

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

*Regular Meeting of The
South Orange County Wastewater Authority
Board of Directors*

Thursday, May 4, 2017
8:30 a.m.

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

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

1. CALL MEETING TO ORDER

2. PLEDGE OF ALLEGIANCE

3. ORAL COMMUNICATIONS

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

4. CONSENT CALENDAR

A. Financial Matters

Summary of Disbursements for December 2016 – Exhibit A 3
Schedule of Funds Available for Reinvestment – Exhibit B..... 4
Schedule of Cash and Investments – Exhibit C 5
Capital Projects Summary – Exhibit D 6
Capital Projects Budget vs. Actual Graph – Exhibit D1 7

Budget vs. Actual Expenses – Exhibits E1-E4

Operations/Maintenance & Environmental Safety Costs – Exhibit E1	8
O&M Budget vs. Actual Comparison by PC – Exhibit E1A.....	10
Engineering Budget vs. Actual Comparison – Exhibit E2.....	16
Administration Budget vs. Actual Comparison – Exhibit E3	17
Information Technology (IT) Budget vs. Actual Comparison – Exhibit E4	18

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

B. Operational Reports

Monthly Operations Report – March 2017	21
Ocean Outfall Discharges.....	28
Beach/Ocean Monitoring Report	37
Recycled Water Report	60
Pretreatment Report.....	64

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

C. Capital Improvement Program

Capital Improvement Status Reports	68
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ACTION The Board will be requested to receive and file subject reports.

D. Project Committee No. 2

Service Contract – Western Energy Systems.....	84
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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: five (5) year terms, \$12.00 per engine operating hour, \$0.0188 kilowatt hours (kWhe) produced, first year annual contract costs shall not to exceed \$200,000, and 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.

E. Project Committee No. 17

Change Order – Pacific Hydrotech Contract.....	89
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ACTION The PC17 Board will be requested to approve Change Order 1 to the construction contract with Pacific Hydrotech for the Regional Treatment Plant Miscellaneous Improvements 2016 Project.

F. Project Committee No. 2, 15 & 17

Rejection of Bids – Janitorial Services.....92

ACTION The Board(s) will be requested to approve the rejection of all bids due to project budget concerns, authorize staff to revise the project in accordance with staff recommendations, and issue a Request for Proposals (RFP) in accordance with SOCWA’s procedures.

G. Award of Contract – Zumasys, Inc.

Business Server Hardware and Related Maintenance Services.....93

ACTION Approve award of a three (3) year contract for business hardware and maintenance services with Zumasys, Inc. for a fee not to exceed \$148,223.69.

F. Board of Directors Officers FY 17/18 – Chair to Appoint a Nominating Committee if Chair Desires (See GM Report at item 8.D. for information – current officers may serve for an additional 1 year confirmed by Consent Calendar Action at June 1, 2017 Board Meeting)

ACTION Discretion of Chair

6. ENGINEERING MATTERS

A. Award of Engineering Services Contract to Carollo Engineers [PC2]95

ACTION The Board will be requested to approve the award of the engineering services contract to Carollo Engineers at a fee of \$124,366

B. Award of Construction Contract to Olsson Construction [PC15].....100

ACTION The Board will be requested to reject all bids, approve award of negotiated construction contract to Olsson Construction at a price of \$910,900 and increase budget for AWT Filter Supply and Backwash Pumps Replacement by \$150,000.

7. BUDGET WORKSHOP – REVIEW OF PROPOSED SOCWA FY 2016/17 BUDGET

1. Overview of Agency Q&A from meetings with finance staff
2. PowerPoint Presentation O&M Budget, Capital Budget, Administrative Budget and General Fund Budget
3. Board Questions and Comments
4. Schedule for Budget Adoption

ACTION Information Item

8. GENERAL MANAGER'S REPORTS

A. JPA Agreement Presentation by SOCWA General Counsel, Pat Giannone

1. SOCWA Counsel will provide information to improve the understanding of the JPA Agreement.
2. Board Questions and Comments

ACTION Information Item

B. Resolution 2017-02 - Designation of Applicant's Agent Resolution for Non-State Agencies...108

ACTION The Board will be requested to approve Resolution No. 2017-02 Designation of California Office of Emergency Services Authorized Agents for SOCWA as Betty Burnett – General Manager, Jim Burror – Director of Operations, Brian Peck, Director of Engineering.

C. Resolution 2017-03 - Service Commendation for Brennon Flahive.....113

ACTION The Board will be requested to approve Resolution No. 2017-01 commending Mr. Flahive for his service to SOCWA.

D. General Manager's Status Report.....115

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

- Board Questions
- Receive and file

8. OTHER MATTERS

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

Note: Determine the need to act 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 an unanimous vote.]

10. ADJOURNMENT

THE NEXT REGULAR SOCWA BOARD MEETING WILL HELD ON
JUNE 1, 2017 AT 8:30 A.M.

Agenda Item

Legal Counsel Review: N/A

Meeting Date: May 4, 2017

TO: Board of Directors
FROM: Betty Burnett, General Manager
STAFF CONTACT: Mary Carey, Finance Controller
SUBJECT: Financial Matters – For Month of and Year-to-Date March 31, 2017

Summary/Discussion

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

- a) Summary of Disbursements
 - For Month of March 2017 (Exhibit A)
- b) Schedule of Funds Available for Reinvestment (Exhibit B)
- c) Schedule of Cash and Investments (Exhibit C)
- d) Capital Schedule (Exhibit D)
 - Capital Projects – Graph (Exhibit D-1)
- e) Budget vs. Actual Expenses:
 - Operations and Environmental Summary (Exhibit E-1)
 - Operations and Environmental by PC (Exhibit E-1-A)
 - Residual Engineering, after transfer to Capital (Exhibit E-2)
 - Administration (Exhibit E-3)
 - Information Technology (IT) (Exhibit E-4)

Fiscal impact

During the month of March 2017, disbursements totaled \$3,435,311 and are summarized by Project Committee in the attached Exhibit A.

The attached Exhibits B, C, and D are informational reports only.

Recommendation

Staff recommends the Board of Directors:

- 1) Ratify the Summary of Disbursements for the period from March 1, 2017 through March 31, 2017 (attached as Exhibit A).
- 2) Receive and file the following as information items:
 - Schedule of Funds Available for Reinvestment (Exhibit B)

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

Exhibit A

South Orange County Wastewater Authority
Summary of Disbursements for Month of March 2017
 Staff Recommendation of Fiscal Matters

	Actual
General Fund	(\$660,385)
PC 2 - Jay B. Latham Plant	(765,685)
PC 3 - SOCWA Plant/PCA AWT	(250) (1)
PC 5 - San Juan Creek Ocean Outfall	(28,775)
PC 8 - Pretreatment Proram	(6,563)
PC 12 SO - Water Reclamation Permits	(2,391)
PC 15 - Coastal Treatment Plant/AWT	(435,413)
PC 17 - Joint Regional Wastewater Reclamation	(1,488,623)
PC 21 - Effluent Transmission Main	(17,377)
PC 24 - Aliso Creek Ocean Outfall	(29,850)
Total	(\$3,435,311)

(1) Application of Fringe to Engineering Labor to Capital

**SOUTH ORANGE COUNTY WASTEWATER AUTHORITY
SCHEDULE OF FUNDS AVAILABLE FOR REINVESTMENT**

as of March 31, 2017

CASH IN BANK: (BEGINNING BAL.)	\$	2,155,983
L.A.I.F. FUNDS: (BEGINNING BAL.)		12,262,821
DEPOSITS, TRANSFERS & ADJUSTMENTS:		81,754
FUND REQUIREMENTS:		
BILLS FOR CONSIDERATION		<u>(3,435,311)</u>
	\$	<u>11,065,247</u>

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

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

- 1). All investment actions executed since the last report have been made in full compliance with the Investment Policy.
- 2). SOCWA does not have sufficient funds currently on hand to meet its expenditure obligations for the next six months (see note) due to the fact that SOCWA bills and receives operational funds on a quarterly basis only.

Betty Burnett
General Manager

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

South Orange County Wastewater Authority
Schedule of Cash and Investments
as of March 31, 2017

MVA	\$ 117,785	(A)
A/P Checking	994,326	(B)
Payroll Checking	890,315	(C)
State LAIF	9,062,821	(D)
Total Cash in Bank	11,065,247	
Petty Cash	1,600	(E)
Total Operating Cash	11,066,847	
OPEB Trust	3,922,467	(F)
Total Cash and Investments	\$ 14,989,314	

- Notes:
- (A) Interest bearing account; all cash receipts are deposited in this account.
 - (B) Accounts Payable Checks are drawn against this account; money is transferred to this account from the MVA account or LAIF.
 - (C) Payroll including payroll taxes and related liabilities are drawn against this account; money is transferred to this account from MVA account or LAIF.
 - (D) LAIF balance.
 - (E) Cash on hand with GM's office and held by Chief Operators at each Treatment facility.
 - (F) OPEB Trust Fund; these funds can only be used for Retiree health benefits.

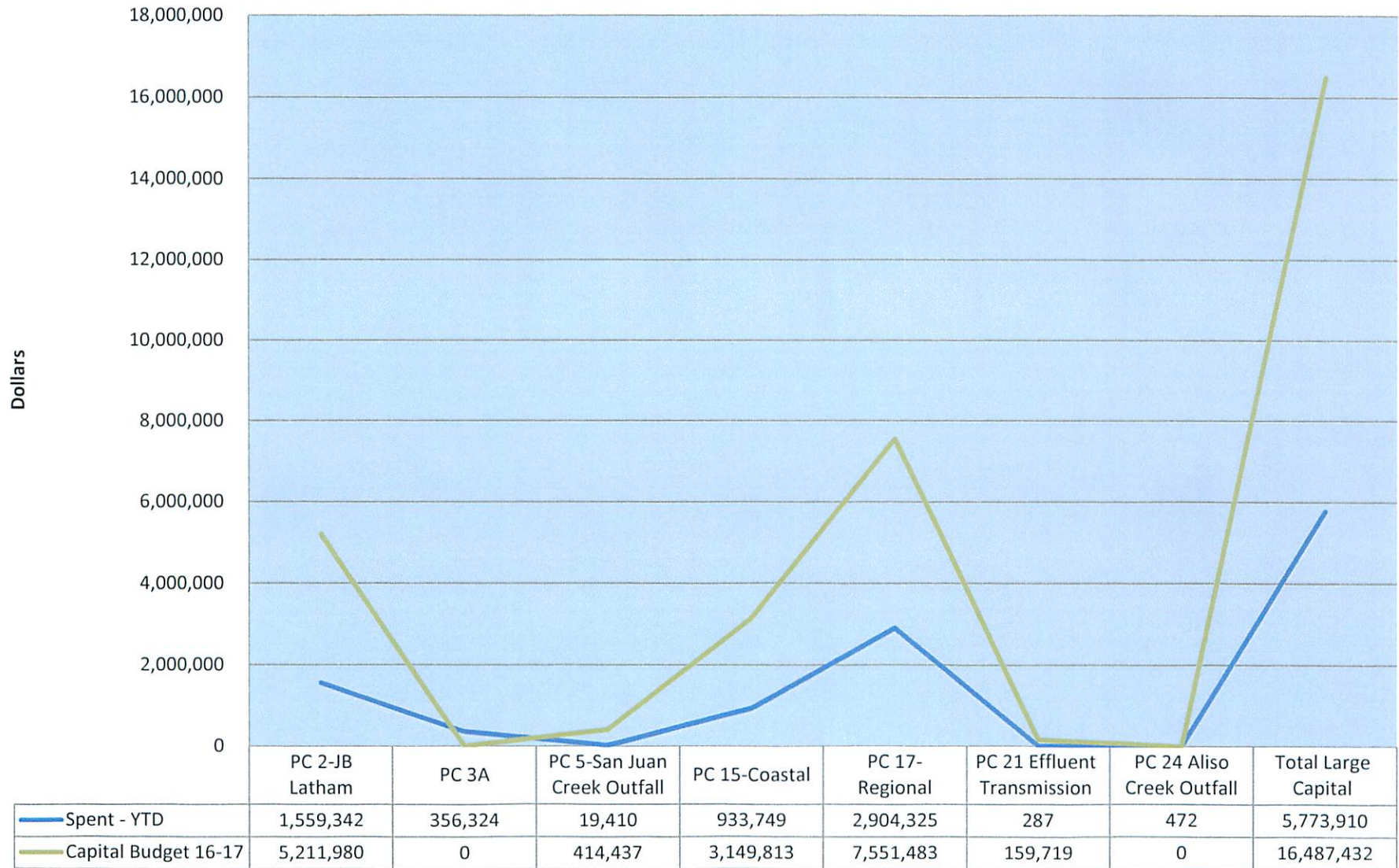
Work is underway on Cash by Member Agency, Project Committee and Capital Project.

**South Orange County Wastewater Authority
Capital Projects Summaries
as of
March 31, 2017**

FY 2016-17 Budget vs. Actual Spending							
<u>Description</u>	Capital Budget	Fiscal Year Spending	(Over)/ Under Budget	% Expended	Member Agency Billed	Member Agency Collected	Past Due Amount
PC 2-JB Latham	5,211,980	1,559,342	3,652,638	29.9%	4,194,380	4,194,380	-
PC 3A	-	356,324	(356,324)		-	-	-
PC 5-San Juan Creek Outfall	414,437	19,410	395,027	4.7%	138,974	138,974	-
PC 15-Coastal	3,149,813	933,749	2,216,064	29.6%	1,965,393	1,527,384	438,009
PC 17-Regional	7,551,483	2,904,325	4,647,158	38.5%	5,605,862	5,605,862	-
PC 21 Effluent Transmission	159,719	287	159,432	0.2%	55,347	55,347	-
PC 24 Aliso Creek Outfall	-	472	(472)		-	-	-
Total Large Capital	16,487,432	5,773,910	10,713,522	35.0%	11,959,956	11,521,947	438,009
Non-Capital Engineering	891,500	208,334	683,166	23.4%	717,451	697,617	19,834
Small Internal Capital	1,254,100	602,329	651,771	48.0%	940,575	877,170	63,405
Small Internal Capital carryover from 15/16	129,000	95,574	33,426	74.1%	129,000	129,000	-
Total Capital	18,762,032	6,680,147	12,081,885	35.6%	13,746,982	13,225,734	521,248

- (1) Expenditures included in prior year, 2015-16 budget.
- (2) MNWD Q1, Q2 and Q3 PC 15 billings are still outstanding, \$521,248.
- (3) Invoiced and Collected in Fiscal Year 2015-16

Large Capital Projects Exhibit D-1 Budget vs. Actual Year-to-Date 03/31/2017



**South Orange County Wastewater Authority
O & M & Environmental Safety Costs Summary
For the Period Ended March 31, 2017**

Exhibit E-1

	FY 2016-17 Budget	Actual	(Over)/Under Budget	% Expended	
Salary and Fringe					
5000-**	Regular Salaries-O&M	4,249,384	3,019,622	1,229,762	71.1% (1)
5001-**	Overtime Salaries-O&M	79,080	115,937	(36,857)	146.6% (2)
5306-**	Scheduled Holiday Work	50,700	21,180	29,520	41.8%
5307-**	Weekend Shift Pay	-	273	(273)	0.0%
5401-**	Fringe Benefits IN to PC's & Depts.	3,017,080	2,143,932	873,148	71.1% (1)
5700-**	Standby Pay	137,588	52,228	85,361	38.0%
	Total Payroll Costs	7,533,832	5,353,171	2,180,661	71.1%
Other Expenses					
5002-**	Electricity	1,809,012	1,041,943	767,069	57.6%
5003-**	Natural Gas	167,304	115,003	52,301	68.7%
5004-**	Potable & Reclaimed Water	59,208	43,087	16,121	72.8%
5005-**	Co-generation Power Credit	(450,004)	(201,611)	(248,393)	44.8%
5006-**	Chlorine/Sodium Hypochlorite	542,404	289,376	253,028	53.4%
5007-**	Polymer Products	646,504	319,418	327,086	49.4%
5008-**	Ferric Chloride	251,800	174,221	77,579	69.2%
5009-**	Odor Control Chemicals	167,404	108,069	59,335	64.6%
5010-**	Other Chemicals - Misc.	5,000	-	5,000	0.0%
5011-**	Laboratory Services	35,700	24,088	11,612	67.5%
5012-**	Grit Hauling	113,200	72,944	40,256	64.4%
5013-**	Landscaping	160,000	171,941	(11,941)	107.5% (3)
5014-**	Engineering - Misc.	335,000	113,497	221,503	33.9%
5015-**	Management Support Services	294,024	70,983	223,041	24.1%
5016-**	Audit - Environmental	500	-	500	0.0%
5017-**	Legal Fees	88,004	12,627	75,377	14.3%
5018-**	Public Notices/ Public Relations	500	145	355	29.0%
5019-**	Contract Services Misc.	270,408	146,320	124,088	54.1%
5021-**	Small Vehicle Expense	19,444	22,929	(3,485)	117.9% (4)
5022-**	Miscellaneous Expense	16,804	4,918	11,886	29.3%
5023-**	Office Supplies - All	33,604	27,410	6,194	81.6% (5)
5024-**	Petroleum Products	58,400	22,913	35,487	39.2%
5025-**	Uniforms	34,408	28,213	6,195	82.0% (6)
5026-**	Small Vehicle Fuel	33,704	11,800	21,904	35.0%
5027-**	Insurance - Property/Liability	110,188	159,465	(49,277)	144.7%
5028-**	Small Tools & Supplies	63,128	48,494	14,634	76.8%
5030-**	Trash Disposal	4,808	2,878	1,930	59.9%
5031-**	Safety Supplies	91,500	81,919	9,581	89.5% (7)
5032-**	Equipment Rental	7,204	7,917	(713)	109.9%
5033-**	Recruitment	-	707	(707)	0.0%
5034-**	Travel Expense/Tech. Conferences	40,016	10,439	29,577	26.1%
5035-**	Training Expense	62,496	30,702	31,794	49.1%
5036-**	Laboratory Supplies	75,508	47,280	28,228	62.6%
5037-**	Office Equipment	21,404	23,943	(2,539)	111.9%
5038-**	Permits	488,020	464,578	23,442	95.2%
5039-**	Membership Dues/Fees	12,012	5,947	6,065	49.5%
5040-**	Natural Gas - 11-EPS - PC 5	396	-	396	0.0%
5041-**	Electricity - 10-EPS - PC 5	31,500	16,073	15,427	51.0%
5042-**	Contract Services - 29-EPS - PC 5	4,104	-	4,104	0.0%
5044-**	Offshore Monitoring	40,008	18,963	21,045	47.4%
5045-**	Offshore Biochemistry - 20B	-	11	(11)	0.0%
5046-**	Effluent Chemistry	52,004	27,238	24,766	52.4%
5047-**	Access Road Expenses	45,400	9,287	36,113	20.5%
5048-**	Storm Damage	18,600	5,592	13,008	30.1%
5049-**	Biosolids Disposal	1,524,604	943,882	580,722	61.9%
5050-**	Contract Services Generators	19,704	17,942	1,762	91.1% (8)
5052-**	Janitorial Services	50,008	22,992	27,016	46.0%
5053-**	Contract Serv - Digester Cleaning - 29E	-	-	-	0.0%
5054-**	Diesel Truck Maint	29,512	19,743	9,769	66.9% (9)
5055-**	Diesel Truck Fuel	12,200	4,590	7,610	37.6%
5056-**	Maintenance Equip. & Facilities (Solids)	311,500	278,389	33,111	89.4%
5057-**	Maintenance Equip. & Facilities (Liquids)	530,400	404,852	125,548	76.3% (10)
5058-**	Maintenance Equip. & Facilities (Common)	60,300	60,749	(449)	100.7% (11)
5059-**	Maintenance Equip. & Facilities (Co-Gen)	158,500	52,230	106,270	33.0%

**South Orange County Wastewater Authority
O & M & Environmental Safety Costs Summary
For the Period Ended March 31, 2017**

Exhibit E-1

		FY 2016-17 Budget	Actual	(Over)/Under Budget	% Expended	
Salary and Fringe						
5060-***	Maintenance Equip. & Facilities (AWT)	57,600	55,381	2,219	96.1%	(12)
5061-***	Mileage	4,952	3,764	1,188	76.0%	
5067-***	Port Cleaning	-	-	-	0.0%	
5068-***	MNWD Potable Water Supplies & Svcs.	23,996	19,418	4,578	80.9%	
5069-***	Misc-Capital-Dilution & Metering Study	65,004	26,865	38,139	41.3%	
5077-***	IT Direct	150,004	77,403	72,601	51.6%	(13)
17-5101-01-00-00	Employee Recognition	-	625	(625)	0.0%	
5105-***	Co-Generation Power Credit - Offset	450,004	201,611	248,393	44.8%	
5301-***	Vehicle Pay	-	3,229	(3,229)	0.0%	
5302-***	Longevity Bonus	-	5,866	(5,866)	0.0%	
5303-***	Group Insurance Waiver	-	5,534	(5,534)	0.0%	
5305-***	Medicare Tax Payments for Employees	-	10,155	(10,155)	0.0%	
5309-***	Operating Leases	7,004	3,810	3,194	54.4%	
5705-***	Monthly Car Allowance	37,320	21,548	15,772	57.7%	
5802-***	Shipping/Freight	-	580	(580)	0.0%	
6500-***	IT Allocations in to PC's & Depts.	577,252	369,507	207,745	64.0%	
	Total Other Expenses	9,930,492	6,192,330	3,738,162	62.4%	
Total Expenses		17,464,324	11,545,501	5,918,823	66.1%	

- (1) Labor and benefits under budget by \$286,295 due to retirement caused vacancies.
- (2) New Equipment Startup and Troubleshooting Issues, January/February Storms, and odor complaint investigations
- (3) Completed carryover work from FY15-16. Expenses will level off for the rest of the year.
- (4) Completed annual services for fleet. Expenses will level off for the rest of the year.
- (5) Office supplies restocked at the beginning of the year. Expenses will level off for the rest of the year.
- (6) New employee equipment purchases.
Employee boots and online training for the year is completed and expenses will be lower for the remainder of the year
- (7) Most work is done at the beginning of the fiscal year. Expenses will be minimal for the rest of the year.
- (8) Completed annual services and repairs.
- (9) Staff completed a number of repairs to prepare for the winter projected higher flows expected.
- (10) Several air conditioner units failed and were replaced.
- (11) Equipment ordered for winter maintenance projects.
- (12) This includes \$68,000 carryover for PC-15 from FY15-16 for SCADA server replacement project.
- (13)

South Orange County Wastewater Authority
O&M Budget vs. Actual Comparison by PC
For Fiscal Year 2016-2017 as of March 31, 2017

Exhibit E-1-A

		FY 2016-17 Budget	Actual	(Over)/Under Budget	% Expended
02 - Jay B. Latham Plant					
Salary and Fringe					
02-5000-01-***	Regular Salaries-O&M	1,164,588	888,506	276,082	76.3%
02-5000-02-***	Regular Salaries-O&M	141,832	114,442	27,390	80.7%
02-5001-01-***	Overtime Salaries-O&M	18,004	33,772	(15,768)	187.6%
02-5001-02-***	Overtime Salaries-O&M	2,404	447	1,957	18.6%
02-5306-01-***	Scheduled Holiday Work	12,004	7,072	4,932	58.9%
02-5306-02-***	Scheduled Holiday Work	1,596	1,162	434	72.8%
02-5307-01-***	Weekend Shift Pay	-	110	(110)	0.0%
02-5307-02-***	Weekend Shift Pay	-	10	(10)	0.0%
02-5401-01-***	Fringe Benefits IN to PC's & Depts.	826,864	630,839	196,025	76.3%
02-5401-02-***	Fringe Benefits IN to PC's & Depts.	100,704	81,254	19,450	80.7%
02-5700-01-***	Standby Pay	51,492	22,328	29,165	43.4%
	Total Payroll Costs	2,319,488	1,779,942	539,546	76.7%
Other Expenses					
02-5002-01-***	Electricity	859,996	603,892	256,104	70.2%
02-5003-01-***	Natural Gas	30,000	39,533	(9,533)	131.8%
02-5004-01-***	Potable & Reclaimed Water	14,804	10,444	4,360	70.5%
02-5006-01-***	Chlorine/Sodium Hypochlorite	27,200	10,950	16,250	40.3%
02-5007-01-***	Polymer Products	257,500	112,000	145,500	43.5%
02-5008-01-***	Ferric Chloride	90,600	56,400	34,200	62.3%
02-5009-01-***	Odor Control Chemicals	21,400	19,301	2,099	90.2%
02-5010-01-***	Other Chemicals - Misc.	1,000	-	1,000	0.0%
02-5011-02-***	Laboratory Services	10,500	8,859	1,641	84.4%
02-5012-01-***	Grit Hauling	38,500	28,266	10,234	73.4%
02-5013-01-***	Landscaping	45,000	24,533	20,467	54.5%
02-5014-01-***	Engineering - Misc.	80,000	19,182	60,819	24.0%
02-5015-01-***	Management Support Services	96,000	10,445	85,555	10.9%
02-5015-02-***	Management Support Services	40,004	5,516	34,488	13.8%
02-5017-01-***	Legal Fees	23,996	2,726	21,270	11.4%
02-5019-01-***	Contract Services Misc.	77,304	51,869	25,435	67.1%
02-5021-01-***	Small Vehicle Expense	7,204	9,541	(2,337)	132.4%
02-5022-01-***	Miscellaneous Expense	7,204	3,627	3,577	50.3%
02-5023-01-***	Office Supplies - All	20,004	14,717	5,287	73.6%
02-5024-01-***	Petroleum Products	15,500	4,081	11,419	26.3%
02-5025-01-***	Uniforms	12,004	10,349	1,655	86.2%
02-5026-01-***	Small Vehicle Fuel	14,108	6,074	8,034	43.1%
02-5027-01-***	Insurance - Property/Liability	42,748	57,263	(14,515)	134.0%
02-5027-02-***	Insurance - Property/Liability	4,996	-	4,996	0.0%
02-5028-01-***	Small Tools & Supplies	31,004	19,551	11,453	63.1%
02-5030-01-***	Trash Disposal	800	1,139	(339)	142.4%
02-5031-01-00-00	Safety Supplies	-	(324)	324	0.0%
02-5031-02-***	Safety Supplies	35,004	35,362	(358)	101.0%
02-5032-01-***	Equipment Rental	3,000	600	2,400	20.0%
02-5034-01-***	Travel Expense/Tech. Conferences	11,000	3,203	7,797	29.1%
02-5034-02-***	Travel Expense/Tech. Conferences	3,504	1,263	2,241	36.1%
02-5035-01-***	Training Expense	31,004	9,284	21,720	29.9%
02-5035-02-00-00	Training Expense	-	3,167	(3,167)	0.0%
02-5036-02-***	Laboratory Supplies	14,000	7,376	6,624	52.7%
02-5037-01-***	Office Equipment	15,004	18,771	(3,767)	125.1%
02-5038-01-00-00	Permits	-	14,877	(14,877)	0.0%
02-5038-02-***	Permits	22,000	2,342	19,658	10.6%
02-5039-01-***	Membership Dues/Fees	4,000	3,006	994	75.1%
02-5039-02-***	Membership Dues/Fees	1,000	270	730	27.0%
02-5049-01-***	Biosolids Disposal	574,600	241,976	332,624	42.1%
02-5050-01-***	Contract Services Generators	8,296	5,981	2,315	72.1%
02-5052-01-***	Janitorial Services	20,004	10,669	9,335	53.3%
02-5054-01-***	Diesel Truck Maint	10,004	8,046	1,958	80.4%
02-5055-01-***	Diesel Truck Fuel	6,000	2,098	3,902	35.0%
02-5056-01-***	Maintenance Equip. & Facilities (Solids)	133,100	123,492	9,608	92.8%
02-5057-01-***	Maintenance Equip. & Facilities (Liquids)	232,204	153,583	78,621	66.1%
02-5058-01-***	Maintenance Equip. & Facilities (Common)	24,500	9,735	14,765	39.7%
02-5059-01-***	Maintenance Equip. & Facilities (Co-Gen)	69,000	11,565	57,435	16.8%
02-5061-01-***	Mileage	496	609	(113)	122.8%
02-5061-02-***	Mileage	256	912	(656)	356.3%

South Orange County Wastewater Authority
O&M Budget vs. Actual Comparison by PC
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Exhibit E-1-A

		FY 2016-17 Budget	Actual	(Over)/Under Budget	% Expended
02-5077-01-***	IT Direct	150,004	116	149,888	0.1%
02-5301-01-00-00	Vehicle Pay	-	1,059	(1,059)	0.0%
02-5302-01-03-00	Longevity Bonus	-	2,309	(2,309)	0.0%
02-5303-01-00-00	Group Insurance Waiver	-	2,423	(2,423)	0.0%
02-5303-02-00-00	Group Insurance Waiver	-	185	(185)	0.0%
02-5305-01-00-00	Medicare Tax Payments for Employees	-	2,921	(2,921)	0.0%
02-5305-02-00-00	Medicare Tax Payments for Employees	-	75	(75)	0.0%
02-5309-01-***	Operating Leases	4,000	3,810	190	95.3%
02-5705-01-***	Monthly Car Allowance	11,000	7,156	3,844	65.1%
02-5705-02-***	Monthly Car Allowance	12,316	-	12,316	0.0%
02-5802-01-00-00	Shipping/Freight	-	314	(314)	0.0%
02-5802-02-00-00	Shipping/Freight	-	116	(116)	0.0%
02-6500-01-***	IT Allocations in to PC's & Depts.	162,416	103,914	58,502	64.0%
02-6500-02-***	IT Allocations in to PC's & Depts.	19,052	12,390	6,662	65.0%
	Total Other Expenses	3,446,140	1,934,910	1,511,230	56.1%
02 - Jay B. Latham Plant Total Expenses		5,765,628	3,714,852	2,050,776	64.4%
03 - SOCWA Plant/PCA AWT					
Salary and Fringe					
03-5000-01-***	Regular Salaries-O&M	-	2,447	(2,447)	0.0%
03-5401-01-00-00	Fringe Benefits IN to PC's & Depts.	-	1,738	(1,738)	0.0%
	Total Payroll Costs	-	4,185	(4,185)	0.0%
03 - SOCWA Plant/PCA AWT Total Expenses		-	4,185	(4,185)	0.0%
05 - San Juan Creek Ocean Outfall					
Salary and Fringe					
05-5000-01-***	Regular Salaries-O&M	11,496	143	11,353	1.2%
05-5000-02-***	Regular Salaries-O&M	99,672	71,709	27,963	71.9%
05-5001-02-***	Overtime Salaries-O&M	3,000	57	2,943	1.9%
05-5306-02-***	Scheduled Holiday Work	1,992	-	1,992	0.0%
05-5307-02-11-00	Weekend Shift Pay	-	1	(1)	0.0%
05-5401-01-***	Fringe Benefits IN to PC's & Depts.	8,164	102	8,062	1.2%
05-5401-02-***	Fringe Benefits IN to PC's & Depts.	70,768	50,914	19,854	71.9%
	Total Payroll Costs	195,092	122,926	72,166	63.0%
Other Expenses					
05-5002-01-***	Electricity	1,000	128	872	12.8%
05-5002-02-***	Electricity	1,104	-	1,104	0.0%
05-5003-01-00-00	Natural Gas	-	174	(174)	0.0%
05-5003-02-***	Natural Gas	504	-	504	0.0%
05-5014-01-***	Engineering - Misc.	10,000	2,594	7,406	25.9%
05-5015-02-***	Management Support Services	20,004	19,520	484	97.6%
05-5022-02-***	Miscellaneous Expense	-	(1,050)	1,050	0.0%
05-5027-01-00-00	Insurance - Property/Liability	-	1,781	(1,781)	0.0%
05-5027-02-***	Insurance - Property/Liability	2,332	582	1,750	24.9%
05-5031-02-***	Safety Program & Supplies	504	5,715	(5,211)	1133.9%
05-5034-02-***	Travel Expense/Tech. Conferences	3,004	395	2,609	13.1%
05-5036-02-***	Laboratory Supplies	16,996	7,842	9,154	46.1%
05-5038-01-00-00	Permits and Fines	-	36,000	(36,000)	0.0%
05-5038-02-***	Permits	145,000	143,454	1,546	98.9%
05-5040-02-***	Natural Gas - 11-EPS - PC 5	396	-	396	0.0%
05-5041-01-00-00	Electricity - 10-EPS - PC 5	-	16,073	(16,073)	0.0%
05-5041-02-***	Electricity - 10-EPS - PC 5	31,500	-	31,500	0.0%
05-5042-02-***	Contract Services - 29-EPS - PC 5	4,104	-	4,104	0.0%
05-5044-02-***	Offshore Monitoring	20,004	9,482	10,523	47.4%
05-5046-02-***	Effluent Chemistry	26,000	8,632	17,368	33.2%
05-5056-01-00-00	Maintenance Equip. & Facilities (Solids) 41-A	-	2,091	(2,091)	0.0%
05-5069-02-***	Misc-Capital-Dilution & Metering Study	50,004	14,202	35,803	28.4%
05-5301-02-***	Vehicle Pay	-	646	(646)	0.0%
05-5305-02-***	Medicare Tax Payments for Employees	-	1,468	(1,468)	0.0%
05-5705-02-***	Monthly Car Allowance	-	2,585	(2,585)	0.0%
05-5802-01-00-00	Shipping/Freight	-	26	(26)	0.0%
05-6500-02-***	IT Allocations in to PC's & Depts.	28,308	14,105	14,203	49.8%
	Total Other Expenses	360,764	286,443	74,321	79.4%

South Orange County Wastewater Authority
O&M Budget vs. Actual Comparison by PC
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Exhibit E-1-A

		FY 2016-17 Budget	Actual	(Over)/Under Budget	% Expended
05 - San Juan Creek Ocean Outfall Total Expenses		555,856	409,369	146,487	73.6%
08 - Pre Treatment					
Salary and Fringe					
08-5000-02-****	Regular Salaries-O&M	87,744	56,332	31,412	64.2%
08-5001-02-****	Overtime Salaries-O&M	1,800	-	1,800	0.0%
08-5306-02-****	Scheduled Holiday Work	1,196	-	1,196	0.0%
08-5401-02-****	Fringe Benefits IN to PC's & Depts.	62,292	39,996	22,296	64.2%
	Total Payroll Costs	153,032	96,328	56,704	62.9%
Other Expenses					
08-5011-02-****	Laboratory Services	2,500	(1,800)	4,300	-72.0%
08-5015-02-****	Management Support Services	4,000	-	4,000	0.0%
08-5016-02-****	Audit - Environmental	500	-	500	0.0%
08-5017-02-****	Legal Fees	2,000	-	2,000	0.0%
08-5018-02-****	Public Notices/ Public Relations	500	145	355	29.0%
08-5021-02-****	Small Vehicle Expense - 31A	848	-	848	0.0%
08-5022-02-****	Miscellaneous Expense	1,496	518	978	34.6%
08-5026-02-****	Small Vehicle Fuel - 37A	1,196	-	1,196	0.0%
08-5027-02-00-00	Insurance - Property/Liability	-	59	(59)	0.0%
08-5028-02-****	Small Tools & Supplies	3,400	1,258	2,142	37.0%
08-5031-02-00-00	Safety Program & Supplies	-	145	(145)	0.0%
08-5034-02-****	Travel Expense/Tech. Conferences	3,496	2,615	881	74.8%
08-5035-02-****	Training Expense	1,496	825	671	55.1%
08-5039-02-****	Membership Dues/Fees	1,004	135	869	13.4%
	Total Other Expenses	22,436	3,900	18,536	17.4%
08 - Pre Treatment Total Expenses		175,468	100,228	75,240	57.1%
12 - Water Reclamation Permits					
Salary and Fringe					
12-5000-02-****	Regular Salaries-O&M	33,040	35,235	(2,195)	106.6%
12-5001-02-****	Overtime Salaries-O&M	1,444	247	1,197	17.1%
12-5306-02-****	Scheduled Holiday Work	956	-	956	0.0%
12-5401-02-****	Fringe Benefits IN to PC's & Depts.	23,464	25,017	(1,553)	106.6%
	Total Payroll Costs	58,904	60,499	(1,595)	102.7%
Other Expenses					
12-5015-02-****	Management Support Services	45,004	2,400	42,604	5.3%
12-5017-02-****	Legal Fees	8,008	-	8,008	0.0%
12-5038-02-****	Permits	130,008	109,095	20,913	83.9%
12-6500-02-****	IT Allocations in to PC's & Depts.	20,000	8,521	11,479	42.6%
	Total Other Expenses	203,020	120,016	83,004	59.1%
12 - Water Reclamation Permits Total Expenses		261,924	180,515	81,409	68.9%
15 - Coastal Treatment Plant					
Salary and Fringe					
15-5000-01-****	Regular Salaries-O&M	732,484	510,994	221,490	69.8%
15-5000-02-****	Regular Salaries-O&M	111,304	95,298	16,006	85.6%
15-5001-01-****	Overtime Salaries-O&M	10,440	17,417	(6,977)	166.8%
15-5001-02-****	Overtime Salaries-O&M	2,996	466	2,530	15.6%
15-5306-01-****	Scheduled Holiday Work	6,960	2,556	4,404	36.7%
15-5306-02-****	Scheduled Holiday Work	1,996	1,134	862	56.8%
15-5307-01-****	Weekend Shift Pay	-	19	(19)	0.0%
15-5307-02-****	Weekend Shift Pay	-	13	(13)	0.0%
15-5401-01-****	Fringe Benefits IN to PC's & Depts.	520,060	362,806	157,254	69.8%
15-5401-02-****	Fringe Benefits IN to PC's & Depts.	79,032	67,662	11,370	85.6%
15-5700-01-****	Standby Pay	34,596	6,825	27,771	19.7%
	Total Payroll Costs	1,499,868	1,065,191	434,677	71.0%
Other Expenses					
15-5002-01-****	Electricity	270,008	145,510	124,498	53.9%
15-5003-01-****	Natural Gas	2,600	2,098	502	80.7%
15-5004-01-****	Potable & Reclaimed Water	12,404	13,013	(609)	104.9%

South Orange County Wastewater Authority
O&M Budget vs. Actual Comparison by PC
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Exhibit E-1-A

		FY 2016-17 Budget	Actual	(Over)/Under Budget	% Expended
15-5006-01-****	Chlorine/Sodium Hypochlorite	115,200	38,730	76,470	33.6%
15-5007-01-****	Polymer Products	2,000	-	2,000	0.0%
15-5008-01-****	Ferric Chloride	30,804	18,896	11,908	61.3%
15-5009-01-****	Odor Control Chemicals	82,400	57,811	24,589	70.2%
15-5011-02-****	Laboratory Services	9,700	7,182	2,518	74.0%
15-5012-01-****	Grit Hauling	28,200	15,374	12,826	54.5%
15-5013-01-****	Landscaping	50,000	67,687	(17,687)	135.4%
15-5014-01-****	Engineering - Misc.	65,000	7,196	57,804	11.1%
15-5015-01-****	Management Support Services	8,008	5,417	2,591	67.6%
15-5015-02-****	Management Support Services	4,000	-	4,000	0.0%
15-5017-01-****	Legal Fees	50,000	8,192	41,809	16.4%
15-5019-01-****	Contract Services Misc.	71,104	29,589	41,515	41.6%
15-5021-01-****	Small Vehicle Expense	5,692	4,812	880	84.5%
15-5022-01-****	Miscellaneous Expense	2,704	449	2,255	16.6%
15-5023-01-****	Office Supplies - All	6,400	3,993	2,407	62.4%
15-5024-01-****	Petroleum Products	1,700	3,968	(2,268)	233.4%
15-5025-01-****	Uniforms	5,900	5,812	88	98.5%
15-5026-01-****	Small Vehicle Fuel	5,900	782	5,118	13.3%
15-5027-01-****	Insurance - Property/Liability	5,904	33,887	(27,983)	574.0%
15-5027-02-****	Insurance - Property/Liability	7,240	-	7,240	0.0%
15-5028-01-****	Small Tools & Supplies	7,200	6,273	927	87.1%
15-5030-01-****	Trash Disposal	3,104	943	2,161	30.4%
15-5031-02-****	Safety Supplies	18,496	14,198	4,298	76.8%
15-5032-01-****	Equipment Rental	1,200	-	1,200	0.0%
15-5033-01-00-00	Recruitment	-	300	(300)	0.0%
15-5034-01-****	Travel Expense/Tech. Conferences	2,000	501	1,499	25.0%
15-5034-02-****	Travel Expense/Tech. Conferences	3,000	-	3,000	0.0%
15-5035-01-****	Training Expense	5,992	4,443	1,549	74.2%
15-5035-02-00-00	Training Expense	-	709	(709)	0.0%
15-5036-01-00-00	Laboratory Supplies	-	(2,417)	2,417	0.0%
15-5036-02-****	Laboratory Supplies	10,004	10,751	(747)	107.5%
15-5037-01-****	Office Equipment	1,000	712	288	71.2%
15-5038-01-****	Permits	6,504	-	6,504	0.0%
15-5038-02-****	Permits	6,504	2,934	3,570	45.1%
15-5039-01-****	Membership Dues/Fees	1,000	435	565	43.5%
15-5039-02-****	Membership Dues/Fees	1,000	-	1,000	0.0%
15-5047-01-****	Access Road Expenses	45,400	9,287	36,113	20.5%
15-5048-01-****	Storm Damage	18,600	5,592	13,008	30.1%
15-5049-01-****	Biosolids Disposal - 21B	125,004	-	125,004	0.0%
15-5050-01-****	Contract Services Generators	4,208	5,981	(1,773)	142.1%
15-5052-01-****	Janitorial Services	10,000	4,672	5,328	46.7%
15-5054-01-****	Diesel Truck Maint	1,004	3,356	(2,352)	334.2%
15-5056-01-00-00	Maintenance Equip. & Facilities (Solids) 41-A	-	5	(5)	0.0%
15-5057-01-****	Maintenance Equip. & Facilities (Liquids)	149,096	123,597	25,499	82.9%
15-5058-01-****	Maintenance Equip. & Facilities (Common)	16,600	29,246	(12,646)	176.2%
15-5060-01-****	Maintenance Equip. & Facilities (AWT)	26,700	38,794	(12,094)	145.3%
15-5061-01-****	Mileage	1,204	431	773	35.8%
15-5077-01-****	IT Direct	-	58,993	(58,993)	0.0%
15-5301-01-****	Vehicle Pay	-	646	(646)	0.0%
15-5303-01-00-00	Group Insurance Waiver	-	1,385	(1,385)	0.0%
15-5305-01-00-00	Medicare Tax Payments for Employees	-	3,947	(3,947)	0.0%
15-5705-01-****	Monthly Car Allowance	4,004	4,321	(317)	107.9%
15-5802-01-00-00	Shipping/Freight	-	15	(15)	0.0%
15-6500-01-****	IT Allocations in to PC's & Depts.	103,256	65,756	37,500	63.7%
15-6500-02-****	IT Allocations in to PC's & Depts.	15,592	9,958	5,634	63.9%
	Total Other Expenses	1,430,540	876,163	554,377	61.2%
15 - Coastal Treatment Plant Total Expenses		2,930,408	1,941,354	989,054	66.2%

17 - Joint Regional Reclamation

Salary and Fringe					
17-5000-01-****	Regular Salaries-O&M	1,522,376	993,778	528,598	65.3%
17-5000-02-****	Regular Salaries-O&M	236,376	182,976	53,400	77.4%
17-5001-01-****	Overtime Salaries-O&M	32,996	61,849	(28,853)	187.4%
17-5001-02-****	Overtime Salaries-O&M	2,996	1,541	1,455	51.4%
17-5306-01-****	Scheduled Holiday Work	22,004	7,265	14,739	33.0%

South Orange County Wastewater Authority
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Exhibit E-1-A

		FY 2016-17 Budget	Actual	(Over)/Under Budget	% Expended
17-5306-02-***	Scheduled Holiday Work	-	1,939	(1,939)	0.0%
17-5307-01-***	Weekend Shift Pay	-	93	(93)	0.0%
17-5307-02-***	Weekend Shift Pay	-	27	(27)	0.0%
17-5401-01-***	Fringe Benefits IN to PC's & Depts.	1,080,888	705,583	375,305	65.3%
17-5401-02-***	Fringe Benefits IN to PC's & Depts.	167,828	129,913	37,915	77.4%
17-5700-01-***	Standby Pay	51,500	23,075	28,425	44.8%
	Total Payroll Costs	3,116,964	2,108,040	1,008,924	67.6%
Other Expenses					
17-5002-01-***	Electricity	675,504	292,413	383,091	43.3%
17-5003-01-***	Natural Gas	134,200	73,197	61,003	54.5%
17-5004-01-***	Potable & Reclaimed Water	32,000	19,462	12,538	60.8%
17-5004-02-00-00	Potable & Reclaimed Water	-	168	(168)	0.0%
17-5005-01-***	Co-generation Power Credit	(450,004)	(201,611)	(248,393)	44.8%
17-5006-01-***	Chlorine/Sodium Hypochlorite	400,004	239,695	160,309	59.9%
17-5007-01-***	Polymer Products	387,004	207,417	179,587	53.6%
17-5008-01-***	Ferric Chloride	130,396	98,925	31,471	75.9%
17-5009-01-***	Odor Control Chemicals	63,604	30,957	32,647	48.7%
17-5010-01-***	Other Chemicals - Misc.	4,000	-	4,000	0.0%
17-5011-02-***	Laboratory Services	13,000	9,847	3,153	75.7%
17-5012-01-***	Grit Hauling - 21A	46,500	29,303	17,197	63.0%
17-5013-01-***	Landscaping	65,000	79,721	(14,721)	122.6%
17-5014-01-***	Engineering - Misc.	95,000	80,332	14,668	84.6%
17-5015-01-***	Management Support Services	8,000	6,766	1,234	84.6%
17-5015-02-***	Management Support Services	49,000	3,000	46,000	6.1%
17-5017-01-***	Legal Fees	4,000	1,710	2,290	42.7%
17-5019-01-***	Contract Services Misc.	122,000	64,491	57,509	52.9%
17-5021-01-***	Small Vehicle Expense	5,700	8,576	(2,876)	150.4%
17-5022-01-***	Miscellaneous Expense	5,400	1,374	4,026	25.5%
17-5023-01-***	Office Supplies - All	7,200	8,700	(1,500)	120.8%
17-5024-01-***	Petroleum Products	41,200	14,863	26,337	36.1%
17-5025-01-***	Uniforms	16,504	12,052	4,452	73.0%
17-5026-01-***	Small Vehicle Fuel	12,500	4,944	7,556	39.5%
17-5027-01-***	Insurance - Property/Liability	40,004	64,550	(24,546)	161.4%
17-5027-02-***	Insurance - Property/Liability	5,004	-	5,004	0.0%
17-5028-01-***	Small Tools & Supplies	20,604	21,412	(808)	103.9%
17-5030-01-***	Trash Disposal	904	796	108	88.0%
17-5031-02-***	Safety Supplies	36,996	21,108	15,888	57.1%
17-5032-01-***	Equipment Rental	3,004	7,317	(4,313)	243.6%
17-5033-01-00-00	Recruitment	-	407	(407)	0.0%
17-5034-01-***	Travel Expense/Tech. Conferences	9,004	1,381	7,623	15.3%
17-5034-02-***	Travel Expense/Tech. Conferences	3,004	1,080	1,924	36.0%
17-5035-01-***	Training Expense	24,004	12,108	11,896	50.4%
17-5035-02-00-00	Training Expense	-	167	(167)	0.0%
17-5036-01-00-00	Laboratory Supplies	-	21	(21)	0.0%
17-5036-02-***	Laboratory Supplies	18,504	14,865	3,639	80.3%
17-5037-01-***	Office Equipment	5,400	4,460	940	82.6%
17-5038-02-***	Permits	40,004	15,501	24,503	38.7%
17-5039-01-***	Membership Dues/Fees	3,004	2,014	990	67.0%
17-5039-02-***	Membership Dues/Fees	1,004	88	916	8.8%
17-5049-01-***	Biosolids Disposal	825,000	701,907	123,093	85.1%
17-5050-01-***	Contract Services Generators	7,200	5,981	1,219	83.1%
17-5052-01-***	Janitorial Services	20,004	7,651	12,353	38.2%
17-5054-01-***	Diesel Truck Maint	18,504	8,342	10,162	45.1%
17-5055-01-***	Diesel Truck Fuel	6,200	2,492	3,708	40.2%
17-5056-01-***	Maintenance Equip. & Facilities (Solids)	178,400	152,801	25,599	85.7%
17-5057-01-***	Maintenance Equip. & Facilities (Liquids)	149,100	127,672	21,428	85.6%
17-5058-01-***	Maintenance Equip. & Facilities (Common)	19,200	17,759	1,441	92.5%
17-5059-01-***	Maintenance Equip. & Facilities (Co-Gen)	89,500	40,665	48,835	45.4%
17-5060-01-***	Maintenance Equip. & Facilities (AWT)	30,900	16,587	14,313	53.7%
17-5061-01-***	Mileage	2,996	1,797	1,199	60.0%
17-5061-02-00-00	Mileage	-	14	(14)	0.0%
17-5068-02-***	MNWD Potable Water Supplies & Svcs.	23,996	19,418	4,578	80.9%
17-5077-01-00-00	IT Direct	-	18,293	(18,293)	0.0%
17-5101-01-00-00	Employee Recognition	-	625	(625)	0.0%
17-5105-01-***	Co-Generation Power Credit - Offset	450,004	201,611	248,393	44.8%

South Orange County Wastewater Authority
O&M Budget vs. Actual Comparison by PC
For Fiscal Year 2016-2017 as of March 31, 2017

Exhibit E-1-A

		FY 2016-17 Budget	Actual	(Over)/Under Budget	% Expended
17-5301-01-00-00	Vehicle Pay	-	877	(877)	0.0%
17-5302-01-03-00	Bonus	-	3,557	(3,557)	0.0%
17-5303-02-00-00	Group Insurance Waiver	-	1,542	(1,542)	0.0%
17-5305-01-00-00	Medicare Tax Payments for Employees	-	1,655	(1,655)	0.0%
17-5305-02-03-00	Medicare Tax Payments for Employees	-	89	(89)	0.0%
17-5309-01-****	Operating Leases	3,004	-	3,004	0.0%
17-5705-01-****	Monthly Car Allowance	10,000	6,847	3,153	68.5%
17-5705-02-00-00	Monthly Car Allowance	-	639	(639)	0.0%
17-5802-01-00-00	Shipping/Freight	-	83	(83)	0.0%
17-6500-01-****	IT Allocations in to PC's & Depts.	189,288	127,510	61,778	67.4%
17-6500-02-****	IT Allocations in to PC's & Depts.	20,564	16,606	3,958	80.8%
	Total Other Expenses	4,122,016	2,736,594	1,385,422	66.4%
17 - Joint Regional Reclamation Total Expenses		7,238,980	4,844,634	2,394,346	66.9%
21 - Effluent Transmission Main					
Other Expenses					
21-5014-01-00-00	Engineering - Misc.	-	800	(800)	0.0%
21-5014-02-****	Engineering - Misc.	85,000	-	85,000	0.0%
21-5019-02-00-00	Contract Services Misc. - 29	-	371	(371)	0.0%
21-5027-02-****	Insurance - Property/Liability	564	-	564	0.0%
21-5028-01-****	Small Tools & Supplies	920	-	920	0.0%
	Total Other Expenses	86,484	1,171	85,314	1.4%
21 - Effluent Transmission Main Total Expenses		86,484	1,171	85,314	1.4%
24 - Aliso Creek Ocean Outfall					
Salary and Fringe					
24-5000-01-****	Regular Salaries-O&M	6,456	288	6,168	4.5%
24-5000-02-****	Regular Salaries-O&M	102,016	67,471	34,545	66.1%
24-5001-02-****	Overtime Salaries-O&M	3,000	141	2,859	4.7%
24-5306-02-****	Scheduled Holiday Work	1,996	52	1,944	2.6%
24-5307-02-11-00	Weekend Shift Pay	-	0	(0)	0.0%
24-5401-01-****	Fringe Benefits IN to PC's & Depts.	4,580	204	4,376	4.5%
24-5401-02-****	Fringe Benefits IN to PC's & Depts.	72,436	47,904	24,532	66.1%
	Total Payroll Costs	190,484	116,061	74,423	60.9%
Other Expenses					
24-5002-01-****	Electricity	700	-	700	0.0%
24-5002-02-****	Electricity	700	-	700	0.0%
24-5014-01-00-00	Engineering - Misc.	-	3,394	(3,394)	0.0%
24-5015-02-****	Management Support Services	20,004	17,920	2,084	89.6%
24-5027-01-00-00	Insurance - Property/Liability	-	1,344	(1,344)	0.0%
24-5027-02-****	Insurance - Property/Liability	1,396	-	1,396	0.0%
24-5031-02-****	Safety Program & Supplies	500	5,715	(5,215)	1143.0%
24-5034-02-****	Travel Expense/Tech. Conferences	2,004	-	2,004	0.0%
24-5036-02-****	Laboratory Supplies	16,004	8,841	7,163	55.2%
24-5038-01-00-00	Permits and Fines	-	3,000	(3,000)	0.0%
24-5038-02-****	Permits	138,000	137,375	625	99.5%
24-5044-02-****	Offshore Monitoring	20,004	9,482	10,523	47.4%
24-5045-02-00-00	Offshore Biochemistry - 20B	-	11	(11)	0.0%
24-5046-02-****	Effluent Chemistry	26,004	18,606	7,399	71.5%
24-5058-01-00-00	Maintenance Equip. & Facilities (Common) 41-C	-	4,010	(4,010)	0.0%
24-5069-02-****	Misc-Capital-Dilution & Metering Study	15,000	12,664	2,337	84.4%
24-5802-01-00-00	Shipping/Freight	-	26	(26)	0.0%
24-6500-02-****	IT Allocations in to PC's & Depts.	18,776	10,746	8,030	57.2%
	Total Other Expenses	259,092	233,132	25,960	90.0%
24 - Aliso Creek Ocean Outfall Total Expenses		449,576	349,193	100,383	77.7%
SOCWA					
	Total Payroll Costs	7,533,832	5,353,171	2,180,661	71.1%
	Total Other Expenses	9,930,492	6,192,330	3,738,162	62.4%
SOCWA Total Expenses		17,464,324	11,545,501	5,918,823	66.1%

**South Orange County Wastewater Authority
Budget vs. Actual Comparison - Engineering
For the Period Ended March 31, 2017**

Exhibit E-2

		FY 2016-17 Original Budget	Actual	(Over)/Under Budget	% Expended
Salary and Fringe					
-5000--**-00	Regular Salaries-O&M	103,896	100,871	3,025	97.1%
-5401--**-00	Fringe Benefits IN to PC's & Depts.	73,764	71,618	2,146	97.1%
	Total Payroll Costs	177,660	172,489	5,171	97.1%
Other Expenses					
01-5015-03-00-00	Management Support Services	39,996	-	39,996	
01-5022-03-00-00	Miscellaneous Expense	11,400	-	11,400	
01-5033-03-00-00	Recruitment	0	265	(265)	
01-5034-03-00-00	Travel Expense/Tech. Conferences	0	682	(682)	
01-5039-03-00-00	Membership Dues/Fees	1,200	629	571	52.4%
01-5061-03-00-00	Mileage	396	-	396	
01-5301-03-00-00	Vehicle Pay	5,820	3,231	2,589	55.5%
01-5302-03-00-00	Bonus	0	7,363	(7,363)	
01-5305-03-00-00	Medicare Tax		275	(275)	
01-5309-03-00-00	Operating Leases	15,000	12,153	2,847	81.0%
01-5802-03-00-00	Shipping/Freight	300	45	255	14.9%
01-6500-03-00-00	IT Allocations in to PC's & Depts.	44,028	19,955	24,073	45.3%
	Total Other Expenses	118,140	44,598	73,542	37.7%
	Total Expenses	295,800	217,087	78,713	73.4%

South Orange County Wastewater Authority
Budget vs. Actual Comparison- Administration
For the Period Ended March 31, 2017

Exhibit E-3

		FY 2016-17 Budget	Actual	(Over)/Under Budget	% Expended
Salary and Fringe					
01-5401-04-00-00	Fringe Benefits IN to PC's & Depts.	484,884	366,078	118,807	75.5%
01-6000-04-00-00	Regular Salaries-Admin & IT	682,932	515,602	167,330	75.5%
01-6001-04-00-00	Overtime Salaries-Admin & IT	19,308	17,295	2,013	89.6%
	Total Payroll Costs	1,187,124	898,975	288,149	75.7%
Other Expenses					
01-5018-04-00-00	Public Notices/ Public Relations	15,996	-	15,996	
01-5027-04-00-00	Insurance - Property/Liability	39,720	28	39,692	0.1%
01-5037-04-00-00	Office Equipment	8,004	-	8,004	
01-6101-04-00-00	Recruitment & Employee Relations	12,000	32,313	(20,313)	269.3% (1)
01-6102-04-00-00	Subscriptions	996	816	180	81.9%
01-6200-04-00-00	Management Support Services	215,004	107,531	107,473	50.0%
01-6201-04-00-00	Audit	35,004	16,000	19,004	45.7%
01-6202-04-00-00	Legal	62,004	73,779	(11,775)	119.0% (2)
01-6203-04-00-00	Outside Services	2,004	4,098	(2,094)	204.5% (3)
01-6204-04-00-00	Postage	1,896	1,993	(97)	105.1%
01-6220-04-00-00	Board of Directors - Fees	-	-	-	
01-6223-04-00-00	Office Supplies - Admin	9,996	2,441	7,555	24.4%
01-6234-04-00-00	Memberships & Trainings	96,108	73,168	22,940	76.1%
01-6239-04-00-00	Travel & Conference	23,904	13,998	9,906	58.6%
01-6240-04-00-00	Scholarship Sponsorship	996	1,000	(4)	100.4%
01-6310-04-00-00	Miscellaneous	15,000	5,660	9,340	37.7%
01-6311-04-00-00	Mileage	708	764	(56)	108.0%
01-6313-04-00-00	Vehicle Pay Admin	12,000	9,231	2,769	76.9%
01-6314-04-00-00	Longevity Bonus Admin or IT		1,914	(1,914)	
01-6317-04-00-00	Contract Services Misc	1,800	2,831	(1,031)	157.3% (4)
01-6500-04-00-00	IT Allocations in to PC's & Depts.	122,172	54,545	67,627	44.6%
01-6601-04-00-00	Shipping/Freight	-	1,359	(1,359)	(5)
	Total Other Expenses	675,312	403,468	271,844	59.7%
	Total Expenses	1,862,436	1,302,443	559,993	69.9%

(1) Recruitment fee for new Senior Accountant

(2) Legal expenses related to Board Matters

(3) Variance due to Bank Account Analysis charges and previous Finance Director costs underbudgeted

(4) Variance due to Monthly Plant Service expense underbudgeted (\$325 per month actual vs. \$150 per month budget)

(5) Inadvertently not budgeted

**South Orange County Wastewater Authority
Budget vs. Actual Comparison-IT
For the Period Ended March 31, 2017**

		FY 2016-17 Budget	Actual	(Over)/Under Budget	% Expended
Salary & Fringe					
01-5401-05-00-00	Fringe Benefits IN to PC's & Depts.	52,572	16,486	36,086	31.4%
01-6000-05-00-00	Regular Salaries-Admin & IT	74,052	23,219	50,833	31.4% (1)
01-6001-05-00-00	Overtime Salaries-Admin & IT	2,004	118	1,886	5.9%
	Total Salary & Fringe	<u>128,628</u>	<u>39,823</u>	<u>88,805</u>	<u>31.0%</u>
Other Expenses					
01-5028-05-00-00	Small Tools & Supplies	504	-	504	
01-5037-05-00-00	Office Equipment	6,000	-	6,000	
01-5061-05-00-00	Mileage	348	-	348	
01-6101-05-00-00	Recruitment & Employee Relations, IT DEPT	-	209	(209)	
01-6102-05-00-00	Subscriptions	-	465	(465)	
01-6200-05-00-00	Management Support Services	-	55,258	(55,258)	(1)
01-6234-05-00-00	Memberships & Trainings	1,848	85	1,763	4.6%
01-6239-05-00-00	Travel & Conference	2,496	-	2,496	
01-6300-05-00-00	Software Maintenance Agreements	57,144	37,210	19,934	65.1%
01-6301-05-00-00	Hardware Maintenance Agreements	12,912	12,269	643	95.0%
01-6302-05-00-00	Cloud Subscriptions (Internet)	9,516	-	9,516	
01-6303-05-00-00	Telecommunications	109,020	93,841	15,179	86.1%
01-6305-05-00-00	IT Professional Services	241,500	108,764	132,736	45.0%
01-6306-05-00-00	Small Hardware Purchases (< \$5k)	34,896	49,539	(14,643)	142.0% (2)
01-6307-05-00-00	Small Software Purchases & Licenses (<\$5k)	48,540	10,755	37,785	22.2%
01-6309-05-00-00	Operating Leases	44,004	33,211	10,793	75.5%
01-6310-05-00-00	Miscellaneous	996	380	616	38.1%
01-6312-05-00-00	Computer & Photocopy Supplies	252	2,199	(1,947)	872.4%
01-6601-05-00-00	Shipping/Freight	252	-	252	
	Total Other Expenses	<u>570,228</u>	<u>404,184</u>	<u>166,044</u>	<u>70.9%</u>
	Total Expenses before Allocation	698,856	444,007	254,849	63.5%
IT Allocations (Out) to PC's & Depts					
01-6400-05-00-00	IT Allocations (OUT) to PC's & Depts.	(698,856)	(444,007)	(254,849)	63.5%
	Total IT Allocations (Out) to PC's & Depts	<u>(698,856)</u>	<u>(444,007)</u>	<u>(254,849)</u>	<u>63.5%</u>
		(698,856)	(444,007)	(254,849)	63.5%

(1) Employee resigned, contractor was a temporary replacement.

(2) Variance due to purchases of cables, monitors, PCs, uninterruptable power supplies, network equipment, and peripheral devices (mice, keyboards, mouse pads) underbudgeted

Agenda Item

Meeting Date: May 4, 2017

TO: Board of Directors
FROM: Betty Burnett, General Manager
STAFF CONTACT: Jim Burror, Director of Operations
SUBJECT: March 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 March, 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)	2.78	7.63	7.19	0.93	18.53
Effluent (mgd)	2.78	4.80	7.19	1.22	15.99
Peak Flow (mgd)	2.99	15.39	12.68	5.19	36.25
Influent BOD (mg/l)	260	256	243	290	
Influent TSS (mg/l)	314	315	510	389	
Effluent BOD (mg/l)	7.5	3.2	6.2	7.7	
Effluent TSS (mg/l)	10.5	6.1	10.5	11.5	
Effluent Turbidity (NTU)	4.2	3.8	5.5	4.7	

Recycled Water (AWT) Operations

Key Parameters	CTP	RTP	JBL	Totals
Average Flow (mgd)	0.52	2.82		3.35
Days of Operation (days)	31	31		
Total Flow (million gallons)	16.2	87.6		103.7
Plant Irrigation (million gallons)	0.10	0.00	0.25	
AWT Time Online (%)	98.0	91.2		

SOCWA Operational Report March, 2017 (cont'd)

Biosolids Management

Biosolids Management Site	CTP	RTP	JBL	Totals
Synagro Compost (tons)		NA	0.0	0.0
Nursery Products (tons)		221.3	NA	221.3
Prima Deshecha (tons)		371.0	224.8	595.8
Other: (tons)		0.0	0.0	0.0
Total Processed (tons)		592.3	224.8	817.2

Summary of Maintenance Activities

Task Type	CTP	RTP	JBL	Totals
Preventative Maintenance	384	925	529	1,838
Corrective Maintenance	60	360	165	585

Site Visitors

Visitor Types	CTP	RTP	JBL	Totals
Regulatory	0	0	0	0
Member Agency	6	0	0	6
Residents	0	0	0	0
Others	7	0	0	7
Tours #/Visitors	1	332	0	333

Grit Disposal Management

Grit & Screenings	CTP	RTP	JBL	Totals
Simi Valley Landfill (tons)	11.7	70.8	39.6	122.0

Chemical and Energy Utilization

Chemical/Utility	CTP	RTP	JBL	Totals
Ferric Chloride (tons)	0.1	NA	NA	0.1
Power (kWh)	219,971	592,289	527,107	1,339,367
Natural Gas (Dth)	261	NA	NA	261
Digester Gas (scfm)		0(1)	0(1)	0
Digester Gas Power Savings		\$0		

(1) The engines are off at both plants due to replacement 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 March, 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	1.663	57.87%				1.66
EBSB	0.053	1.85%				0.05
SCWD	1.157	40.28%		1.705	23.70%	2.86
MNWD	0.000	0.00%	7.63	1.356	18.85%	8.98
CSJC				2.099	29.18%	2.10
SMWD				2.034	28.27%	2.03
Total	2.874	100.00%	7.63	7.194	100.00%	17.69

Total Agency Outfall Flows by Outfall System-Billing Flows

Agency	SJCOO (mgd)	SJCOO (%)	SJCOO Meter (mgd)	ACOO (mgd)	ACOO (%)	Total (mgd)	Notes
CLB				1.66	11.55%	1.66	
EBSB				0.05	0.37%	0.05	
SCWD	1.84	13.09%		0.99	6.86%	2.83	Includes Desalters
MNWD	1.36	9.62%		4.80	33.34%	6.16	
ETWD				2.84	19.75%	2.84	Direct Outfall Only
CSJC	2.53	17.94%				2.53	Includes Desalter
SMWD	5.52	39.20%				5.52	Includes Chiquita
CSC	2.84	20.14%				2.84	Direct Outfall Only
IRWD				4.05	28.13%	4.05	Direct Outfall Only
Total	14.09	100.00%	14.62	14.40	100.00%	28.49	

SOCWA Operational Report March, 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%	2.099	29.18%	2.06	29.37%
MNWD	3.00	23.08%	1.40	16.69%	1.356	18.85%	1.42	20.20%
SCWD	3.75	28.85%	2.00	23.84%	1.705	23.70%	1.71	24.31%
SMWD	2.25	17.31%	1.80	21.45%	2.034	28.27%	1.83	26.12%
Total	13.00	100.00%	8.39	100.00%	7.194	100.00%	7.02	100.00%

Project Committee No. 2 Solids (JBL)

Agency	Own (lbs/d)	Own (%)	Budget (lbs/d)	Budget (%)	Month (lbs/d)	Month (%)	FY Avg to Date (lbs/d)	FY Avg to Date (%)
CSJC	11,572	30.00%	8,620	33.30%	5,439	22.18%	5,290	22.07%
MNWD	8,340	21.62%	5,270	20.36%	5,699	23.24%	5,918	24.68%
SCWD	7,715	20.00%	5,304	20.49%	4,835	19.72%	5,112	21.32%
SMWD	10,946	28.38%	6,695	25.86%	8,549	34.86%	7,655	31.93%
Total	38,573	100.00%	25,889	100.00%	24,522	100.00%	23,975	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%	2.84	20.14%		
CSJC	11.08%	3.83	21.87%	2.53	17.94%	2.10	29.18%
MNWD	15.51%	2.42	13.82%	1.36	9.62%	1.36	18.85%
SCWD	12.47%	2.67	15.25%	1.84	13.09%	1.71	23.70%
SMWD	44.32%	5.59	31.92%	5.52	39.20%	2.03	28.27%
Total	100.00%	17.51	100.00%	14.09	100.00%	7.19	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 March, 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	2.408	21.11%		
CSJC	2.214	19.41%	2.06	29.37%
MNWD	1.418	12.43%	1.42	20.20%
SCWD	1.734	15.20%	1.71	24.31%
SMWD	3.633	31.85%	1.83	26.12%
Total	11.408	100.00%	7.02	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%	1.663	57.87%	1.705	58.33%
EBSD	0.20	2.99%	0.061	1.89%	0.053	1.85%	0.052	1.77%
SCWD	2.00	29.85%	1.213	37.51%	1.157	40.28%	1.166	39.90%
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%	2.874	100.00%	2.922	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	0.0115	0.0115	0.15%	0.0119	0.15%
EBSD	0.00044	0.005%	0.0000	0.0004	0.0004	0.00%	0.0004	0.00%
SCWD	0.00871	0.103%	0.0000	0.0080	0.0080	0.10%	0.0081	0.10%
ETWD	0.01719	0.204%	0.0000	0.0158	0.0158	0.20%	0.0141	0.18%
MNWD	8.40541	99.521%	7.6252	0.0578	7.6830	99.54%	7.8837	99.56%
Total	8.44583	100.000%	7.6252	0.0934	7.7186	100.00%	7.9181	100.00%

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

SOCWA Operational Report March, 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%	147,665	12.30%	148,403	12.50%
EBS	295	0.59%	147	0.40%	4,718	0.39%	4,534	0.38%
SCWD	4,480	8.96%	2,926	8.02%	102,781	8.56%	101,187	8.52%
ETWD	10,200	20.41%	5,903	16.17%	202,720	16.89%	177,436	14.94%
MNWD	29,395	58.82%	22,801	62.46%	742,401	61.85%	755,730	63.65%
Total	49,975	100.00%	36,505	100.00%	1,200,286	100.00%	1,187,290	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%	1.663	11.55%	1.705	15.08%
EBS	0.780%	0.06	0.54%	0.053	0.37%	0.052	0.46%
ETWD	16.302%	2.89	25.83%	2.845	19.75%	2.665	23.58%
IRWD	15.760%	2.62	23.41%	4.052	28.13%	2.594	22.95%
MNWD	43.848%	2.96	26.45%	4.801	33.34%	3.464	30.65%
SCWD	12.310%	1.17	10.46%	0.988	6.86%	0.822	7.27%
Total	100.000%	11.19	100.00%	14.401	0.00%	11.302	100.00%

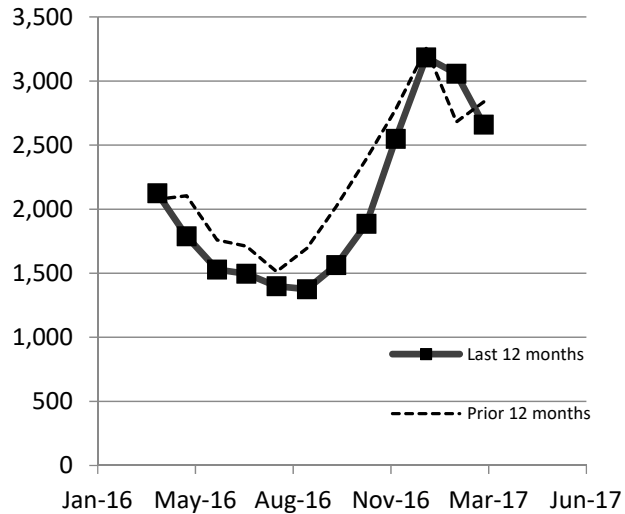
SOCWA Ocean Outfall Discharges by Agency

SOCWA Outfall Discharge Report March, 2017

Agency	SJCOO (mgd)	SJCOO (%)	ACOO (mgd)	ACOO (%)	Total (mgd)
CLB			1.66	11.55%	1.66
EBSD			0.05	0.37%	0.05
SCWD	1.84	13.09%	0.99	6.86%	2.83
MNWD	1.36	9.62%	4.80	33.34%	6.16
ETWD			2.84	19.75%	2.84
CSJC	2.53	17.94%			2.53
SMWD	5.52	39.20%			5.52
CSC	2.84	20.14%			2.84
IRWD			4.05	28.13%	4.05
Total	14.09	100.00%	14.40	100.00%	28.49
or Acre-Feet per year equivalent					31,911

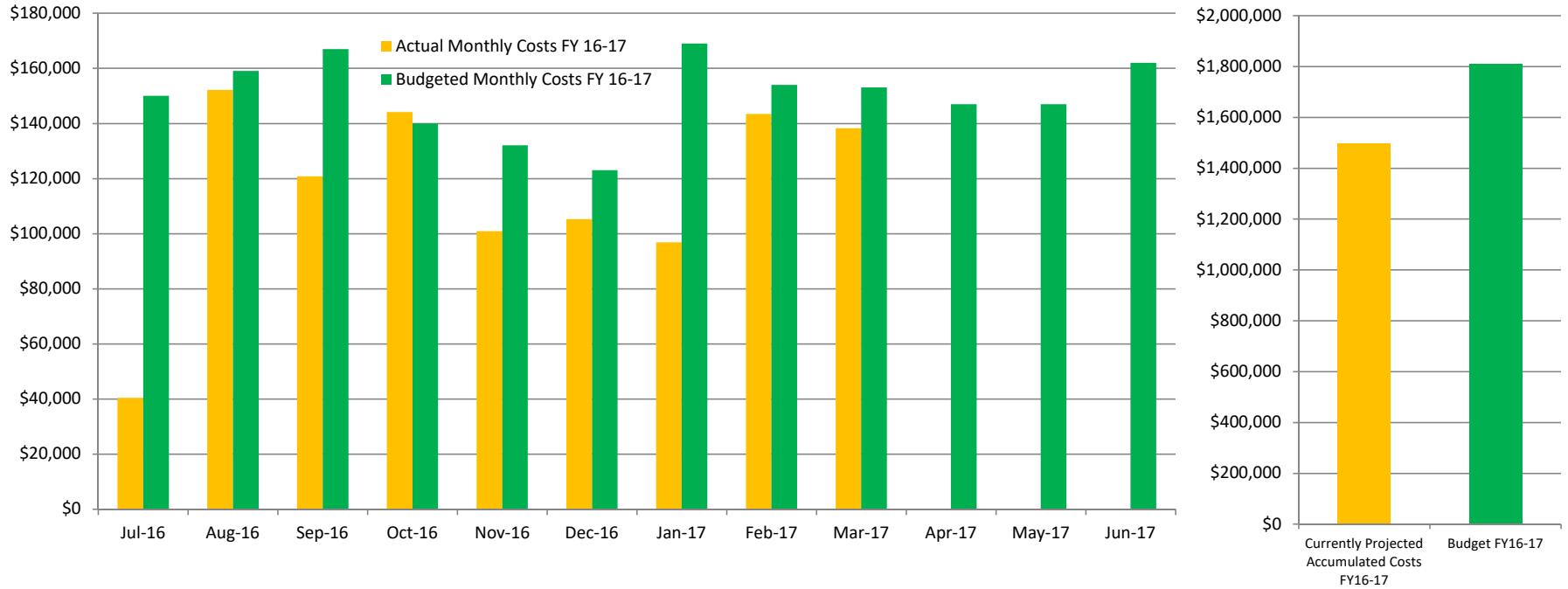
12-Month Running Total Discharge to Ocean Outfalls (AF)

Mar-17	2,659
Feb-17	3,057
Jan-17	3,184
Dec-16	2,549
Nov-16	1,886
Oct-16	1,564
Sep-16	1,376
Aug-16	1,399
Jul-16	1,496
Jun-16	1,528
May-16	1,788
Apr-16	2,125
Total	24,612



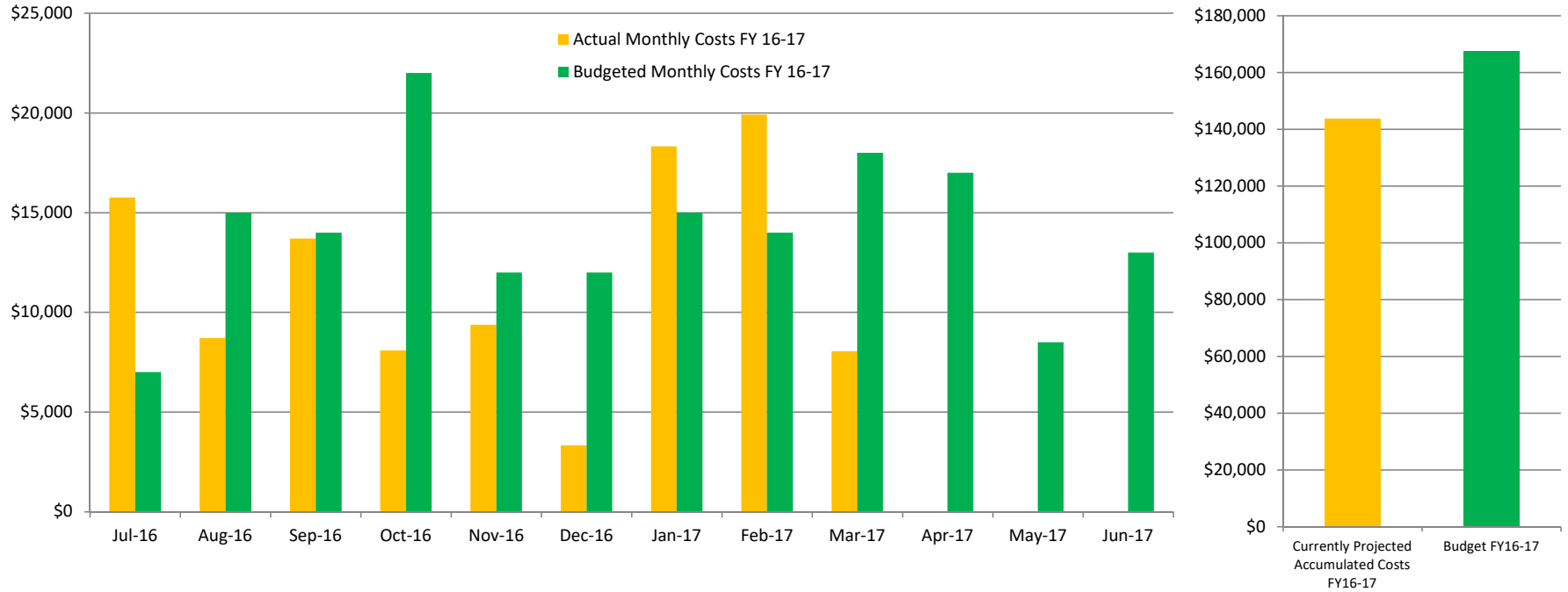
Quarterly Report on Key Operational Expenses

Electricity (5010) Costs



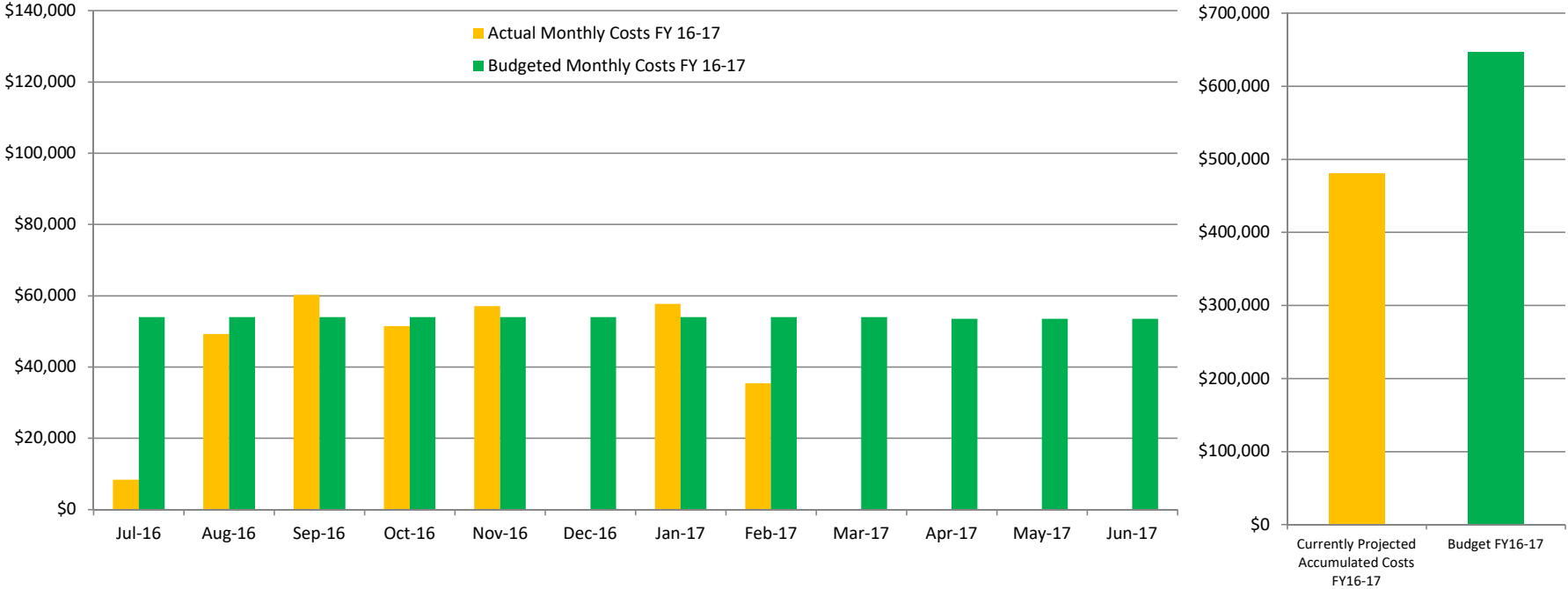
	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Currently Projected Accumulated Costs FY16-17	Budget FY16-17
Actual Monthly Costs FY 16-17	\$40,340	\$152,113	\$120,761	\$144,068	\$100,886	\$105,222	\$96,839	\$143,443	\$138,271				\$1,497,943	\$1,809,000
Budgeted Monthly Costs FY 16-17	\$150,000	\$159,000	\$167,000	\$140,000	\$132,000	\$123,000	\$169,000	\$154,000	\$153,000	\$147,000	\$147,000	\$162,000	Currently Projected Under(+)/Over (-) Budget	\$311,057

Odor Control (5018) Costs



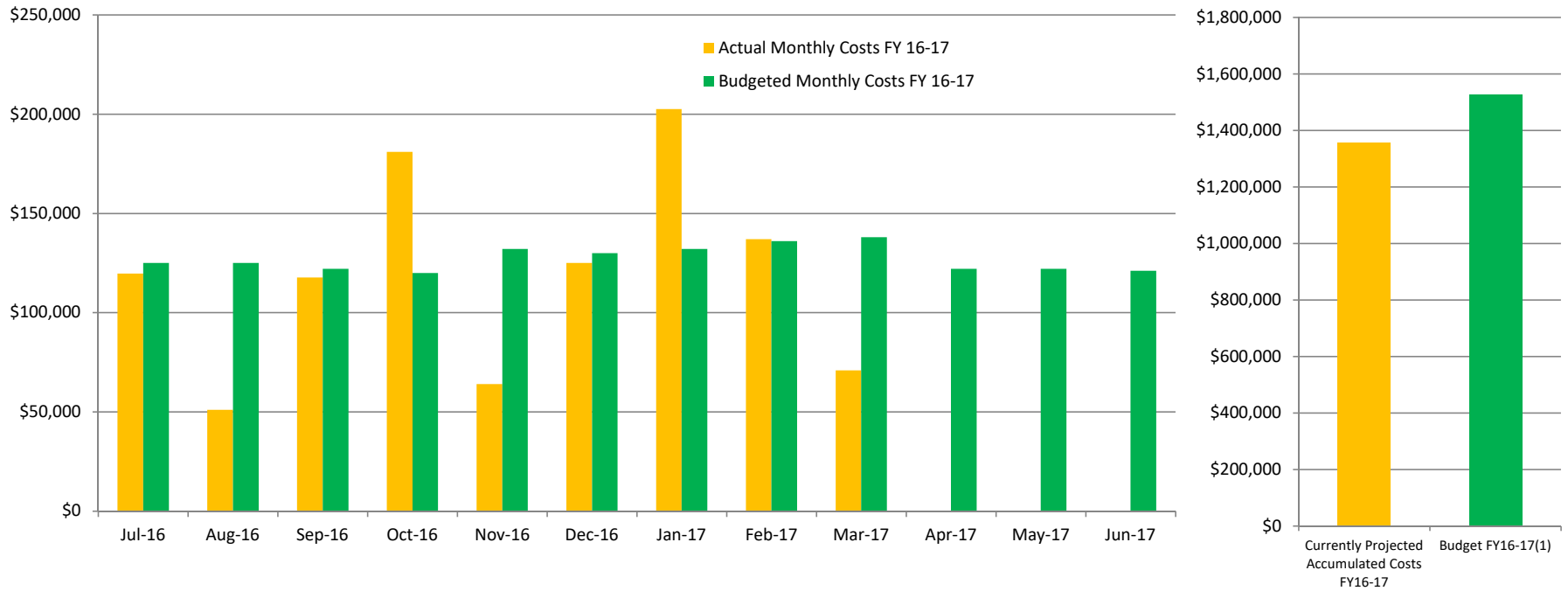
	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Currently Projected Accumulated Costs FY16-17	Budget FY16-17
Actual Monthly Costs FY 16-17	\$15,760	\$8,714	\$13,705	\$8,094	\$9,373	\$3,318	\$18,317	\$19,920	\$8,039				\$143,739	\$167,500
Budgeted Monthly Costs FY 16-17	\$7,000	\$15,000	\$14,000	\$22,000	\$12,000	\$12,000	\$15,000	\$14,000	\$18,000	\$17,000	\$8,500	\$13,000	Currently Projected Under(+)/Over (-) Budget	\$23,761

Polymer (5016) Costs



	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Currently Projected Accumulated Costs FY16-17	Budget FY16-17
Actual Monthly Costs FY 16-17	\$8,355	\$49,238	\$60,196	\$51,464	\$57,048	\$0	\$57,727	\$35,390	\$0				\$479,918	\$646,500
Budgeted Monthly Costs FY 16-17	\$54,000	\$54,000	\$54,000	\$54,000	\$54,000	\$54,000	\$54,000	\$54,000	\$54,000	\$53,500	\$53,500	\$53,500	Currently Projected Under(+)/Over (-) Budget	\$166,582

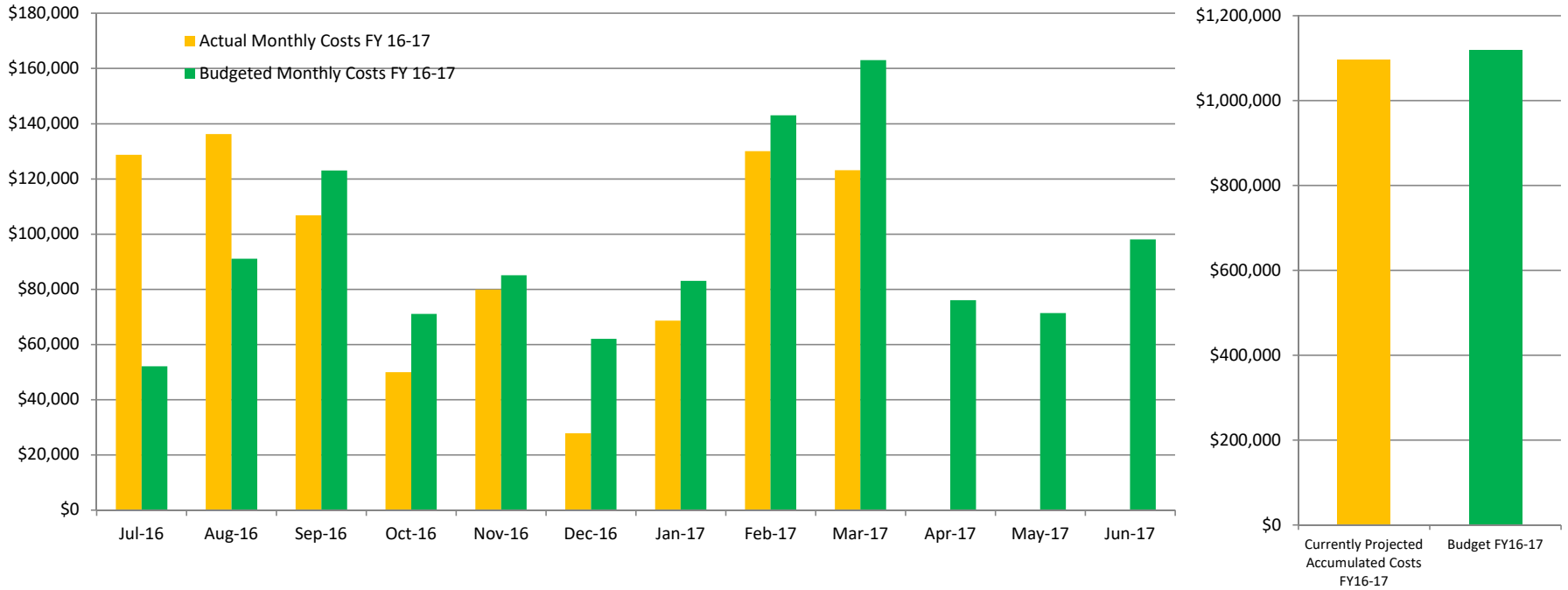
Biosolids (5078/21-B) Costs



	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Currently Projected Accumulated Costs FY16-17	Budget FY16-17(1)
Actual Monthly Costs FY 16-17	\$119,597	\$51,045	\$117,734	\$180,960	\$64,006	\$125,020	\$202,614	\$137,021	\$70,906				\$1,355,690	\$1,525,000
Budgeted Monthly Costs FY 16-17	\$125,000	\$125,000	\$122,000	\$120,000	\$132,000	\$130,000	\$132,000	\$136,000	\$138,000	\$122,000	\$122,000	\$121,000	Currently Projected Under(+)/Over (-) Budget	\$169,310

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

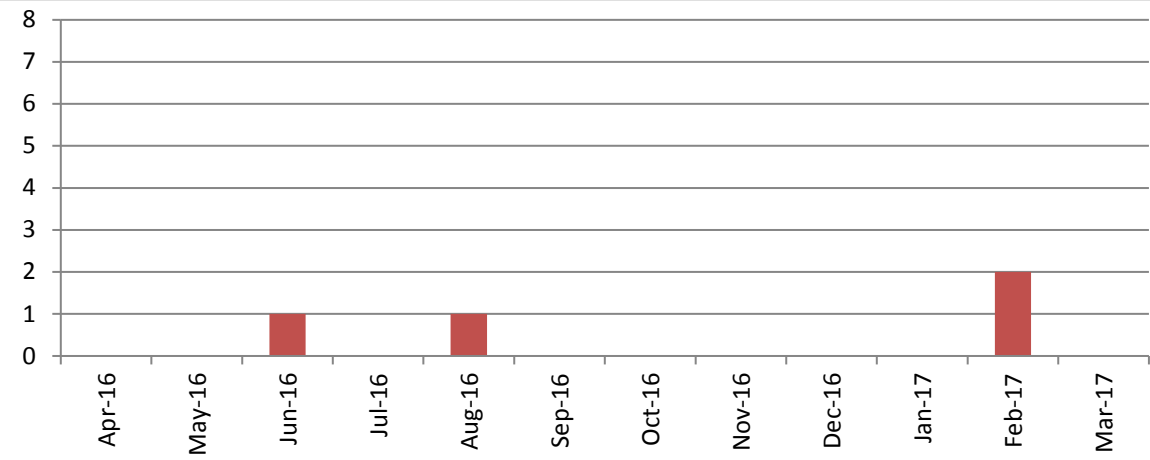
Maintenance Repair (5041 & 5086 to 5089) Costs



	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Currently Projected Accumulated Costs FY16-17	Budget FY16-17
Actual Monthly Costs FY 16-17	\$128,647	\$136,187	\$106,761	\$49,872	\$79,854	\$27,751	\$68,580	\$130,009	\$123,148				\$1,096,110	\$1,118,300
Budgeted Monthly Costs FY 16-17	\$52,000	\$91,000	\$123,000	\$71,000	\$85,000	\$62,000	\$83,000	\$143,000	\$163,000	\$76,000	\$71,300	\$98,000	Currently Projected Under(+)/Over (-) Budget	\$22,190

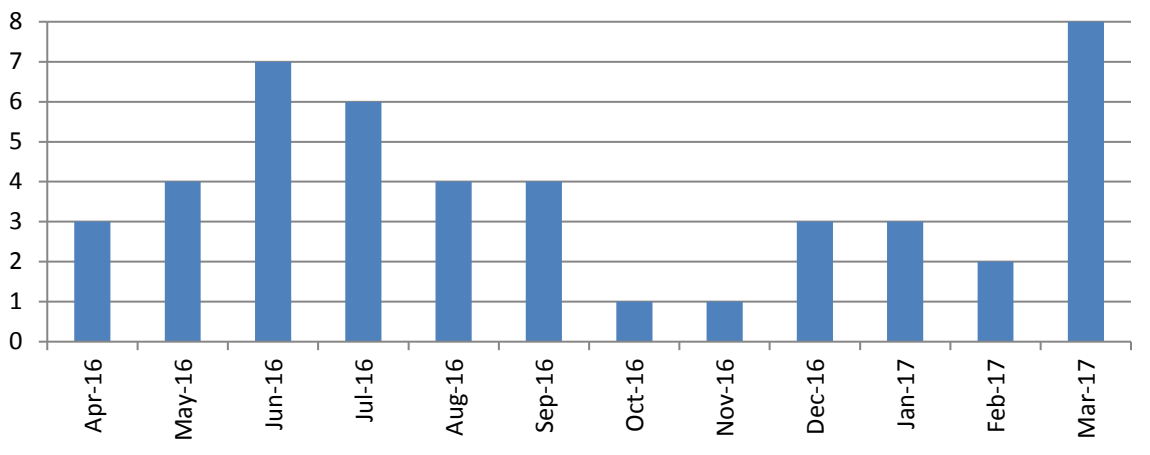
SAFETY UPDATE - APRIL 10, 2017

OSHA RECORDABLE INJURIES



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

NEAR MISS REPORTS



	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17
NEAR MISS REPORTS	3	4	7	6	4	4	1	1	3	3	2	8

SAFETY TRAINING

TRAINING TOPIC	ATTENDANCE
March 2017 - Authorized User Fall Protection Training and 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%
August 2016 - Additional Confined Space Rescue Training (3-days)	100%
June 2016 - Annual Heat Illness Training	100%
May 2016 - Annual Fire Extinguisher Training and Entry Level NIMS/ICS Training	100%
April 2016 - Annual 8-Hour HAZWOPER Refresher	100%
March 2016 - First Aid/CPR/AED Certification	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 - Water and Power Resiliency Workshop	100%
July 2015 - Initiate additional NIMS/ICS Training (Online and classroom-based)	Ongoing
June 2015 - Initial Confined Space Awareness and Non-Entry Rescue Training	100%
March 2015 - Initiate Target Solutions Online Training	Ongoing training includes topics not covered during classroom-based safety training

Beach / Ocean Monitoring Report

ALISO CREEK OCEAN OUTFALL MONITORING REPORT

March 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	MGD	inches
03/01/17	3.310	19.0	5.3	0.1	3.792	13.8	6.3	<0.1	6.240	3.7	3.0	0.2	3.190	6.1	4.0	0.1	0.351	0.297	0.006	17.186	
03/02/17	3.309	26.0	5.6	<0.1	4.019	12.0	5.2	<0.1	5.950	6.4	4.0	0.1	3.113	10.0	6.0	0.1	0.426	0.358	0.005	17.180	
03/03/17	3.286	24.0	6.5	0.1	3.871	13.8	7.7	<0.1	5.880	10.9	3.0	0.1	3.091	13.8	6.0	<0.1	0.426	0.360	0.005	16.919	
03/04/17	2.861	11.0			3.466	12.6	2.2	<0.1	5.750				3.076				0.426	0.409	0.001	15.989	
03/05/17	3.443	20.0	7.4		3.856	13.0	2.5	<0.1	5.940	4.4	3.0	0.2	3.118	12.5	13.0		0.427	0.411	0.002	17.197	0.05
03/06/17	3.228	25.0	7.4	<0.1	3.801	15.4	3.9	<0.1	6.600	6.0	4.0	0.1	3.110	11.6	10.0	0.1	0.426	0.410	0.006	17.581	0.01
03/07/17	3.690	25.0	6.2	<0.1	2.918	15.6	5.3	<0.1	6.100	6.9	3.0	0.1	3.088	10.1	8.0	0.1	0.403	0.409	0.009	16.617	
03/08/17	2.707	24.0	6.6	<0.1	3.641	17.0	8.3	<0.1	3.860	8.1	3.0	0.1	3.077	6.7	11.0	0.1	0.430	0.410	0.006	14.131	
03/09/17	4.052	19.0	4.5	<0.1	2.734	15.2	7.2	<0.1	4.950	6.1	3.0	0.2	3.057	17.4	9.0	0.1	0.430	0.410	0.089	15.722	
03/10/17	3.467	18.0	6.0	0.1	3.511	12.0	5.2	<0.1	7.350	5.5	3.0	0.1	2.520	9.5	7.0	0.1	0.429	0.409	0.107	17.793	
03/11/17	3.975	14.0		<0.1	2.032	11.8	5.6	<0.1	2.790				2.509				0.430	0.410	0.098	12.244	
03/12/17	2.896	20.0	4.4	<0.1	2.574	11.8	4.1	<0.1	3.090	8.2	3.0	0.1	3.038	15.2	10.0		0.411	0.392	0.098	12.499	
03/13/17	2.892	21.0	4.9	<0.1	2.743	10.4	2.6	<0.1	6.760	6.5	3.0	0.1	3.038	9.6	7.0	<0.1	0.429	0.409	0.092	16.363	
03/14/17	2.907	20.0	5.5	<0.1	3.157	17.8	3.3	<0.1	4.910	5.4	3.0	<0.1	2.589	5.8	5.0	<0.1	0.430	0.409	0.112	14.514	0.01
03/15/17	3.176	17.0	4.9	0.1	2.073	11.6	5.8	<0.1	4.080	8.8	5.0	0.1	2.633	6.5	5.0	0.1	0.429	0.409	0.093	12.893	
03/16/17	3.328	12.0	4.3	<0.1	1.682	13.6	5.7	<0.1	3.550	4.8	2.0	0.1	2.626	14.2	7.0	<0.1	0.429	0.364	0.110	12.089	
03/17/17	3.311	14.0	4.8	<0.1	2.213	8.4	6.0	<0.1	4.630	10.5	3.0	0.1	2.701	12.6	7.0	<0.1	0.429	0.392	0.099	13.775	0.01
03/18/17	2.917	17.0		0.1	2.785	10.0	6.2	<0.1	4.550				2.137				0.430	0.408	0.103	13.330	
03/19/17	3.197	16.0	4.5	<0.1	2.914	11.8	6.1	<0.1	4.760	7.0	3.0	<0.1	2.743	17.0	11.0		0.429	0.409	0.003	14.455	
03/20/17	3.159	10.0	6.4	<0.1	2.860	11.8	5.4	<0.1	5.050	5.7	3.0	0.1	3.179	17.8	11.0	<0.1	0.429	0.409	0.098	15.184	
03/21/17	3.512	18.0	5.0	<0.1	2.696	18.4	4.6	<0.1	4.990	5.9	4.0	0.2	2.025	12.2	9.0	0.1	0.430	0.408	0.105	14.166	
03/22/17	3.122	15.0	5.9	<0.1	2.966	15.2	7.5	<0.1	5.960	4.6	2.0	0.1	1.840	8.1	4.0	0.1	0.429	0.409	0.095	14.821	0.05
03/23/17	3.177	16.0	6.1	<0.1	2.996	14.2	5.5	<0.1	5.090	3.7	3.0	0.1	2.398	11.6	6.0	0.1	0.430	0.409	0.107	14.607	
03/24/17	3.008	16.0	8.1	<0.1	2.565	14.8	6.0	<0.1	4.130	3.8	2.0	0.2	3.063	8.3	4.0	0.1	0.366	0.409	0.093	13.634	
03/25/17	3.109	15.0		<0.1	2.302	5.8	5.5	<0.1	5.000				2.535				0.429	0.408	0.097	13.880	
03/26/17	3.035	14.0	6.1	<0.1	2.269	18.0	4.9	<0.1	4.530	4.8	4.0	<0.1	2.313	11.2	9.0		0.429	0.409	0.107	13.092	0.01
03/27/17	3.038	21.0	7.5	<0.1	2.614	12.8	5.2	<0.1	4.750	6.1	4.6	<0.1	2.422	8.6	10.0	0.2	0.430	0.408	0.104	13.766	
03/28/17	3.423	18.0	5.5	0.1	2.504	11.6	3.9	<0.1	3.330	4.9	2.0	0.1	2.941	8.9	6.0	0.1	0.430	0.400	0.101	13.129	
03/29/17	3.191	17.0	6.4	<0.1	2.444	17.0	10.5	<0.1	3.070	4.1	4.0	0.2	2.050	5.8	5.0	0.1	0.429	0.409	0.101	11.694	
03/30/17	3.190	15.0	4.3	<0.1	2.332	17.4	8.8	<0.1	2.480	6.1	4.0	0.1	2.142	5.6	6.0	<0.1	0.430	0.407	0.098	11.079	
03/31/17	3.193	15.0	5.1	<0.1	1.857	24.4	7.1	<0.1	2.710	5.9	2.0	0.2	2.465	6.6	6.0	0.1	0.430	0.408	0.103	11.166	
AVG	3.229	17.8	5.7	<0.1	2.845	13.8	5.6	<0.1	4.801	6.1	3.2	<0.1	2.704	10.5	7.5	<0.1	0.423	0.399	0.073	14.474	
TOTAL	100.11				88.19				148.83				83.83				13.11	12.38	2.253	448.70	0.14

Unified Beach Monitoring

#1

South Orange County Wastewater Authority-Aliso Creek Ocean Outfall

REPORT FOR: March 2017
 REPORT DUE: May 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 1028

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							
S3	03/01/17	800	20	<20	3	None	None	None	None	Green	59	Clear		
S4	03/01/17	1035	<20	<20	<3	None	None	None	None	Green		Clear		
S5	03/01/17	1015	<20	<20	<3	None	None	None	None	Green		Clear		
S6	03/01/17	1000	<20	<20	<3	None	None	None	None	Green		Clear		
WEST	03/01/17	955	<20	<20	3	None	None	None	None	Green		Clear		
S7	03/01/17	950	20	<20	<3	None	None	None	None	Green		Clear		
S8	03/01/17	945	<20	<20	<3	None	None	None	None	Blue		Clear		
S9	03/01/17	930	20	<20	3	None	None	None	None	Green		Slightly Turbid		
ACM1	03/01/17	900	1,900	1,100	130	None	None	None	None	Green		Slightly Turbid	Flowing	100
S10	03/01/17	840	20	20	3	None	None	None	None	Green		Clear		
S11	03/01/17	830	20	30	3	None	None	None	None	Green		Clear		
S12	03/01/17	810	<20	<20	<3	None	None	None	None	Green	58	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: March 2017
 REPORT DUE: May 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 1158

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							
S3	03/07/17	1115	<20	9	<3	None	None	None	None	Green		Clear		
S4	03/07/17	1100	<20	<20	<3	None	None	None	None	Green		Clear		
S5	03/07/17	1050	<20	<20	<3	None	None	None	None	Green		Clear		
S6	03/07/17	1028	<20	<20	<3	None	None	None	None	Green	59	Clear		
WEST	03/07/17	1022	<20	<20	<3	None	None	None	None	Green		Clear		
S7	03/07/17	1015	<20	<20	<3	None	None	None	None	Green		Clear		
S8	03/07/17	948	<20	<20	<3	None	None	None	None	Green		Clear		
S9	03/07/17	940	<20	<20	<10	None	None	None	None	Green		Clear		
ACM1	03/07/17	930	200	80	5	None	None	None	None	Green		Clear	Flowing	
S10	03/07/17	905	<20	<20	<3	None	None	None	None	Green	58	Clear		
S11	03/07/17	855	<20	9	<3	None	None	None	None	Green		Clear		
S12	03/07/17	845	<20	<20	<3	None	None	None	None	Green	57	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: March 2017
 REPORT DUE: May 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 0606

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	03/16/17	750	<20	<20	<3	None	None	None	None	Green	59	Clear		
S4	03/16/17	1020	<20	20	<3	None	None	None	None	Green		Clear		
S5	03/16/17	955	<20	<20	2	None	None	None	None	Green		Clear		
S6	03/16/17	940	2	<20	<3	None	None	None	None	Green		Clear		
WEST	03/16/17	935	<20	<20	<3	None	None	None	None	Green		Clear		
S7	03/16/17	930	<20	<20	2	None	None	None	None	Green		Clear		
S8	03/16/17	925	<20	<20	<3	None	None	None	None	Blue		Clear		
S9	03/16/17	915	<20	<20	<3	None	None	None	None	Green		Slightly Turbid		
ACM1	03/16/17	835	>=140	80	25	None	None	None	None	Brown		Slightly Turbid	Flowing	100
S10	03/16/17	825	<20	<20	<3	None	None	None	None	Green		Clear		
S11	03/16/17	820	20	<20	2	None	None	None	None	Green		Clear		
S12	03/16/17	855	9	5	<3	None	None	None	None	Green	60	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: March 2017
 REPORT DUE: May 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 1115

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	03/20/17	1135	<20	<20	<3	None	None	None	None	Green		Slightly Turbid		
S4	03/20/17	1115	<20	<20	<3	None	None	None	None	Green		Slightly Turbid		
S5	03/20/17	1100	<20	<20	<3	None	None	None	None	Green	62	Slightly Turbid		
S6	03/20/17	1325	<20	<20	<3	None	None	None	None	Green		Slightly Turbid		
WEST	03/20/17	1320	<20	<20	<3	None	None	None	None	Green		Clear		
S7	03/20/17	1315	<20	<20	<3	None	None	None	None	Green	64	Clear		
S8	03/20/17	1310	<20	<20	<3	None	None	None	None	Blue		Clear		
S9	03/20/17	1215	9	9	<3	None	None	None	None	Green	64	Slightly Turbid	Flowing	
ACM1	03/20/17	1222	>=50	40	2	None	None	None	None	Green		Slightly Turbid	Flowing	
S10	03/20/17	1230	<20	<20	2	None	None	None	None	Green		Clear		
S11	03/20/17	1235	<20	9	<3	None	None	None	None	Green		Slightly Turbid		
S12	03/20/17	1245	<20	<20	<3	None	None	None	None	Blue	64	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: March 2017
 REPORT DUE: May 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 1128

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	03/30/17	745	20	9	2	None	None	None	None	Green	62	Clear		
S4	03/30/17	1035	<20	<20	2	None	None	None	None	Green		Clear		
S5	03/30/17	1015	9	<20	<3	None	None	None	None	Green		Clear		
S6	03/30/17	955	<20	<20	<3	None	None	None	None	Green		Clear		
WEST	03/30/17	950	9	<20	<3	None	None	None	None	Green		Clear		
S7	03/30/17	945	<20	<20	2	None	None	None	None	Green		Clear		
S8	03/30/17	935	<20	<20	<3	None	None	None	None	Blue		Clear		
S9	03/30/17	905	<20	<20	<3	None	None	None	None	Green		Slightly Turbid		
ACM1	03/30/17	855	9	<20	<3	None	None	None	None	Green		Slightly Turbid		
S10	03/30/17	835	<20	<20	<3	None	None	None	None	Green		Clear		
S11	03/30/17	830	<20	<20	2	None	None	None	None	Green		Clear		
S12	03/30/17	825	<20	9	2	None	None	None	None	Green	62	Clear		

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

Aliso Creek Ocean Outfall

Unified Beach Water Quality Monitoring Stations

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

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

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



MONITORING REPORT

Off Shore Stations

South Orange County Wastewater Authority

DISCHARGE: Aliso Creek Ocean Outfall

REPORT FOR: March 2017

REPORT DUE: May 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 1120

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	03/02/17	<2	<2	<2	758	0	0	
A-1	Mid depth	03/02/17	<10	<10	<10				
A-2	Surface	03/02/17	<2	<2	<2	745	0	0	
A-2	Mid depth	03/02/17	<10	<10	<10				
A-3	Surface	03/02/17	<2	<2	<2	750	0	0	
A-3	Mid depth	03/02/17	<10	<10	<10				
A-4	Surface	03/02/17	2	6	<2	803	0	0	
A-4	Mid depth	03/02/17	<10	<10	<10				
A-5	Surface	03/02/17	<2	<2	<2	754	0	0	
A-5	Mid depth	03/02/17	<10	<10	<10				
B-1	Surface	03/02/17	<2	<2	<2	736	0	0	
B-1	Mid depth	03/02/17	<10	<10	<10				
B-2	Surface	03/02/17	<2	<2	<2	809	0	0	
B-2	Mid depth	03/02/17	<10	<10	<10				
N1	Surface	03/02/17	<2	<2	<2	825	0	0	
N2	Surface	03/02/17	<2	<2	<2	822	0	0	
N3	Surface	03/02/17	4	2	<2	820	0	0	
N4	Surface	03/02/17	4	<2	<2	818	0	0	
N5	Surface	03/02/17	12	4	<2	816	0	0	
N6	Surface	03/02/17	12	4	<2	814	0	0	
N7	Surface	03/02/17	2	<2	2	812	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

SAN JUAN CREEK OCEAN OUTFALL MONITORING REPORT

March 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
03/01/17	6.880	11.2	6.2	0.2	3.270	9.2	7.0	<0.1	4.690	9.2	6.8	0.1	1.636	4.4	5.0	0.3	No Flow	No Flow	17.480	
03/02/17	6.570	12.4	7.8	0.1	2.478	8.2	6.0	<0.1	4.390	14.4	8.0	0.1	1.587	4.8	6.0	0.2	0.245	0.149	16.590	
03/03/17	6.770	15.4	6.0	0.1	2.850	10.2	8.0	<0.1	4.440	8.8	5.8	0.1	1.671	3.2	6.0	<0.1	0.497	0.168	17.520	
03/04/17	6.580				2.720				4.130				1.623				0.497	0.168	17.000	
03/05/17	6.730	11.2	6.0		2.886				4.600				1.676				0.495	0.168	17.720	0.05
03/06/17	6.950	14.0	8.8	0.1	3.120	9.7	8.0	<0.1	4.940	29.6	13.4	<0.1	1.710	4.0	11.0	<0.1	0.496	0.168	18.350	0.01
03/07/17	6.810	9.6	5.3	0.1	3.426	11.9	8.0	<0.1	3.560	12.0	11.0	0.3	1.698	4.8	10.0	0.1	0.523	0.168	15.990	
03/08/17	6.710	6.3	4.4	0.1	3.550	10.6	8.0	<0.1	6.130	7.2	6.2	0.8	1.689	6.8	5.0	<0.1	0.533	0.168	18.150	
03/09/17	6.830	11.3	7.6	0.1	3.558	9.4	8.0	<0.1	5.460	21.6	9.7	0.2	1.472	3.6	6.0	0.1	0.535	0.168	17.090	
03/10/17	6.890	9.7	6.6	0.1	3.154	8.4	6.0	<0.1	5.290	6.0	5.6	0.1	1.645	2.4	6.0	<0.1	0.153	0.168	16.960	
03/11/17	6.380				3.045				2.090				1.588				0.369	0.168	13.200	
03/12/17	6.880	12.5	5.8		3.348				4.420				1.588				0.516	0.168	17.560	
03/13/17	5.740	13.3	8.0	0.1	3.101	11.5	9.0	<0.1	4.970	10.0	11.6	0.2	1.591	3.6	10.0	<0.1	0.534	0.168	13.640	
03/14/17	6.780	11.4	7.7	0.1	3.475	13.2	9.0	<0.1	4.230	6.0	14.0	0.3	1.517	2.4	9.0	<0.1	0.540	0.014	17.290	0.01
03/15/17	6.820	10.6	7.5	<0.1	2.990	15.8	11.0	0.2	2.480	5.6	5.6	0.1	0.037	2.4	3.0	<0.1	0.158	No Flow	12.570	
03/16/17	6.400	9.2	6.4	0.1	2.482	30.0	22.0	0.2	0.840	10.0	10.0	<0.1	0.041	6.4	4.0	<0.1	0.240	0.149	9.630	
03/17/17	6.400	13.8	6.2	0.1	2.284	16.0	12.0	0.2	0.850	8.0	8.0	0.1	0.030	2.8	4.0	<0.1	0.504	0.168	10.260	0.01
03/18/17	6.390				2.418				1.600				0.008				0.522	0.168	10.950	
03/19/17	6.760	8.4	4.4		2.630				3.870				0.008				0.537	0.168	14.200	
03/20/17	6.820	9.0	5.2	<0.1	2.979	10.7	8.0	<0.1	3.280	22.8	13.5	0.2	0.022	2.8	12.0	<0.1	0.537	0.168	13.270	
03/21/17	6.610	12.2	6.3	0.1	3.116	8.5	6.0	<0.1	2.690	10.4	12.0	0.2	0.033	3.2	11.0	<0.1	0.539	0.168	13.020	
03/22/17	6.380	7.9	5.5	0.1	2.745	8.6	6.0	<0.1	3.510	8.4	4.6	0.1	0.198	4.4	4.0	<0.1	0.534	0.168	14.070	0.05
03/23/17	6.340	10.1	5.2	0.2	3.073	10.3	8.0	0.1	4.250	4.8	4.5	<0.1	0.050	2.8	4.0	<0.1	0.348	0.168	14.220	
03/24/17	6.500	6.3	5.5	0.1	2.731	9.2	7.0	<0.1	3.870	7.2	4.0	0.1	0.020	8.0	6.0	<0.1	0.421	0.168	14.390	
03/25/17	6.510				2.646				3.120				1.180				0.510	0.168	13.680	
03/26/17	6.530	6.9	5.2		3.012				3.350				1.530				0.528	0.168	15.550	0.01
03/27/17	6.760	12.0	8.4	<0.1	3.554	11.8	9.0	<0.1	4.590	16.0	12.2	<0.1	1.610	6.4	8.0	<0.1	0.529	0.168	17.550	
03/28/17	6.560	9.6	6.2	0.1	1.525	9.9	7.0	<0.1	3.390	12.8	13.4	<0.1	0.136	5.6	12.0	<0.1	0.518	0.014	14.200	
03/29/17	6.510	9.6	8.3	0.2	2.200	8.5	6.0	<0.1	1.710	15.2	11.6	0.1	0.033	9.2	8.0	<0.1	0.241	No Flow	10.780	
03/30/17	6.740	13.1	7.8	<0.1	2.169	10.8	8.0	<0.1	0.790	13.6	12.6	<0.1	0.006	8.8	8.0	<0.1	0.175	0.149	9.860	
03/31/17	6.480	10.1	7.2	0.1	1.457	7.8	5.0	<0.1	0.660	9.2	8.6	0.1	1.030	15.2	9.0	<0.1	0.505	0.168	10.540	
AVG	6.613	10.6	6.5	<0.1	2.838	11.3	8.3	<0.1	3.490	11.7	9.2	<0.2	0.925	5.1	7.3	<0.1	0.428	0.140	14.622	
TOTAL	205.010				87.992				108.190				28.663				13.279	4.339	453.280	0.14

South Orange County Wastewater Authority-San Juan Creek Ocean Outfall

REPORT FOR: March 2017
 REPORT DUE: May 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 1039

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	03/01/17	900	50	70	44	None	None	None	None	Green	57	Turbid		
S1	03/01/17	910	100	40	82	None	None	None	None	Green		Turbid		
S2	03/01/17	835	420	100	140	None	None	None	None	Green		Turbid		
DSB5	03/01/17	815	>=800	270	130	None	None	None	None	Brown		Turbid	Flowing	
S3	03/01/17	915	100	20	20	None	None	None	None	Green		Turbid		
DSB4	03/01/17	922	<40	100	20	None	None	None	None	Green		Turbid		
S5	03/01/17	930	20	20	7	None	None	None	None	Green	58	Turbid		
DSB1	03/01/17	937	<40	<40	<4	None	None	None	None	Green	59	Turbid		
SJC1	03/01/17	850	340	200	120	None	None	None	None	Green		Turbid	Flowing	

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: March 2017
 REPORT DUE: May 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 1245

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	03/08/17	830	100	70	20	None	None	None	None	Green		Slightly Turbid		
S1	03/08/17	837	70	<40	1,500	None	None	None	None	Green		Slightly Turbid		
S2	03/08/17	756	20	<40	5	None	None	None	None	Green		Slightly Turbid		
DSB5	03/08/17	746	310	40	100	None	None	None	None	Green	60	Slightly Turbid		
S3	03/08/17	843	200	<40	<4	None	None	None	None	Green		Slightly Turbid		
DSB4	03/08/17	842	100	<40	9	None	None	None	None	Green		Slightly Turbid		
S5	03/08/17	849	20	<40	7	None	None	None	None	Green	60	Slightly Turbid		
DSB1	03/08/17	858	<40	<40	<40	None	None	None	None	Green		Slightly Turbid		
C1	03/08/17	804	2,200	1,700	130	None	None	None	None	Green		Slightly Turbid	Flowing	

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: March 2017
 REPORT DUE: May 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 1011

Weather: Fog

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	03/13/17	910	>=40	40	20	None	None	None	None	Green		Turbid		
S1	03/13/17	915	<40	20	<4	None	None	None	None	Green		Turbid		
S2	03/13/17	830	50	<40	4	None	None	None	None	Green	57	Turbid		
DSB5	03/13/17	0845	200	<40	82	None	None	None	None	Green		Turbid		
S3	03/13/17	930	<40	<40	50	None	None	None	None	Green		Turbid		
DSB4	03/13/17	0932	40	<40	4	None	None	None	None	Green		Turbid		
S5	03/13/17	935	<40	<40	<4	None	None	None	None	Green	59	Turbid		
DSB1	03/13/17	938	<40	<40	<4	None	None	None	None	Green		Turbid		
C1	03/13/17	900	>=600	<200	60	None	None	None	None	Green		Turbid	Flowing	

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: March 2017
 REPORT DUE: May 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 1100
 Weather: Overcast
 COMMENTS:

STA#	DATE	TIME	Total Coliform	Fecal Coliform	Enterococcus	Material of Sewage		Oil &	Odor	Water	H2O	Water	Water	Birds
			CFU/100ml SM9222B	CFU/100ml SM9222D	CFU/100ml EPA 1600	Onshore	Offshore	Grease	Temp(F)	Condition	Outlet			
S0	03/20/17	900	130	50	40	None	None	None	None	Green		Turbid		
S1	03/20/17	920	20	20	20	None	None	None	None	Green		Turbid		
S2	03/20/17	840	50	<40	5	None	None	None	None	Green		Turbid		
DSB5	03/20/17	828	70	50	20	None	None	None	None	Brown		Turbid		
S3	03/20/17	930	130	40	20	None	None	None	None	Green		Turbid		
DSB4	03/20/17	932	<40	20	10	None	None	None	None	Green		Turbid		
S5	03/20/17	938	<40	<40	<4	None	None	None	None	Green		Turbid		
DSB1	03/20/17	945	<40	20	4	None	None	None	None	Green		Turbid		
C1	03/20/17	908	>=700	500	200	None	None	None	None	Green		Turbid	Flowing	

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: March 2017
 REPORT DUE: May 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 1039

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	03/29/17	855	200	50	23	None	None	None	None	Green		Turbid		
S1	03/29/17	840	20	40	9	None	None	None	None	Green		Turbid		
S2	03/29/17	910	<40	20	2	None	None	None	None	Green		Turbid		
DSB5	03/29/17	920	240	50	200	None	None	None	None	Green		Turbid		
S3	03/29/17	835	<40	20	7	None	None	None	None	Green		Turbid		
DSB4	03/29/17	830	70	20	50	None	None	None	None	Green		Turbid		
S5	03/29/17	825	20	<40	4	None	None	None	None	Green		Turbid		
DSB1	03/29/17	820	40	20	10	None	None	None	None	Green		Turbid		
C1	03/29/17	850	2,000	900	400	None	None	None	None	Green		Turbid	Flowing	

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: March 2017

REPORT FREQUENCY: Monthly

REPORT DUE: May 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 1130 B1- Surface Plume

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	03/02/17	<2	<2	<2	921	0	0	0 - None
A-1	Mid depth	03/02/17	100	50	10				1 - Mild
A-2	Surface	03/02/17	<2	<2	<2	925	0	0	2 - Moderate
A-2	Mid depth	03/02/17	<10	<10	<10				3 - Severe
A-3	Surface	03/02/17	<2	<2	<2	936	0	0	
A-3	Mid depth	03/02/17	30	10	<10				
A-4	Surface	03/02/17	80	50	6	929	0	0	
A-4	Mid depth	03/02/17	160	160	50				
A-5	Surface	03/02/17	144	254	42	932	0	0	
A-5	Mid depth	03/02/17	20	<10	<10				
B-1	Surface	03/02/17	2	2	<2	916	0	0	
B-1	Mid depth	03/02/17	<10	<10	<10				
B-2	Surface	03/02/17	<2	<2	<2	912	0	0	
B-2	Mid depth	03/02/17	<10	<10	<10				
N1	Surface	03/02/17	<2	<2	<2	906	0	0	
N2	Surface	03/02/17	4	<2	<2	903	0	0	
N3	Surface	03/02/17	4	<2	<2	901	0	0	
N4	Surface	03/02/17	12	2	12	856	0	0	
N5	Surface	03/02/17	2	<2	<2	853	0	0	
N6	Surface	03/02/17	8	2	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
SOCWA - JBL Plant	1/23/2017	Total Suspended Solids	Removal Efficiency	%	85%	77%	\$3,000



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	

SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

QUARTERLY RECYCLED WATER MONITORING

Monitoring Period Ending: Mar 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	803	925	1,000	906	888	984	928	1,047	843
Chloride	mg/L	375	162	191	228	192	207	279	205	244	229
Sulfate	mg/L	400	233	229	259	284	249	236	263	345	291
Sodium	mg/L	None	154	160	186	158	158	213	168	180	163
Alkalinity	mg/L	None	-	-	-	-	-	-		264	186
Adjusted SAR	Ratio	None	4.93	-	4.91	4.55	4.53	5.95	4.98	4.27	4.61
Iron	mg/L	0.3	0.017	0.018	0.033	0.300	0.104	0.133	0.14	0.200	0.127
Manganese	mg/L	0.05	0.019	0.004	0.016	0.022	0.034	0.029	0.057	0.079	0.047
MBAS	mg/L	0.5	0.07	0.03	0.06	0.45	0.45	0.33	0.45	0.10	0.10
Boron	mg/L	0.75	0.35	0.265	0.349	0.298	0.323	0.390	0.29	0.343	0.28
Fluoride	mg/L	None	0.63	1.840	0.27	0.910	1.01	1.42	0.95	1.02	0.79
Total Organic Carbon	mg/L	None	9.1	-	8.4	8.4	10.0	8.7	10.8	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										6.45
CSJC ²	Chiquita/SMWD	0.30	0.02	9.60										9.92
CSJC ³	Non-Domestic Well	3.18	4.44	NR										7.62
ETWD	Region 8	27.67	21.00	28.97										77.64
IRWD														
	⁴ IRWD - 8	2.71	3.65	39.50										45.86
	⁴ IRWD - 9	1.11	4.97	28.05										34.13
SCWD	SOCWA CTP	3.32	10.16	49.66										63.14
MNWD	JRP	153.48	158.57	268.68										580.73
	3-A Plant	0.00	0.00	70.24										70.24
	⁵ CTP	-1.25	4.36	2.16										5.28
SMWD	Oso Creek	151.60	141.02	149.58										442.20
	Chiquita	197.02	95.04	205.46										497.52
	Nichols	1.73	1.53	1.82										5.08
TCWD	RRWRP	52.88	36.21	43.81										132.90
TOTALS		594.70	476.59	885.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1957.06

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: May 4, 2017

TO: SOCWA Board of Directors
FROM: Betty Burnett, General Manager
STAFF CONTACT: Katie Greenwood, Source Control Manager
SUBJECT: Monthly Pretreatment Report, March 2017 and April 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.

The Dental Amalgam Rule is still on hold due to a regulatory freeze. SOCWA Staff is moving forward with the expectation that the freeze will be lifted and the Rule published. Staff is drafting a letter to send to all Dental facility listings on-file and obtained through recently enhanced industrial waste survey (IWS) procedures.

Trainings and Committee Meetings Attended

SARBS Collection Systems FOG Seminar on April 11, 2017.

CWEA Annual Conference and Pretreatment Pollution Prevention and Stormwater (P3S) Committee Meeting on April 26, 2017.

Inspection and Sampling Related Activities

SOCWA Staff conducted the following wastewater discharge inspections on the following date:

- IRWD – Dynacast – March 23, 2017, Part of PCI
- SMWD – Applied Medical (003 facility) – March 23, 2017, Part of PCI
- CSJC – Rancho Mission Viejo Riding Fields – April 4, 2017, Pre-Construction Inspection
- CSC – Flavorchem – April 6, 2017 - Compliance sampling also performed
- CSC – Custom Ingredients – April 12, 2017
- CSC – Lost Winds Brewery and Artifex Brewery - April 18, 2017

- o CSC - Left Coast Brewery – April 20, 2017

Permit Related Activities

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

IRWD-1-001 – Dynacast - Permit modification performed on April 5, 2017 to reflect Dynacast as a Zero-CIU facility with local limits applied to the non-categorical wastewater effluent discharged to the sanitary sewer and to include the contact information of a new Operations Manager and Company Authorized Representative (CAR).

MNWD-4-012 - Dairy Fork Wetland Project – Permit modification performed on April 3, 2017 to update Part Nine, User Facility Contact Information, and remove all personnel associated with Habitat Restoration Sciences. City of Aliso Viejo Staff is now reflected as sole permit contact.

IRWD-BMP Letter – Applied Medical - Plastic Injection Molding facility - 20161 Windrow Drive, Lake Forest – BMP letter issued on April 3, 2017 to allow a one-time controlled discharge (over a five-day period) of flush waters associated with the plastic molding non-contact cooling system. Letter requires notification prior to discharge and implementation of prescribed BMPs.

MNWD/SCWD/CSJC – Non-Industrial Wastewater Discharge (NIWD) Form for San Juan Basin Authority – SOCWA Staff has prepared a final draft NIWD form with required BMPs to allow for the discharge of wastewater groundwater associated with sampling efforts and annual maintenance of monitoring wells within the San Juan Basin. The final draft document is currently being reviewed and circulated among agency Staff to obtain required signatures.

CSC-2-008 – SWD Permit for SDG&E – Staff issued the final draft on March 29, 2017. The SWD Permit allows for the discharge of water accumulated in and collected from utility vaults to the sanitary sewer. The permit is effective as of April 1, 2017 and expires March 31, 2022.

SCWD – NSWD Permits for Seven City of Dana Point (CDP) Diversion Sites: Baby Beach, Priority One, North Creek, Del Obispo, Urban Runoff (Multiple), Strands Beach, Headlands Reserve – Currently, the Permits for Baby Beach and Headlands are expired and the remaining five are set to expire before the end of 2017. Staff is putting forth effort to combine all seven diversions under one CDP Permit. SCWD Staff plan to take one agreement for signature during May E&O Board Meeting.

SCWD – NSWD Permit Nos. N4-004 (Salt Creek), N4-007 (Montage Resorts), and N4-008 (Niguel Shores) - All permits are expired and are in the process of being reissued. The separate Agreements were approved by SCWD Engineering and Operations Staff on April 17, 2017 and are expected to be approved and signed by SCWD Board of Directors before the end of April.

**Summary of Activities and Types of IUs in the SOCWA Service Area.
 YTD through April 19, 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	5	35	18	181	1283	0	1	1522
CSJC	(S)	0	2	27	59	137	1669	0	0	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)	28	6	125	40	605	2031	3	0	2807
SMWD	(S)	25	5	20	20	182	721	0	0	948
SCWD	(S)	0	14	33	7	148	184	0	1	386
TCWD	(S)	0	11	0	0	7	33	0	0	51
SOCWA	(S)	1	3	0	0	0	0	0	2	3
Totals		41	56	391	170	1586	7086	3	4	9296
Dentist (All)										380

Total Known IUs 9676

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

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

Agenda Item

Legal Counsel Review: N/A

Meeting Date: May 4, 2017

TO: Board of Directors

FROM: Betty Burnett, General Manager

STAFF CONTACT: Brian Peck, Director of Engineering

SUBJECT: Capital Improvement Program Status Report

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

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

<i>Task Code</i>	<i>Description</i>	<i>Phase</i>	<i>Status</i>
CAPITAL IMPROVEMENT PROJECT LIQUIDS			
3213-000	Water System Piping Improvements (2014)	Design	Study completed. Remaining work is part of the Package 'B' Improvements.
3201-000	Aeration/Secondary Upgrade (2009)	Constuction	Part of the Package 'A/C' Improvements. Gateway Pacific has substantially completed the aeration improvements.
3214-000	4MGD Diversion Flow Meter & Control Structure (2012)	Design	Part of the Package 'B' Improvements.
3212-000	East Primary Influent Channel Repair (2015)	Design	Part of the Package 'B' Improvements.
3202-000	Preliminary and Primary Treatment Improvements (Package "B") (2016)	Design	Technical Memoranda No.2 and No. 3 were reviewed with the Engineering Committee on April 13, 2017.
3203-000	Effluent Standby Generator ATS Replacement (2016)	Constuction	Gateway Pacific is currently working on installation of new auto transfer switch. Installation now scheduled for the second week of May to take advantage of low tide conditions.
3252-000	Plant 1 Standby Power Generator Replacement (2017)	Design	Hazen & Sawyer transmitted 35% complete design dccuments on April 17; SOCWA staff is currently reviewing.
3251-000	Effluent Flow Meter Replacement (2017)	Design	Hazen & Sawyer transmitted 35% complete design dccuments on April 17; SOCWA staff is currently reviewing.
3250-000	Plant 1 Grit Basin Improvements (2017)	Design	Hazen & Sawyer transmitted 35% complete design dccuments on April 17; SOCWA staff is currently reviewing.
3253-000	Effluent System Valve Replacement (2017)	Design	Hazen & Sawyer transmitted 35% complete design dccuments on April 17; SOCWA staff is currently reviewing.
3204-000	Facility Improvements - Structural Repair (2015)	Constuction	Part of the Package 'A/C' Improvements. Gateway Pacific has substantially completed the structural improvements.

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

Task Code	Description	Phase	Status
CAPITAL IMPROVEMENT PROJECT COMMON			
3218-000	Energy Building Roof Reconstruction (2015)	Design	Part of the Package 'B' Improvements.
3206-000	Diesel Storage Tank (2016)	Construction	Installation of the new storage tank has been substantially completed.
4014-000	Foul Air System Evaluation (2016) (NCP)	Study	DHK Engineering scheduled to transmit draft document during the last week of May, 2017.
3205-000	West Side Power System Upgrade (2013)	Constuction	Part of the Package 'A/C' Improvements. Gateway Pacific has received and installed the new switchgear. The new service from SDG&E has been energized.
3216-000	Hoist System for Maintenance Shop (2013)	Design	Part of the Package 'B' Improvements.
3260-000	SCADA System Upgrade (2017)	Construction	Project underway by SOCWA Operations department.
4001-000	Plant Drain System Study (2017) (NCP)	Study	Purchase Order issued to Hazen & Sawyer.
CAPITAL IMPROVEMENT PROJECT SOLIDS			
3209-000	Facility Improvements - Co-Generation Reconstruction (2015)	Construction	Part of the Package 'A/C' Improvements. Installation drawings have been approved by San Diego Gas & Electric; final meter installation expected during week of May 1, 2017.
3272-000	Dewatering System Controls Upgrade (2017)	Construction	Kick-off meeting held with Andritz on April 12, 2017.
4002-000	Dewatering System Condition Assessment (2017) (NCP)	Condition Assessment	Recommendation for award of contract to be presented at the May 4, 2017, Board Meeting.
4003-000	Heating System Condition Assessment (2017) (NCP)	Condition Assessment	Recommendation for award of contract to be presented at the May 4, 2017, Board Meeting.
3210-000	Facility Improvements - Solids Area (2015)	Design	Technical Memoranda No.2 and No. 3 were reviewed with the Engineering Committee on April 13, 2017.

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

<i>Task Code</i>	<i>Description</i>	<i>Phase</i>	<i>Status</i>
CAPITAL IMPROVEMENT PROJECTS			
3601-000	Junction Structure Rehabilitation Design	Design	Black & Veatch and Dudek are currently working on resource agency and Coastal Commission permit applications.
4004-000	Emergency Plan Development (2016) (NCP)	Study	Draft plan submittal expected in June, 2017.
4005-000	Dilution Study (2017) (NCP)	Study	Draft model to be submitted by Michael Baker in June, 2017.

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

Task Code	Description	Phase	Status
CAPITAL IMPROVEMENT PROJECTS LIQUIDS			
1352	Lighting System Improvements (2014)	Construction	This item is part of the Miscellaneous Improvements 2015 project; this work has been substantially completed.
3501-000	Fire Protection (2013)	Construction	This item is part of the Miscellaneous Improvements 2015 project; this work has been substantially completed.
1367	Export Sludge Line Repair & Rip Rap (R - 2) (2012)	Design	Protection in this area has been largely addressed through the routing of the new Export Sludge pipeline as well as through minor embankment protection features that will be integrated with Export Sludge System replacement.
3502-000	RAS Hypochlorite System (2013)	Construction	This item is part of the Miscellaneous Improvements 2015 project; this work has been substantially completed.
3504-000	Aeration System Modification Design (2015)	Study	CH2MHill is scheduled to deliver the technical memoranda on the aeration system modifications during the last week in May.
3505-000	Headworks Overflow Pipe Modifications (2015)	Construction	This item is part of the Miscellaneous Improvements 2015 project; this work has been substantially completed.
3506-000	Structural Modifications - Site (2015)	Construction	This item is part of the Miscellaneous Improvements 2015 project; this work has been substantially completed.
3507-000	East Primary Influent Gates (2015)	Bidding	This item is part of the Miscellaneous Improvements 2017 project; a recommendation for award will be made at the May 2017 Board.

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

Task Code	Description	Phase	Status
CAPITAL IMPROVEMENT PROJECTS LIQUIDS			
3508-000	Grit System Knife Gate Valve Replacement (2015)	Bidding	This item is part of the Miscellaneous Improvements 2017 project; a recommendation for award will be made at the May 2017 Board.
3509-000	Switchgear Replacement Design (2016)	Study	SOCWA staff has received the CH2MHill cost estimate for the project; this data will be reviewed with the Project Committee 15 Engineering Committee Meeting in May, 2017.
3510-000	Grating Rebate and Concrete Repair Between Aeration Basins and Primary Basins (2016)	Bidding	This item is part of the Miscellaneous Improvements 2017 project; a recommendation for award will be made at the May 2017 Board.
4022-000	Influent/Overflow Condition Assessment (2016)	Condition Assessment	Project completed.
3512-000	Grating Rebate and Concrete Repair Between HW Building and Primary Basins (2016)	Bidding	This item is part of the Miscellaneous Improvements 2017 project; a recommendation for award will be made at the May 2017 Board.
3514-000	CTP Facility Upgrade Design (2016)	Study	SOCWA staff has returned comments on the draft Technical Memo's No. 1 and No.2 to CH2MHill; finalized Memo's are expected in the the third week of May, 2017.
3515-000	Existing Export Sludge Wetwell Refurbishment (2015)	Construction	This item is part of the Miscellaneous Improvements 2015 project; this work has been substantially completed.
3534-000	Export Sludge System (1997)	Design	A review meeting with the USFWS is scheduled for April 26, 2017.
3550-000	Export Sludge Pump Addition (2017)	Bidding	This item is part of the Miscellaneous Improvements 2017 project; a recommendation for award will be made at the May 2017 Board.
3552-000	SCADA System Improvements (2017)	Construction	Project underway by SOCWA Operations department.

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

Task Code	Description	Phase	Status
CAPITAL IMPROVEMENT PROJECTS LIQUIDS			
3553-000	Plant Drainage Improvements (2017)	Design	A purchase order for this work has been issued to TetraTech.
3554-000	Odor Scrubber Bleach Tank Replacement (2017)	Bidding	This item is part of the Miscellaneous Improvements 2017 project; a recommendation for award will be made at the May 2017 Board.
4015-000	Conceptual Building Design (2017) (NCP)	Study	A purchase order for this work has been issued to AECOM.
3503-000	Scrubber Upgrade (2013)	Construction	This item is part of the Miscellaneous Improvements 2017 project; a recommendation for award will be made at the May 2017 Board.
CAPITAL IMPROVEMENT PROJECT AWT			
3516-000	Disinfection System Upgrade (AWT) (2011)	Construction	This item is part of the Miscellaneous Improvements 2015 project. The system is currently undergoing final testing.
1357	Hypochlorite Tank (AWT) (2013)	Construction	This item is part of the Miscellaneous Improvements 2015 project; the work is substantially complete.
3562-000	AWT Applied Water Pump Replacement (2017)	Bidding	This item is part of the Miscellaneous Improvements 2017 project; a recommendation for award will be made at the May 2017 Board.
4006-000	Effluent Equalization System Condition Assessment (2017) (NCP)	Condition Assessment	SOCWA has received the draft condition assessment report from V&A.
4007-000	Contact Basins Condition Assessment (2017) (NCP)	Condition Assessment	SOCWA has received the draft condition assessment report from V&A.
3517-000	AWT Backwash Water Pump Replacement (2016)	Bidding	This item is part of the Miscellaneous Improvements 2017 project; a recommendation for award will be made at the May 2017 Board.
3518-000	Chlorine Mixer Replacement (2015)	Construction	This item is part of the Miscellaneous Improvements 2015 project; the work is substantially complete.

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

Task Code	Description	Phase	Status
CAPITAL IMPROVEMENT PROJECT LIQUIDS			
3701-000	Secondary Electrical System Rerouting (2014)	Design	Project has been awarded to Lee & Ro.
3730-000	Primary Gallery Upgrade (2014)	Design	RFP for this project to be issued in June, 2017.
3702-000	Waste Activated Sludge VFD Control Panel (2013)	Design	Project has been awarded to Lee & Ro.
3704-000	Odor Control Scrubber Control Panel No. 1 (2013)	Design	This project pending completion of odor technology evaluation.
3707-000	Influent Manholes 1 and 2 and Sewer Repair (2016)	Construction	This is part of the RTP Miscellaneous Improvements 2016 Project. The project is in the shop drawing phase. Field work to begin in June.
3708-000	Influent Junction Structure Gate Replacement (2016)	Construction	This is part of the RTP Miscellaneous Improvements 2016 Project. The project is in the shop drawing phase. Field work to begin in June.
201617RL3	Influent Junction Structure and Pipe Condition Assessment (2016) (NCP)	Condition Assessment	Work to be completed in conjunction with RTP Miscellaneous Improvements 2016.
3710-000	AWT Water Quality Instrumentation (2016)	Construction	Part of the RTP Miscellaneous Improvements 2016 Project; this work is substantially completed.
3712-000	Grit Basin Drop Gate and Weir Replacement (2016)	Construction	This is part of the RTP Miscellaneous Improvements 2016 Project. The project is in the shop drawing phase.
3752-000	AWT No.2 Upgrade Design (2017)	Design	Draft report from Carollo Engineers is currently under review.
1410	Aeration System Analysis (2015)	Study	This project has been completed.
201717RL1	Effluent Equalization Pond and Gate Condition Assessment (2017) (NCP)	Condition Assessment	Project has been awarded to V&A consultants; assessments to be performed in December, 2017.

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

Task Code	Description	Phase	Status
CAPITAL IMPROVEMENT PROJECT LIQUIDS			
201617RL5	Primary Influent Channel Condition Assessment (2016) (NCP)	Condition Assessment	Project has been awarded to V&A consultants; assessments to be performed in June, 2017.
CAPITAL IMPROVEMENT PROJECT COMMON			
3715-000	Switchgear Upgrade (2006)	Construction	SCE has completed the installation of the new transformer.
3760-000	Develop Buried Piping Reconstruction Master Plan (2017)	Study	Lee & Ro is currently responding to SOCWA comments on the draft report.
3761-000	External Lighting Upgrade (2017)	Design	Design memorandum has been completed.
3763-000	Reroute Plant Drains (2017)	Construction	This project has been completed by SOCWA Operations staff.
3762-000	Secondary Access Road CEQA (2017)	Permitting	Purchase order issued to Dudek to perform CEQA work.
3764-000	SCADA System Improvements (2017)	Construction	Project underway by SOCWA Operations Dept.
3717-000	Security Fencing (2015)	Construction	Pacific Hydrotech has completed installing the posts for the new gate.
3718-000	Access Bridge Upgrades (2015)	Construction	Pacific Hydrotech is currently working on the bridge upgrades.
CAPITAL IMPROVEMENT PROJECT SOLIDS			
3720-000	Digester Dome Recoating (2014)	Construction	Pacific Hydrotech has substantially completed this work.
1478	Underground Piping Upgrade (2006)	Construction	Pacific Hydrotech has substantially completed this work.
3722-000	Co-Generation System Retrofit (2008)	Construction	Pacific Hydrotech is currently working on support piping for new engine generator.
3723-000	Recoat Top of Digesters (2016)	Construction	Pacific Hydrotech is currently performing the field work on the recoating.

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

Task Code	Description	Phase	Status
CAPITAL IMPROVEMENT PROJECTS			
4004-000	Emergency Plan Development (2016) (NCP)	Study	Draft plan submittal expected in June, 2017.

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

Task Code	Description	Fiscal Year 16/17	Fiscal Year 17/18			
		4th Qtr	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr
FACILITY IMPROVEMENTS PACKAGES A/C		C				
3201-000	Aeration/Secondary Upgrade (2009)	C				
3203-000	Effluent Standby Generator ATS Replacement (2016)	C				
3204-000	Facility Improvements - Structural Repair (2015)	C				
3206-000	Diesel Storage Tank (2016)	C				
3205-000	West Side Power System Upgrade (2013)	C				
3209-000	Facility Improvements - Co-Generation Reconstruction (2015)	C				
FACILITY IMPROVEMENTS PACKAGE B		P	D	D	D	B&A
3213-000	Water System Piping Improvements (2014)	P	D	D	D	B&A
3214-000	4MGD Diversion Flow Meter & Control Structure (2012)	P	D	D	D	B&A
3202-000	Preliminary and Primary Treatment Improvements (Package "B") (2016)	P	D	D	D	B&A
3212-000	East Primary Influent Channel Repair (2015)	P	D	D	D	B&A
3218-000	Energy Building Roof Reconstruction (2015)	P	D	D	D	B&A
3216-000	Hoist System for Maintenance Shop (2013)	P	D	D	D	B&A
3210-000	Facility Improvements - Solids Area (2015)	P	D	D	D	B&A

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

Task Code	Description	Fiscal Year 16/17	Fiscal Year 17/18			
		4th Qtr	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr
MISCELLANEOUS IMPROVEMENTS 2017		D	B&A	C	C	C
3252-000	Plant 1 Standby Power Generator Replacement (2017)	D	B&A	C	C	C
3251-000	Effluent Flow Meter Replacement (2017)	D	B&A	C	C	C
3250-000	Plant 1 Grit Basin Improvements (2017)	D	B&A	C	C	C
3253-000	Effluent System Valve Replacement (2017)	D	B&A	C	C	C

INDEPENDENT PROJECTS						
4014-000	Foul Air System Evaluation (2016) (NCP)	P				
3260-000	SCADA System Upgrade (2017)	C				
4001-000	Plant Drain System Study (2017) (NCP)	P				
3272-000	Dewatering System Controls Upgrade (2017)	C	C			
4002-000	Dewatering System Condition Assessment (2017) (NCP)	CA	CA			
4003-000	Heating System Condition Assessment (2017) (NCP)	CA	CA			

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

Task Code	Description	Fiscal Year 16/17	Fiscal Year 17/18			
		4th Qtr	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr
MISCELLANEOUS IMPROVEMENTS 2015		C				
1352	Lighting System Improvements (2014)	C				
3501-000	Fire Protection (2013)	C				
3502-000	RAS Hypochlorite System (2013)	C				
3505-000	Headworks Overflow Pipe Modifications (2015)	C				
3506-000	Structural Modifications - Site (2015)	C				
3516-000	Disinfection System Upgrade (AWT) (2011)	C				
1357	Hypochlorite Tank (AWT) (2013)	C				
3518-000	Chlorine Mixer Replacement (2015)	C				
3515-000	Existing Export Sludge Wetwell Refurbishment (2015)	C				
FACILITY IMPROVEMENTS PACKAGE		P	D	D	D	B&A
3504-000	Aeration System Modification Design (2015)	P	D	D	D	B&A
3509-000	Switchgear Replacement Design (2016)	P	D	D	D	B&A
3514-000	CTP Facility Upgrade Design (2016)	P	D	D	D	B&A

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

Task Code	Description	Fiscal Year 16/17	Fiscal Year 17/18			
		4th Qtr	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr
MISCELLANEOUS IMPROVEMENTS 2017		C	C	C	C	
3507-000	East Primary Influent Gates (2015)	C	C	C	C	
3508-000	Grit System Knife Gate Valve Replacement (2015)	C	C	C	C	
3510-000	Grating Rebate and Concrete Repair Between Aeration Basins and Primary Basins (2016)	C	C	C	C	
3512-000	Grating Rebate and Concrete Repair Between HW Building and Primary Basins (2016)	C	C	C	C	
3550-000	Export Sludge Pump Addition (2017)	C	C	C	C	
3554-000	Odor Scrubber Bleach Tank Replacement (2017)	C	C	C	C	
3503-000	Scrubber Upgrade (2013)	C	C	C	C	
3562-000	AWT Applied Water Pump Replacement (2017)	C	C	C	C	
3517-000	AWT Backwash Water Pump Replacement (2016)	C	C	C	C	
EXPORT SLUDGE SYSTEM REPLACEMENT		ENV	B&A	C	C	C
1367	Export Sludge Line Repair & Rip Rap (R - 2) (2012)	ENV	B&A	C	C	C
3534-000	Export Sludge System (1997)	ENV	B&A	C	C	C

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

Task Code	Description	Fiscal Year 16/17	Fiscal Year 17/18			
		4th Qtr	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr
INDEPENDENT PROJECTS						
3552-000	SCADA System Improvements (2017)	C				
3553-000	Plant Drainage Improvements (2017)	D	B&A	C		
4015-000	Conceptual Building Design (2017) (NCP)	P				

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

Task Code	Description	Fiscal Year 16/17	Fiscal Year 17/18			
		4th Qtr	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr
MISCELLANEOUS IMPROVEMENTS 2016		C	C			
3707-000	Influent Manholes 1 and 2 and Sewer Repair (2016)	C	C			
3708-000	Influent Junction Structure Gate Replacement (2016)	C	C			
3710-000	AWT Water Quality Instrumentation (2016)	C	C			
3712-000	Grit Basin Drop Gate and Weir Replacement (2016)	C	C			
3717-000	Security Fencing (2015)	C	C			
3718-000	Access Bridge Upgrades (2015)	C	C			
3723-000	Recoat Top of Digesters (2016)	C	C			
COGENERATION AND SWITCHGEAR UPGRADE		C	C			
3715-000	Switchgear Upgrade (2006)	C	C			
3720-000	Digester Dome Recoating (2014)	C	C			
1478	Underground Piping Upgrade (2006)	C	C			
3722-000	Co-Generation System Retrofit (2008)	C	C			
MISCELLANEOUS IMPROVEMENTS 2017		D	D	D	B&A	C
3701-000	Secondary Electrical System Rerouting (2014)	D	D	D	B&A	C
3702-000	Waste Activated Sludge VFD Control Panel (2013)	D	D	D	B&A	C
3730-000	Primary Gallery Upgrade (2014)	D	D	D	B&A	C
3761-000	External Lighting Upgrade (2017)	D	D	D	B&A	C

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

Task Code	Description	Fiscal Year 16/17	Fiscal Year 17/18			
		4th Qtr	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr
INDEPENDENT PROJECTS						
3704-000	Odor Control Scrubber Control Panel No. 1 (2013)					
201617RL3	Influent Junction Structure and Pipe Condition Assessment (2016) (NCP)	CA	CA			
201717RL1	Effluent Equalization Pond and Gate Condition Assessment (2017) (NCP)			CA	CA	
201617RL5	Primary Influent Channel Condition Assessment (2016) (NCP)	CA				
3760-000	Develop Buried Piping Reconstruction Master Plan (2017)	P				
3762-000	Secondary Access Road CEQA (2017)	ENV				
3764-000	SCADA System Improvements (2017)	C				
3752-000	AWT No.2 Upgrade Design (2017)	D				

Agenda Item

Budgeted: Yes

Budget amount: \$69,000 (FY16-17) & \$250,000 (FY17-18) Proposed

Line Item: 5059 - PC-2

Legal Counsel Review: No

Meeting Date: May 4, 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.

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 JBL at a cost not to exceed \$200,000 per year, with annual CPI adjustments each year not to exceed 5%.

Discussion/Analysis

Vendor and Contract Provisions

The engine/generator system replaces the engine/blower system. The engine replacement was dictated by the implementation of more stringent SCAQMD air emission standards. The new engine generator system was supplied by GE/Jenbacher (GE/J). Western is GE/J's 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:

- \$12.00 per operating hour
- \$0.0188 per thousand kilowatt hours produced

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

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.

The newly installed GE/J engine/power plant at JBL requires significantly more maintenance effort and funding than the old engine driven blower. The engineering report for the new co-generation system identified increased maintenance costs in its financial assessment of the project to replace the old engine driven blower. That assessment included estimated O&M costs for the O&M

Department to plan for in its budgets. Thus, the Co-generation 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 new engine/generator system is a more sophisticated system as compared to the original system. No certifications were required to perform any O&M tasks by the manufacturer for the old engine and blower. The new manufacture requires factory certified personnel to work on the new engine/power plant to maintain warranties on the equipment. The maintenance approach for the new engine/generator system will be a collaboration between SOCWA staff and the authorized service representative (Western). All SOCWA staff to be involved with engine monitoring have received the Instructions at Commission Training. This training allows SOCWA staff to perform 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 plant, there are 17 required courses ranging from 3 days to 10 days. It is intended that SOCWA staff would attend those courses over a period of time. 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 around using a 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.

Prior Related Project Committee or Board Action(s)

None

Fiscal impact

None – This contract expense was anticipated within the PC-2 Co-Gen Maintenance budget for FY16-17 and FY17-18, as planned. Up to 16% of the contract will be billed in FY16-17, the remainder will be billed 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
- \$12.00 per engine operating hour
- \$0.0188 kilowatt hours (kWhe) produced
- First year annual contract costs shall not to exceed \$200,000
- 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.

Exhibit 1
Scope of Work

The service contract includes the following recommended tasks, at recommended times, over a five (5) year period and up to 45,000 hours of engine operation:

- 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

Budgeted: Yes
Budget amount: \$1,860,000.00
Line Items: PC 17 Tasks 3707-000, 3708-000, 3712-000, 3713-000, 3717-000, 3718-000, 3710-000, and 3723-000
Legal Counsel Review: No
Meeting Date: May 4, 2017

TO: Project Committee 17

FROM: Betty Burnett, General Manager

STAFF CONTACT: Brian Peck, Director of Engineering

SUBJECT: Change Order to Pacific Hydrotech Contract for the Regional Treatment Plant Miscellaneous Improvements 2016 Project

Recommendation

The Engineering Committee recommends that the Board of Directors approve Change Order 1 to the construction contract with Pacific Hydrotech for the Regional Treatment Plant Miscellaneous Improvements 2016 Project.

Change Orders

1. Approve Change Order 1 for the Bridge and Bridge Approach Improvements (PC 17, Tasks 3717-000 and 3718-000)

CO #	CO Item	Description	Change Order Price	Total Change Order Price*	Status
1	Replacement of Hanger Rods and Hanger Assemblies	Replacing and installing 33 hanger assemblies based on the visual inspection and recommendations	\$13,383.74	\$13,383.74	SOCWA Engineering Committee Recommended

* Cumulative for specific budget task code.

Advisory Status

Reviewed and recommended by the SOCWA Engineering Committee on April 13, 2017.

Financial Status

Original Contract Amount:	_____	\$ 1,451,200.00
Net change by previous change orders:	_____	\$ 0.00
Contract amount prior to this change order:	_____	\$ 1,451,200.00
Net increase, decrease due to this change order:	_____	\$ 13,383.74
New contract amount, including this change order:	_____	\$ 1,464,583.74

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

Task	Task 3717-000 and 3718-000
Member Agency	Common
El Toro Water District	\$1,373.17
Emerald Bay Service District	\$44.17
City of Laguna Beach	\$839.16
Moulton Niguel Water District	\$10,456.72
South Coast Water District	\$670.53
Total	\$13,383.74

Table 1
Project Cost Ledger: Regional Treatment Plant
Miscellaneous Improvements 2016
(Millions)

	Influent Sewer System Upgrade	Grit Basin Stop Gates and Weirs	Bridge and Bridge Approach Imps.	Digester Roofing System Rehab,	Water Quality Inst. Replacement	Total
<u>Budget (2016/2017)</u>	0.860	0.400	0.290	0.225	0.085	1.860
<u>Budget Task Codes</u>	3707/3708	3712/3713	3717/3718	3723	3710	
<u>Actual Bid Costs-</u>						
<u>Constr.</u>	0.784	0.275	0.170	0.165	0.058	1.451
<u>Construction Change</u>						
<u>Orders</u>	0.000	0.000	0.013	0.000	0.000	0.013
<u>Study & Design (Upfront Costs)</u>	0.025	0.025	0.050	0.010	0.000	0.110
Contingency	0.0265	0.0900	0.0066	0.0254	0.0271	0.1756
Construction Management	0.025	0.010	0.005	0.025	0.000	0.065
Gate Installation	0.000	0.000	0.045	0.000	0.000	0.045
Total Project Costs	0.860	0.400	0.290	0.225	0.085	1.860
<u>Spending</u>						
Total Current Spending	(0.025)	(0.025)	(0.050)	(0.010)	0.000	(0.060)
Remaining Spending	(0.835)	(0.375)	(0.240)	(0.215)	(0.085)	(1.510)
Remaining Budget	0.000	0.000	0.000	0.000	0.000	0.000

Agenda Item

Budgeted: Yes

Budget amount: \$50,008

Line Item: 5052 for PC-2, PC-15 & PC-17

Legal Counsel Review: No

Meeting Date: May 4, 2017

TO: Board of Directors
FROM: Betty Burnett, General Manager
STAFF CONTACT: Jim Burror, Director of Operations
SUBJECT: Janitorial Services - Rejection of Bids

Summary

SOCWA recently issued a Notice Inviting Bids (NIB) for janitorial services. SOCWA received two (2) bids that were substantially over SOCWA's budget. SOCWA staff is requesting that the Board of Directors reject all bids and allow SOCWA staff to revise the scope of work and issue a Request for Proposals.

Discussion/Analysis

SOCWA's existing vendor contract for janitorial services is set to expire and needs to be replaced. SOCWA staff has solicited a replacement vendor through a Notice Inviting Bid (NIB) process. The resulting bids were \$5,552 per month by Santa Fe and \$8,325 per month by Crown Facilities.

SOCWA staff will revise the scope of work and release a Request for Proposals (RFP). The scope of work will be revised to remove a requirement to perform services during business hours. Performing janitorial services during business hours appears to have caused the substantial increase in price. The RFP process will include a Best and Final Offer (BAFO) option to allow SOCWA staff to make sure each proposer has a clear understanding of the scope of work and that SOCWA is attaining the best value contract.

Prior Related Project Committee or Board Action(s)

None

Fiscal impact

None

Recommendation

Reject all bids due to project budget concerns, authorize staff to revise the project in accordance with staff recommendations, and issue a Request for Proposals (RFP) in accordance with SOCWA's procedures.

Agenda Item

Budgeted: No

Budget amount: \$12,912

Line Item: IT Hardware / Maintenance Agreements

Legal Counsel Review: No

Meeting Date: May 4, 2017

TO: Board of Directors

FROM: Betty Burnett, General Manager

STAFF CONTACTS: Jim Burror, Director of Operations
Mike Matson, Support Services Manager
David Lloyd, IT Administrator

SUBJECT: Business Server Hardware and Related Maintenance Services - Award of Contract to Zumasys, Inc. in an amount not to exceed \$148,223.69.

Summary

SOCWA staff is requesting the award of a three (3) year contract to Zumasys, Inc. to replace and service SOCWA's business servers at a cost not to exceed \$148,223.69.

Discussion/Analysis

The existing Virtual Infrastructure Redundant Host contract is set to expire and the equipment is at the end of its useful life. This new contract is similar to past contracts and includes new hardware to be installed on-site and maintained/serviced by the vendor.

In addition to the current contract expiring the following conditions exist:

- The existing hardware is running critically low on memory.
- There are some segregated storage spaces on the network that need to be setup for routine backup services under a new contract.
- The new contract will add disaster recovery services in addition to the backup services.

Staff initially pursued a service contract extension on the existing equipment and funding for its replacement next Fiscal Year. However, the critically low hardware space required SOCWA staff to seek Board approval to expedite a new service contract this Fiscal Year.

A Request for Proposals (RFP) was issued for these services. SOCWA received three (3) proposals from the following firms for the services:

Advanced Network Consultants, Inc.	\$178,117.49
TCS Networking Consulting, Inc.	\$185,815.20
Zumasys, Inc.	\$148,223.69

SOCWA staff reviewed each proposal and met with each proposer. SOCWA staff determined that Zumasys, Inc. was the best value for SOCWA. They are a responsive and responsible proposer. They have a clear understanding of the scope of services and have a track record of successful implementations with SOCWA and other similar agencies.

Under the new contract, SOCWA will maintain two (2) virtual servers and several hard drives, increase access speed, allow better sharing of resources, and be provided with backup services. The new contract will also add disaster recovery capabilities and install solid state storage hardware to further reduce power consumption.

The proposed contract includes a Microsoft Hyper-V / Nimble SAN host and includes support for the 10-Gigabit Ethernet network and multipath networking hardware. This equipment will replace the existing VMWare vSphere 5.x host that is at the end of its serviceable life.

Prior Related Project Committee or Board Action(s)

None

Fiscal impact

This project is not budgeted. The costs would be capitalized for this hardware addition. Incurring the cost in this year would increase small capital spending, but overall the IT spending is running under budget as is the small capital budget, and the costs likely will be completely off-set although within different budget line items of expenditure. As the Board is aware IT spending is shared among the Project Committees based on distribution of actual labor. This hardware acquisition will serve all major SOCWA business systems, therefore, it is properly allocated on the same basis.

Because hardware space is critically low, the project needs to be implemented this Fiscal Year.

Recommendation

Staff recommends the following:

- 1) Award of the three (3) year contract for business hardware and maintenance services with Zumasys, Inc. for a fee not to exceed \$148,223.69.

Agenda Item

Budgeted: Yes

Budget amount: \$150,000

Line Item: PC 2 Tasks 4002-000 and 4003-000

Legal Counsel Review: No

Meeting Date: May 4, 2017

TO: Project Committee 2 Board of Directors

FROM: Betty Burnett, General Manager

STAFF CONTACT: Brian Peck, Director of Engineering

SUBJECT: Award of Engineering Services Contract for the J. B. Latham Treatment Plant Dewatering and Digestion System Condition Assessment

Summary

This agenda item provides a recommendation for the award of an engineering services contract to Carollo Engineers for the condition assessment of the J. B. Latham Treatment Plant Dewatering and Digestion System.

Background

Primary sludge and thickened waste activated sludge at the J. B. Latham Treatment Plant are stabilized through an anaerobic digestion process. There are four digesters located at the plant. The digesters were constructed in two separate projects during the early to mid-1970's. Three of the digesters have fixed metal domes; the remaining digester has a fixed concrete roof. The domes on Digesters No.1 and No.2 were replaced in 2006. This project also replaced the original draft tube gas mixing system with a pump mix system for Digesters No.1 and No.2. Digester No.3 is the lone digester with a fixed concrete roof. Digester No. 4 is currently out of service.

The digested sludge at the Latham Plant is further treated by dewatering with three centrifuges. There is no dewatered sludge storage at the Latham Plant other than the hauling trailers.

The proposed project will provide a basis of design update, inventory and estimate of remaining life of components, and cost estimates for replacement for the dewatering, digestion, and digestion heating components.

Requests for Proposals

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

- AECOM
- Carollo Engineers
- Hazen & Sawyer
- HDR Engineering
- Lee & Ro

Proposals from Carollo Engineers, Hazen & Sawyer and Lee & Ro were received for this project. The remaining firms did not submit indicating that they did not have the resources available to complete the project in the necessary time.

Discussion/Analysis

Comparison of Proposals

A summary of the proposals is presented in Table 1.

TABLE 1 - PROPOSAL SUMMARY

Firm	Hazen & Sawyer	Lee & Ro	Carollo
Project Manager	Dawn Guendert	Jay Jung	Rashi Gupta
Project Engineer	Sean Pour	Sam Lee	Jeff Weishaar
Principal	Mohammad Abu-orf	Dhiru Patel	Doug Lanning
Subconsultants	None	None	None
Qualifications	Condition Assessments at two treatment facilities	Upgrade and rehabilitation projects on solids handling equipment at multiple treatment facilities	Condition Assessments, Upgrade, and rehabilitation projects on solids handling equipment at multiple treatment facilities
QA/QC	Mohammad Abu-orf	Sal Calderon	Dennis Wood
Total Labor Hours	732	826	474
Project Schedule	Completion by August 2017	Completion by September 7, 2017	Completion by September 7, 2017
Contract Issues	None	None	None
Proposal Requirement Compliance	Complied	Complied	Complied

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

TABLE 2 - PROPOSAL SUMMARY

Firm	Hazen & Sawyer	Lee & Ro	Carollo
Total Fee	\$118,135	\$137,658	\$124,366

The Engineering Committee for Project Committee 2 reviewed each of the proposals. All three proposals were found to be of a high quality; each firm has past experiences with the Latham facility. The Engineering Committee recommended award of contract to Carollo Engineers based on their prior heat modeling of the Latham system as well as their experience with other solids systems condition assessments.

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

Advisory Committee Review

Proposals for engineering services for the J. B. Latham Treatment Plant Dewatering and Digestion System Condition Assessment were reviewed by the Engineering Committee on April 13, 2017. The Engineering Committee recommended award of the engineering services contract to Carollo Engineers.

Fiscal Impact

The budget status of the impacted task items for Project Committee 2 is presented in Table 3.

TABLE 3 - BUDGET STATUS

Task	Cost Center	Budget	Expended to Date	Proposed Engineering Contract	Remainder
Dewatering System Condition Assessment (4002-000)	PC 2 Solids	\$75,000.00	\$0.00	\$46,669.50	\$28,330.50
Digester Gas/Heating System Condition Assessment (4003-000)	PC 2 Solids	\$75,000.00	\$0.00	\$77,696.50	-\$2,696.50
Total		\$150,000.00	\$0.00	\$124,366.00	\$25,634.00

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

TABLE 4 - ALLOCATION OF COST TO MEMBER AGENCY

	Dewatering System Condition Assessment	Digester Gas/Heating System Condition Assessment	Total
	4002-000	4003-000	
Moulton Niguel Water District	\$10,089.95	\$16,797.98	\$26,887.93
City of San Capistrano	\$14,000.85	\$23,308.95	\$37,309.80
Santa Margarita Water District	\$13,244.80	\$22,050.27	\$35,295.07
South Coast Water District	\$9,333.90	\$15,539.30	\$24,873.20
Total	\$46,669.50	\$77,696.50	\$124,366.00

Recommendation

The following action is recommended:

Approval of the award of the engineering services contract to Carollo Engineers at a fee of \$124,366.00.

EXHIBIT A
SCOPE OF SERVICES

Tasks include the following:

- I. Progress Meetings. FIRM shall meet with SOCWA staff no more than three times at SOCWA's Administration building in Dana Point. This does not include site inspections.
- II. Document Review. FIRM shall review all applicable drawings and existing documentation for each assessment.
- III. Dewatering Basis of Design. FIRM shall develop dewatering system basis of design based on existing equipment.
- IV. Dewatering System Condition Assessment. FIRM shall prepare inventory, evaluation, and estimate of remaining life for dewatering components.
- V. Dewatering Cost Estimate. FIRM shall prepare capital cost estimate for replacement of dewatering components identified in Task 4.
- VI. Digester Heating Requirement Evaluation. FIRM shall identify heating requirements for each digester. FIRM shall evaluate heat transfer from co-generation engine to digesters to determine if supplemental heat is required. FIRM shall evaluate existing heat loop and transfer to identify potential improvements in heating efficiency.
- VII. Digester System Condition Assessment. FIRM shall prepare inventory, evaluation, and estimate of remaining life for digestion components including inventory, evaluation, and estimate of remaining life.
- VIII. Digestion System Replacement cost estimate. FIRM shall prepare capital cost estimate for replacement of digestion components identified in Task 7.
- IX. Digester No.4 Condition Assessment. FIRM shall prepare inventory and condition assessment for Digester No.4 structural, coating, mechanical, and electrical components including component replacement cost estimates.
NOTE: The structural assessment is to be based only on visual observations of exterior and reports by SOCWA staff on interior condition.
- X. Technical Memorandum. FIRM shall summarize findings of Tasks 2 through 9 in a technical memorandum. FIRM shall submit draft Technical Memorandum to SOCWA in PDF format for review. FIRM shall provide written response to all review questions and comments provided by SOCWA staff. FIRM shall submit seven hard copies and one electronic cop of final report to SOCWA. FIRM shall provide any tables in EXCEL format and drawings in *.dwg format if requested by SOCWA.

Agenda Item

Budgeted: Yes

Budget Amount: \$1,380,000.00

Line Item: PC 15, Tasks 3507-000, 3508-000, 3503-000, 3550-000, 3554-000, 3510-000, 3512-000, 3562-000, 3517-000

Legal Counsel Review: Yes

Meeting Date: May 4, 2017

TO: Project Committee 15 Board of Directors

FROM: Betty Burnett, General Manager

STAFF CONTACT: Brian Peck, Director of Engineering

SUBJECT: Construction Contract for Olsson Construction for the Coastal Treatment Plant Miscellaneous Improvements 2017 Project

Summary

This agenda item provides a recommendation for actions related to the award of a construction contract to Olsson Construction for the Coastal Treatment Plant (CTP) Miscellaneous Improvements 2017 Project.

Background

The CTP Miscellaneous Improvements 2017 Project includes the following key elements:

1. New Export Sludge Pump and Grinder: Work includes installation of a second export sludge pump, grinder and appurtenances at the existing Export Sludge Pump Station to provide system reliability.
2. Knife Gate Valve Replacement: Work includes replacement of 20-inch tank knife gate valves that direct flow to the grit and primary basins.
3. Grating and Rebate Replacement and Concrete Repair: The grating rebate and concrete on the Basin Complex have deteriorated due to aging, and causing safety concerns. The Work includes replacement of grating and rebate, and restoring deteriorated concrete at select locations around the Basin Complex.
4. Scrubber Sodium Hypochlorite Pump Replacement and Sodium Hydroxide System Heat Tracing and Insulation: Due to the low temperature in the winter at CTP, the sodium hydroxide piping freezes causing periodic operational stoppages. The sodium hypochlorite control pump needs replacement to improve the operation of the system.
5. AWT Filter Supply and Backwash Pump Replacement: The filter supply and backwash pumps replacement will replace aging system components to improve the reliability of the AWT system.

Discussion/Analysis

Bidding Process

Bidding documents were made available to the following list of contractors on February 14, 2017:

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

Four bids were received and opened on March 21, 2017. The results of these bids are summarized in Table 1. The apparent low bidder is Olsson Construction. The detailed bids are presented in Exhibit A.

Table 1 Overall Bid Prices

Contractor	Bid Price
Gateway Pacific	\$1,214,778.00
Olsson Construction	\$ 974,900.00
Pacific Hydrotech	\$1,085,500.00
Pascal & Ludwig	\$1,127,337.00

Bid and Budget Evaluation

A comparison of the Olsson bid amount with the available budget is presented in Table 2. There were two items that were apparent in the review of the bids:

1. Export Sludge Pump and Grinder. The first sludge pump and grinder were installed in 2013 as part of Export Sludge Equalization Project. The proposed cost for this item in the Olsson Bid is over 50% higher than the original 2013 cost.
2. AWT Filter Supply and Backwash Pumps Replacement. The bid price for this item is higher than the budget; however, the pricing is in line with the design cost estimate by Dudek. SOCWA staff underestimated this cost when preparing the original budget.

The Coastal Treatment Plant Miscellaneous Improvements 2017 is split between four work items that are attributable to Project Committee (PC) 15 Liquids and one work item associated with PC 15 AWT. Table 2 shows that there is sufficient budget for the four PC 15 Liquids items; however; the AWT item is underfunded.

Table 2 Budget and Bid Comparison

Item	Available Budget	Bid Amount	Estimated Construction Services Fee	Contingency	
				Amount	%
Export Sludge Pump and Grinder (3550-000)	\$184,300	\$317,000	\$20,000	\$152,700	-48.2%
Knife Gate Valve Replacement (3507-000; 3508-000)	\$135,000	\$78,000	\$10,000	\$47,000	60.3%
Basin Structural Upgrades (3510-000; 3512-000)	\$309,000	\$218,900	\$25,000	\$65,100	29.7%
Odor Control System Improvements (3554-000; 3503-000)	\$425,000	\$81,000	\$25,000	\$319,000	393.8%
AWT Filter Supply and Backwash Pumps Replacement (3517-000; 3562-000)	\$200,100	\$280,000	\$25,000	\$104,900	-37.5%
Total	\$1,253,400	\$974,900	\$105,000	\$173,500	17.8%

Export Sludge Pump

Discussions were conducted with Olsson Construction, the Export Sludge Pump sales representative (Cortech Engineering), and the Export Sludge Pump supplier (Seepex). These entities offered a credit of \$64,000 for the pump. This would reduce the bit item from \$317,000 to \$253,000.

AWT Filter Supply and Backwash Pumps Replacement

SOCWA staff reviewed the AWT line item with SCWD staff. SOCWA staff agreed with the pricing as proposed by Olsson Construction; this pricing is consistent with the Dudek cost estimate. SOCWA proposed increasing the funding for this item by \$150,000 in the Fiscal Year '17/'18 capital improvements budget.

Revised Budget Comparison

The revised budget comparison based on (a) the reduced price for the Export Sludge Pump and (b) the added budget for the Filter Supply and Backwash Water pump is presented in Table 3. The contingency for the PC15 Liquids portion of the project is \$342,400 or 54%; the contingency for the PC15 AWT portion of the project is \$45,100 or 16%.

Table 3 Revised Budget and Bid Comparison

Item	Available Budget	Bid Amount	Estimated Construction Services Fee	Contingency	
				Amount	%
Export Sludge Pump and Grinder (3550-000)	\$184,300	\$253,000	\$20,000	-\$88,700	-35.1%
Knife Gate Valve Replacement (3507-000; 3508-000)	\$135,000	\$78,000	\$10,000	\$47,000	60.3%
Basin Structural Repairs (3510-000; 3512-000)	\$309,000	\$218,900	\$25,000	\$65,100	29.7%
Odor Control System Improvements (3554-000; 3503-000)	\$425,000	\$81,000	\$25,000	\$319,000	393.8%
AWT Filter Supply and Backwash Pumps Replacement (3517-000; 3562-000)	\$350,100	\$280,000	\$25,000	\$45,100	16.1%
Total	\$1,403,400	\$910,900	\$105,000	\$387,500	42.5%

Legal Counsel Review

The proposed change due to the reduced price of the Export Sludge Pump was reviewed with Bowie, Arneson, Wiles & Giannone (BAWG) staff. The recommended actions were as follows:

- Reject all bids
- Negotiate a contract with Olsson Construction at the proposed reduced pricing of \$910,900.

Advisory Committee Review

The Coastal Treatment Plant Miscellaneous Improvements 2017 Project bids were reviewed by the members of the Project Committee 15 Engineering Committee. The Engineering Committee recommended the rejection of bids and award of the reduced price contract to Olsson Construction. The vote on this action was 3 to 1. The representative for the Moulton Niguel Water District (MNWD) did not support the project award as MNWD contends that the Fiscal Year 2016/2017 capital improvement budget was not officially approved.

Fiscal Impact

The proposed contract amount with Olsson Construction is \$ 910,900.

The project ledger for the Coastal Treatment Plant Miscellaneous Improvements 2017 Project is presented in Exhibit B.

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

Table 4 Allocation of Proposed Project Costs

Member Agency	Export Sludge Pump and Grinder (3550-000)	Knife Gate Valve Replacement (3507-000; 3508-000)	Basin Structural Repairs (3510-000; 3512-000)	Odor Control System Improvements (3554-000; 3503-000)	AWT Filter Supply and Backwash Pumps Replacement (3517-000; 3562-000)	Total
Moulton Niguel Water District	\$74,003	\$22,815	\$64,028	\$23,693	\$0	\$184,538
South Coast Water District	\$75,521	\$23,283	\$65,342	\$24,179	\$280,000	\$468,324
City of Laguna Beach	\$95,912	\$29,570	\$82,985	\$30,707	\$0	\$239,174
Emerald Bay Service District	\$7,565	\$2,332	\$6,545	\$2,422	\$0	\$18,864
Total	\$253,000	\$78,000	\$218,900	\$81,000	\$280,000	\$910,900

Requested Action

The following actions are requested:

- Reject all bids
- Approve award of negotiated construction contract to Olsson Construction at a price of \$910,900
- Increase budget for AWT Filter Supply and Backwash Pumps Replacement by \$150,000.

EXHIBIT A - BID SUMMARY
CTP Miscellaneous Improvements 2017

Base Bid Items A - Export Sludge Pump and Grinder			Gateway Pacific	Olsson Construction	Pacific Hydrotech	Pascal & Ludwig
1	Mobilization/Demobilization		\$10,000	\$1,000	\$41,700	\$20,000
2	Installation of New Pump, Grinder and Appurtenances		\$215,000	\$225,000	\$227,300	\$227,000
3	Electrical and Instrumentation		\$95,000	\$88,000	\$96,300	\$111,337
4	Other		\$10,000	\$3,000	\$5,300	\$101,000
	TOTAL BASE BID		\$330,000.00	\$317,000.00	\$370,600.00	\$459,337.00
Base Bid Items B - Grit Tank Knife Gate Valves			Gateway Pacific	Olsson Construction	Pacific Hydrotech	Pascal & Ludwig
1	Mobilization/Demobilization		\$10,000	\$4,000	\$20,000	\$3,000
2	Valve Replacement		\$80,000	\$70,000	\$74,300	\$60,000
3	Other		\$20,000	\$4,000	\$700	
	TOTAL BASE BID		\$110,000.00	\$78,000.00	\$95,000.00	\$63,000.00
Base Bid Items C - Primary Miscellaneous Improvements 2017			Gateway Pacific	Olsson Construction	Pacific Hydrotech	Pascal & Ludwig
1	Mobilization/Demobilization		\$10,000	\$10,000	\$20,000	\$10,000
2	Grating Rebate Replacement and Concrete Repair		\$275,000	\$200,000	\$185,100	\$116,000
3	Other		\$20,000	\$25,000	\$33,800	\$88,000
	TOTAL BASE BID		\$305,000.00	\$235,000.00	\$238,900.00	\$214,000.00
Base Bid Items D - Odor Control Sodium Hypochlorite and Sodium Hydroxide Improvements			Gateway Pacific	Olsson Construction	Pacific Hydrotech	Pascal & Ludwig
1	Mobilization/Demobilization		\$10,000	\$4,000	\$10,000	\$3,000
2	Odor Control System Pump and Heat Tracing		\$88,000	\$60,000	\$41,200	\$69,000
3	Electrical System Improvements		\$40,000	\$16,000	\$20,000	\$15,000
4	Other		\$20,000	\$1,000	\$100	\$4,000
	TOTAL BASE BID		\$158,000.00	\$81,000.00	\$71,300.00	\$91,000.00
Base Bid Items E - AWT Filter Supply and Backwash Pumps			Gateway Pacific	Olsson Construction	Pacific Hydrotech	Pascal & Ludwig
1	Mobilization		\$10,000.00	\$1,000.00	\$25,000.00	\$15,000.00
2	Filter Supply Pump Replacement		\$120,000.00	\$100,000.00	\$99,800.00	\$107,000.00
3	Backwash Pump Replacement		\$136,778.00	\$148,000.00	\$156,600.00	\$152,000.00
4	Filter Supply Pump Electrical		\$10,000.00	\$6,000.00	\$8,900.00	\$3,000.00
5	Backwash Pump Electrical		\$25,000.00	\$20,000.00	\$8,900.00	\$23,000.00
6	Other		\$10,000.00	\$5,000.00	\$10,500.00	
	TOTAL BASE BID		\$311,778.00	\$280,000.00	\$309,700.00	\$300,000.00
	TOTAL ALL BASE BID		\$1,214,778.00	\$991,000.00	\$1,085,500.00	\$1,127,337.00
	ADD/DEDUCT			-\$16,100.00		
	TOTAL AMOUNT OF BID		\$1,214,778.00	\$974,900.00	\$1,085,500.00	\$1,127,337.00

EXHIBIT A - BID SUMMARY
CTP Miscellaneous Improvements 2017
STATEMENTS BY BIDDER

Suppliers	Gateway Pacific	Olsson Construction	Pacific Hydrotech	Pascal & Ludwig
Export Sludge Pump	Seepex	Seepex	Seepex	Seepex
Export Sludge Pump Grinder	JWC	JWC	JWC	JWC
Export Sludge Pump VFD	Toshiba	Toshiba	Toshiba	Toshiba
Horizontal Centrifugal Pump	Cornell	Cornell	Cornell	Cornell
Horizontal Centrifugal Pump VFD	N/A	N/A	N/A	N/A
Vertical Turbine Pumps	Goulds	Goulds	Goulds	Goulds
Vertical Turbine Pump VFD	N/A	N/A	N/A	N/A
Sodium Hypochlorite Pump	Pulsafeeder	Pulsafeeder	Pulsafeeder	Pulsafeeder
Knife Gate Valve	Dezurik	Elite	Beserk	Line Valve/Pratt
PLC	N/A	N/A	N/A	N/A

Subcontractors	Gateway Pacific	Olsson Construction	Pacific Hydrotech	Pascal & Ludwig
Painting and Coating	CL Industrial	MC Painting	Murphy Industrial	MC Painting
Electrical	Maddox Electric	Hydrotech Electric	Maddox Electric	Hydrotech Electric
Pipe Insulation			Preferred Insulation	Karcher

Exhibit B
Project Cost Ledger: Coastal Treatment Plant
Miscellaneous Improvements 2017
(Millions)

	Export Sludge Pump and Grinder	Knife Gate Replacement	Basin Structural Repairs	Odor Control System Imps	AWT Filter Supply and Backwash Pumps	Total
Budget (2016/2017)	0.195	0.135	0.325	0.500	0.375	1.530
Budget Task Codes	3507/3508	3507/3508	3510/3512	3554/3503	3517/3562	
<u>Actual Bid Costs- Constr.</u>	0.253	0.078	0.219	0.081	0.280	0.911
<u>Construction Change Orders</u>	0.000	0.000	0.000	0.000	0.000	0.000
<u>Study & Design (Upfront Costs)</u>	0.011	0.000	0.016	0.075	0.025	0.127
Contingency	-0.0887	0.0470	0.0651	0.3190	0.0451	0.3875
Construction Management	0.020	0.010	0.025	0.025	0.025	0.105
Total Project Costs	0.195	0.135	0.325	0.500	0.375	1.530
<u>Spending</u>						
Total Current Spending	(0.011)	0.000	(0.016)	(0.075)	(0.025)	(0.127)
Remaining Spending	(0.184)	(0.135)	(0.309)	(0.425)	(0.350)	(1.403)
Remaining Budget	0.000	0.000	0.000	0.000	0.000	0.000

Agenda Item

Legal Counsel Review: No

Meeting Date: May 4, 2017

TO: SOCWA Board of Directors

FROM: Betty Burnett, General Manager

STAFF CONTACT: Sean Peacher, Environmental Compliance Safety Risk Manager

SUBJECT: Approval of Resolution 2017-02 – Designation of California Office of Emergency Services Applicant’s Agent for SOCWA

Summary

In order to continue the process to potentially recover costs from damage that occurred during a major winter storm on January 22, 2017, SOCWA is required by the California Office of Emergency Services (Cal OES) to designate an Authorized Agent by Resolution. The approval of this Resolution will allow SOCWA to continue the process in seeking reimbursement for damages that occurred in January 2017.

Discussion/Analysis

On January 22, 2017, SOCWA facilities sustained damages to infrastructure due to a significant storm event in Southern California. SOCWA submitted Initial Damage Assessment Reports with estimated costs to the Orange County Sheriff’s Department Office of Emergency Services (OCSD) to document the storm damages for repair and replacement activities.

On February 10, 2017 SOCWA Staff completed field inspections with OCSD and Cal OES Staff to review the initial damages reported, and on February 16, 2017 SOCWA Staff completed field inspections with OCSD, Cal OES and FEMA Staff of the initial damages.

To supplement state and local efforts, on March 16, 2017, a Major Disaster Declaration (4305-DR) was declared by the President for the storm events that took place January 18, 2017 through January 23, 2017. The Federal cost-share shall not be less than 75% of eligible costs, State cost-share under the California Disaster Assistance Act (CDAA) is 75% of the non-federal share, and the Local share is 6.25%.

In March 2017, SOCWA Staff attended Applicant’s Briefings with Cal OES that provided information on the application procedures, cost eligibility, documentation requirements, payment processing, and deadlines specific to the Federal Public Assistance Program for the Late January 2017 Storms event.

On April 11, 2017, SOCWA submitted FEMA Form 90-49 Request for Public Assistance (RPA) to Cal OES for 4305-DR. Once the RPA has been approved by FEMA, SOCWA staff will be contacted by Cal OES to conduct a Kick-Off Meeting with FEMA.

A Designation of Applicant's Agent Resolution for Non-State Agencies is required of all Applicants to be eligible to receive funding via Cal OES Form 130. Proof of Board approval is required by Cal OES to submit the Form 130. The Form 130 gives the Authorized Agent(s) of SOCWA the authority to sign and provide documents required to be submitted to Cal OES for all matters pertaining to such state disaster assistance. This is a universal resolution and is effective for all open and future disasters up to (3) years following the date of approval.

Recommendation

Staff recommends that the SOCWA Board of Directors approve Resolution 2017-02 – Designation of California Office of Emergency Services Authorized Agents for SOCWA as Betty Burnett (General Manager), Jim Burror (Director of Operations), and Brian Peck (Director of Engineering).

RESOLUTION NO. 2017-02

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

**ADOPTING THE DESIGNATION OF
APPLICANT'S AGENT RESOLUTION FOR NON-STATE AGENCIES**

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, eligibility for reimbursement for flood related damages from the State of California Office of Emergency Services requires a public entity to formally designate "Authorized Agents" to engage with the Federal Emergency Management Agency and the Governor's Office of Emergency Services regarding grants applied for by the South Orange County Wastewater Authority.

NOW, THEREFORE, the Board of Directors of the South Orange County Wastewater Authority does hereby **RESOLVE, DETERMINE** and **ORDER** as follows:

- Section 1. Designates the following positions as "Authorized Agents" for the South Orange County Wastewater Authority (SOCWA): General Manager, Director of Engineering, and Director of Operations regarding grant funding applied for by the Agency.
- Section 2. The General Manager, Director of Engineering and Director of Operations is hereby authorized to execute for and on behalf of the South Orange County Wastewater Authority, a public entity established under the laws of the State of California, this application and to file with the California Governor's Office of Emergency Services for the purposes of obtaining certain federal financial assistance under Public Law 93-288 as amended by the Robert T. Stafford Disaster Relief and Emergency Assistance Act of 1988, and/or state financial assistance under the California Disaster Assistance Act.
- Section 3. South Orange County Wastewater Authority, a public entity established under the laws of the State of California, hereby authorizes its agent(s) to provide to the Governor's Office of Emergency services for all matters pertaining to such state disaster assistance the assurances and agreements required.

ADOPTED, SIGNED, and APPROVED this 4th day of May 2017

SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

By: _____
Chairman

By: _____
Secretary

**DESIGNATION OF APPLICANT'S AGENT RESOLUTION
FOR NON-STATE AGENCIES**

BE IT RESOLVED BY THE Board of Directors OF THE South Orange County Wastewater Authority (SOCWA)
(Governing Body) (Name of Applicant)

THAT Betty Burnett (General Manager), OR
(Title of Authorized Agent)

Jim Burror (Director of Operations), OR
(Title of Authorized Agent)

Brian Peck (Director of Engineering)
(Title of Authorized Agent)

is hereby authorized to execute for and on behalf of the South Orange County Wastewater Authority (SOCWA), a public entity
(Name of Applicant)
established under the laws of the State of California, this application and to file it with the California Governor's Office of Emergency Services for the purpose of obtaining certain federal financial assistance under Public Law 93-288 as amended by the Robert T. Stafford Disaster Relief and Emergency Assistance Act of 1988, and/or state financial assistance under the California Disaster Assistance Act.

THAT the South Orange County Wastewater Authority (SOCWA), a public entity established under the laws of the State of California,
(Name of Applicant)
hereby authorizes its agent(s) to provide to the Governor's Office of Emergency Services for all matters pertaining to such state disaster assistance the assurances and agreements required.

Please check the appropriate box below:

- This is a universal resolution and is effective for all open and future disasters up to three (3) years following the date of approval below.
- This is a disaster specific resolution and is effective for only disaster number(s) N/A

Passed and approved this 4th day of May, 20 17

(Name and Title of Governing Body Representative)

(Name and Title of Governing Body Representative)

(Name and Title of Governing Body Representative)

CERTIFICATION

I, Teri Noson, duly appointed and Executive Assistant/Clerk of the Board of
(Name) (Title)

South Orange County Wastewater Authority (SOCWA), do hereby certify that the above is a true and correct copy of a
(Name of Applicant)

Resolution passed and approved by the Board of Directors of the South Orange County Wastewater Authority (SOCWA)
(Governing Body) (Name of Applicant)

on the 4th day of May, 20 17.

(Signature)

(Title)

Agenda Item

Legal Counsel Review:

Meeting Date: May 4, 2017

TO: Board of Directors

FROM: Betty Burnett, General Manager

STAFF CONTACT: Dina Ash, Human Resources Administrator

SUBJECT: Resolution No. 2017-03 – Commendation for Brennon Flahive

Summary

Brennon Flahive has been employed by SOCWA for 35 years. He will retire on May 12, 2017. Resolution No. 2017-03 commends Mr. Flahive for his services to SOCWA

Fiscal impact

None

Recommendation

Staff recommends the Board approve Resolution No. 2017-03 and authorize Chairman Ferons to sign the Commendation on the behalf of the Board of Directors of the South Orange County Wastewater Authority

RESOLUTION OF COMMENDATION
Resolution No. 2017-03
ADOPTED BY THE BOARD OF DIRECTORS
OF THE
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY
May 4, 2017

**COMMENDATION TO BRENNON FLAHIVE FOR PROVIDING DEDICATED SERVICE TO
THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY AND THE RESIDENTS OF
SOUTHERN ORANGE COUNTY FOR THE PERIOD OF JULY 1982 TO MAY 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: Brennon Flahive began his thirty-five-year career with LA County Sanitation District in operations. Brennon joined IRWD soon after completing his water and wastewater chemistry course work. He left IRWD for MNWD in July 1982 and took a position at MNWD as a lab tech II then moving on up to Lab Manager and serving with MNWD until the conversion of staff to AWMA/SERRA where he continued as Lab Supervisor. In 2000, AWMA/SERRA became a part of SOCWA, and in 2005, Brennon was promoted to Environmental Compliance Administrator. In 2012 Brennon became the Director of Environmental Compliance for SOCWA. His expertise along with his historical knowledge of the SOCWA facilities will be missed.

WHEREAS: Brennon has participated actively in WaterReuse since its formation, and contributed to the SCAP Air Quality Committee where he was instrumental in impacting the digester gas engine rules throughout the SCAQMD region. He participated in successfully negotiating amendments to AQMD Rule 1110.2.

WHEREAS: Brennon was a key player in getting the San Diego Regional Water Quality Control Board to adjust the approach to ocean water quality monitoring. Since the late 1990s, Brennon worked to obtain a reasoned approach to compliance monitoring of the water quality along the Pacific Coastline.

WHEREAS: Brennon spearheaded working with stakeholders to eliminate duplicated monitoring, including working with Departments within Orange County such as the Health Department and County Watersheds, the Regional Board, the NGOs (environmental interests). The stakeholder effort resulted in a streamlined and collaborative approach to NPDES monitoring requirements for storm water, wastewater and AB 411 (beach water quality monitoring requirements), where these 3 programs overlapped. Through Brennon's efforts SOCWA successfully eliminated redundancy in the monitoring program and achieved other efficiency. Brennon also worked to put in place a program whereby the stakeholders would review the monitoring data annually and work proactively to address emerging water quality issues conducting additional water quality studies where needed.

WHEREAS: During Brennon's tenure with SOCWA he has been known as a supportive boss for his staff committed to their betterment and encouraging of their growth in knowledge and opportunity. Brennon has always exhibited a fair-minded approach to each challenge. He has instilled a client based attitude in working with the member agencies, asking staff to remain helpful at all times and in an attitude of service.

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 Brennon Flahive for his dedicated service and commitment to the mission of the South Orange County Wastewater Authority.

**PASSED AND ADOPTED by the Board of Directors of the SOUTH ORANGE COUNTY
WASTEWATER AUTHORITY, County of Orange, State of California on the 4th day May 2017.**

(Seal)

Daniel R. Ferons, Chairman

Betty Burnett,
General Manager and Board Secretary

Agenda Item

Legal Counsel Review: No

Meeting Date: May 4, 2017

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

New Business

Board of Director Elections

Consent Calendar Item F refers to the Chair's decision to set a nominating committee for Board Officers for the coming fiscal year of service, which begins July 1, 2017. The Board by motion and action taken at the June 3, 2010 Board of Directors meeting voted to change the term of the service of the Chairman to a two-year term. The JPA Agreement sets the term for Officer service at 1 year, therefore, the policy of serving the second year for existing officers needs confirmation by vote of the Board at the June 1, 2017 Board of Directors meeting. Should the Chair desire to set aside a two-year service time and hold officer elections, Consent Calendar Item F is a placeholder for establishing a nominating committee. Absent the appointment of a nominating committee by the Chair, the following Officers will be included on the Consent Calendar agenda for confirmation at the June 1, 2017 Board meeting:

Chairman, Dan Ferons
Vice-Chairman, Toni Iseman
Secretary/Treasurer, Betty Burnett
Assistant Secretary, Teri Noson

On or before June 1, 2017, the Board Chair should also consider confirming appointments to the following Committees for the coming fiscal year of service:

Current Finance Committee

Dan Ferons, SMWD
Joone Lopez, MNWD
Dennis Erdman, SCWD (Chair)
Fred Adjarian, ETWD
Toni Iseman, CLB
Ray Miller, CSJC

Current Executive Committee (Set via the Bylaws of Executive Committee)

Dan Ferons (Chairman)
Toni Iseman (Vice Chairman)
Mike Dunbar (Immediate Past Chair)
Joone Lopez, MNWD

South Cove Development Adjacent to JBL Update

- The development is well underway and is anticipated first move ins in July 2017. The development is currently in full compliance with the agreement terms and conditions. The following are some details on the development efforts:
- Construction of the SOCWA Property Line Boundary Wall Height Extension: Work is currently underway on this wall height extension. Approximately 600 of the 900 liner feet of wall has been constructed. The project should be completed by the first week of May 2017. The residential side of the wall will get smoothed out and painted before the landscape installation. The total cost is estimated at \$84,127.
- Status of other site work construction: The majority of the site has been graded and all underground utilities have been installed. Roads have been paved. All storm drains and BMPs have been installed. Installation of the landscape along the SOCWA boundary wall will commence in June, 2017.
- Status of building construction: Construction of the model home complex and the first phase of the project is underway. The buildings appear to be being in conformance with the Project Design Features required in the Memorandum of Understanding dated September 25, 2012:
- Floor Plans: The units closest to the SOCWA on the ends of the "B" Type Buildings are all one bedroom units designated as "affordable units."
- The third-floor plans have been slightly reconfigured from the originally reviewed plans to create a quieter party wall condition.
- There are now eight windows on the north building side of which two are operable. All windows on the third-floor north side are small, high, and glazed with obscure glass. Openable windows are limited too.
 - Air Conditioning: All units in the development will have air conditioning.
 - Double Pane Windows: All windows in each residential unit will be double paned.
- Site Planning: Primary entrances of all units will not face the SOCWA boundary wall.
- Mature Landscaping: While landscaping has yet to be installed, the plans call for mature landscaping along the SOCWA boundary wall.
- Setback: The building setback exceeds the minimum setback required by the City of ten (10) feet. In most cases it is fifteen (15) feet or greater.
- Status of Requirements in the Agreement for Operations and Maintenance of the Storm Water Pump Station: Both SOCWA and The Landowner are current with their individual requirements to date under this Agreement. SOCWA has installed the required meter and the Landowner has paid the required fees and operating expenses as well as filing with SOCWA the Application for the Discharge Permit.
- The developer's White Paper is nearly complete and will be made available to SOCWA once complete, as requested by SOCWA's Board Members.
- Supporting figures on the development are attached and include:

- Current development closing schedule map (1 figure)
- Unit layouts for units along the SOCWA wall (4 figures)

Preliminary RTP Spill Assessment Complete for January 22 Storm

Staff is reviewing the preliminary report for the secondary effluent spill that occurred at the Regional Treatment Plant during the record breaking storm on January 22. The preliminary findings are that there was no definitive evidence of impacts or damage to biological resources. The consultant also prepared a procedure for staff to follow to assess off-site spill impacts, if needed in the future. This new procedure will supplement existing procedures for spills that focus on spill notification and reporting to regulatory agencies.

Kern County Measure E Final Decision Entered

Judge Lloyd Hicks' final decision on the Kern County Measure E was entered on February 23, 2017. There was no change from the tentative decision; the Judge overruled all Kern County's objections to the statement of decision. Each party has 60 days to appeal. As a result, the City of Los Angeles will continue to be able to land apply biosolids to the Green Acres Farm in Kern County. It is anticipated that Kern County will appeal this decision.

Changes to Lab Standards

An expert review panel met 1/31/17 – 2/2/17 to summarize an annual progress report – released draft report of findings on 3/17/17

- Recommendation of Expert Panel – Adopt TNI Standard – with only essential modifications
- 58 essential modifications need to be addressed – However, expert panel feels that TNI standard can be adopted without modifications expressed by stakeholders
- Develop implementation strategy for ELAP members – to be developed
- Third party assessments (TPA) a necessity due to back log of audits by ELAP – POTW Labs employ contractors with possible credit from ELAP – 71% labs current on annual audits, 29% labs not current on annual audit (total 645 labs in California)

The problem with the recommendations by the expert panel (which is stacked with representatives that stand to gain from the adoption of TNI) is that they are not legally enforceable and may represent underground regulations since the modifications will not be codified (http://www.oal.ca.gov/underground_regulations/). ELAP lost their accreditation under NELAP/TNI which it allowed labs in California who wanted to be voluntarily certified under NELAP the option. Because ELAP lost their certification, POTW labs may be impacted by the adoption of TNI.

Impact to the SOCWA lab would result in over 1000 provisions (conservative estimate) related to proving that our lab is producing quality and legally defensible data. This is something that our lab already does by following CWA 40 CFR 136 approved methodologies and Standard Methods. The TNI standards will be burdensome, cost prohibitive and potentially not produce additional value. The prove up of quality would essentially require staff time to produce the necessary paperwork.

In addition, since ELAP has doubled their fees over the last 3 years it still does not have enough revenue to support the audits that it currently needs to accomplish (see above).

SCAP is supporting an effort to send a letter to the State Water Board asking that ELAP make changes/refinements before it adopts a more complex system of accreditation. The State Water Board is scheduled to meet in May 2017 to review the expert panel recommendations and decide how to move forward. SOCWA would be in support of Steve Jepson of SCAP sending comments and would sign onto the comment letter.



34156 Del Obispo St.
Dana Point, CA. 92629

ACTION ITEMS

Board of Directors Meeting

Date: MAY 4, 2017

Items from 4/6/17 Board Meeting

	Director	Follow up	Status
MNWD requests that SOCWA response to Assemblymen Brough's letter to receive notice of when an open PC-15 will be held to discuss MNWD exiting from PC-15.	Lopez	PC 15	Referred to PC 15
MNWD requests that the recent letter sent to Assemblymen Brough on SOCWA letterhead be clarified as to who the letter is from.	Lopez	PC 15	Referred to PC 15
MNWD requests a statement be included in the record that the recent response letter by SOCWA to Assemblymen Brough does not address his concerns outlined in the letter.	Lopez	PC 15	Pending preparation of 4/6 meeting minutes
MNWD requests an open meeting to review the legal powers and authorities of the SOCWA JPA and of the Project Committees. Specific requested items include the following: a. Who can do what? b. Who can take legal action? c. Who is liable? d. Who represents what? e. How these types of businesses are conducted? f. What are the specific protocols for this recent claim issue to MNWD by PC-15	Lopez	SOCWA Counsel	General JPA Overview provided by SOCWA Counsel at 5/4/17 Meeting
MNWD requests a more detailed budget timeline with all the interim steps that the Board needs to approve before a budget can be approved? This includes the labor contract review and approval.	Lopez	GM	Budget Schedule provided at 4/6/17 Meeting; Discussion of Labor Negotiations in Closed Session on 4/6/17 and 4/25/17
MNWD requests an update on the County Auditor Controller letter. Specifically, "What is this letter all about?", and "What is SOCWA doing in response to this letter?"	Lopez	GM	Completed by Staff phone contact to County Auditor
MNWD requests information on when the two-year optional renewal authorization with Davis/Farr, after the first year of the contact, was brought to the Board?	Lopez	GM	Davis/Farr Contract to be considered when FY 15/16 Audit is Complete

MNWD requests an update on how we doing with on our current audit?	Lopez	GM	Schedule to be Reviewed at 5/4 Board Meeting
MNWD requests a copy of the existing contract with Davis and Farr.	Lopez	GM	Completed
MNWD request a schedule of when the following items will be agenized for the Board: a. GM evaluation b. Anonymous employee email to the Board discussion needed c. Closed session: Open PERS case	Lopez	GM	a. Discretion of SOCWA Chair; b. Answered at 4/6/17 meeting c. PERS update scheduled for 6/1/17 Board meeting
MNWD requests that their letter concerning receiving late meeting notices for the PC-15 Committee meetings be included in the record.	Lopez	GM	Pending preparation of 4/6 meeting minutes
MNWD requests a verification in writing that SOCWA staff is still involved with construction contract work at 3A in writing.	Lopez	GM	Pending
MNWD requests the information on Page 18 of the April 2017 Board Book be broken out by PC.	Lopez	GM	Pending
MNWD requests that an item be agenized to walk the Board through the Use Audit process.	Lopez	GM	Pending
MNWD requests information on the \$21 included in PC 3A.	Lopez	GM	Pending
18) MNWD requests that an item be agenized for the financial explanations of the following: a. What are the outstanding issues? b. What are the SOCWA Finance Managers concerns? c. What are the gaps in understanding? d. How do we move forward?	Lopez	GM	Refer to Finance Committee with recommendations to the Board
MNWD requests an explanation for PC3A on certain costs	Lopez	GM	Pending
MNWD requests that type of information for Page 21 of the April 2017 Board Book that was sent to MNWD staff be included in future Board Books.	Lopez	GM	Pending
MNWD requests that all overbudget items in the monthly reports include explanations to explain the overages.	Lopez	GM	Pending
MNWD requests that the reports on legal spending be broken out into more detail to show it by PC and task.	Lopez	GM	Pending
MNWD requests that the Policy on Capitalization discussions be added to the budget approval schedule.	Lopez	GM	Pending