes:

- All access cable shall be stranded type cable
- Lock cable shall be a minimum of 18/2 unless otherwise noted
- 22/6 card reader cable shall not exceed 250' from panel to device
- 18/6 card reader cable shall not exceed 500' from panel to device
- At all reader locations: Single gang box at reader height 46" center from ground w/mud ring - conduit stub up above ceiling.
- Cable install Standard = Suspended J-Hook w/Straps

Agenda Item

Budgeted: Yes

Legal Counsel Review: No

Meeting Date: December 7, 2017

TO: Board of Directors
FROM: Betty Burnett, General Manager
STAFF CONTACT: Jim Burror, Director of Operations
SUBJECT: Card Access Security Expansion at the Regional Treatment Plant – PC17

Summary

This item is to complete the security access control and monitoring system at the Regional Treatment Plant. The cost for the project is \$140,093.00 and will be completed through our existing alarm monitoring service provider Stanley Convergent.

Discussion/Analysis

Each facility has a combination of fire and burglar alarms that are monitored during periods that employees are not on site, weekends and nights depending on the facility. This contract will be completed using small internal capital funding.

The following are the benefits of upgrading our facilities with modern safety and security features:

- Integrated alarming with the security badges will allow:
 - Monitoring activation and deactivation of the alarms
 - Safety of SOCWA staff in the event of emergency
 - Control of access to restricted areas, where a staff member should be present for safety purposes
 - Automatic notification of unusually activity similar to the access control system
 - Integrated weekly reports to plant management.
 - The capability of future integration with existing security camera systems at the agency.

The project would also increase the monthly service fee by \$2,447.00 per month for 5 years to be adjusted with the consumer price index (CPI).

Executing this contract prior to the calendar year ending will avoid planned price increases of about 3% that will go into effect January 1, 2018.

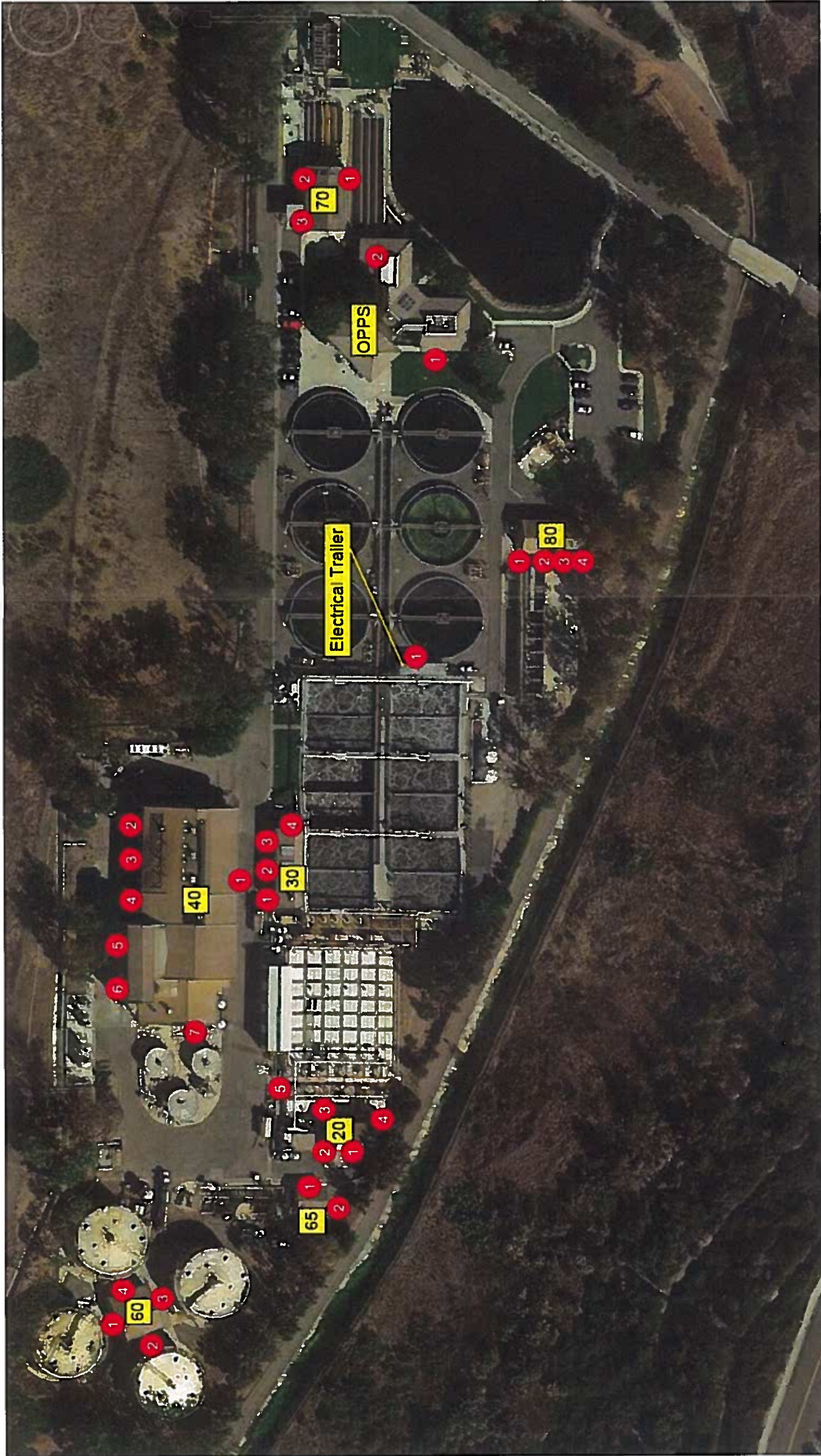
Recommendation

Approve the 5-year contract with Stanley Convergent Security Solutions for equipment installation and alarm monitoring for a total of \$140,093.00 and a monthly fee of \$2,447.00 to be adjusted with the consumer price index (CPI).

attachment - RTP Doors to be Locked Figure

Security Solutions

	Access Control Panel
	Single Door Controller
	Access Power Supply
	Lock Power Supply
	Access Enclosure
	Remote Enclosure
	Single Reader Board
	Dual Reader Board
	Input Board (16 inputs)
	Output Board (16 outputs)
	Card Reader - specify type
	Door Contact
	Electronic Lock - specify type
	Door Release Button
	Request to Exit Motion
	Request to Exit Button
	Door Management Alarm
	Intercom Master Station
	Intercom Door Station
	Electronic Lock - by others
	Door Release Button
	Request to Exit
	Request to Exit Button
	Wireless Receiver
	RJ45 Network Jack - by others
	110VAC Power - by others



<p>Stanley CSS 514 South Lyon Street Santa Ana, CA 92701 Tel: 714-796-7500 Fax: 714-796-7555</p>		<p>SOCWA RTP</p>	
<p>Access Control System</p>		<p>SIZE</p>	<p>OPPORTUNITY # 0-XXXXXXXX</p>
<p>SCALE</p>	<p>NTS</p>	<p>SHEET</p>	<p>3 OF 3</p>
<p>Assumptions:</p> <ul style="list-style-type: none"> All installation work to be performed during normal business hours (8a-4p M-F) Required conduit, as specified by Stanley CSS Required 110vac power provided by others, as specified by Stanley CSS Required RJ31x telephone jack provided by others, as specified by Stanley CSS Required RJ45 jack (100/1000MB) with static IP address provided by other, as specified by Stanley CSS 			
<p>Installation Notes:</p> <ul style="list-style-type: none"> All access cable shall be stranded type cable Lock cable shall be a minimum of 18/2 unless otherwise noted 22/6 card reader cable shall not exceed 250' from panel to device 18/6 card reader cable shall not exceed 500' from panel to device At all reader locations: Single gang box at reader height 46" center from ground w/mud ring - conduit stub up above ceiling. Cable install Standard = Suspended J-Hook w/Straps 			

Agenda Item

Legal Counsel Review: No

Meeting Date: December 7, 2017

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

Environmental Compliance

SCCWRP Bight '18 Selected Research

Southern California Coastal Water Research Project (SCCWRP) is in its 6th cycle of regional watershed monitoring work. This work assists the Regional Water Board (Region 9) in determining the impacts of human activity on the bight (Point Conception to Mexican Border).

Staff recently met with Ken Schiff, Deputy Director of the Southern California Coastal Water Research Project (SCCWRP) to learn more about the proposed microbiology research SCCWRP is planning. The next round of work will evaluate the presence of HF183 in the watershed as an indicator of human fecal pollution. The project will collect samples from urban runoff in the watershed and study HF183, a bacteriodes (another name for bacteria) as an alternative indicator organism. SCCWRP is seeking to show that HF183 may as effective an indicator as traditional fecal indicator bacteria (FIB) such as total coliform, fecal coliform, *Escherichia coli*, and fecal streptococci (enterococcus).

SOCWA analyzes for FIB on a weekly basis from reclaimed water production at RTP & CTP and at beach sites from Laguna Beach to San Clemente.

SCCWRP contends that HF183 is a better and faster predictor of human caused pollution and that by studying where HF183 resides in the watershed, managers will be better equipped to prioritize clean-up efforts. In a study by SCCWRP at Doheny State Beach HF 183 was a frequently found indicator, however, there was not a perfect correlation to FIB which casts doubt as to the efficacy of using HF 183 as a marker to inform management decisions. In addition, Title 22 which governs the water quality requirements for recycled water, allows for less than 2 coliform forming units per 100mL, therefore it is likely that the use of HF 183 as a marker could result in more recycled water providers being identified as sources in the watershed. The EPA has been providing funding to laboratories to study the use of HF183 as an alternate indicator since 2000.

Laguna Niguel Reservoir

Staff met with Orange County Public Works and Orange County Watersheds to discuss the ability to take coliform samples in the Laguna Niguel Lake on a quarterly basis. This meeting was a result of follow-up work after the January 2017 storm events. The Denton Mudry biological assessment report indicated that there was no adverse impact from the storm flows but suggested that baseline monitoring down stream of RTP would be beneficial in the future. OC Public Works agreed to take samples and share results with SOCWA staff on a quarterly basis.

ELAP

Governor Brown signed Assembly Bill 1438 into law on September 28, 2017, which makes several amendments to the California Health and Safety Code sections that govern the Environmental Laboratory Accreditation Program. The changes include:

- Outdated references to the California Department of Public Health were changed to the State Water Resources Control Board
- Existing outdated references to NELAP and NELAC were updated to TNI
- The appeals process was aligned with the process used by all other State Water Board programs
- The process for suspending or revoking accreditation was modified to provide for a hearing before the State Water Resources Control Board

The changes made by AB 1438 are considered “clean-up” actions and do not change or add any accreditation requirements. No action is required on behalf of accredited laboratories. The law goes into effect on January 1, 2018.

Safety Update - Third Quarter 2017

Notable Items since the 2nd Quarter 2017

- July 2017 – Spill Prevention and Response Training (hands on training with use of ICS System)
- July 2017 – Training – How to prepare SDS chemical labels for secondary containers
- July 2017 – WEROC Quarterly Meeting
- August 2017 – JBL Arc Flash Training with 3rd party trainer (training for arc flash rated equipment)
- August 2017 – Maintenance attended training to become Certified Forklift Trainer (to be utilized to certify newer employees for forklift use)
- August 2017 – CSRMA Risk Control Seminar (at CASA)
- August 2017 – Active Shooter and Workplace Violence Training
- September 2017 – WEROC Radio Training
- September 2017 – Quarterly Facility Safety Inspections
- September 2017 – Quarterly SOCWA Safety Committee
- September 2017 – OC Winter Weather Workshop
- September 2017 – Forklift Training
- July through September 2017 – CSRMA Monthly Webinars for upgrade of CSRMA's Online Training Capabilities
- July through September 2017 – WEROC Hazard Mitigation Plan Update
- July through September 2017 – City of Laguna Beach Hazard Mitigation Plan Update
- July through September 2017 – Credible Threat and Unknown Contaminant Training (training provided through WEROC)
- July through September 2017 – FEMA Project Reimbursement Requirements
- August through September 2017 – New Employee Safety Onboarding and Safety Orientation Meetings (6 New SOCWA Employees)
- There were No OSHA Recordable Injuries in the Third Quarter 2017

Operations & Maintenance

Winter Storm Preparations

Staff have been diligently preparing the sites for the winter. This includes training staff on storm-water equipment operations and water quality monitoring. Staff will be using the color coding system developed last year to communicate storm event severity and protective measures to be activated. The color coding system is as follows:

Code	General Description	General Measures
No Color	Normal operations	Normal staffing
Blue	A storm expected to have 1 inch or more of rain is forecast to occur within 3 days or the upcoming weekend.	Normal staffing Site preparations to be set up Monitor storm's approach
Yellow	Flows in the plants have exceeded their normally expected flow by 10% and weather is not deteriorating. For CTP, Lower Aliso Creek flows are below 2 feet, but it is raining out.	Normal shift staffing during the day. Minimum 2 operators and 1 maintenance (mechanical or electrical) staff at each plant on the weekends. Monitor storm developments Staff starts implementing high flows procedures. Interagency communications started (Oso Creek and 3A)
Orange	Flows in the plants have exceeded their normally expected flow by 25%. Weather and/or road conditions for staff traveling to work are deteriorating. For CTP, Lower Aliso Creek flows are above 2 feet and below 6 feet.	Normal shift staffing during the day. Minimum 2 operators and 1 maintenance (mechanical or electrical) staff at each plant weekends. Minimum 1 management staff at JBL or RTP. Chiefs prepare schedules to switch to 24/7 "Red", if needed. Monitor storm developments and implement high flow procedures. RTP Chief (or designated person in charge) to contact IRWD and ETWD contacts to notify them of the elevated wet weather operations to ensure flows are limited to the Effluent Transmission Main. CTP staff prepares the site to be vacated by staff per SOP's. Continue interagency communications (Oso Creek and 3A)

<p>Red</p>	<p>Flows in the plants have exceeded their normally expected flow by 50%. For CTP, Lower Aliso Creek flows are above 6 feet. For any plant, if there is an active or anticipated spill their status will be elevated to "Red".</p>	<p>All available operations and management hands be prepared to report to their home treatment plant as scheduled during "Orange" level. Chief to call or text schedules to staff – 24/7 operations.</p> <p>Emergency Operation Center (EOC) formally setup at JBL.</p> <p>Monitor storm's development and implement high flow procedures.</p> <p>Onsite storm-water systems diverted to local creek system.</p> <p>Management to document and/or support documenting any damage, spills, etc.</p> <p>Management to contact WEROC to notify them of SOCWA's status and request any needed mutual aid assistance needs.</p> <p>CTP Chief (or designated person in charge) and staff vacate site and report to RTP. CTP staff will monitor creek conditions until it is safe to return.</p> <p>Continue interagency communications (Oso Creek 3A, ETWD and IRWD)</p> <p>SOCWA Management to continue to communicate with their counterparts at the Water Districts on SOCWA's status.</p>
<p>Purple</p>	<p>Code Purple indicates recovery after an event.</p>	<p>Normal staffing during the day minus staff that are too fatigued to work safely. Minimum 2 operators and 1 maintenance (mechanical or electrical) staff at each plant after hours or on the weekends until the next normal day shift begins.</p> <p>Continue interagency communications (Oso Creek 3A, ETWD and IRWD)</p> <p>Chief (or designated person in charge) to inspect the facilities that can be inspected safely. Facilities not inspected will remain at Purple until they are inspected (outfall alignment, CTP road, etc.).</p> <p>Management to contact WEROC on status change.</p> <p>EOC deactivated (Information is organized for reporting the following day.)</p> <p>Management declares end of the event for each facility.</p>

Maintenance Program Update

O&M staff continues to add historical data to the Tabware equipment database, including manuals, parts lists, instructions, and lockout tagout procedures. Over the next year, 2 pilot programs will be implemented. The first will be the addition of equipment condition ratings for the equipment as it is serviced. Staff will be trained on how to enter condition data. The data will help identify equipment that needs to be replaced.

The second pilot program will be the use of the new scheduling module in Tabware. Again, the staff will be trained on the module by a Tabware representative from Asset Point. However, the pilot team will also work with the Tabware representative from Asset Point to setup the backbone data and information to allow for the scheduling module to be activated. O&M staff would update and maintain the backbone scheduling data and information after it is set up with support from Tabware On Call Services.

October Heat Wave

October was a very hot month. SOCWA's Heat Illness procedures, include preventative measures, monitoring of heat related illness, and proper treatment for individuals affected by heat illness. Several advisories were sent to all employees over the month that reminded employees and supervisors about the following:

- Availability of water and recommended quantities to drink.
- Use of shade at work sites
- Recommended timing of breaks from the heat
- Signs and symptoms of heat exhaustion and heat stroke
- Medical aid and emergency medical procedures

O&M staff curtails "Hot Work" during days with elevated temperatures and "Hot Work" is prohibited on red flag days (high winds). O&M staff also limits work in confined spaces during elevated temperature days due to the potential for even higher temperatures in smaller work spaces.

Co-Gen System Update

The new co-generation system at the J. B. Latham (JBL) Treatment Plant was completed during the summer of 2017. While in operation the co-generation system largely uses all of the available digester gas. However, the rate of production of digester gas decreases as the influent sewage flow to the treatment plant decreases. During the night hours the production of digester gas can fall below the minimum operating range of the co-generation engine. At that point, the engine will automatically shut down and the digester gas will be diverted to the gas flare. However, the automatic operation of the gas flare at the Latham Plant is no longer functional. JBL is not staffed during the night hours; there is no staff available to manually start the gas flare. Therefore, the Operations staff starts the flare and shuts down the co-generation engine at the end of each eight-hour day shift. When the Operations staff returns to work the next morning the co-generation engine is restarted. A project is currently underway to automate the operation of the flare. It is expected that the automation will be completed by January 2018. The flare modification will allow the co-gen engine to run 24 hours a day and reduce the flaring of digester gas.

The new co-generation system at the Regional Treatment Plant is expected to go through start-up in December 2017. The automatic operation of the gas flare system at the Regional Plant is

currently automated. Therefore, digester gas flow through the flare system should undergo a significant decrease after the new engine is brought on-line.

Once the JBL flare automation and RTP engine projects are completed, the importation of electricity and flaring of digester gas will be reduced significantly.

Engineering

J. B. Latham Treatment Plant DAF Thickener No. 2 Repair

The metal support channels beneath the aluminum treadplate surrounding the collector mechanism drive on the Dissolved Air Flotation Thickener (DAFT) No.2 at the J. B. Latham Treatment Plant have been found to be severely corroded. The level of corrosion is significant enough that the aluminum treadplate and aluminum covers is no longer deemed safe enough to use. Rehabilitation of DAFT units at the J. B. Latham Treatment Plant will be done as part of the Package "B" Facility Improvements which are currently under design by Carollo Engineers. It was determined to proceed immediately with the repair of the structural supports on DAFT No.2 due to the safety concerns. SOCWA has received one contractor proposal for the repairs in an amount not to exceed \$85,000; SOCWA is in the process of obtaining a second proposal.

Coastal Treatment Plant Access Road Repairs

The week of October 16, 2017, the Coastal Commission approved the emergency repairs to the CTP Access Road in the area located approximately 1 mile below the gated entry point. This was the area of creek bank erosion with the most damage to the access road that occurred during the January, February 2017 storm events. The remainder of the repair needs were determined to be permanent repairs whereby additional Coastal Commission permitting will be needed before those can be accomplished. The emergency repair project will proceed following a confirmation with California Department of Fish & Game as to their requirements for the work. For the emergency repair project, the work approved will allow for a replacement of damaged bank area with fill material; however, SOCWA staff does not consider that approach to be permanent repair and it is likely there could be a loss of the repaired area if similar storm conditions occur again.

Army Corp. of Engineers Draft EIR for Aliso Creek EcoSystem Restoration Project

A Project Summary is attached hereto for the Army Corp. of Engineers Draft EIR for Aliso Creek EcoSystem Restoration Project. The entire report document can be downloaded at:

<http://www.spl.usace.army.mil/Missions/Civil-Works/Projects-Studies/Aliso-Creek-Study/>

Comments were due on November 29, 2017. SOCWA provided the attached comment letter on the project.

1

EXECUTIVE SUMMARY

2 **ES.1 INTRODUCTION**

3

4 This document serves as a draft feasibility report, Environmental Impact Statement and
5 Environmental Impact Report – known as a Draft Integrated Feasibility Report (Draft
6 IFR) – for the Aliso Creek Mainstem Ecosystem Restoration Project. The Proposed
7 Project analyzed in this Draft IFR is the implementation of an ecosystem restoration
8 project within lower Aliso Creek in Orange County, California. The U.S. Army Corps of
9 Engineers (Corps) is the lead agency under the National Environmental Policy Act
10 (NEPA), and the non-Federal sponsor, Orange County Public Works (OCPW),
11 Environmental Resources is the lead agency under the California Environmental Quality
12 Act (CEQA).

13

14 This Draft IFR identifies the Federal interest in riverine ecosystem restoration and
15 complementary recreation features within a significant largely undeveloped coastal
16 canyon ecosystem resource in southern California. The study also identifies ancillary
17 benefits to wastewater infrastructure located within the Proposed Project area that result
18 from streambank protection features. Such measures are necessary to avoid negative
19 impacts to the restored ecosystem that would result from the release of effluent or sludge,
20 and construction activity required for repairs. Ancillary benefits are also identified for
21 water supply infrastructure, as well as for passive recreation.

22

23 This Draft IFR was prepared as an interim and partial response to the resolution of the
24 Committee on Public Works, House of Representatives, adopted May 8, 1964, for the
25 Santa Ana River Basin and Area Streams, Orange County, California; and also to the
26 Water Resources Development Act (WRDA) 2007, Section 4015, authorizing the
27 Secretary of the Army "...to conduct a study to determine the feasibility of carrying out a
28 project for streambank protection and environmental restoration along Aliso Creek,
29 California."

30

31 This Draft IFR includes documentation of the planning process conducted for this
32 feasibility study and the detailed evaluation and comparison of a final array of five
33 alternatives, including the No Action alternative. The Draft IFR is prepared to comply
34 with NEPA, CEQA, and applicable Federal, state, and local environmental laws and
35 regulations. An outcome of the planning process is the identification of the National
36 Ecosystem Restoration (NER) plan, and designation of the Tentatively Selected Plan
37 (TSP).

38

39 **ES.2 PROPOSED PROJECT SETTING AND SIGNIFICANCE**

40

41 The Aliso Creek watershed is located in southern Orange County, California,
42 approximately 50 miles south of Los Angeles, and encompasses an area of about 35
43 square miles. Aliso Creek flows nearly 19.5 miles from its headwaters at approximately
44 2,400 feet above sea level in the rugged Santa Ana Mountains within the Cleveland

1 National Forest to its outlet at the Pacific Ocean at Aliso Beach in south Laguna Beach,
2 California. For discussion purposes, Aliso Creek is divided into 17 reaches (shown in
3 Figure ES-2 and Figure ES-3).

4
5 Within the lower portion of the Aliso Creek watershed is the 4,200-acre Aliso and Wood
6 Canyons Wilderness Park (Wilderness Park), a significant largely undeveloped natural
7 resource in southern California. The Wilderness Park is a coastal canyon ecosystem with
8 significant biodiverse value, supporting limited and scarce landscape habitat types unique
9 to California, including coastal sage scrub, chaparral, native grassland, oak woodland,
10 riparian woodland/forest, and freshwater marsh, and provides several important wildlife
11 corridors that link wildlife habitat within and between protected open spaces in the
12 region. The natural landscape supports many plant and wildlife species, including those
13 listed as Federal and state threatened or endangered such as the least Bell's vireo and the
14 coastal California gnatcatcher. There are relatively few protected coastal canyon
15 ecosystems existing in southern California (Figure ES-1).

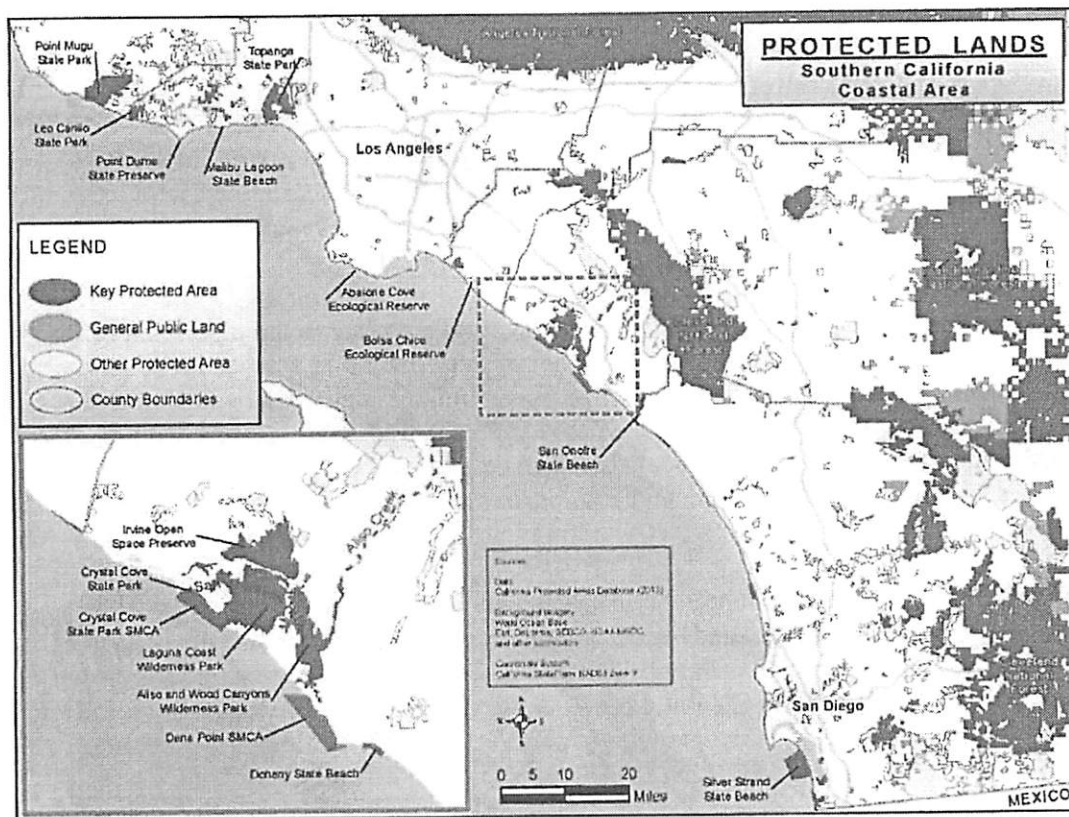


Figure ES-1 Protected Lands of the Southern California Coastal Area

16 The Wilderness Park is part of the broader 20,000-acre South Coast Wilderness area
17 within the coastal San Joaquin Hills. Lower Aliso Creek watershed links two regionally
18 significant ecosystems: the terrestrial greenbelt formed by the natural habitat of the South
19 Coast Wilderness area, and the bluebelt of the coastal and offshore Laguna Beach State

1 Marine Reserve/Conservation Area, recently established by the Marine Life Protection
2 Act.
3

4 Laguna Beach and the South Coast Wilderness area were designated a national landmark
5 in 2017 by gaining recognition as a Historic American Landscape by the National Park
6 Service. Other national recognition of the region includes designation of the Aliso Creek
7 Regional Riding and Hiking Trail as a National Recreation Trail in 2012.
8

9 Natural habitat areas in Orange County are highly fragmented by development. Upstream
10 urbanization within the Aliso Creek watershed has caused downstream degradation of
11 riverine (aquatic and riparian) habitat quality within the Wilderness Park as a result of
12 hydrologic alterations, floodplain function loss, channel modifications, loss in
13 contributing sediment sources, channel instability (streambed incision and streambank
14 erosion), and introduction and spreading of non-native plant species. Severe channel
15 incision and severing of most of the stream's hydrologic connection to the floodplain
16 results in the lowering of groundwater levels in the floodplain, with a consequent decline
17 of riparian and floodplain habitat biodiversity, and shrinking of its areal extent,
18 culminating in habitat type conversion. Within the incised channel, restricted and
19 narrowed riparian and aquatic habitat is subject to confined high flows during large storm
20 events, resulting in the increased likelihood of vegetation community and aquatic wildlife
21 destabilization and loss.
22

23 A failed former non-Federal mitigation site within the Wilderness Park, referred to as the
24 Aliso Creek Wildlife Habitat Enhancement Project (ACWHEP), has aggravated the
25 stability of the Aliso Creek mainstem. Severe streambank and streambed erosion has
26 occurred downstream of the structure, which now acts as a large drop structure. Incision
27 downstream of the structure is about 25 feet.
28

29 An assessment from three decades ago indicated that California had lost 90 to 95 percent
30 of its native riparian community (Faber et al. 1989). In neighboring San Diego County, a
31 loss of 40 percent of riparian wetlands was recorded within a decade since the late 1980s
32 (CDPR 1988).
33

34 Riparian ecosystems are dependent on perennial, ephemeral, or intermittent surface or
35 near-surface water. Many species of wildlife rely on riverine ecosystems during some, or
36 all, of their life cycles. Riverine corridors function as linkages for wildlife movement
37 between habitat areas. Vegetation and habitat type connectivity maintain populations of
38 migratory animals, provide corridors for gene flow, allow wildlife and plant dispersal to
39 new areas, and provide movement corridors at both the local and regional level.
40 Dispersal into connecting habitats increases the diversity of plants and animals that can
41 be supported.
42

43 For the Aliso Creek watershed, habitat, species numbers, and diversity have declined due
44 to the loss of connectivity between habitats. Aquatic linkages especially have been
45 impaired by manmade channel modifications and the introduction of flow control
46 structures and road crossings, creating barriers to aquatic wildlife and inhibiting

1 dispersal. Species diversity is highly dependent on habitat diversity. Linkages are critical
2 for supporting multiple populations of species to assure continual exchange of genes
3 within populations, which in turn help sustain genetic diversity. Within the Wilderness
4 Park, linkages for aquatic species along a five-mile stretch of Aliso Creek, including its
5 connection to its major tributary (Wood Canyon Creek), are severely fragmented by
6 manmade changes.

7
8 Despite the watershed fragmentation, terrestrial wildlife corridors are still intact between
9 the Wilderness Park and the other portions of the South Coast Wilderness Area to the
10 west. Additionally, for some mammal species (including coyote, bobcat, and occasional
11 mountain lion), the 19.5 miles of Aliso Creek still serves as a northerly wildlife corridor
12 to the Cleveland National Forest, despite some short stretches where some channelized
13 sections and narrow channel easements exist.

14
15 Species that depend on multiple habitat types for different activities or different life
16 stages have also declined. Migratory birds that may rely on riparian habitat, face
17 population declines due to losses of this type of habitat. Biological diversity in Aliso
18 Creek has also been impacted by the introduction of non-native species. Invasive exotic
19 plants, such as giant reed, castor bean, and tamarisk, alter the hydrology, community
20 structure and function, nutrient cycling, and soil chemistry of riparian ecosystems, and
21 they compete with, hybridize, or exclude native species and have reduced the quality of
22 riverine habitat. Exotic predators, such as bullfrogs, have decimated populations of native
23 fish and aquatic wildlife. Southwestern pond turtle, a California Species of Special
24 Concern, and currently under review for Federal listing, are known to inhabit only a few
25 locations in Orange County, including Aliso and Oso Creeks.

26
27 Regional wastewater infrastructure, serving a population of more than 40,000, is
28 susceptible to erosion-driven damage from Aliso Creek. Channel degradation from larger
29 flow events has caused infrastructure damage in recent years exceeding \$5 million in the
30 lower watershed. Threatened wastewater pipeline infrastructure vulnerable to bank
31 erosion poses a significant threat to human health and a measurable impact to the
32 environment, valued beach recreation, and the local economy from potential major sewer
33 line failure. Due to the instabilities in the creek, the South Orange County Wastewater
34 Authority (SOCWA), a public utility, which operates the Coastal Treatment Plant (CTP)
35 located within an isolated parcel at the lower end of the Wilderness Park, must routinely
36 perform temporary emergency protective actions to their facilities.

37
38 Additional water supply infrastructure is susceptible to damage from Aliso Creek just
39 downstream of Pacific Park Drive. The Joint Regional Water Supply System (JRWS) is
40 a water supply transmission line, owned by the public utility South Coast Water District,
41 which provides a primary source of drinking water for more than 200,000 residents in
42 southern Orange County communities. Two locations of the Joint Transmission Main,
43 one in parallel, and one crossing under the creek, are threatened.

44

1 **ES.3 PROPOSED PROJECT AREA**

2
3 The Proposed Project area encompasses about a five-mile stretch of the Aliso Creek
4 mainstem riverine system from the Pacific Park Drive area downstream to the SOCWA
5 CTP Bridge, located about 1.2 miles upstream of the ocean outlet. The Proposed Project
6 area includes approximately 700 feet of Wood Canyon Creek, and also 600 feet of
7 Sulphur Creek to Alicia Parkway, from their respective confluence with Aliso Creek. The
8 majority of the Proposed Project area lies within the Aliso and Wood Canyons
9 Wilderness Park, which is owned, operated, and managed by the County of Orange.

10
11 **ES.4 PURPOSE AND NEED**

12
13 The purpose of the Proposed Project is to increase habitat function and value associated
14 with aquatic and riparian ecosystem resources along approximately five miles of lower
15 Aliso Creek. Intensive urbanization within the Aliso Creek watershed during the past 50
16 years has resulted in significant degradation to aquatic and riparian habitat quality and
17 function, riverine and floodplain connectivity, and stream channel stability. Ecosystem
18 restoration would also be supported by protecting critical wastewater infrastructure from
19 creek erosion and instability. Ecosystem restoration project alternatives would not be
20 sustainable without a solution to the infrastructure threat within the Proposed Project
21 area. Failure of wastewater infrastructure would cause undesired impacts to any
22 restoration effort. Long-term increases in habitat function and value would also provide
23 incidental passive recreational enhancement. A secondary objective of the Proposed
24 Project is to provide recreational opportunities compatible with the purpose of ecosystem
25 restoration.

26
27 The need exists to diminish the adverse effects of manmade alterations affecting the
28 lower Aliso Creek riverine system to support a healthy aquatic and riparian community,
29 and to improve connectivity for wildlife species between the Aliso and Wood Canyons
30 Wilderness Park and the broader South Coast Wilderness area, as well as with the
31 Cleveland National Forest. The need also exists to protect critical wastewater
32 infrastructure from streambank erosion and stream instability that poses a significant
33 threat should pipeline rupture occur, with impacts to the environment and to the local
34 economy which relies heavily on the recreational use and high esthetic value of the
35 coastal zone.

36
37 **ES.5 PLANNING OBJECTIVES**

38
39 The investigation of the problems and opportunities in the study area led to the
40 establishment of the following planning objectives:

- 41
42 • Improve the degraded aquatic and riparian habitat ecosystem function and structure,
43 including the mosaic and heterogeneity of vegetation types, to increase plant and
44 animal biodiversity for the Aliso Creek mainstem and tributary confluences within
45 the Aliso and Wood Canyons Wilderness Park throughout the period of analysis. In

-
- 1 particular, promote instream connectivity (longitudinal, lateral, and vertical) to
2 facilitate the reproductive viability of aquatic species.
- 3 • Improve the hydrologic and hydraulic regime to increase floodplain function and
4 channel stability for the Aliso Creek system within the Aliso and Woods Canyon
5 Wilderness Park throughout the period of analysis.
 - 6 • Enhance the passive recreational experience that is compatible with the Proposed
7 Project within the Aliso and Wood Canyons Wilderness Park throughout the period of
8 analysis.
- 9

10 **ES.6 KEY PLANNING CONSTRAINTS AND CONSIDERATIONS**

11
12 Planning constraints restrict plan formulation and are specific elements that alternative
13 plans should avoid.

- 14
15 • Avoid adverse impacts to designated critical habitat for the threatened tidewater goby.
 - 16 • Avoid destabilization of existing historical landslide masses or other potential
17 unstable slopes in the proposed project area.
- 18

19 Planning considerations are the overarching guidelines used to inform the development
20 of, assess, and screen alternatives. There are several considerations specific to the study
21 area.

- 22
23 • Avoid or minimize increases in flood and erosion damages to facilities and
24 infrastructure as a result of a Federal project. This includes the ocean outfall section
25 within the golf course property.
 - 26 • Avoid or minimize impacts where possible to archeological resources in the project
27 area.
 - 28 • Avoid increase in manmade structures with visible construction elements (such as
29 concrete) that would not be esthetically consistent with the natural setting of the
30 Wilderness Park.
 - 31 • Based on public input, assess options to improve the current operating use of the
32 access roads within the Wilderness Park.
- 33

34 **ES.7 PLAN FORMULATION**

35 36 **ES.7.1 Management Measures**

37
38 A full array of structural and non-structural measures was formulated during the planning
39 process and combined into various alternatives to address the planning objectives.
40 Management measures address riparian and aquatic habitat structure and function,
41 floodplain function, channel stability, and passive recreation.

42

43 **ES.7.2 Focused Array of Alternatives**

44
45 The process in developing the focused array of alternatives included the establishment of
46 the No Action Plan (Alternative 1) and of three base alternatives (Alternatives 2, 3, and

1 4). The base alternatives address the reestablishment of floodplain function, as this is a
2 foundational need associated with habitat restoration efforts within incised channel
3 systems. The basis for Base Alternative 2 is to maintain a similar streambed elevation to
4 existing conditions within the incised channel margins. The basis for Base Alternative 3
5 is to raise the streambed elevation to improve connection with the historic floodplain; and
6 that for Base Alternative 4 is to raise the streambed elevation to establish an intermediate
7 floodplain connection. Each base alternative possesses the minimum number of measures
8 to achieve the basis (i.e. respective streambed elevation; geomorphically stable channel;
9 vegetation; and streambank protection in key areas to preclude infrastructure threat) for
10 that alternative and to create a sustainable aquatic and riparian habitat structure and
11 function.

12
13 The formulation of the focused array consisted of assessing additional measures, which
14 could be combined with each base alternative to create variations of the alternatives. The
15 Institute for Water Resources Planning Suite software was utilized to perform cost
16 effectiveness and incremental cost analysis (CE/ICA) on the various combinations of
17 base plans and additional measures. Results of the CE/ICA yielded 27 cost-effective
18 alternatives, of which five were identified as Best Buy Plans (including the No Action
19 Plan). Cost-effective alternatives included Base Alternatives 2 and 3, and associated
20 variations. Base Alternative 4 and its variations were not identified as cost-effective.
21 Based on further screening conducted on the cost-effective plans, and the inclusion of an
22 additional plan provided by the U.S. Fish and Wildlife Service (USFWS) in its Planning
23 Aid Letter, dated August 28, 2015, a total of 12 alternatives were identified to comprise
24 the focused array. The USFWS plan (Alternative C) is formulated based upon a similar
25 restoration strategy as Base Alternative 2, but limits changes to the channel dimensions
26 and streambed gradients to reduce impacts to existing riparian vegetation, and
27 incorporates sediment augmentation efforts.

28
29 Criteria used in the evaluation of the focused array of alternatives included: aquatic
30 species connectivity and viability; floodplain connectivity; quality and expanse of
31 riparian habitat, including successional stage diversity; protection of critical
32 infrastructure, and the relative need for onsite disposal areas. Metrics established to
33 compare the focused array include how the alternatives compare in meeting the planning
34 objectives, risk and uncertainty associated with bank erosion and threat to infrastructure,
35 project sustainability (key factors for operability), flooding impacts to the east and west
36 access roads, and potential impacts related to geotechnical issues (landslides) and cultural
37 resources. Comparison of the focused array is presented in Table ES-1 and Table ES-2.
38

Alt	Description (*Best Buy Plan)	Project Footprint	Objective 1 Restoration of Riverine Habitat Structure and Function							Objective 2 Floodplain Connect; Channel Stability		
			ACWHEP Removed	Aliso Aquatic Wildlife Connect (mi)	Wood Canyon Connect Aquatic Wildlife (mi)	Aquatic Wildlife Genetic Diversity Benefit	Riparian Veg Benefit: Channel	Riparian Veg Benefit: Overbank	Groundwater Rise	Floodplain Function Increase (net over No Action)	Sinuosity Gain (net over No Action)	Channel Stability (and no. of Riffles)
1	No Action	-	No	2.2	0	At risk; barrier at ACWHEP	Unstable. Limited to early succes'l; frequent loss	Narrow; less dense; mostly late succes'l	No	-	-	-
2	Maintain Similar Streambed Elevation											
2.1	Base 2	SOCWA to ACWHEP (Rch. 4A-6)	No	2.2	0	At risk; barrier at ACWHEP	Limited to early succes'l; frequent loss	Narrow; less dense; mostly late succes'l	No	Slight	None	Yes; regime
2.2	2.1 + Sinuosity (Wood Canyon [WC])										Slight	
2.3	2.2 + Newbury Weirs										Slight	Yes; regime; (11)
3	Restore Historic Streambed Elevation											
3.1	Base 3	SOCWA to AWMA Br (Rch. 4A-9)	Yes	3.6	0	At risk; barrier at first 10-ft drop structure	Early and mid-succes'l	Wider, denser, mid-to late succes'l	Yes	Moderate	None	Yes; regime (34)
3.2	Base 3 + WC connect + WC Trailhead				3.5							
3.3*	3.2 +Widen/Recontour Channel +PPDBC	SOCWA to Pacific Park Dr. (Rch. 4A-12)	Yes	5 (Plus 3.5 mi Stewardship)	3.5	Promotes genetic diversity; Barriers removed	Early and mid-succes'l	Wider, denser, mid-to late succes'l	Yes	Substantial	None	Yes; regime (47)
3.4	3.3 + Sinuosity (PPD)										Slight	
3.5	3.3 + Sinuosity (PPD+WC)											

Table ES-1 Focused Array Comparison: Ecosystem Restoration Metrics												
Alt	Description (*Best Buy Plan)	Project Footprint	Objective 1 Restoration of Riverine Habitat Structure and Function						Objective 2 Floodplain Connect; Channel Stability			
			ACWHEP Removed	Also Aquatic Wildlife Connect (mi)	Wood Canyon Connect Aquatic Wildlife (mi)	Aquatic Wildlife Genetic Diversity Benefit	Riparian Veg Benefit: Channel	Riparian Veg Benefit: Overbank	Groundwater Rise	Floodplain Function Increase (net over No Action)	Sinuosity Gain (net over No Action)	Channel Stability (and no. of Riffles)
3.6*	3.3 + Oxbow			reaches to 1-5)							High	Yes; regime (46)
3.7*	3.3 + Oxbow + Sinuosity (PPD)											
3.8*	3.3 + Oxbow + Sinuosity (PPD, WC)											
USFWS Alternative												
C	Similar to Alt 2; limited grading	SOCWA to ACWHEP (Rch. 4A-6)	No	2.2	No	At risk; Barrier at ACWHEP	Limited to early succes'l; frequent loss	Narrow; less dense; mostly late succes'l	No	Slight	Slight; entrenched	No short term stability

Table ES-2 Focused Array Comparison: Erosion Damage Reduction and Other Metrics								
Alt	Description (* Best Buy Plan)	Project Footprint	Reduce Erosion Risk Damage		Other Metrics			
			Infrastructure Protection	Risk and Uncertainty (Bank Erosion)	Project Sustainability	West & East Access Roads Flooding Impacts	Geotechnical (Potential Risk)	Cultural Resources (Potential Risk)
1	No Action	NA	Piecemeal; emergency actions by SOCWA	High	NA	0.3 mi west side; 0.6 mi east side for 1% ACE (100-yr) storm event	Some risk; though generally low	Some potential losses
2	Maintain Similar Streambed Elevation							
2.1	Base 2	SOCWA to ACWHEP	Yes for AWMA Road and wastewater utilities	Low	Requires ensuring ACWHEP structure integrity	Similar to No Action	Some risk; though generally low with some potential moderate.	Relatively less potential impacts as smaller footprint than Alternative 3 variations
2.2	2.1 + Sinuosity (WC)							
2.3	2.2 + Newbury Weirs							
3	Restore Historic Streambed Elevation							
3.1	Base 3	SOCWA to AWMA Br	Yes for AWMA Road and wastewater utilities	Low		Some increase (15%) over No Action, mostly due to 1% ACE	Some risk; though generally low with some potential moderate. Raising streambed may assist buttressing effect.	Potential impacts
3.2	Base 3 + WC connect + WC Trailhead							
3.3*	3.2 + Widen/Recontour Chl + PPD Bypass	SOCWA to Pac Park Dr	Yes for AWMA Road and wastewater utilities; and water supply crossing (JRWS)	Low	Requires PPD Bypass for connection to upstream Stewardship reaches (see section ES.8).			
3.4	3.3 + Sinuosity (PPD)							
3.5	3.3 + Sinuosity (PPD+WC)							
3.6*	3.3 + Oxbow							
3.7*	3.3 + Oxbow + Sinuosity (PPD)						Some risk; though generally low with some	

Table ES-2 Focused Array Comparison: Erosion Damage Reduction and Other Metrics								
Alt	Description (*Best Buy Plan)	Project Footprint	Reduce Erosion Risk Damage		Other Metrics			
			Infrastructure Protection	Risk and Uncertainty (Bank Erosion)	Project Sustainability	West & East Access Roads Flooding Impacts	Geotechnical (Potential Risk)	Cultural Resources (Potential Risk)
3.8*	3.3 + Oxbow + Sinuosity (PPD, WC)							potential moderate to high. Raising streambed may assist buttressing effect.
USFWS Alternative								
C	Similar to Alt 2; limited grading	SOCWA to Pac Park Dr	Yes; for AWMA Road and wastewater utilities, but requires more protection than Alt 2 due to inherent uncertainty	Moderate	Requires ensuring ACWHEP structure integrity. Utilizes long term gravel augmentation. Higher costs for streambank protection and gravel augmentation renders this alternative less efficient than Alternative 2 variants, and possibly not cost effective.	Generally similar to No Action, but more uncertainty	Some risk; though generally low with some potential moderate.	Likely more potential impacts than Alternative 2 variations

1 **ES.7.3 Final Array of Alternatives**

2
3 Further screening of the focused array was conducted using the criteria of effectiveness,
4 completeness, efficiency, and acceptability. The final array of action alternatives that best
5 satisfy the criteria were Alternatives 3.3, 3.6, 3.7, and 3.8. These four alternatives best
6 meet the key planning objectives and the significance of plan outputs associated with
7 restoration of aquatic and riparian habitat structure and function, aquatic species
8 connectivity and viability, floodplain connectivity, and the improvement of geomorphic
9 channel stability. The four alternatives provide wastewater infrastructure protection to the
10 one percent annual chance of exceedance (ACE) (100-year event), and greatly limit the
11 potential compromise of ecosystem restoration outputs due to erosion damage to
12 pipelines. These alternatives also provide erosion protection to the JTM regional water
13 supply pipeline crossing in Reach 11 as an ancillary benefit resulting from the restoration
14 project features. All four of the alternatives raise the existing streambed elevation to pre-
15 incised elevations (circa 1967) within the Wilderness Park. Alternatives 3.6, 3.7, and 3.8
16 additionally reconnect the abandoned oxbow. Alternative 3.7 adds sinuosity to the
17 stream alignment just downstream of Pacific Park Drive, while Alternative 3.8 adds the
18 same feature in addition to sinuosity downstream of Wood Canyon Creek.

19
20 Table ES-3 presents a summary comparison of the NER-related outputs of the final array
21 of action alternatives for ecosystem restoration.

Table ES-3 NER Outputs of Final Array Action Alternatives				
(FY16 Price Levels; FY17 Discount Rate 2.875%)				
	Alternative 3.3	Alternative 3.6	Alternative 3.7	Alternative 3.8
<i>Average Annual Habitat Units</i>				
Net Increase AAHU (Over No Action)	5,597	5,775	5,834	5,842
Incremental AAHU	5,597	177	60	8
<i>Gross Project Costs</i>				
First Costs	\$91,611,965	\$96,809,585	\$98,724,986	\$99,156,555
Interest During Construction	\$3,238,387	\$3,248,643	\$3,251,585	\$3,251,963
Total Gross Investment	\$94,850,352	\$100,058,228	\$101,976,571	\$102,408,518
<i>Annual Costs</i>				
Total Annual Costs of Gross Investment	\$3,599,389	\$3,797,018	\$3,869,816	\$3,886,207
Annual Cost of Maintenance (OMRR&R)	\$187,446	\$196,560	\$197,890	\$198,550
Total Average Annual Costs (AAC)	\$3,786,835	\$3,993,578	\$4,067,706	\$4,084,757
Incremental AAC	\$3,786,835	\$206,743	\$74,127	\$17,052
Incremental AAC/AAHU	\$673	\$1,167	\$1,239	\$2,145

22 Table ES-4 presents a brief summary of the beneficial and adverse effects associated with
23 the final array of alternatives, with an emphasis on the resources that have the most
24 significant influence pertaining to Plan Formulation.

Table ES-4 Final Array Comparison: Beneficial and Adverse Effects

Resource	Description	Alternative 1 (No Action)	Alternative 3.3	Alternative 3.6	Alternatives 3.7 and 3.8
Earth Resources	Construction Impacts	None	Short term, temporary and less than significant. Impacts further reduced with Environmental Commitments.		
			Disposal to onsite areas: 130,000 cubic yards. Beneficially adds to buttressing effect against potential landslides.	Disposal to onsite areas: 300,000 cubic yards. Beneficially adds to buttressing effect against potential landslides.	Disposal to onsite areas: 340,000 and 350,000 cubic yards, respectively. Beneficially adds to buttressing effect against potential landslides.
	Channel Geomorphology	Some further incision (varies from five feet maximum to 1 foot minimum, and widening as channel seeks dynamic equilibrium (est. 50 year min))	Streambed raised to approach historic pre-incised elevation. Geomorphically stable channel.		
	Sediment Yield to Ocean	As dynamic equilibrium approaches, average sediment delivery range approaches 20,000 to 60,000 tons/year	Similar yield to No Action but occurs sooner.		
	"S" Bend (Reach 4B)	Expected cutoff after 25 years of this distinctive feature, which offers channel complexity and associated habitat biodiversity (including freshwater marsh)	"S" bend remains intact.		
	Landslides	Loss of channel banks immediately adjacent to ascending canyon slopes could potentially compromise slope stability where ancient landslides have occurred. Cuts made into canyon slopes that expose adversely oriented bedding could potentially develop landslides along those bedding planes. The degree to which landslides toes are stabilized by relatively thick canyon alluvium fill and extent to which fluvial erosion has disturbed the buttressing effect has not yet been quantified.	Based on qualitative evaluation, some risk, though generally low. Some potential moderate risk to one ancient slide area, to be further addressed during Pre-Construction Engineering and Design (PED) phase.	Based on qualitative evaluation, some risk, though generally low. Some potential moderate risk to one ancient slide area, and higher risk to second one to be further addressed during Pre-Construction Engineering and Design (PE) phase.	
Raising streambed may bolster buttressing effect, increasing overall resistance to potential sliding.					

Table ES-4 Final Array Comparison: Beneficial and Adverse Effects					
Resource	Description	Alternative 1 (No Action)	Alternative 3.3	Alternative 3.6	Alternatives 3.7 and 3.8
Earth Resources (continued)	Coastal Effects	Upper estuary subject to slight aggradational trends; less likely in lower estuary, though fluctuation dependent on tidal and littoral effects.	Impacts to estuary and supply of sand to downcoast beaches expected to be similar to No Action.		
		As Aliso Creek is the largest sediment contributor in the littoral cell, some potential narrowing of downcoast beaches to Dana Point over time due to reduction of sediment yield. Sea level rise could compound these effects.			
Water Resources	Construction Impacts	None	Short term, temporary and less than significant. Impacts further reduced with Environmental Commitments.		
	Floodplain Hydrologic Connectivity	Severely incised channel provides limited floodplain breakout for 10-year and 100-year flows. Current acres of floodplain: 2-year (56 ac); 10-year (78 ac); and 100-year (106 ac).	Raised streambed elevation increases floodplain widths by 112% for 2-year; 94% for 10-year, and 61% for 100-year.		
	Flood Inundation to Infrastructure	Limited flooding to east (unpaved) and west (AWMA Road) access roads within Reaches 4A to 9.	Total increase of 15% inundation (i.e. to total lengths of roads) over No Action. Corresponding impacts to access expected to be minor. No flood mitigation measures warranted except for paving of east road. Coastal Treatment Plant is not affected.		
	Groundwater Levels	Disconnected floodplain function will continue to provide very limited aquifer recharge opportunities.	Groundwater levels expected to incrementally rise along the raised streambed course, and for some distance laterally, due to channel seepage direct influence. Additionally, use of embedded sheet pile to accompany transverse rock riffle structure locations will raise local groundwater levels directly upstream of the structures for a limited distance as groundwater flows in the vicinity of the structures would tend to mound.		

Table ES-4 Final Array Comparison: Beneficial and Adverse Effects

Resource	Description	Alternative 1 (No Action)	Alternative 3.3	Alternative 3.6	Alternatives 3.7 and 3.8
Biological Resources	Construction Impacts	None.	With the establishment of temporary suitable habitat areas adjacent to the Proposed Project area, impacts to biological resources would be minimal, and short term. Environmental Commitments will further reduce impacts.		
	Riverine and Floodplain Ecosystem	Continued decline and narrowing of riverine habitat corridor and biodiversity, primarily due to channel incision and severed floodplain connectivity, creek instability, and vegetation die back from perching effects of lowered groundwater levels. As riparian zone narrows, habitat type conversion would be likely to coastal scrub and annual grasslands. The prevalence of steep streambank slopes will degrade the value of the riparian structure that can establish within the channel margins.	With a hydrologically restored connection and a more stable geomorphic system, the quality of the aquatic, riparian, and floodplain ecosystem would be significantly increased within the restored area. Greater and more complex vegetation structure would develop, supporting a greater species richness, including federal and state listed special species. Disposal sites would be planted with coastal sage scrub and grasslands.		
			No added sinuosity.	Reconnection of abandoned oxbow would add an important gain in stream sinuosity and a corresponding benefit to increased morphologic variability and ecological function.	Some additional limited net gains in sinuosity (30 feet for Alternative 3.7; and 90 feet total for Alternative 3.8).
	Aquatic Species Connectivity	Aquatic wildlife connectivity remains impeded along lower Aliso Creek, including the connection to Wood Canyon tributary, due to severe channel incision and the presence of large barriers such as the ACWHEP structure. The quality of aquatic habitat in Aliso Creek will continue to deteriorate within a deeply incised channel and fragmented habitat to few non-native aquatic species.	Increased aquatic species connectivity for resulting from removal of manmade impediments would facilitate the reproductive viability of aquatic species. Within the Proposed Project area, connectivity would increase to 5 miles for the Aliso Creek mainstem (compared to 2.2 miles for No Action); and 3.5 miles for Wood Canyon (compared to limited/no connectivity under No Action). The inclusion of the Pacific Park Bypass increases the overall aquatic species connectivity of the mainstem by an additional 3.5 miles upstream, for a total of 8.5 miles.		

Table ES-4 Final Array Comparison: Beneficial and Adverse Effects

Resource	Description	Alternative 1 (No Action)	Alternative 3.3	Alternative 3.6	Alternatives 3.7 and 3.8
Cultural Resources	Construction Impacts	None.	For all action alternatives, with implementation of Environmental Commitments, direct and indirect impacts would be minimized, but with the partial to complete destruction of up to 12 archaeological sites and the potential for impacting human burials, impacts would be significant and adverse.		
		Areas of identified cultural resources are largely protected from new development and would not be expected to change from existing conditions. It is probable, however, that sites may be disturbed or lost both by other human actions and through natural processes such as erosion.	Impacts to cultural resources from disposal sites footprints would likely be avoided.	Impacts to cultural resources from disposal sites footprints would likely be avoided. Potentially slightly greater impact on cultural resources compared to Alternative 3.3 due to inclusion of reconnected oxbow	Impacts to cultural resources from disposal sites footprints would likely result from at least one of the disposal sites. Incremental greater impacts to cultural resources due to inclusion of reconnected oxbow and added sinuosity downstream of Wood Canyon confluence for both Alternative 3.7 and 3.8.
Utilities	Construction Impacts	None. Public agency wastewater infrastructure would remain at risk from continuing bank erosion posing a significant threat to public safety and a measurable impact to the environment and local economy. SOCWA efforts to protect pipelines at risk from storm flow-induced streambank erosion and undermining will be piecemeal and short-term “band-aid” solutions. Channel incision will continue to threaten the JTM water supply transmission pipeline, requiring periodic intervention to protect from undermining, with an impact to the environment.	Buried streambank protection at key locations would provide erosion protection up to the 1% annual chance of exceedance (100-year event) to SOCWA wastewater utilities lines and west (AWMA Road) access road (Reaches 4A to 9). JTM regional water supply line would be protected from channel undermining effects (Reach 11).		

1 **ES.7.4 Identification of National Ecosystem Restoration (NER) Plan**

2
3 Based on the assessment of the final array of alternatives (1, 3.3, 3.6, 3.7 and 3.8), the
4 plan that reasonably maximizes NER outputs relative to costs, meets planning objectives,
5 reasonably avoids constraints, and provides significant ecosystem outputs is Alternative
6 3.6. This alternative is designated as the NER Plan and is also identified as the TSP.

7
8 In terms of costs and output metrics (Table ES-3), Alternative 3.6 provides 5,775 average
9 annual habitat units (AAHU), an increase of 177 AAHU, or 3 percent gain over
10 Alternative 3.3, at an incremental average annual cost (AAC) of \$206,743. In comparing
11 plans, it is useful to show the change in cost from one plan to another in a “per unit”
12 basis. This would be in terms of AAC per AAHU. Alternative 3.6 has an incremental
13 AAC/AAHU of \$1,167 relative to Alternative 3.3, which is 73 percent higher than that of
14 Alternative 3.3 (\$673) relative to Alternative 1. The incremental investment in cost of
15 Alternative 3.6 over Alternative 3.3 is considered worthwhile to pursue for riverine
16 habitat improvement for the following reasons.

17
18 Compared to Alternative 3.3, Alternative 3.6 adds the stream reconnection through the
19 abandoned river meander/oxbow associated, which would provide an important gain in
20 sinuosity (about 850 feet of lengthened channel) and a corresponding benefit to increased
21 morphologic variability and ecological function within the Aliso Creek system. The
22 reconnected oxbow reach would provide an opportunity to create a wider areal expanse
23 as a result of its high radius of curvature and pattern complexity that in turn would
24 promote a mosaic of habitat types, including riparian forest or woodland, open ponded
25 water and freshwater marsh within one distinct area. This areal expanse of riparian and
26 aquatic ecosystem (net gain of over 500 feet wide and 10 additional acres, compared to
27 Alternative 3.3) would be unique within the watershed, and also lies within the heart of
28 the Wilderness Park where the coastal canyon floodplain is the widest. Amphibians, such
29 as the southwestern pond turtle, a California Species of Special Concern under
30 consideration for Federal listing, and salamander would benefit from the greater
31 prevalence of moist soils. Slow moving waters promoted by the high radius sinuosity and
32 resulting gentler stream grade would provide important refugia habitat. The reconnected
33 meander oxbow area would allow for the development of a wider expanse of a
34 heterogenetic, multi-layered habitat structure of functional riparian habitat for breeding,
35 foraging and cover/resting opportunities that will benefit bird species including the
36 Federally endangered least Bell’s vireo and southwestern willow flycatcher, and the
37 Federally threatened California gnatcatcher, as well as a variety of neotropical migrants
38 species and California Species of Special Concern, including yellow-breasted chat,
39 Swanson’s thrush, yellow warbler, and yellow-headed blackbird.

40

1 The rationale why Alternative 3.7 or Alternative 3.8 was not selected as the NER plan is
2 as follows:

3
4 In addition to the oxbow reconnection, Alternative 3.7, compared to Alternative 3.6, adds
5 the “sinuosity downstream of Pacific Park Drive” feature within Reach 11. Due to the
6 relative narrowness of the floodplain within this reach (which lies in the more northern
7 portion of the Wilderness Park where urbanization has constrained the floodplain
8 laterally), this feature only provides a very small gain in sinuosity, or about 30 feet in
9 length. Alternative 3.7 provides 5,834 AAHU, or a 1 percent gain over Alternative 3.6.
10 Although the incremental AAC/AAHU are relatively close for the two alternatives, the
11 relatively limited aquatic habitat ecological benefit that Alternative 3.7 provides and the
12 incremental 40,000 cubic yards of excess materials requiring disposal makes the selection
13 of this alternative less desirable compared to Alternative 3.6.

14
15 Alternative 3.8 is similar to Alternative 3.7, but also adds the feature “sinuosity
16 downstream of Wood Canyon Creek” in Reach 5C. This feature adds about 60 feet of
17 additional stream lengthening. With the limited incremental gain in AAHU (less than 1
18 percent), and the significant increase in incremental AAC/AAHU (about 73 percent
19 higher than Alternative 3.7 at \$2,145 versus \$1,239), the additional investment is not
20 warranted.

21 22 **ES.8 TENTATIVELY SELECTED PLAN**

23 24 **ES.8.1 TSP Outputs**

25
26 The TSP restores 191 acres of riverine (aquatic and riparian) habitat throughout the five
27 miles of the Proposed Project area between the SOCWA CTP Bridge and Pacific Park
28 Drive (Reaches 4A-12). Together with the upstream reaches (13 to 17B, referred to as the
29 Stewardship Reaches) that are outside of, but contiguous to, the Federal proposed project
30 area, the TSP reconnects 371 acres of riverine habitat type for 8.5 miles to the I-5
31 Freeway. Removal or modification to manmade structures that act as aquatic wildlife
32 impediments within the Federal project footprint would increase connectivity for aquatic
33 species to 8.5 miles throughout the reconnected area between the SOCWA CTP and the
34 I-5 Freeway, and would reestablish lateral connectivity to the 3.5-mile-long high-quality
35 habitat of the Wood Canyon Creek tributary. The ecosystem outputs are summarized in
36 Table ES-5. The TSP features are displayed in Figure ES-2. The Stewardship reaches are
37 shown in Figure ES-3.

38
39 Within the TSP Proposed Project area, recontouring of the streambanks to gentler side
40 slopes and the creation of a widened channel margin that incorporates inset floodplain
41 terracing would provide greater stability to the creek system, especially for larger flow
42 events. With raising of the streambed elevation, localized groundwater levels associated
43 with Aliso Creek would rise incrementally, improving the interface with riparian
44 vegetation root systems to support a more extensive riparian habitat. Additionally, the
45 lateral hydrologic connectivity to the 10-year floodplain would almost double to 151
46 acres; while the 100-year floodplain would increase by about 60 percent to 171 acres.

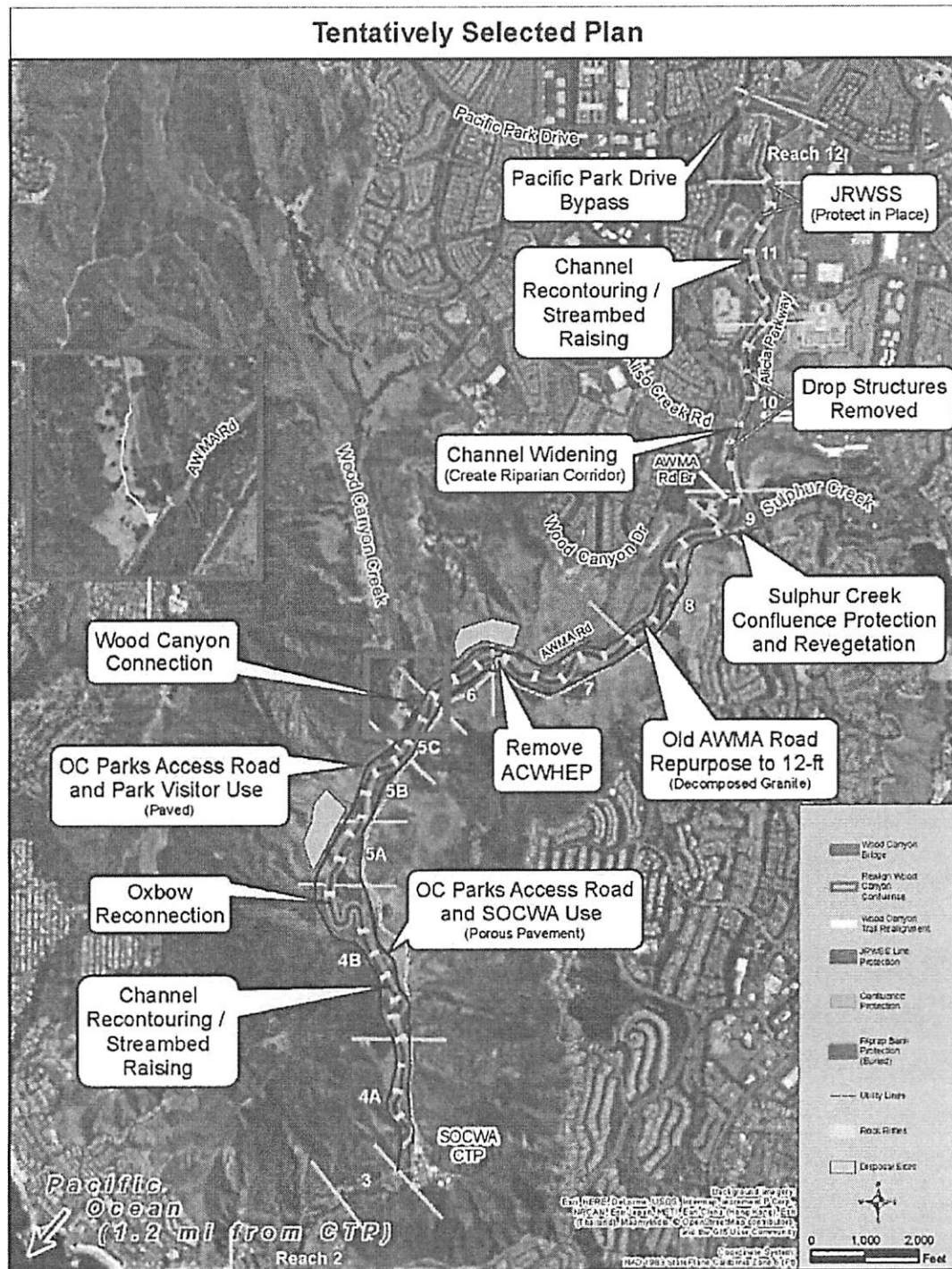


Figure ES-2 Tentatively Selected Plan

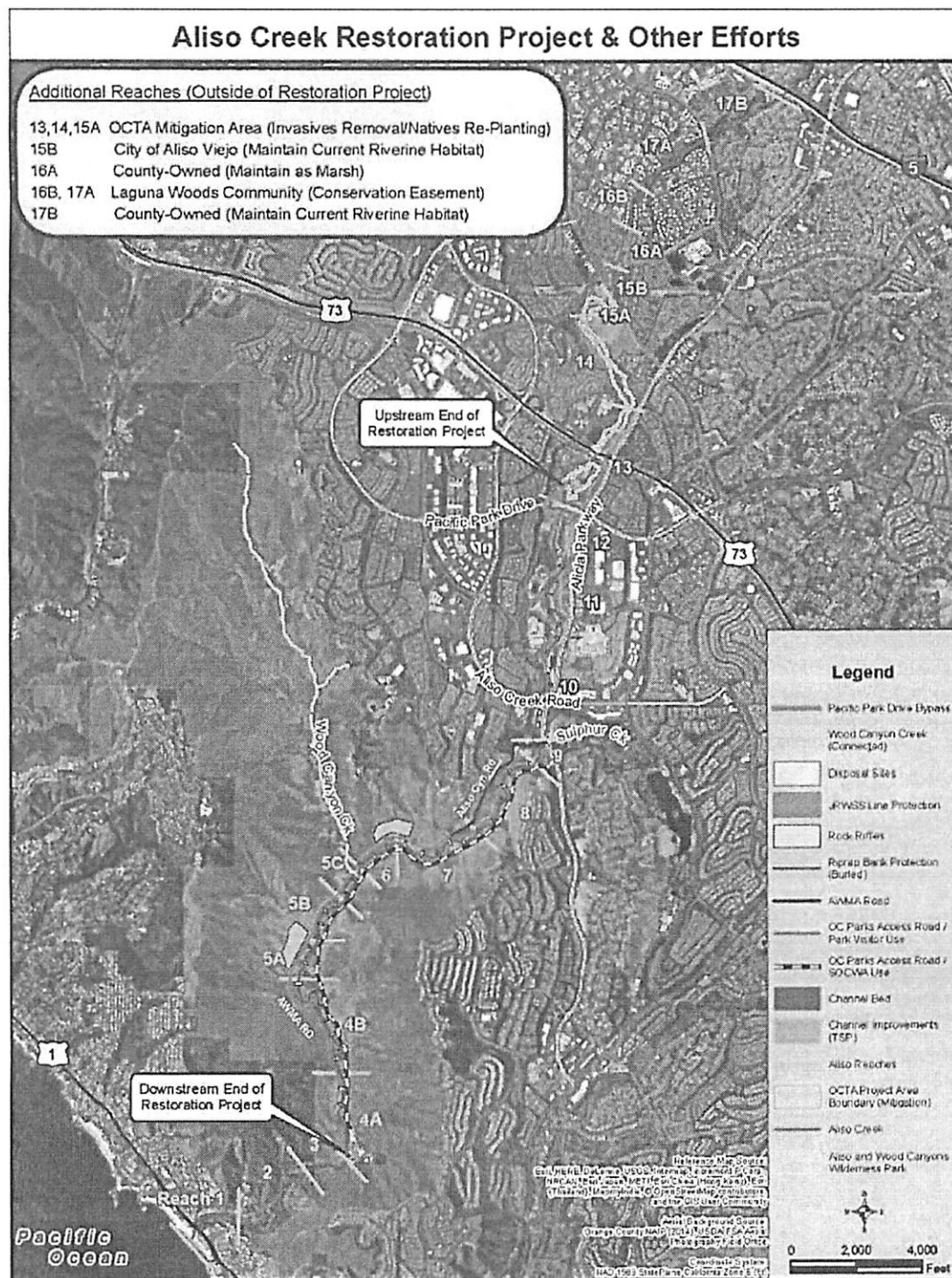


Figure ES-3 Tentatively Selected Plan and Stewardship Reaches

Description		Habitat Value (HU)		HU Incr. Gain at Year 50	Riverine (Aquatic and Riparian) (acres)		Riverine Incr. Gain at Year 50	Aquatic Species Connectivity
		Year 0	Year 50		Year 0	Year 50		
		No Action¹			2,994	2,350		
TSP	Restored Habitat Area (Direct Restoration)	5,626	6,541	178% over No Action	191	191	93% over No Action	5 miles (Aliso Creek)
	Reconnected Habitat Area							
	Wood Canyon Creek	1,030	1,030	-	84	84	-	3.5 miles
Stewardship Reaches ²	Pacific Park Drive to I-5	1,198	1,198	-	96	96	-	3.5 miles
Restored Habitat Area plus Reconnected Habitat Area		7,853	8,768	273% over No Action	371	371	275% over No Action	8.5 miles (Aliso Creek); 3.5 miles (Wood Canyon Creek trib)
HU Net Gain (over No Action)		4,859	6,418					
AAHU ³ Net Gain (over No Action)		5,775						
AAHU No Action		2,762						
¹ Area of No Action Alternative encompasses same area to be pursued under with-project actions for restored habitat areas. ² Stewardship reaches comprise additional reaches upstream of the Proposed Project upstream limit, from Pacific Park Drive to the I-5 Freeway. These reaches are under the jurisdiction of either Orange County, the City of Aliso Viejo, or the City of Laguna Woods. ³ AAHU is average annual habitat unit value over a 50-year period of analysis (Years 0, 5, 25, and 50).								

- 1 The inclusion of inset floodplain terraces would more than double the two-year
- 2 floodplain to 118 acres. Table ES-6 provides a summary of hydrologic connectivity.
- 3 Flooding impacts associated with the increased floodplain is limited to some inundation
- 4 of the east and west access roads within the Wilderness Park, at a level slightly greater
- 5 (about 15 percent) than without-project conditions. Accordingly, no flood mitigation
- 6 measures were included to address induced flooding in these areas other than paving the
- 7 existing east dirt access road in Reaches 4A-9.

Footprint	2-Year		10-Year		100-Year	
	Floodplain (acres)	Incremental Gain	Floodplain (acres)	Incremental Gain	Floodplain (acres)	Incremental Gain
Without-Project (Existing)	56	-	78	-	106	-
TSP (Restored Habitat Area ¹)	118	112% over Without-Project	151	94% over Without-Project	171	61% over Without-Project

¹ Does not include reconnected habitat area of Wood Canyon Creek tributary.

1 With a hydrologically restored connection and a more stable geomorphic system, the
 2 quality of the aquatic, riparian, and floodplain ecosystem would be significantly
 3 increased within the restored area. The TSP would enable greater and more complex
 4 vegetation structure to develop, comprising of stands of trees (willow, sycamore, and
 5 cottonwood) with varying heights and canopies, dense shrub understories (arroyo willow,
 6 sandbar willow, mulefat), and herbaceous plants that interface with open water and
 7 freshwater marsh habitat. This vegetation structure, or stratification, would support a
 8 greater species richness, including federal and state listed species. The increased
 9 connectivity for aquatic species resulting from removal of manmade impediments would
 10 facilitate the reproductive viability of aquatic species.

11
 12 The TSP would also provide water quality improvement as an output of ecosystem
 13 restoration. These benefits were not quantified and are considered ancillary to the
 14 Proposed Project. The increased hydrologic connection to the floodplain would allow
 15 more opportunity to settle out fine suspended sediments and their associated nutrient
 16 loads, thereby promoting improved instream and coastal receiving water quality.

17
 18 In addition to ecosystem restoration benefit outputs, the TSP provides incidental erosion
 19 damage reduction benefits. These benefits are associated with the protection of regional
 20 wastewater conveyance and water supply infrastructure from streambank and streambed
 21 erosion threat. For SOCWA wastewater conveyance infrastructure, there is a net
 22 reduction of average annual damages of \$646,000 within the Proposed Project area for
 23 bank erosion protection features related to the TSP. These features are necessary to
 24 safeguard the restoration benefit outputs. For the JTM water supply transmission
 25 infrastructure, a quantitative erosion damage reduction analysis was not performed.
 26 However, the current erosion threat to the pipeline crossing would be significantly
 27 diminished as an outcome of the ecosystem restoration features that are related to the
 28 strategic placement of required grade control (rock riffles) structures. Benefits related to
 29 erosion damage reduction are considered incidental to the construction of the ecosystem
 30 restoration project.

1 **ES.8.2 Stewardship Reaches 13-17B**

2
3 Though not critical to aquatic species sustainability, the reconnection to 3.5 miles of
4 additional aquatic and riparian habitat between Pacific Park Drive and the I-5 Freeway
5 would provide a beneficial increment to the TSP, providing a larger reconnected area of
6 this habitat type.

7
8 For the additional 3.5 miles of the Aliso Creek riverine corridor (Reaches 13 to 17B)
9 upstream of the Proposed Project limit, the various landowners of the subreaches (Orange
10 County, Aliso Viejo Community Association, and the City of Laguna Woods), would
11 continue to pursue stewardship practices in protecting and maintaining natural resources
12 in accordance with their adopted resource management plans. These additional reaches of
13 Aliso Creek mainstem would not involve any implementation actions by the Federal
14 government. Figure ES-3 shows the TSP in context with the other local efforts.

15
16 **ES.8.3 Recreation Plan**

17
18 The objective of the recreation plan is to enhance the passive recreational experience
19 associated with the Proposed Project. The recreation plan formulated for the NER Plan
20 was developed through coordination with the non-Federal sponsor to take advantage of
21 existing recreation facilities, as well as proposed ecosystem restoration improvements,
22 while complying with Corps policies and regulations pertinent to recreation
23 improvements at ecosystem restoration projects.

24
25 The recreation plan includes the construction of five interpretive kiosks within the
26 Proposed Project at key locations. The kiosks would be located along points of
27 recreational access for the public, which includes the Aliso Creek Bikeway and AWMA
28 Road, both paralleling the west side of Aliso Creek within the Wilderness Park. The
29 kiosks provide educational value and are intended to increase public understanding and
30 appreciation of the restored habitat and diverse ecosystem functions within the
31 Wilderness Park. Proposed locations of the kiosks are as follows:

- 32
33 • Vicinity of Pacific Park Drive, west side along Aliso Creek Bikeway.
34 • Vicinity of Ranger Station/Visitor Area.
35 • Three locations along AWMA Road between the Ranger Station and SOCWA CTP
36 Bridge.

37
38 Based on the economic recreation benefits analysis performed using a unit day value
39 method, there are two benefits considered: the incidental recreation benefits associated
40 with the NER project, which will enhance the recreation experience due to improved
41 visual quality and environmental setting for recreation users, and the benefit associated
42 with the recreation plan due to the addition of the kiosks. For benefits related to the
43 ecosystem restoration project, the TSP provides \$308,000 in incidental equivalent annual
44 recreation benefits, or a 32 percent gain over without-project conditions. For benefits
45 related to the kiosks, there is an incremental gain of \$11,000 in equivalent annual

1 recreation benefits, or a 0.8 percent increase over benefits related to the ecosystem
2 restoration project. The recreation plan has a benefit to cost ratio of 11:1.

3 4 **ES.8.4 Plan Implementation**

5 6 **ES.8.4.1 Lands, Easements, Right-of Way, and Disposal Sites (LERRDs)**

7
8 The majority of the land associated with the project footprint is owned by the County of
9 Orange, and is within the boundaries of the Wilderness Park. The TSP would require
10 approximately 174.16 acres in fee ownership; 21.37 acres of permanent easements; and
11 30.16 acres of temporary easements. No borrow sites would be necessary for
12 implementation of the TSP. No facility or utility relocations would be necessary for
13 implementation of the TSP; the TSP proposed utility actions would be to protect in place,
14 remove as abandoned, and protect in-place and modify.

15 16 **ES.8.4.2 Geotechnical Investigations**

17
18 Geotechnical investigations would be conducted during the Preconstruction, Engineering
19 and Design (PED) phase to supplement those conducted during the feasibility phase.
20 These investigations would be necessary to better address the existing level of stability
21 and reduce any potential risk of reactivation of identified ancient slope failures (landslide
22 masses), or destabilization of some other areas currently unaffected by sliding, as a result
23 of the planned excavations and grading of alluvial soils associated with the channel
24 alignment. Additionally, any segments of the proposed alignment that are adjacent to an
25 identified unstable ascending slope, whose stability could be undermined should
26 localized channel widening result during larger storm events, would need to be evaluated
27 for risk level in coordination with the engineering team. The outcome of the geotechnical
28 investigations would allow reconciliation of any potential destabilization concerns and
29 recommend adjustments, as warranted, to project design and construction, including any
30 protective mitigation measures.

31 32 **ES.8.4.3 Cultural Resources Investigations**

33
34 A comprehensive cultural resource inventory of the Area of Potential Effects (APE)
35 would occur during the PED phase to supplement site investigations conducted during the
36 feasibility phase. The Corps, in consultation with the California State Historic
37 Preservation Office (SHPO) and the Affected Tribes, would execute a programmatic
38 agreement (PA) prior to PED. The PA will layout the procedures for the cultural resource
39 inventory, the evaluation of any resources located during the inventory, and a process for
40 avoiding, minimizing, and mitigating any adverse effects. If adverse effects to resources
41 determined to be eligible for the National Register of Historic Places cannot be avoided,
42 the Corps, California SHPO, the Affected Tribes, and the County of Orange would
43 execute a Memorandum of Agreement during PED specifying a treatment plan, which
44 would be undertaken by the Corps prior to or during the project construction period to
45 address adverse effects.

1 **ES.8.5 Costs of the TSP**

2
3 Table ES-7 summarizes the benefits and costs for the Tentatively Selected Plan. Project
4 first cost includes costs for all real estate interests, construction of the ecosystem
5 restoration features, monitoring and adaptive management measures, cultural resources
6 data recovery, and costs to construct the recreation features. The first cost of the project
7 also includes the cost for the next phase of study, the PED phase.

Table ES-7 Summary of Benefits and Costs for TSP	
(FY16 Price Level; FY17 Discount Rate 2.875%)	
Item	Amount
NER First Cost	
Real Estate	\$17,115,000
Construction	\$61,454,200
PED (including EDC)	\$9,525,400
Construction Management (S&A)	\$3,994,500
Monitoring and Adaptive Management	\$3,517,000
Cultural Resources (Data Recovery)	\$703,400
Geotechnical Investigations	\$500,000
Total NER First Cost	\$96,809,500
NER Average Annual Cost	
Annual Cost of Total Gross Investment	\$3,797,000
OMRR&R	\$196,600
Total Average Annual Cost (AAC)	\$3,993,600
Total AAC per Average Annual Habitat Unit (AAHU)	\$692
Restored plus Reconnected Habitat	371 Acres
NER Average Annual Benefits	
Net AAHU	5,775
Incidental Streambank Erosion Protection (Wastewater Conveyance)	\$646,000
Incidental Streambank Erosion Protection (Water Supply Conveyance)	Not quantified. Protects water supply for more than 200,000 residents
Recreation	
First Cost	\$25,000
AAC	\$1,000
Average Annual Benefits	\$11,000
Benefit-to-Cost Ratio	11
Incidental Annual Recreation Benefits (NER)	\$308,000
TSP Total Project First Cost	\$96,834,500

8 **ES.8.6 Project Cost Sharing**

9
10 The apportionment of total project costs between the Federal government and the non-
11 Federal sponsor, as established by Section 103 of the WRDA of 1986 (Public Law 99-
12 662), as amended, is displayed in Table ES- 8. Standard cost-sharing policy for

ecosystem restoration projects is described in current guidance (Engineer Regulation 1105-2-100) as follows:

ES.8.6.1 Ecosystem Restoration

- The non-Federal share will be 35 percent of the project or separable element implementation costs (preconstruction, engineering and design and construction) allocated to ecosystem restoration.
- The non-Federal sponsor is responsible for providing 100 percent of the LERRDs and OMRR&R.

The value of LERRDs shall be included in the non-Federal 35 percent share. Table ES- 8 also includes a line item for Federal administrative costs. These costs represent Federal administration and review activities relating to the non-Federal sponsor’s provision of LERRDs for the project, and are therefore a cost-shared component of the project and are not part of LERRDs.

ES.8.6.2 Recreation

- Recreation costs will be shared equally.

Table ES- 8 Federal and Non-Federal Apportionment of Total Project First Cost			
Item	Federal	Non-Federal	Total (Rounded)
Real Estate			
Non-Federal Sponsor LERRD	0	15,500,000	15,500,000
Non-Federal Sponsor Administrative Costs	0	1,550,000	1,550,000
Federal Administrative Costs	65,000	0	65,000
Subtotal – Real Estate	65,000	17,050,000	17,115,000
Construction			
Construction	61,454,200	0	61,454,200
PED (including EDC)	9,525,400	0	9,525,400
Geotechnical Investigations	500,000	0	500,000
Construction Management (S&A)	3,994,500	0	3,994,500
Subtotal – Construction	75,474,100	0	75,474,100
Monitoring/Adaptive Management			
Monitoring	1,406,800	0	1,406,800
Adaptive Management	2,110,200	0	2,110,200
Subtotal Monitoring/Adaptive Management	3,517,000	0	3,517,000
Pre-Adjusted Total Cost-Share Amount (65/35)	79,056,100	17,050,000	96,106,100
Adjustment for Cost-Share	-16,587,135	16,587,135	0
Total (65/35)	62,468,965	33,637,135	96,106,100
<i>Percent of Total</i>	<i>65%</i>	<i>35%</i>	
Other Costs			
Recreation (50/50)	12,500	12,500	25,000
Cultural Resources (Data Recovery; Initial Federal)	703,400	0	703,400
Total Cash Contribution	63,184,865	16,599,635	78,784,500
Total Project Cost	63,184,865	33,649,635	96,834,500

1 **ES.9 NEXT STEPS IN THE PLANNING PROCESS**
2

3 Comments provided on these alternative plans during the public draft review period, and
4 other comments on the Draft IFR and technical appendices, will be considered by the
5 Corps and OCPW. After the close of the public review (and other concurrent reviews),
6 the Corps will prepare for the Agency Decision Milestone meeting, when feedback on
7 any significant comments and impacts to the NER Plan/TSP will be presented to a panel
8 of Corps senior leaders. A decision will be made at that meeting regarding the selection
9 of a plan to carry forward for feasibility-level design in order to complete the feasibility
10 study and recommend to Congress for authorization.

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South Orange County Wastewater Authority

November 28, 2017

Ms. Deborah Lamb, CESPL-PDR-L
U. S. Army Corps of Engineers, Los Angeles District
915 Wilshire Blvd.
Los Angeles, CA 90017-3401

RE: SOCWA Comments on the U. S. Army Corps of Engineers Aliso Creek Mainstem Ecosystem Restoration Study

Dear Ms. Lamb:

SOCWA staff is grateful for the opportunity to review the draft integrated feasibility report for the Aliso Creek Mainstem Ecosystem Restoration Study prepared by the United States Army Corps of Engineers (USACE). We encourage and fully support the process of continuing to more thoroughly understand the unique array of sensitive coastal species and habitats that the Wilderness Park supports and we appreciate the opportunity to provide feedback and input on the continued development of conservation measures that guarantee this project's success in restoring creek functions and services while providing long-term protection to SOCWA's infrastructure. Please find our specific comments below.

1. The Study notes that "The horizontal alignment of the proposed channel generally follows that of the existing channel unless the proposed channel is too close to the buried utilities. In those areas near the buried utilities the new alignment is shifted away from the bank and rip-rap protection is provided." SOCWA understands that buried utility protection is an incidental benefit of a proposed project that focuses on ecosystem restoration. We agree with the proposed goal of maintain the existing channel where there is no threat to the buried utilities and roadway.
2. SOCWA notes that each of the identified alternatives should also be reviewed with respect to existing property rights, easements and joint use agreements within the project boundaries.
3. On Page 2-95 please delete the text regarding transmission of raw sewage in the watershed. This task is managed by SOCWA's member agencies. In the third paragraph please change the description of the piping to the following:

"These include one pipe that can carry raw sewage, one pipe that carries treated effluent and two pipes that carry wastewater solids."
4. Section 3.7.1 identifies the project element shifting the permanent access road from the west side to the east side of Aliso Creek. The description notes a road width of 16 feet. SOCWA requires that the road be minimum two lane with a total width of 24 feet to accommodate the traffic to and from the Coastal Treatment Plant.
5. Any relocation of the access road requires coordination with the City of Laguna Niguel regarding access to and from Alicia Parkway. It is likely that a traffic signal would be necessary at the connection point with Alicia Parkway to provide the appropriate level of traffic safety.

6. Alternatives 3 and 4 include the conversion of the current paved access road on the west side of Aliso Creek to usage for park visitors. It should be noted that the west bank road system will remain necessary for access by emergency vehicles that would service both the Park and the Coastal Treatment Plant. This also includes access by emergency vehicles from Laguna Beach through 'The Ranch'. Roads on both the east and west side would be used by all parties as evacuation routes in the event of an emergency.
7. The text of the study notes that Alternatives 3 and 4 result in greater disruption of access to the Coastal Treatment Plant during a 100 year storm event. It should be noted that any disruption of access to the Coastal Plant that lasts over 24 hours may result in a failure of the treatment process as well as potential spill from the treatment plant.
8. The study should note that OC Parks has established a hiking trail along the dirt access road on the east side of Aliso Creek. Any plan to establish a permanent road along the east side of the creek should address separation of the vehicular access and visitor use to achieve the needed level of public safety.
9. Page 4-11 addresses diversion and control of water flows. SOCWA notes that a key issue is not only flow within the creek channel but tributary flows within the Park. Any proposed project should reflect the construction and permanent impacts of these flows.
10. Figure 4.3.1 notes that the project would be completed in four separate phases. The phasing of the project must be organized so that SOCWA has continuous access to the Coastal Treatment Plant.
11. Page 4-6 of the document makes a brief comment that the risk of wildfire is higher for the 'no action' alternative. SOCWA is very concerned about wildfire potential in Aliso Canyon due to the presence of the Coastal Treatment Plant and of traffic to and from the plant through the canyon.
12. The alternatives include modifications to the Aliso Creek channel between Aliso Creek Road and Pacific Parkway. The impacts of the proposed alternatives on the west bank of Aliso Creek appear relatively limited. However, it should be noted that the Effluent Transmission Main is buried along the west bank.
13. Any proposed project within Aliso Canyon should address Southern California Edison (SCE) easements. These easements encompass the overhead power lines that provide electricity to the Coastal Treatment Plant.
14. The Wilderness Park has been subject to intensive biological resource investigations spanning almost two decades. Much of that information is presented in the report. Many of the studies and/or mapping efforts referenced are aging and could be considered for updating information, particularly the invasive species mapping that was done by OC Parks in 2009. Since that time the main stem of Aliso Creek has been subject to intensive giant reed removal efforts throughout the Wilderness Park, most notably the 55-acre Orange County Transportation Authority (OCTA) Measure M Aliso Creek Project that successfully treated and eradicated

roughly 30 acres of giant reed from the watershed. Many of the studies referenced throughout the analysis are well over 5 years old and could benefit from an update to account for changing conditions and to ensure that the most up-to-date data is used to support continued project design and development moving forward.

15. The USACE did a high-level investigation of cultural resources in the study area. SOCWA has conducted several cultural resource investigations in the study area over the past 15 years. We understand USACE intends to conduct a more comprehensive cultural resource inventory of the APE during the PED phase to supplement site investigations conducted during the feasibility phase, and that non-surveyed or inadequately surveyed areas would be examined in the next phase of the study prior to more detailed designs and before any ground disturbing activities. SOCWA supports these further investigations as there are known important archeological and paleontological resources in the study area.

Thank you for the opportunity to comment on the work of the US ACOE for this important project.

Sincerely,

A handwritten signature in blue ink that reads "B. Burnett". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

Betty Burnett
General Manager
South Orange County Wastewater Authority

Cc: Dave Shissler, City of Laguna Beach
Andy Brunhart, South Coast Water District

South Orange County Wastewater Authority 2018 Meeting Calendar

January							February							March						
Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa
	1	2	3	4	5	6					1	2	3					1	2	3
7	8	9	10	11	12	13	4	5	6	7	8	9	10	4	5	6	7	8	9	10
14	15	16	17	18	19	20	11	12	13	14	15	16	17	11	12	13	14	15	16	17
21	22	23	24	25	26	27	18	19	20	21	22	23	24	18	19	20	21	22	23	24
28	29	30	31				25	26	27	28				25	26	27	28	29	30	31
April							May							June						
Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa
1	2	3	4	5	6	7			1	2	3	4	5						1	2
8	9	10	11	12	13	14	6	7	8	9	10	11	12	3	4	5	6	7	8	9
15	16	17	18	19	20	21	13	14	15	16	17	18	19	10	11	12	13	14	15	16
22	23	24	25	26	27	28	20	21	22	23	24	25	26	17	18	19	20	21	22	23
29	30						27	28	29	30	31			24	25	26	27	28	29	30
July							August							September						
Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa
1	2	3	4	5	6	7				1	2	3	4							1
8	9	10	11	12	13	14	5	6	7	8	9	10	11	2	3	4	5	6	7	8
15	16	17	18	19	20	21	12	13	14	15	16	17	18	9	10	11	12	13	14	15
22	23	24	25	26	27	28	19	20	21	22	23	24	25	16	17	18	19	20	21	22
29	30	31					26	27	28	29	30	31		23	24	25	26	27	28	29
														30						
October							November							December						
Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa
	1	2	3	4	5	6					1	2	3							1
7	8	9	10	11	12	13	4	5	6	7	8	9	10	2	3	4	5	6	7	8
14	15	16	17	18	19	20	11	12	13	14	15	16	17	9	10	11	12	13	14	15
21	22	23	24	25	26	27	18	19	20	21	22	23	24	16	17	18	19	20	21	22
28	29	30	31				25	26	27	28	29	30		23	24	25	26	27	28	29
														30	31					

- Board Meeting (8:30 a.m.) Executive Committee (9:00 a.m.)
- Engineering Committee (8:30 a.m.) and Board Meeting (10:00 a.m.)
- Finance Committee (10:30 a.m.) Engineering Committee (8:30 a.m.)

Regular SOCWA meetings are held at 34156 Del Obispo Street, Dana Point, California

Red numbered dates indicate SOCWA holidays and weekends

Harbor Developer Named by Board of Supervisors

Dana Point Harbor Partners selected as primary developer for the next 66 years

BY DANIEL RITZ, DANA POINT TIMES

During their meeting on Oct. 17, the Orange County Board of Supervisors unanimously selected Dana Point Harbor Partners (DPHP) as the primary developer, operator and manager of the Dana Point Harbor for the next 66 years.

With this vote, the Board of Supervisors has directed Orange County Chief of Real Estate Officer Scott Mayer to enter into lease agreement negotiations with DPHP. If everything goes in alignment with the timeline proposed by DPHP, a draft contract agreement should be completed within the next 120 days.

Beyond the acronym • The DPHP

development team consists of three co-managing members, each responsible for their respective property type.

Burnham Ward Properties will oversee the commercial core, Bellwether Financial Group will manage the wet and dry marinas and R.D. Olson Development will manage the hotel sector. A county staff report lists relevant project experiences as the South Coast Collection, Long Beach Exchange, Paséa Hotel in Huntington Beach, Lido House Hotel in Newport Beach and the Alamitos Bay Marina in Long Beach.

The single master-lease between the county and DPHP was an important element in the Board of Supervisor's decision. Fifth District Supervisor Lisa

Bartlett described it during the meeting as "everyone being in the same bucket."

Universal local support • James Lenthall, president of the Dana Point Boaters Association, announced late last week that his group had joined the merchants of the Dana Point Harbor in unified support of DPHP, who at that time had been determined as the county staff's recommendation.

Lenthall said in an email after the decision was announced that, "The Dana Point Boaters Association is pleased that the supervisors agreed with us, and the merchants, and so many others in our community that Dana Point Harbor Partners is the superior choice to rebuild

our harbor and carry it with us into the future. Though the supervisors did use today to challenge county staff on the technicalities of their review process, there was never a challenge to the outcome of the process or the recommendation of a developer."

Shannon Levin, Dana Point Harbor manager, said that she was excited that the community, boaters and merchants have a viable project to look forward to as well as a solidified developer.

"I think that this resounds that DPHP was the right selection," Levin said. "Their management structure, financials and timeline are what the community desires. We are all ready to move on with a long-awaited project." **DP**