

**NOTICE OF REGULAR MEETING  
OF THE  
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY  
  
ENGINEERING COMMITTEE  
TELECONFERENCE MEETING**

**Join Zoom Meeting by clicking on the link below:**

[SOCWA.zoom](https://socwa.zoom.us/j/87238033828)

**Meeting ID: 872 3803 3828**

**Passcode: 700933**

**March 11, 2021**

**8:30 a.m.**

NOTICE IS HEREBY GIVEN that a Regular Meeting of the South Orange County Wastewater Authority (SOCWA) Engineering Committee was called to be held by Teleconference on **March 11, 2021 at 8:30 a.m.** SOCWA staff will be present and conducting the call at the SOCWA Administrative Office located at 34156 Del Obispo Street, Dana Point, California. This meeting is being conducted via Teleconference pursuant to the California Governor Executive Order N-29-20.

*MEMBERS OF THE PUBLIC ARE INVITED TO PARTICIPATE IN THIS TELECONFERENCE MEETING AND MAY JOIN THE MEETING VIA THE TELECONFERENCE PHONE NUMBER AND ENTER THE ID CODE. THIS IS A PHONE CALL MEETING AND NOT A WEB-CAST MEETING SO PLEASE REFER TO AGENDA MATERIALS AS POSTED WITH THE AGENDA THE WEB-SITE [WWW.SOCWA.COM](http://WWW.SOCWA.COM). ON YOUR REQUEST, EVERY EFFORT WILL BE MADE TO ACCOMMODATE PARTICIPATION. IF YOU REQUIRE ANY SPECIAL DISABILITY RELATED ACCOMMODATIONS, PLEASE CONTACT THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY SECRETARY'S OFFICE AT (949) 234-5452 AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO THE SCHEDULED MEETING TO REQUEST DISABILITY RELATED ACCOMMODATIONS. THIS AGENDA CAN BE OBTAINED IN ALTERNATE FORMAT UPON REQUEST TO THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY'S SECRETARY AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO THE SCHEDULED MEETING.*

*AGENDA EXHIBITS AND OTHER WRITINGS THAT ARE DISCLOSABLE PUBLIC RECORDS DISTRIBUTED TO ALL, OR A MAJORITY OF, THE MEMBERS OF THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY ENGINEERING COMMITTEE IN CONNECTION WITH A MATTER SUBJECT FOR DISCUSSION OR CONSIDERATION AT AN OPEN MEETING OF THE ENGINEERING COMMITTEE ARE AVAILABLE BY PHONE REQUEST MADE TO THE AUTHORITY ADMINISTRATIVE OFFICE AT 949-234-5452. THE AUTHORITY ADMINISTRATIVE OFFICES ARE LOCATED AT 34156 DEL OBISPO STREET, DANA POINT, CA ("AUTHORITY OFFICE"). IF SUCH WRITINGS ARE DISTRIBUTED TO MEMBERS OF THE ENGINEERING COMMITTEE LESS THAN SEVENTY-TWO (72) HOURS PRIOR TO THE MEETING, THEY WILL BE SENT TO PARTICIPANTS REQUESTING VIA EMAIL DELIVERY. IF SUCH WRITINGS ARE DISTRIBUTED IMMEDIATELY PRIOR TO, OR DURING, THE MEETING, THEY WILL BE AVAILABLE IMMEDIATELY ON VERBAL REQUEST TO BE DELIVERED VIA EMAIL TO REQUESTING PARTIES.*

**AGENDA**

- 1. Call Meeting to Order**
- 2. Public Comments**

*THOSE WISHING TO ADDRESS THE ENGINEERING COMMITTEE ON ANY ITEM LISTED ON THE AGENDA WILL BE REQUESTED TO IDENTIFY AT THE OPENING OF THE MEETING AND PRIOR TO THE CLOSE OF THE MEETING. THE AUTHORITY REQUESTS THAT YOU STATE YOUR NAME WHEN MAKING THE REQUEST IN ORDER THAT YOUR NAME MAY BE CALLED TO SPEAK ON THE ITEM OF INTEREST. THE CHAIR OF THE MEETING WILL RECOGNIZE SPEAKERS FOR COMMENT AND GENERAL MEETING DECORUM SHOULD BE OBSERVED IN ORDER THAT SPEAKERS ARE NOT TALKING OVER EACH OTHER DURING THE CALL.*

**3. Approval of Minutes**

- Engineering Committee Meeting of February 11, 2021

**Recommended Action:** Staff recommends the Engineering Committee to approve Minutes as submitted.

**4. Operations Report**

**Recommended Action:** Information Item

**5. Capital Improvement Construction Projects Report**

**Recommended Action:** Staff recommends that the Engineering Committee recommend to the PC-15 Board to approve Change Orders 15 through 21 totaling of \$87,320.

**6. FY 21-22 Budget Flows and Solids Projections**

**Recommended Action:** Staff recommends that the Engineering Committee recommend to the Board of Directors to Utilize the flow and solids numbers contained herein and/or provide additional flow and solids allocations to staff by March 15, 2021 for the FY 21/22 SOCWA Budget planning purposes.

**7. Regional Treatment Plant Aeration PLC Upgrade  
[Project Committee 17]**

**Recommended Action:** Staff recommends that the Engineering Committee recommend to the PC 17 Board to award the contract to Tesco in the amount of \$98,980 for the aeration PLC upgrade for the Regional Treatment Plant Aeration System.

**8. Coastal Treatment Plant Sludge Force Main Replacement Project  
[Project Committee 15]**

**Recommended Action:** Staff recommends that the Engineering Committee recommend to the PC 15 Board to award the time and materials contract to Ninyo & Moore in the amount of \$65,790 for the Geotechnical services during construction for the Coastal Treatment Plant Sludge Force Main Project.

**Recommended Action:** Information Item

**9. SOCWA Engineering Capital Improvements Updated Draft Budget**

**Recommended Action:** Information Item

**Adjournment**

I hereby certify that the foregoing Notice was personally emailed or mailed to each member of the SOCWA Engineering Committee at least 72 hours prior to the scheduled time of the Regular Meeting referred to above.

I hereby certify that the foregoing Notice was posted at least 72 hours prior to the time of the above-referenced Engineering Committee meeting at the usual agenda posting location of the South Orange County Wastewater Authority and at [www.socwa.com](http://www.socwa.com).

Dated this 4th day of March 2021.



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

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

**DRAFT**

**February 11, 2021**

The Regular Meeting of the South Orange County Wastewater Authority (SOCWA) Engineering Committee Meeting was held on February 11, 2021, at 8:30 a.m. via teleconferencing from the Administrative Offices located at 34156 Del Obispo Street, Dana Point, California. The following members of the Engineering Committee were present via Teams Meeting:

DAVID SHISSLER	City of Laguna Beach
MIKE MARQUIS	City of San Juan Capistrano
BOBBY YOUNG	El Toro Water District
MIKE DUNBAR	Emerald Bay Service District
KEVIN BURTON	Irvine Ranch Water District
ROD WOODS	Moulton Niguel Water District
DON BUNTS	Santa Margarita Water District
MARC SERNA	South Coast Water District
LORRIE LAUSTEN	Trabuco Canyon Water District

Absent:

DAVE REBENS DORF	City of San Clemente
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Staff Present:

BETTY BURNETT	General Manager
JASON MANNING	Director of Engineering
DAVID BARANOWSKI	Senior Engineer
RONI YOUNG	Associate Engineer
JIM BURROR	Director of Operations
DANIEL VASQUEZ	Chief Mechanic
JEANETTE COTINOLA	Procurement/Contracts Administrator
DANITA HIRSH	Executive Assistant

Also Present:

DENNIS ERDMAN	South Coast Water District
TARYN KJOSLINGS	South Coast Water District
MATT COLLINGS	Moulton Niguel Water District
JESUS GARIBAY	Moulton Niguel Water District

**1. Call Meeting to Order**

Mr. Manning, Director of Engineering called the meeting to order at 8:31 a.m.

**2. Public Comments**

None

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### **3. Approval of Minutes**

#### **a. Engineering Committee Meeting of January 14, 2021**

- Noted to corrections:
  - Year of the Minutes in the heading and in 1<sup>st</sup> paragraph.
  - Verify Mr. Kevin Burton was in attendance.
  - Correct typos in 1<sup>st</sup> and 2<sup>nd</sup> paragraphs of agenda item 5.

#### **ACTION TAKEN**

Motion was made by Mr. Dunbar seconded by Mr. Woods to approve the Engineering Committee Minutes of January 14, 2021 as corrected.

Motion Carried: Aye 7, Nay 0, Abstained 2, Absent 1

David Shissler (CLB)	Abstain
Dave Rebensdorf (CSC)	Absent
Mike Marquis (CSJC)	Aye
Mike Dunbar (EBSD)	Aye
Bobby Young (ETWD)	Aye
Kevin Burton (IRWD)	Abstain
Rod Woods (MNWD)	Aye
Marc Serna (SCWD)	Aye
Don Bunts (SMWD)	Aye
Lorrie Lausten (TCWD)	Aye

### **4. Operations Status Report**

Mr. Burror reported on the multiple construction projects keeping the Operations staff very busy. He noted there were a combination challenges that have occurred with Coastal export sludge line with one of the valves burning out as well as the primary flow meter. He noted that the plant received a lot of material from Laguna Beach during the process and had to truck 6 to 7 loads out to make space and allow staff to get the system back online. Mr. Burror stated additionally, a barrel was offline and is full of water which may be due to a broken valve preventing the sludge to have proper flow. He noted that the systems need to be carefully monitored when these types of challenges come up. An open discussion ensued.

Ms. Baylor informed the committee of items to expect at the next Engineering Committee meeting in March. She noted that Mr. Manning will be distributing the flows and solids for July 1, 2020 through December 1, 2020 to the member agencies to review the data in the similar manner as the Use Audit process using the same methodology that's been applied each year. The item will be agendized for the March Engineering Committee Meeting and will be seeking member agencies input. Ms. Baylor also stated that staff is diligently going through the numbers so that member agencies can be briefed on what the coming budget year is going to look like.

Ms. Baylor stated she has kept the committee informed through information updates on the efforts of the Plume tracking exercises and monitoring the NPDES Permits. She noted there had been a slight reduction in the potential cost for the Plume tracking by way of a competitive bid process from Encina Wastewater Authority. Ms. Baylor commented that there still may be an increase of up to 500k due to new regulatory requirements additional Plume tracking, and potential monitoring related to HF183. She stated that in addition to the permit cycle, the Regional Board is requesting a Climate Action Plan to be included. She anticipated the draft permit to be completed by the end of the fiscal year in order to be able to be adopted by the Board between July 1<sup>st</sup> or August this year. An open discussion ensued.

This was an information item; no action was taken.

**5. Capital Improvement Construction Projects Report**

The Engineering staff reported on the project status of project progress for the JB Latham Treatment Plant Package B, San Juan Creek Ocean Outfall Junction Structure Rehabilitation, the Coastal Treatment Plant Facility Improvements, and the Regional Treatment Plant Miscellaneous Improvements 2018 projects. An open discussion ensued.

This was an information item; no action was taken.

**6. San Juan Creek Ocean Outfall Junction Structure Rehabilitation Project**

Mr. Manning gave a presentation of photos showing the ongoing progress being made at the project site (see attached photos herewith). An open discussion ensued.

This was an information item; no action was taken.

**7. Regional Treatment Plant (RTP) Aeration Diffuser Upgrade Project Construction Bids [Project Committee 17]**

Mr. Manning reported that several contractors were invited to bid on replacing the existing Parkson Panels that are no longer supported. He stated the aeration header will also be modified to allow for four-zone manual control.

Mr. Manning noted that of the three bidders who responded the lowest bidder was JR Filanc, and the project applies to Liquids only and would be 100% of Moulton Niguel's responsibility.

**ACTION TAKEN**

Moulton Niguel agreed to accept the recommendation of JR Filanc as the appropriate contractor to perform the work.

**8. SOCWA Capital Improvements Initial Draft Budget**

Mr. Manning gave a presentation on the 1<sup>st</sup> draft of SOCWA Proposed CIP Budget. An open discussion ensued.

This was an information item; no action was taken.

**Adjournment**

There being no further business, Mr. Manning adjourned the meeting at 9:56 a.m.

I HEREBY CERTIFY that the foregoing Minutes are a true and accurate copy of the Minutes of the Regular Meeting of the South Orange County Wastewater Authority Engineering Committee of February 11, 2021 and approved by the Engineering Committee and received and filed by the Board of Directors of the South Orange County Wastewater Authority.



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







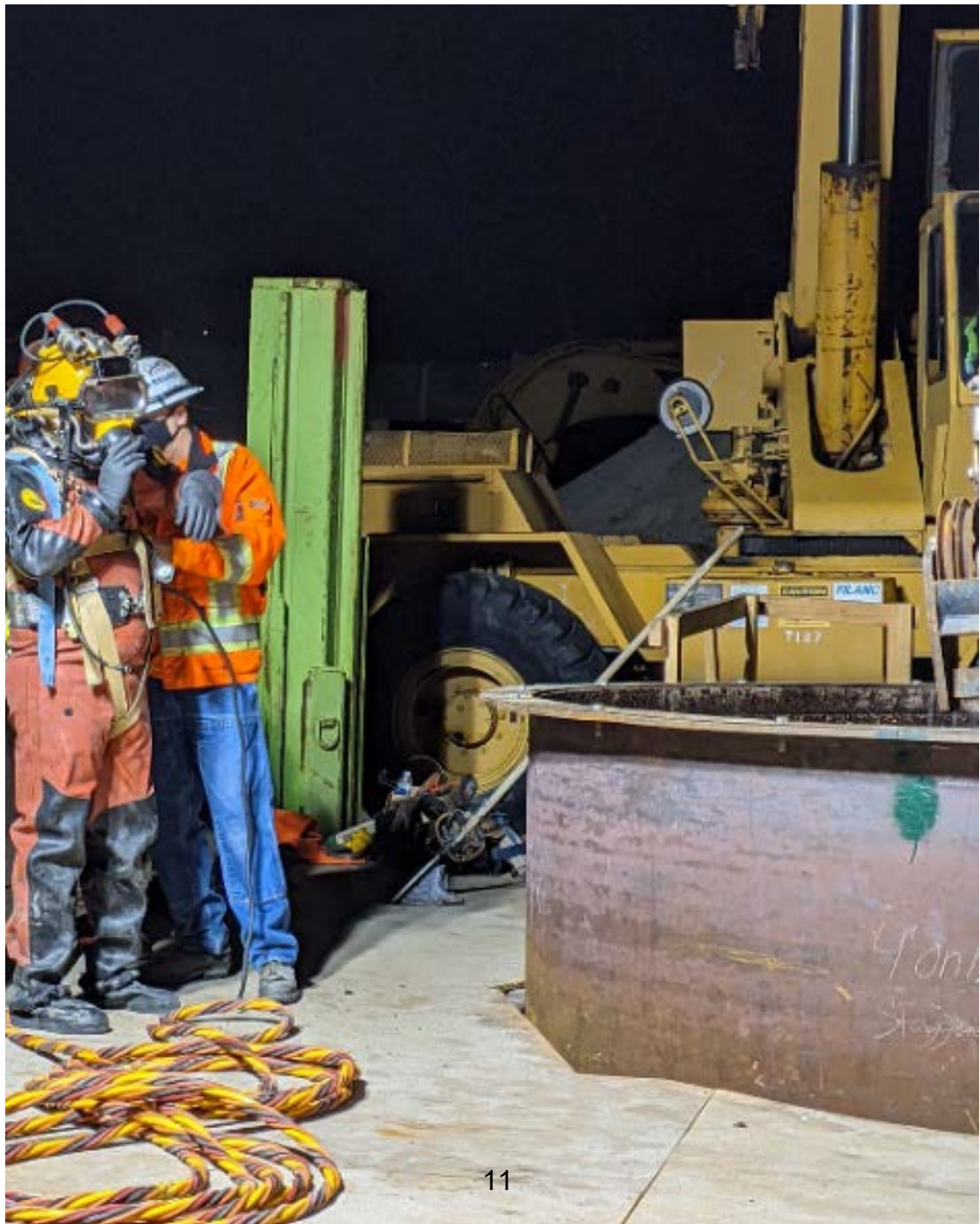


















# Agenda Item

# 5

**Engineering Committee Meeting**

**Meeting Date:** March 11, 2021

**TO:** Engineering Committee  
**FROM:** Jason Manning, Director of Engineering  
**SUBJECT:** Capital Improvement Construction Projects Report

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## Overview

### *Active Construction Project Updates:*

Attached are the updated CIP reports. Please note that there are seven new change orders for PC 15 Coastal Treatment Plant Facility Improvements projects totaling \$87,320.

As a reminder, all change orders including those within the General Manager's purchasing authority (less than \$50,000) and within the project contingency will be presented in this report and then to the Board of Directors. This is in accordance with the current purchasing policy, the change order procedure update provided to Engineering Committee in November 2019 and the contingencies approved by the Board in December 2019.

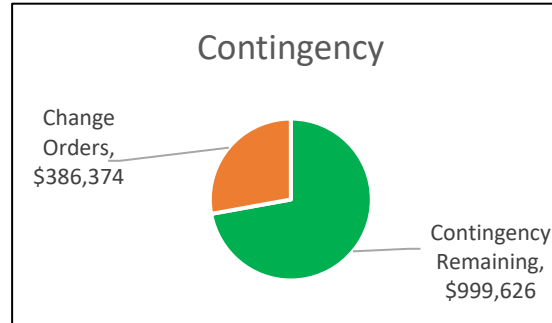
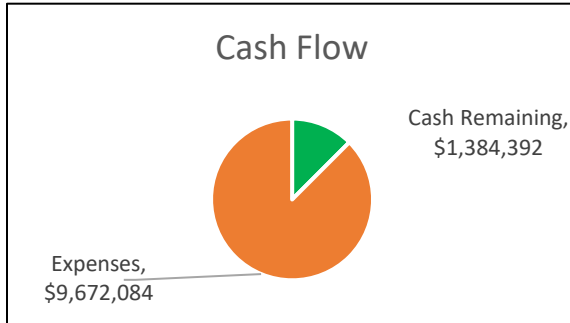
**Recommended Action:** Staff recommends that the Engineering Committee recommend to the PC-15 Board to approve Change Orders 15 through 21 totaling of \$87,320.

**Project Financial Status**

**Data Last Updated**

February 23, 2021

Project Committee	2
Project Name	Package B
Project Description	Plant 1 basin repairs, DAF rehabilitation, Energy Building seismic retrofit and minor rehabilitation, Digester 4 rehabilitation



**Cash Flow**

Collected	\$11,056,476
Expenses	\$9,672,084

**Project Completion**

Schedule	63%
Budget	44%

**Contracts**

Company	PO No.	Original	Change Orders	Total	Paid
Olsson	13497	\$ 17,325,000	\$ 386,374	\$ 17,711,374	\$ 7,107,332
Butier	13647	\$ 1,055,325	\$ -	\$ 1,055,325	\$ 786,373
Carollo	13616	\$ 846,528	\$ -	\$ 846,528	\$ 686,755
TetraTech	13605	\$ 94,000	\$ -	\$ 94,000	\$ 81,837
		<b>\$ 19,320,853</b>	<b>\$ 386,374</b>	<b>\$ 19,707,227</b>	<b>\$8,662,297</b>

**Contingency**

Area	Project Code	Amount	Change Orders	Total Remaining	Percent Used
Liquids	3220-000	\$ 616,800	\$ 73,170	\$ 543,630	11.9%
Common	3231-000	\$ 96,800	\$ -	\$ 96,800	0.0%
Solids	3287-000	\$ 672,400	\$ 313,204	\$ 359,196	46.6%
		<b>\$ 1,386,000</b>	<b>\$ 386,374</b>	<b>\$ 999,626</b>	<b>27.9%</b>

**Change Orders**

Change Order No.	Vendor Name	Project ID	Description	Status	Status Date	Potential Change Amount	Final Amount
1	Olsson	3287-000	Addition of Loop Piping to the Existing Hot Water Lines Adjacent to Digester 3	Approved by Board of Directors	12/12/2019		\$ 4,725
2	Olsson	3287-000	Asbestos Gaskets in Boiler hazardous disposal	Approved by Board of Directors	6/4/2020		\$ 6,343
3	Olsson	3287-000	Add Analog Infrastructure and Cabling	Approved by Board of Directors	6/4/2020		\$ 37,970
4	Olsson	3287-000	Digester 4 Coating Additional Sealant	Approved by Board of Directors	6/4/2020		\$ 24,002
5	Olsson	3220-000	Valve Handwheel Ergonomic extension	Approved by Board of Directors	8/6/2020		\$ 16,370
6	Olsson	3287-000	Change to DeZurik Plug Valves to match existing	Approved by Board of Directors	8/6/2020		\$ 41,994
7	Olsson	3287-000	Digester 4 Additional Concrete Repair	Approved by Board of Directors	8/6/2020		\$ 7,413
8	Olsson	3287-000	Repair Existing Damaged Electrical Box	Approved by Board of Directors	8/6/2020		\$ (1,829)

Change Order No.	Vendor Name	Project ID	Description	Status	Status Date	Potential Change Amount	Final Amount
9	Olsson	3220-000	Change the Telescoping Valve Boxes and Piping from Carbon Steel to Stainless Steel	Approved by Board of Directors	8/6/2020		\$ 18,678
10	Olsson	3287-000	Duct bank J Interferences	Approved by Board of Directors	12/17/2020		\$ 73,639
11	Olsson	3220-000	Blasting of Existing Influent Pipe Spools	Approved by Board of Directors	12/17/2020		\$ 20,869
12	Olsson	3220-000	Duct bank K Interferences	Approved by Board of Directors	12/17/2020		\$ 15,567
13	Olsson	3287-000	Digester 3/4 PLC Relocation	Approved by Board of Directors	12/17/2020		\$ 41,368
14	Olsson	3287-000	Digester 4 Additional Tank Repair	Approved by Board of Directors	12/17/2020		\$ 34,800
15	Olsson	3220-000	Duct bank O Interferences	Approved by Board of Directors	12/17/2020		\$ 1,687
16	Olsson	3287-000	Digester 3/4 Control Building Roof Replacement	Approved by Board of Directors	2/4/2021		\$ 42,780

Change Order No.	Vendor Name	Project ID	Description	Status	Status Date	Potential Change Amount	Final Amount
PCO 002	Olsson	3287-000	Digester 4 Rail Coating. The coating is not needed and resulting in a credit but some rehabilitation work will be needed.	Potential Change	(blank)	-\$1,000	
PCO 004	Olsson	3287-000	Digester 4 Control Narrative needed	Potential Change	(blank)	\$5,000	
PCO 005	Olsson	3287-000	TWAS Slab Modifications	Potential Change	(blank)	\$50,000	
PCO 007	Olsson	3287-000	Relocation of MCC-F1	Potential Change	(blank)	\$40,000	
PCO 008	Olsson	3287-000	Conduit Routing Conflict from MCC-F1	Potential Change	(blank)	\$15,000	
PCO 009	Olsson	3287-000	PLC East Headworks Integration	Potential Change	(blank)	\$5,000	
PCO 012	Olsson	3287-000	PCL-CG Integration	Potential Change	(blank)	\$5,000	
PCO 014	Olsson	3287-000	Digester 4 Compressor Supply Line	Potential Change	(blank)	\$18,146	
PCO 018	Olsson	3287-000	Duct bank L Interferences	Potential Change	(blank)	\$5,000	
PCO 026	Olsson	3287-000	Gas Hatch Lids Mating Connection	Potential Change	(blank)	\$7,771	
PCO 028	Olsson	3287-000	4" Gas Line Routing Modifications	Potential Change	(blank)	\$18,147	

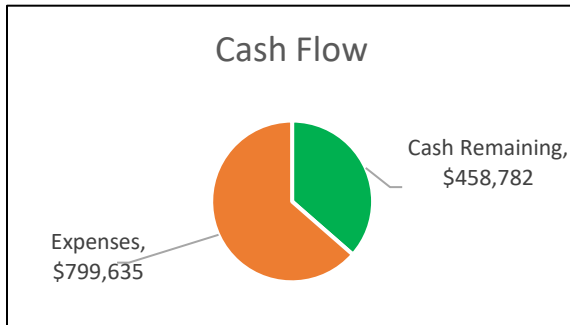
Change Order No.	Vendor Name	Project ID	Description	Status	Status Date	Potential Change Amount	Final Amount
PCO 032	Olsson	3287-000	Gas Mixer Conduit Conflict	Potential Change	(blank)	\$12,384	
PCO 037	Olsson	3231-000	Energy Building Monorail and Other Conflicts	Potential Change	12/10/2020	\$10,000	
PCO 039	Olsson	3220-000	Diversion Structure Gate Actuator Power Feed Replacement	Potential Change	8/13/2020	\$5,000	
PCO 049	Olsson	3287-000	MCC-D1 Modifications due to Change in Motor Size	Potential Change	12/2/2020	\$20,000	
PCO 050	Olsson	3220-000	Telescoping Valves Rework	Potential Change	12/23/2020	\$30,000	
PCO 56	Olsson	3287-000	Integrator Additional Site Visits	Potential Change	3/11/2021	\$8,000	
Grand Total						\$253,448	\$ 386,374

**Project Financial Status**

Project Committee	5
Project Name	San Juan Creek Ocean Outfall Junction Structure Rehabilitation
Project Description	Insertion of duplex stainless steel sleeve to reinforce Junction Structure on Doheny Beach

**Data Last Updated**

February 23, 2021



**No Contingency**

**Cash Flow**

Collected	\$1,258,417
Expenses	\$799,635

**Project**

**Completion**

Schedule	78%
Budget	56%

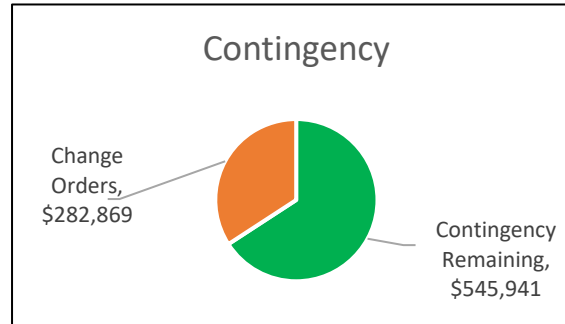
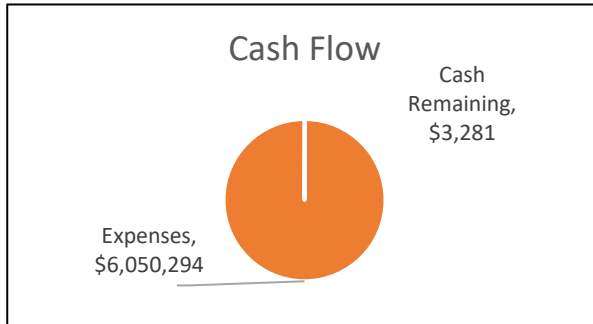
**Contracts**

Company	PO No.	Original	Change Orders	Total	Paid
Filanc	15575	\$ 1,041,572	\$ -	\$ 1,041,572	\$ 582,525
Black & Veatch	13880	\$ 169,366	\$ -	\$ 169,366	\$ 145,364
Dudek	15948	\$ 89,668	\$ -	\$ 89,668	\$ -
		<b>\$ 1,300,606</b>	<b>\$ -</b>	<b>\$ 1,300,606</b>	<b>\$727,889</b>

**Project Financial Status**

Project Committee	15
Project Name	Facility Improvements
Project Description	New ferric chloride system, new collection equipment in East Sedimentation basins, concrete repair, structural improvements, new switchgear and numerous electrical upgrades

**Data Last Updated**  
February 23, 2021



**Cash Flow**

Collected	\$6,053,575
Expenses	\$6,050,294

**Project Completion**

Schedule	86%
Budget	54%

**Contracts**

Company	PO No.	Original	Change Orders	Total	Paid
PCL	13751	\$ 9,209,000	\$ 282,869	\$ 9,491,869	\$ 4,961,581
Butier	13647	\$ 812,288	\$ -	\$ 812,288	\$ 597,288
Hazen & Sawyer	13648	\$ 490,484	\$ -	\$ 490,484	\$ 244,829
		<b>\$ 10,511,772</b>	<b>\$ 282,869</b>	<b>\$ 10,794,641</b>	<b>\$5,803,697</b>

**Contingency**

Area	Project Code	Amount	Change Orders	Total Remaining	Percent Used
Liquids	3539-000	\$ 828,810	\$ 282,869	\$ 545,941	34.1%
		<b>\$ 828,810</b>	<b>\$ 282,869</b>	<b>\$ 545,941</b>	<b>34.1%</b>



**Change Orders**

Change Order No.	Vendor Name	Project ID	Description	Status	Status Date	Potential Change Amount	Final Amount
1	PCL	3539-000	Additional Potholing	Approved by Board of Directors	8/6/2020		\$ 22,936
2	PCL	3539-000	Gas Line Replacement	Approved by Board of Directors	8/6/2020		\$ 41,006
3	PCL	3539-000	Main Switchgear Building Underground Conflicts	Approved by Board of Directors	8/6/2020		\$ 8,683
4	PCL	3539-000	Mud Valve Bolt Removal	Approved by Board of Directors	8/6/2020		\$ 6,577
5	PCL	3539-000	Additional Anchor Bolt Removal	Approved by Board of Directors	8/6/2020		\$ 15,271
6	PCL	3539-000	Slide Gate Concrete Repair	Approved by Board of Directors	8/6/2020		\$ 3,396
7	PCL	3539-000	Sludge Collector Wear Strips	Approved by Board of Directors	8/6/2020		\$ 5,304
8	PCL	3539-000	SCE Transformer Slab Box	Approved by Board of Directors	9/3/2020		\$ 4,378
9	PCL	3539-000	Duct Bank 5 Buried Utility Conflicts	Approved by Board of Directors	10/1/2020		\$ 32,224
10	PCL	3539-000	Telescoping Valve Modifications	Approved by Board of Directors	10/1/2020		\$ 36,067
11	PCL	3539-000	Secondary Effluent Channel Improvements	Approved by Board of Directors	12/17/2020		\$ 5,153
12	PCL	3539-000	Portable Generator Tap Enclosures in Buildings 2 & 15	Approved by Board of Directors	12/10/2020		\$ 18,356
13	PCL	3539-000	Conduit, wiring, and mounting of LL1 fixtures	Approved by Board of Directors	12/10/2020		\$ 5,001

Change Order No.	Vendor Name	Project ID	Description	Status	Status Date	Potential Change Amount	Final Amount
14	PCL	3539-000	MCC Feeder Credit	Approved by Board of Directors	2/4/2021		\$ (8,803)
15	PCL	3539-000	Switchgear Building Concrete Repair	Within contingency, to be reviewed by Engineering Committee	3/11/2021		\$ 40,144
16	PCL	3539-000	Sludge Collector Mounting Plate Replacement	Within contingency, to be reviewed by Engineering Committee	3/11/2021		\$ 10,623
17	PCL	3539-000	Basin Leaking Crack Repair in East Secondaries	Within contingency, to be reviewed by Engineering Committee	3/11/2021		\$ 1,863
18	PCL	3539-000	Additional Spall Repair - Grit Channels	Within contingency, to be reviewed by Engineering Committee	3/11/2021		\$ 26,405
19	PCL	3539-000	Mixed Liquor Channel Remobilization	Within contingency, to be reviewed by Engineering Committee	3/11/2021		\$ 5,323
20	PCL	3539-000	Building 10 Roof Repairs	Within contingency, to be reviewed by Engineering Committee	3/11/2021		\$ 2,245
21	PCL	3539-000	Building 8 Gas Line Rerouting	Within contingency, to be reviewed by Engineering Committee	3/11/2021		\$ 717

Change Order No.	Vendor Name	Project ID	Description	Status	Status Date	Potential Change Amount	Final Amount
PCO 006	PCL	3539-000	Additional Pothole Paving	Potential Change	(blank)	\$5,000	
PCO 013	PCL	3539-000	Ferric Containment Foundation	Potential Change	(blank)	\$15,000	
PCO 015	PCL	3539-000	RAS Channel Modification Descope	Potential Change	(blank)	-\$2,000	
PCO 016	PCL	3539-000	Spray Water Piping Replacement	Potential Change	(blank)	\$1,500	
PCO 024	PCL	3539-000	Drainage Pump Station Descope	Potential Change	(blank)	-\$400,000	
PCO 026	PCL	3539-000	Additional Spall Repair - East Secondary Basins	Potential Change	(blank)	\$10,000	
PCO 028	PCL	3539-000	Ops Building Gas Line Relocation	Potential Change	(blank)	\$5,000	
PCO 029	PCL	3539-000	Building 15 Concrete Restoration	Potential Change	(blank)	\$20,000	
PCO 031	PCL	3539-000	Roll Up Door Fascia	Potential Change	(blank)	\$3,000	
PCO 035	PCL	3539-000	Grit Chamber Conflicts	Potential Change	(blank)	\$20,000	
PCO 038	PCL	3539-000	Aeration Channel Conflicts	Potential Change	(blank)	\$8,000	
PCO 040	PCL	3539-000	Helical Skimmer Wiring	Potential Change	(blank)	\$2,000	
PCO 044	PCL	3539-000	Building 10 Wall Repair	Potential Change	(blank)	\$2,000	
PCO 046	PCL	3539-000	1/2" Ferric Line Conflicts	Potential Change	(blank)	\$5,000	

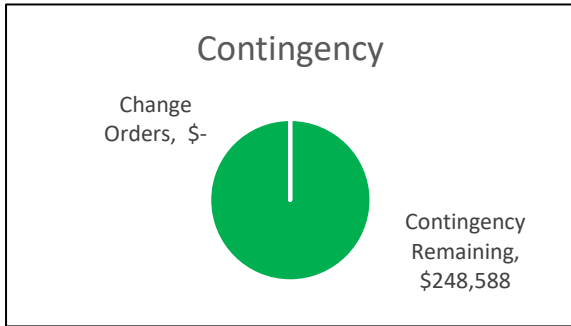
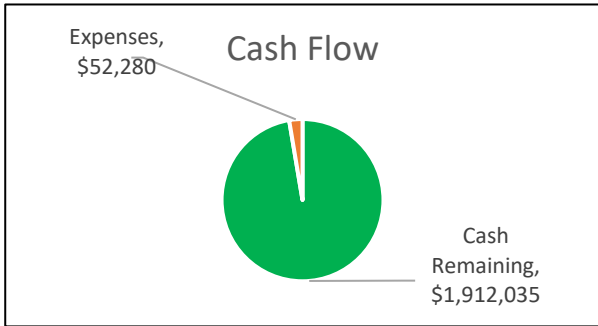
Change Order No.	Vendor Name	Project ID	Description	Status	Status Date	Potential Change Amount	Final Amount
PCO 047	PCL	3539-000	West Telescoping Valve Improvements	Potential Change	(blank)	\$25,000	
PCO 048	PCL	3539-000	West Secondary Effluent Channel Concrete Repair	Potential Change	(blank)	\$20,000	
PCO 049	PCL	3539-000	Removal of Scope - West Basin Sludge/Scum Collection Equipment	Potential Change	(blank)	-\$300,000	
PCO 050	PCL	3539-000	RAS Box Leaks	Potential Change	(blank)	\$0	
PCO 051	PCL	3539-000	Grit Grating Modifications	Potential Change	(blank)	\$0	
Grand Total						-\$560,500	\$ 282,869

**Project Financial Status**

Project Committee	15
Project Name	Export Sludge Forcemain Replacement
Project Description	New 6-inch HDPE force main replacing ageing 4-inch (x2) lines from the Coastal Treatment Plant to the Regional Treatment Plant through Aliso Canyon

**Data Last Updated**

February 23, 2021



**Cash Flow**

Collected	\$1,964,315
Expenses	\$52,280

**Project Completion**

Schedule	18%
Budget	1%

**Contracts**

Company	PO No.	Original	Change Orders	Total	Paid
Filanc	15949	\$ 3,107,346	\$ -	\$ 3,107,346	\$ 50,000
Butier	13647	\$ 226,100	\$ -	\$ 226,100	\$ -
PSOMAS	15961	\$ 277,368	\$ -	\$ 277,368	\$ -
Dudek	15947	\$ 387,750	\$ -	\$ 387,750	\$ -
		<b>\$ 3,998,564</b>	<b>\$ -</b>	<b>\$ 3,998,564</b>	<b>\$50,000</b>

**Contingency**

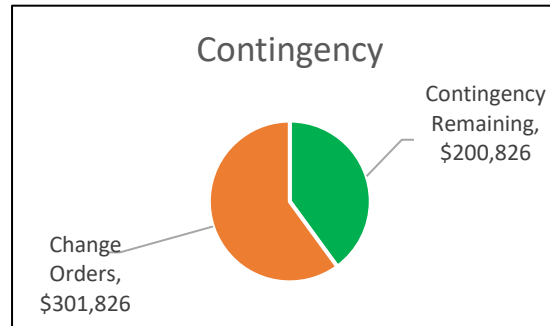
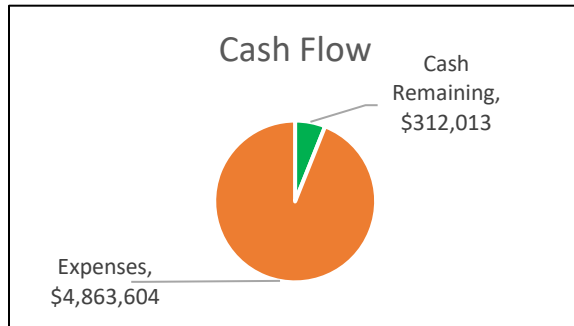
Area	Project Code	Amount	Change Orders	Total Remaining	Percent Used
Liquids	3541-000	\$ 248,588	\$ -	\$ 248,588	0.0%
		<b>\$ 248,588</b>	<b>\$ -</b>	<b>\$ 248,588</b>	<b>0.0%</b>

**Project Financial Status**

**Data Last Updated**

Project Committee	17
Project Name	Miscellaneous Improvements 2018
Project Description	Secondary electrical upgrades and Primary Gallery rehabilitation, installation of access walkway and Energy Building roof

February 23, 2021
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**Cash Flow**

Collected	\$5,175,617
Expenses	\$4,863,604

**Project Completion**

Schedule	97%
Budget	91%

**Contracts**

Company	PO No.	Original	Change Orders	Total	Paid
Filanc	13678	\$ 4,181,205	\$ 241,166	\$ 4,422,371	\$ 4,032,349
Dudek	14164	\$ 137,625	\$ 60,660	\$ 198,285	\$ 162,426
Lee & Ro	14006	\$ 123,310	\$ -	\$ 123,310	\$ 123,213
		<b>\$ 4,442,140</b>	<b>\$ 301,826</b>	<b>\$ 4,743,966</b>	<b>\$ 4,317,987</b>

**Contingency**

Area	Project Code	Amount	Change Orders	Total Remaining	Percent Used
Liquids	3701-000	\$ 343,593	\$ 274,058	\$ 69,535	79.8%
Common	3769-000	\$ 4,545	\$ -	\$ 4,545	0.0%
Solids	3751-000	\$ 154,514	\$ 27,768	\$ 126,746	18.0%
		<b>\$ 502,652</b>	<b>\$ 301,826</b>	<b>\$ 200,826</b>	<b>60.0%</b>

**Change Orders**

Change Order No.	Vendor Name	Project ID	Description	Status	Status Date	Potential Change Amount	Final Amount
1	Filanc	3701-000	Additional Conduit Support around Admin Building	Approved by Board of Directors	8/6/2020		\$32,929.28
2	Filanc	3701-000	Primary Deck Conduit Supports	Approved by Board of Directors	8/6/2020		\$ 9,611.12
3	Filanc	3701-000	Electrical Manhole 2 collar concrete/pavement repair	Approved by Board of Directors	8/6/2020		\$ 2,986.60
4	Filanc	3701-000	Primary Gallery Concrete Deck Repair	Approved by Board of Directors	8/6/2020		\$ 6,363.00
5	Filanc	3701-000	VFD Cabinet change from 316 to 304 Stainless Steel	Approved by Board of Directors	8/6/2020		\$ (2,100.00)
6	Filanc	3701-000	Duct bank Vault size change to accommodate existing utilities and sump	Approved by Board of Directors	8/6/2020		\$ 37,690
7	Filanc	3751-000	Energy Building Roof Steel Beam Anchor Embedment	Approved by Board of Directors	8/6/2020		\$10,280.90
8	Filanc	3701-000	Polymer VFD Improvements	Approved by Board of Directors	10/1/2020		\$ 15,549
9	Filanc	3751-000	Repair/improve floor grating in equipment to meet safety standards	Approved by Board of Directors	10/1/2020		\$ 1,843

Change Order No.	Vendor Name	Project ID	Description	Status	Status Date	Potential Change Amount	Final Amount
10	Filanc	3751-000	Additional roofing materials required to level surface	Approved by Board of Directors	10/1/2020		\$ 4,465
11	Filanc	3701-000	Additional backfill material for MH-1	Approved by Board of Directors	10/1/2020		\$ 2,939
12	Filanc	3701-000	Admin Bldg. roof drain rerouting	Approved by Board of Directors	10/1/2020		\$ 966
13	Filanc	3751-000	Additional angle steel needed to support new roof	Approved by Board of Directors	10/1/2020		\$ 1,069
14	Filanc	3701-000	Rebate work on Primary Gallery Deck to resolve potential safety issue	Approved by Board of Directors	10/1/2020		\$ 4,736
15	Filanc	3701-000	Replace installation of fan with louver	Approved by Board of Directors	2/4/2021		\$ (647)
16	Filanc	3701-000	New wire pulled for Sed Basins 5 & 6 flow meters	Approved by Board of Directors	2/4/2021		\$ 1,056
17	Filanc	3701-000	New lighting, outlet, and circuit for scum and sample pumps	Approved by Board of Directors	2/4/2021		\$ 24,000
18	Filanc	3701-000	Indicators, remove un	Approved by Board of Directors	2/4/2021		\$ 41,094
19	Filanc	3701-000	Modify hardware, PLC logic, and HMI for a polymer alternate water use.	Approved by Board of Directors	2/4/2021		\$ 15,858



Change Order No.	Vendor Name	Project ID	Description	Status	Status Date	Potential Change Amount	Final Amount
20	Filanc	3701-000	Add new DAF flow meters including additional piping and conduit	Approved by Board of Directors	2/4/2021		\$ 30,477
<b>Grand Total</b>							<b>\$ 241,166</b>

# Agenda Item

# 6

**Engineering Committee Meeting**

**Meeting Date:** March 11, 2021

**TO:** Engineering Committee Members

**STAFF CONTACT:** Amber Baylor, Director of Environmental Compliance

**SUBJECT:** FY 21-22 Budget Flows and Solids Projections

## Summary

SOCWA prepares the annual use audit at the close of the previous FY and has provided a uniform methodology that is transparent to member agencies on flow and solids input into SOCWA facilities from Member agency collection systems. The general practice has been to utilize the flow and solids numbers from the Use Audit to inform budget preparation efforts. However, this data can lag significantly from the actual flows and solids input into SOCWA facilities.

To better inform member agencies, SOCWA staff compiled the flows and solids numbers from July 1, 2020 through December 31, 2020 for input as to the budgeted flows for the FY 21-22 SOCWA budget. The summaries of those flows and solids are included in Tables 1-6 summarized below. SOCWA staff requests review of the flows and solids numbers and for member agencies to provide updated flows and solids as projected from their respective facility improvement projects.

<b>Project Committee 2 Liquids Summary (MGD)</b>				
<b>July 1, 2020 through December 31, 2020</b>				
<b><u>Member Agency</u></b>	<b><u>July 1, 2020 through December 31, 2020 Flow (MGD)</u></b>	<b><u>Total Percent (%)</u></b>	<b><u>Projected Budgeted Flows (MGD)</u></b>	<b><u>Total Percent (%)</u></b>
CSJC	2.140	27.91%	2.140	30.71%
MNWD	0.700	9.14%	1.4*	20.10%
SCWD	1.805	23.55%	1.805	25.92%
SMWD	<u>3.021</u>	39.41%	1.621	23.27%
	<u>7.666</u>	<u>100.00%</u>	6.966	100%

Table 1

\*1.4mgd is the constant agreed to by SMWD and MNWD

<b>Project Committee 2 Solids Summary (MGD) July 1, 2020 through December 31, 2020</b>				
<b>Member Agency</b>	<b>Average Solids based on Actual Metered Flow</b>	<b>Total Percent (%)</b>	<b>Average Solids Based on MNWD Flow Constant (pounds)</b>	<b>Total Percent (%)</b>
CSJC	6046.63	24.39%	6046.63	24.39%
MNWD	2808.21	11.33%	5612.97	22.64%
SCWD	6238.48	25.16%	6238.48	25.16%
SMWD	9697.16	39.12%	6892.40	27.80%
	<u>24790.48</u>	<u>100.00%</u>	<u>24790.48</u>	100%

Table 2

<b>PC 15 July 1, 2020 through December 31, 2020 Actual Flows Coastal Treatment Plant</b>		
<b>Member Agency</b>	<b>Plant Flows MGD</b>	<b>Plant Flow Percent (%)</b>
CLB	1.599	56.52
EBSB	0.080	2.83
SCWD	1.150	40.65
MNWD	0.000	0.0
<b>Total</b>	<b>2.829</b>	<b>100.00</b>

Table 3

<b>PC 17 Liquids Regional Treatment Plant</b>				
<b>Member Agency</b>	<b>Plant Flow (MGD)</b>	<b>Centrate Flow (MGD)</b>	<b>Total Flow (MGD)</b>	<b>Liquid Flow (%)</b>
CLB	0	0.01387	0.007755492	0.0993
EBSB	0	0.00053	1.48913E-05	0.0002
SCWD	0	0.00836	0.003450657	0.0442
ETWD	0	0.01472	0.014718772	0.1884
MNWD	7.7281995	0.05777	7.785969829	99.6679
<b>Total</b>	<b>7.7281995</b>	<b>0.09525</b>	<b>7.811909641</b>	<b>100.0000</b>

Table 4

<b>PC 17 Solids Regional Treatment Plant</b>		
<b>Member Agency</b>	<b>H2 2020 #/Day</b>	<b>H2 2020 %</b>
<b>CLB</b>	5133	14.82
<b>ETWD</b>	5282	15.25
<b>EBSD</b>	320	0.92
<b>MNWD</b>	21107	60.93
<b>SCWD</b>	2803	8.09
<b>Total</b>	<b>34645</b>	<b>100.00</b>

Table 5

<b>Project Committee 12 Recycled Water Master Recycled Water Permit July 1, 2020 through December 31, 2020</b>		
<b>Member Agency</b>	<b>Region 9 Recycled Production Ac-ft</b>	<b>RW Produced (%)</b>
CSJC	244	2.84
MNWD	3714	43.26
SCWD	600	6.99
SMWD	3785	44.09
TCWD	242	2.82
<b>Total</b>	<b>8585</b>	<b>100</b>

Table 6

**Recommended Action:** Staff recommends that the Engineering Committee recommend to the Board of Directors to Utilize the flow and solids numbers contained herein and/or provide additional flow and solids allocations to staff by March 15, 2021 for the FY 21/22 SOCWA Budget planning purposes.

# Agenda Item

# 7

**Engineering Committee Meeting**

**Meeting Date:** March 11, 2021

**TO:** Engineering Committee

**FROM:** Jason Manning, Director of Engineering

**SUBJECT:** Regional Treatment Plant Aeration PLC Upgrade [Project Committee 17]

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## Overview

The current PLC that controls the three aeration blowers at the Regional Treatment Plant uses outdated technology and SOCWA staff have little access to the internal program due to the age and proprietary basis of the existing system. The programs can also not be currently backed up.

In addition, the current PLC will often lose communication with the SCADA system causing an alarm. SOCWA Operations staff must physically verify that the aeration system is operating when this alarm occurs which has been the cause of many after-hours call-outs.

## Proposals

SOCWA requested proposals from the following firms to replace the PLC, two local control panels, and associated programming:

Tesco  
Trimax

Both firms provided proposals (attached to this staff report) and are summarized below in Table 1.

Table 1 – Summary of Proposals

<b>Firm</b>	<b>Tesco</b>	<b>Trimax</b>
<b>Total Cost</b>	\$98,980	\$113,827

**Cost Allocation**

Table 2 – Cost allocation by member agency using the Tesco proposal

<b>Agency</b>	<b>Aeration PLC Upgrade</b>
	3742-000
MNWD	\$ 98,980
<b>Total</b>	<b>\$ 98,980</b>

Table 3 – Available budget

<b>3742-000</b>
\$342,516

Project 3742-000 is already funded.

**Recommended Action:** Staff recommends that the Engineering Committee recommend to the PC 17 Board to award the contract to Tesco in the amount of \$98,980 for the aeration PLC upgrade for the Regional Treatment Plant Aeration System.

To: South Orange County Wastewater Authority  
 Attn: Bruno dos Santos  
 Re: South Orange County Wastewater Authority  
 RTP Blower PLC/OIT Upgrades

Quote Date: 2/25/2021  
 Quote No.: 20H232Q01

Dear Bruno:

Thank you for your continued interest in TESCO products, services, and solutions. We are pleased to quote the following scope of work pertaining to the above-referenced project.

### Scope of Work

This quote is inclusive of the hardware and TESCO services required to upgrade the PLCs and OITs equipped with South Orange County Wastewater Authority’s (SOCWA) existing blower control panels at the Regional Treatment Plant (RTP). Specifically, TESCO will upgrade the Master Control Panel (MCP), Blower No. 1, and Blower No. 2 control panels; the Blower No. 3 panel hardware will remain as is for the time being.

The existing Allen-Bradley SLC 5/04 PLCs in each control panel will be upgraded to the CompactLogix series and the PanelView 1000 OITs will be replaced by PanelView Plus 1000 units. The OIT upgrades are only applicable to Blowers No. 1 and 2; the MCP is already equipped with the newer PanelView Plus series OIT.

As part of the hardware upgrades, the existing programs will be updated to the new development platforms and reconfigured by TESCO as required to maintain the existing process control and logic functions. Following the program conversions, TESCO’s Field Service Engineer will remove the old PLC/OITs and retrofit the new hardware within the existing control panels. Refer to the *Scope of Supply* below for a complete listing of the materials and services to be provided by TESCO.

***Please Note: TESCO will perform the retrofits of the new PLC and OIT hardware described in this scope; however, SOCWA will route/pull any of the new Ethernet or other communications cable required for maintaining network connectivity amongst the blower control panels. It is also important to note that during the cutover to the new PLC/OIT hardware, at least one (1) of the three (3) plant blowers must be running at all times.***

### Scope of Supply

Item	Qty	Description
<b>REGIONAL TREATMENT PLANT – BLOWER CONTROLS</b>		
1	1	<b>Master Control Panel Hardware</b> to include: <ul style="list-style-type: none"> <li>▪ Allen-Bradley CompactLogix PLC               <ul style="list-style-type: none"> <li>▫ Power Supply</li> <li>▫ CPU</li> <li>▫ (1) 16-Point DI Module</li> <li>▫ (6) 8-Channel AI Modules</li> <li>▫ (4) 4-Channel AO Modules</li> </ul> </li> <li>▪ Ethernet/IP to DH+ Gateway (<i>communications with Blower No. 3</i>)</li> <li>▪ DIN Rail, Wires, Ethernet Patch Cables, &amp; Nameplates/Labels as required</li> </ul>
2	1	<b>Local Control Panel 30310 (Blower No. 1) Hardware</b> to include: <ul style="list-style-type: none"> <li>▪ Allen-Bradley CompactLogix PLC</li> </ul>

Item	Qty	Description
		<ul style="list-style-type: none"> <li>▫ Power Supply</li> <li>▫ CPU</li> <li>▫ (1) 16-Point DI Module</li> <li>▫ (1) 8-Point DO Module</li> <li>▫ (1) 4-Channel AI Module</li> <li>▫ (1) 4-Channel AO Module</li> <li>▫ (1) 4-Channel RTD Input Module</li> <li>▪ Allen-Bradley PanelView Plus 1000 OIT (10.4" color touch screen)                             <ul style="list-style-type: none"> <li>▫ Bezel Kit &amp; Cover Plate as required</li> </ul> </li> <li>▪ DIN Rail, Wires, Ethernet Patch Cables, &amp; Nameplates/Labels as required</li> </ul>
3	1	<p><b>Local Control Panel 30320 (Blower No. 2) Hardware</b> to include:</p> <ul style="list-style-type: none"> <li>▪ Allen-Bradley CompactLogix PLC                             <ul style="list-style-type: none"> <li>▫ Power Supply</li> <li>▫ CPU</li> <li>▫ (1) 16-Point DI Module</li> <li>▫ (1) 8-Point DO Module</li> <li>▫ (1) 4-Channel AI Module</li> <li>▫ (1) 4-Channel AO Module</li> <li>▫ (1) 4-Channel RTD Input Module</li> </ul> </li> <li>▪ Allen-Bradley PanelView Plus 1000 OIT (10.4" color touch screen)                             <ul style="list-style-type: none"> <li>▫ Bezel Kit &amp; Cover Plate as required</li> </ul> </li> <li>▪ DIN Rail, Wires, Ethernet Patch Cables, &amp; Nameplates/Labels as required</li> </ul>
4	Lot	<p><b>Professional Services</b> to include:</p> <ul style="list-style-type: none"> <li>▪ <u>Project Management</u></li> <li>▪ <u>Engineering</u> <ul style="list-style-type: none"> <li>▫ preliminary onsite evaluation to verify I/O requirements and identify dimensional constraints</li> <li>▫ engineered bill of materials, equipment schematics, technical data, O&amp;M manual, and project records</li> <li>▫ develop an I/O map to be utilized by Field Service for landing of signals on the existing terminal blocks</li> </ul> </li> <li>▪ <u>PLC/OIT Programming</u> <ul style="list-style-type: none"> <li>▫ convert the existing SLC 5/04 programs from the RSLogix 500 development platform to <b>Studio 5000 Logix Designer</b>, which will be downloaded to the new CompactLogix PLCs for the Master Control Panel (MCP) and Blowers No. 1/2</li> <li>▫ update the driver and tags as required for the existing MCP PanelView Plus 1000 OIT to align with the new CompactLogix PLC program</li> <li>▫ convert the existing PanelView 1000 OIT programs utilized for Blowers No. 1/2 to the new PanelView <b>Plus 1000</b> platform</li> <li>▫ verify DH+ communications are maintained between the MCP and Blower No. 3 PLCs</li> <li>▫ assist Field Service with testing to ensure the new PLC/OITs function properly and the existing process control is maintained</li> </ul> </li> <li>▪ <u>Field Service / Product Startup</u></li> </ul>



Item	Qty	Description
		<ul style="list-style-type: none"> <li>▫ removal of the existing SLC 5/04 PLCs and PanelView 1000 OITs equipped with the MCP and Blowers No. 1/2 panels</li> <li>▫ retrofit of the new CompactLogix PLCs and PanelView Plus 1000 OITs within the existing MCP and Blowers No. 1/2 panels</li> <li>▫ re-terminating/wiring of the I/O signals from the new PLCs to the existing terminal blocks</li> <li>▫ product quality review, verification of installation, parameter/configuration adjustments as required, software upload/download as required, instrument/device signal spanning, function checks, and startup</li> </ul> <p><b><i>Please Note: SOCWA will perform any of the SCADA programming or reconfiguration services required of integrating the PLC upgrades within the existing SCADA system/application.</i></b></p>
		<b>TOTAL (Items 1-4, including applicable sales tax):      \$98,980.00</b>

### Project Clarifications

- Unless otherwise indicated by the Scope of Work above, quote is to **furnish only** and does not include any trade labor, trade work, construction work, site improvement, contractor services, or any trade installation services. Any trade labor and/or related trade work shall be performed by others/contractor.
- Unless otherwise indicated by the Scope of Work above, the following is **not** included within this quotation:
  - Conduit, field wire, tubing, or basic trade installation materials (brackets, screws, bolts, j-box, stanchions, pull-box, etc.)
  - Instrumentation mounting components, brackets, stanchions, sunshields, etc.
  - Local control stations and/or field mounted disconnects.
  - Instrumentation, devices, components, or equipment not specifically identified in the above quotation.
  - Fiber optic patch panels, cable, splicing or terminations.
  - Networking infrastructure or architecture modifications to existing facilities.
  - Any 3<sup>rd</sup> party testing, harmonic testing/analysis, protective device coordination study, short-circuit analysis, or Arc-Flash Risk Assessment (AFRA) services.
  - Electrical interconnection diagrams for equipment not furnished by TESCO.
  - ISA process control loop diagrams.
  - Signal loop diagrams for equipment not furnished by TESCO.

### Terms & Conditions

- Quote is firm for 30 days unless otherwise stated.
- Intellectual Property and Confidentiality Notice: The scope of work and price quotation shall not be construed as a formal design or recommendations on design for the related project. All content contained within this quotation is the intellectual property under the proprietorship of Tesco Controls, Inc. and is subject to applicable copyright laws. Such intellectual property shall not be duplicated, replicated, copied, or shared without explicit written consent from Tesco Controls, Inc., as it contains confidential information and work product developed exclusively for use by Tesco Controls, Inc.
- **PLC/OIT Hardware Upgrades & Program Conversions:** to be scheduled approximately **12-16** weeks after receipt of purchase order, written notice of intent, or notice to proceed.
- Unless otherwise stated above, price does not include any sales tax, use tax, or applicable fees; please apply any taxes and/or fees as appropriate. Please note that all invoices will include sales tax where applicable.
- TESCO price is FOB factory, full freight allowed.

- TESCO warranties against defect in design, workmanship, and materials for a period of one year from date of installation and does not exceed 18 months from the date of shipment from the factory.
- TESCO carries liability insurance, with full workers' compensation coverage.
- Terms are net 30 days on approved credit accounts.
- Interest will be applied to all past due invoices.
- All merchandise sold is subject to lien laws.
- Final retention to be paid within 10 days after the project notice of completion.

Please feel free to contact us at (916) 395-8800 to discuss any questions or comments you may have regarding this quotation.

Sincerely,

TESCO CONTROLS, INC.

A handwritten signature in black ink, appearing to read "John Wright", is positioned above the typed name.

John Wright  
Technical Sales  
jwright@tescocontrols.com



## Scope

### South Orange County Wastewater Authority Regional Treatment Plant PLC Upgrades

Trimax Proposal: E-101920A

October 5, 2020

**Scope:**

To furnish the materials and services for the control panels mentioned below. It will also include the submittals, I/O drawings, calibration, testing, start-up, training and documentation.

**Existing Master Control Panel Upgrades to include:**

- Allen-Bradley CompactLogix PLC
  - I/O Modules as required
- Communications Protocol Converter
- Miscellaneous Panel Hardware as required

**Existing Blower No. 1 Control Panel Upgrades to include:**

- Allen-Bradley CompactLogix PLC
  - I/O Modules as required
- Allen-Bradley PanelView Plus 1000 OIT
- Miscellaneous Panel Hardware as required

**Existing Blower No. 2 Control Panel Upgrades to include:**

- Allen-Bradley CompactLogix PLC
  - I/O Modules as required
- Allen-Bradley PanelView Plus 1000 OIT
- Miscellaneous Panel Hardware as required

**Services:**

- Project Management
- Engineering
- PLC & OIT Programming
- Field Service Retrofit
- Startup & Testing

**Trimax Systems Standard Exclusions:**

- Any other material or labor that is not explicitly mentioned above as being provided
- All other control panels not mentioned above as being provided
- Field installation and/or mounting of instruments and any associated raceway
- Supply and Installation of In-Line devices, tubing, fittings, pipes, taps, process pumps, and all related appurtenances
- Mounting hardware, sunshields, stands and appurtenances for field instruments and control panels
- Field interconnection wire, cable, wiring, terminations and associated conductor tags and labeling
- Antenna tower and/or mast
- Nitrogen purging to panels
- Piping, Valves and all related hardware
- Stilling wells



- Demolition and Salvage
- Seismic Calculations
- Raceway Systems Drawings

**Terms of Sale:**

- These prices are valid for 90 days.
- This proposal is subject to the terms and conditions detailed on the last page.
- Terms of payment
  - Monthly Progressive Payments in accordance with our schedule of values based on actual work completed.
- Acceptance of the proposal is based on an orderly project that incorporates Trimax planned timeframes for our scope of work.
- Any required field work will be performed during normal working hours. Overtime and Standby time is subject to additional charges.
- Protection of equipment, supplied by Trimax, from theft, vandalism and/or any other natural disaster shall be the responsibility of others from the time that the equipment is received onsite.
- This proposal shall be made part of the subcontract, service or purchase agreement issued to Trimax for this project.
- All quotes are subject to price change due to scope change, additions and vendor/market impacts beyond our control.
- **NO** state and local taxes have been included in Lump Sum Price. Official tax rate to be calculated at time of billing.
- Invoices paid by credit card will be subject to a 4% convenience fee
- FOB: Trimax Systems, Brea, CA

**Total Lump Sum Price: .....\$ 113,827.<sup>00</sup>**

Regards,

Technical Sales  
Trimax Systems, Inc.



## Terms and Conditions

1. **Parties to the Agreement.** This agreement (the "Agreement") is between Trimax Systems, Inc. ("Trimax"), and the entity from whom a purchase order is issued following receipt of the attached proposal or bid (hereinafter "Client"). By issuing a purchase order for the goods and services quoted or bid by Trimax in the attached proposal or bid, Client agrees to be bound by the terms of this Agreement. Trimax's proposal or bid is made expressly conditional on the acceptance of these terms and conditions. Terms in Client's purchase order that are in addition to or not identical with the terms of this Agreement will not become part of this Agreement.

Trimax and Client are collectively referred to in this Agreement as the "Parties."

2. **Goods and Services to be Provided.** Trimax agrees to provide to Client the goods and services required to perform the tasks set forth in the attached proposal or bid. The end product contemplated by the attached proposal shall be referred to herein as the Product.

3. **Price.** The price to be paid by Client shall be that stated in the attached proposal. Any additional work to be performed by Trimax related to the Product will be paid according to the terms and conditions of the attached Standard Rate Sheet.

4. **Identification and Risk of Loss:** Identification of any goods provided under this Agreement shall be pursuant to Commercial Code Section 2501, and shall occur upon tender and delivery of the goods to the Client's designated carrier. Risk of loss of the goods shall pass from Trimax to the Client on such tender and delivery.

5. **Time and Method of Payment.** Client shall pay the price for any goods and services within 30 days after receipt of invoice for the goods and services. If payment is not made within the first 30 days of the date of invoice, Trimax shall be entitled to charge interest at the maximum legally accepted rate on the unpaid balance commencing on the date of the invoice.

6. **Client's Rights in the Product.** By this agreement Client purchases and shall obtain a right to own and possess the physical hardware of the Product. Client shall also be entitled to own all of the uniquely designed software drafted to achieve the purposes of the project identified in the attached proposal. Other than those rights specifically granted and expressly transferred to Client in this agreement, Client shall have no proprietary interest in the goods or services provided pursuant to this Agreement.

7. **License to Client.** Client is hereby granted a perpetual, non-exclusive, non-transferable license to use the software being produced pursuant to this Agreement upon full payment of the price required herein, with no right to copy, sublicense, alter, decompile or develop derivative works. Client expressly acknowledges that Trimax will use its proprietary work product in the process of developing the Product, and that it retains ownership of such proprietary work product. Trimax may also incorporate into the Product certain other proprietary software programming.

8. **Third Party Warranties.** To the extent the third party hardware and software components of the Product are subject to warranties or licenses by their manufacturer(s) and/or authors, Client shall be entitled to the warranty and/or registration cards therefore, shall be considered the registered owner of the components, and shall look exclusively to those warranties for redress should the component malfunction or otherwise be defective.

9. **Indemnification and Hold Harmless.** Client shall indemnify Trimax and its employees, officers, directors, agents, and distributors from and against any loss, cost, liability or expense (including court costs and attorneys' fees incurred) arising out of any claim by any third party alleging damages caused by Client's acts and/or omissions in the performance of this Agreement or the use of the Product by Client.

10. **Remedies and Applicable Law.** This Agreement shall be governed by California law without application of its conflicts of laws provisions. Any action commenced on this Agreement shall be venued in Orange County, California.

11. **Modifications.** This contract can be modified or rescinded only by a writing signed by both of the Parties or their duly authorized agents. Any terms and conditions contained on any purchase order, invoice, bill of lading or other document generated by Trimax or Client which are in conflict with or in addition to the terms and conditions of this Agreement shall be null and void.

12. **Integration Clause.** This Agreement constitutes the entire agreement between the Parties with respect to the contemplated relationship between the parties, and supersedes all previous negotiations, proposals, commitments, writings, advertisements, publications, agreements and understandings of any nature whatsoever related to this contemplated Agreement, except as modified by the specific terms set forth in the attached proposal.

13. **Attorneys Fees.** If any dispute arises out of the interpretation of or performance under this Agreement, the prevailing party in any suit, arbitration or mediation shall be entitled to the attorney's fees it reasonably incurs as a result of that dispute.

14. **Limitation of Liability.** IN NO EVENT SHALL TRIMAX BE LIABLE TO CLIENT FOR ANY LOSS, INCONVENIENCE OR DAMAGE, WHETHER DIRECT, INCIDENTAL, CONSEQUENTIAL OR OTHERWISE, WITH RESPECT TO THE PRODUCT.

15. **Cancellations and Changes.** Orders, once placed and accepted, can be cancelled or changed only with the consent of Trimax, in which case, Trimax shall be entitled to reasonable termination charges consisting of a percentage of the order price reflecting the percentage of the work performed prior to termination or change plus actual costs relating to termination.

16. **Force Majeure:** Trimax shall not be responsible for delays or failures in performance resulting from acts or occurrences beyond the reasonable control of Trimax, including, without limitation; fire, explosion, power failure, acts of God, war, revolution, civil commotion, terrorism, or acts of public enemies, any law, order, regulation, ordinance, or requirement of any government or legal body or any representative of any such government or legal body, or labor unrest, including without limitation, strikes, slowdowns, picketing or boycotts. In such event, the party affected shall be excused from such performance on a day-for-day basis to the extent of such interference (and the other party shall likewise be excused from performance of its obligations on a day-for-day basis to the extent such party's obligations relate to the performance so interfered with).

# Agenda Item

# 8

**Engineering Committee Meeting**

**Meeting Date:** March 11, 2021

**TO:** Engineering Committee  
**FROM:** David Baranowski, Senior Engineer  
**SUBJECT:** Coastal Treatment Plant Sludge Force Main Replacement Project Geotechnical Services During Construction [Project Committee 15]

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## Overview

To support the construction of the Export Sludge Force Main Project, a geotechnical firm is needed for soils and materials testing. They will work in conjunction with the construction management firm to test soil samples, test backfill compaction, and to do concrete strength testing.

## Proposals

SOCWA requested proposals from the following firms and asked them to assume 67 days of backfill monitoring plus additional testing per the plans and specifications:

Leighton  
Ninyo & Moore

Both firms provided proposals (attached to this staff report) and are summarized below in Table 1. The proposals are an estimate of what each firm thinks the project will need. SOCWA will only pay for the actual services used on a time and materials basis.

Table 1 – Summary of Proposals

<b>Firm</b>	<b>Leighton</b>	<b>Ninyo &amp; Moore</b>
<b>Geologist</b>	Jeff Hull	Michael Putt
<b>Material Tests</b>	18	30
<b>Total Labor Hours</b>	596	526
<b>Total Cost</b>	\$79,879	\$65,790

**Cost Allocation**

Table 2 – Cost allocation by member agency using the Ninyo & Moore proposal

<b>Agency</b>	<b>Geotechnical Services</b>
	3534-000
CLB	\$ 24,941.28
EBSD	\$ 1,963.88
MNWD	\$ 19,246.03
SCWD	\$ 19,638.81
<b>Total</b>	<b>\$ 65,790.00</b>

Table 3 – Available budget

<b>3534-000</b>	<b>3541-000</b>	<b>Total</b>
\$699,679	\$4,045,345	\$4,745,024

Project 3534-000 is already funded.

Table 4 – Project costs

<b>Project Element</b>	<b>Cost</b>	<b>Contingency (8%)</b>	<b>Total</b>
Construction	\$3,107,346	\$ 248,588	\$3,355,934
EDSC	\$ 150,800		\$ 150,800
Biological Monitoring	\$ 236,950		\$ 236,950
Cultural Monitoring	\$ 277,368		\$ 277,368
Construction Management	\$ 226,100		\$ 226,100
Geotechnical Services	\$ 65,790		\$ 65,790
<b>Total</b>	<b>\$4,064,354</b>	<b>\$ 248,588</b>	<b>\$4,312,942</b>

The project costs are within the current budget with an expected surplus of \$432,082.

**Recommended Action:** Staff recommends that the Engineering Committee recommend to the PC 15 Board to award the time and materials contract to Ninyo & Moore in the amount of \$65,790 for the Geotechnical services during construction for the Coastal Treatment Plant Sludge Force Main Project.



Leighton Consulting, Inc.  
A LEIGHTON GROUP COMPANY

February 16, 2021

Proposal No. IR21-055

South Orange County Wastewater Authority  
34156 Del Obispo  
Dana Point, CA 92629

Attention: Mr. David Baranowski  
Senior Engineer

**Subject: Proposal for Geotechnical/Materials Testing and Inspection Services  
6-inch Diameter HDPE Export Sludge Force Main Replacement Pipeline  
SOCWA Coastal Plant  
28303 Alicia Parkway, (Intersection Awma Road)  
Laguna Niguel, California**

References: Dudek & Associates, Inc., 2010, South Orange County Wastewater Authority, Contract Documents for Construction, Coastal Treatment Plant Export Sludge Force Main Replacement 2020, Sheets 1 through 37A, dated October 29.

Ninyo & Moore, 2014, Geotechnical Evaluation, Export Sludge Force Main Replacement, South Orange County Wastewater Authority, Laguna Niguel, California, dated February 10; Project No. 202426006.

Leighton Consulting, Inc. (Leighton) is pleased to submit this proposal to provide geotechnical/materials testing and inspection services during construction of the subject pipeline project, proposed at the SOCWA Coastal Treatment Plant, 28303 Alicia Parkway, City of Laguna Niguel, California (site). Our proposed scope of work and fees are based on project plans, estimations of required hours and other logistical assumptions. Anticipated geotechnical services include bulk sampling of native backfill materials, imported aggregate base and shading sand, laboratory testing, and field observation and density testing of pipeline shading, utility backfill. A limited amount of subgrade preparation and concrete sampling and testing services have also been included.



Per your request, the scope of our observation and testing services for this proposal is based on an estimated 550 total hours of soil observation and testing time and 300 linear feet of trench backfill pace per day. Materials testing includes one day of 4,000 psi concrete sampling/testing and follow-up laboratory strength testing, if required.

Our services are intended to satisfy the general requirements and specifications of the project design plans, entitled *Contract Documents for Construction of Coastal Treatment Plan Export Sludge Force Main Replacement 2020*, Sheets 1 through 37A, dated October 29, 2020, prepared by Dudek & Associates, Inc (Dudek). The plans were forwarded to our office via electronic mail on February 3, 2021. Our scope and budget have been calculated in absence of a project construction schedule.

We intend to perform our services on a time-and-expense basis as dispatched and scheduled by your designated site representative/contractor. The actual number of hours and fees required to complete the project may be more or less than the established budget. The presented budget is considered a not-to-exceed cost. If required, we will inform you in the event the budget is not sufficient to complete all services.

## **PROJECT DESCRIPTION**

The subject pipeline will transect through alternating swales and subtle ridges in hillside terrain aligned roughly paralleling to the existing facility access road. The pipeline will extend from the SOCWA treatment plant northward to Alicia Parkway, a distance of approximately 16,431 feet (3.1 miles). The average pipeline depth ranges from approximately 6 to 10 with local depths up to 15 feet below existing grades. Our review of the project geotechnical report prepared by Ninyo & Moore indicates the pipeline will expose bedrock assigned to the Monterey and Topanga Formations, as well as landslide and older alluvium/terrace deposits. Each earth material type will require a different laboratory proctor test, and warrant application of different backfill testing criteria as pipeline construction progresses.

We understand the pipeline will cross/connect to existing roadways at the distal ends of the project, where replacement pavement sections will be required as part of construction (aggregate base and asphalt or concrete).

Summarized below are certain plan requirements referred to in preparation of this proposal.

Per plan detail No. 1 - Typical Trench and Conduit Detail (Sheet D-1): 6-inch HDPE pipe shall be surrounded (shaded) by a clean sand of (S.E. 30 or greater) at a thickness of 6-inches below and 12-inches above the pipeline. We understand the compaction standard

for the shade sand is 90 percent of the maximum relative proctor density. The balance of trench backfill will consist of native soils compacted to a standard of 90% of the maximum relative proctor density. A 4-inch diameter fiber optic conduit will be installed within the upper section of the trench backfill at a depth of 24-inches below finish surfaces.

Per plan detail No. 3 – Trench Detail at Asphalt (Sheet D-1): Pipe shading shall extend 6-inches below and 6-inches above the pipeline, and native backfill will be compacted to a standard of 95% of the maximum relative proctor density. The overlying pavement section will be prepared by placement of 6-inches crushed aggregate base compacted to a standard of 95% relative to the maximum proctor density. The finish surface will be completed/capped with 3-inches of asphalt concrete, for which no compaction standard is specified.

Per plan detail No. 7 – Access Road/Trail Detail (Sheet D-1): Subgrades in trench areas crossing existing roads/trails will include placement of 12-inches native soils compacted to 95% of maximum relative proctor density.

Per Detail No. 4/C-12 – Concrete Pipe Encasement Detail (Sheet D-3): Pipeline shall be encased in 4,000 psi concrete near the Aliso Creek Wildlife and Habitat Enhancement Project (ACWHEP) Structure. Upon request, Leighton will dispatch an ACI certified inspector to perform temperature readings, slump tests and prepare test cylinders on the date of the concrete pour for the ACWHEP structure. In a prior designated sequence, we will subject the cylinders to a series of follow-up strength testing in our laboratory to verify conformance with design standards.

## **SCOPE OF WORK**

The proposed scope of our services will include geotechnical observation and density testing during trench backfill operations and pavement subgrade areas, geotechnical laboratory testing, one day concrete sampling and strength testing, project management and certified payroll preparation. As site safety is the responsibility of the contractor, we intend to notify your on-site representative upon our arrival to and egress from the construction site. Our field representatives will be equipped with conventional and customary personal protection for construction sites, including a hard hat, orange vest and eye protection and hard-sole shoes. Please inform us of any additional personal protection requirements specific to this site and project.

Our field staff will prepare *Daily Field Reports* (DFRs) documenting work activities, number of hours incurred, and results of our testing. The DFR's will be presented to your project superintendent or designated field representative (e.g. construction manager) for

discussion and verification. We will request their signature on the DFR to acknowledge their understanding of the report.

Scope of work tasks are summarized by task below:

- **TASK I – Field Observation / Testing / Sampling / Inspection:** Leighton will provide backfill observation and testing services during pipeline construction, as warranted by the earthwork contractor’s schedule, backfill progress and other logistics. Field (in-situ) dry density and moisture content measurements will be obtained using a nuclear moisture and density gauge, in general accordance with ASTM D6938. In general accordance with your request, we have budgeted a total of 550 total hours of soil technician time for observation and testing, and 12 hours for periodic collection of bulk samples for laboratory analysis. This assumes a pace of 300 feet of trench backfill placement per day.
- **TASK II - Geotechnical Laboratory Testing:** Leighton will perform geotechnical laboratory testing to determine compaction criteria for differing backfill types, including conformance criteria for imported shading sand and/or aggregate base materials. Testing will include the ASTM D1557 modified Proctor laboratory maximum dry density and optimum moisture content (“compaction curves”) and Sand Equivalent (SE). To enable accurate test results we will collect representative bulk samples of differing earth materials encountered along the alignment and transport them to our laboratory at least 2 days prior to use in density testing of the trench backfill. We estimate approximately eight (8) separate proctor tests will be required.
- **TASK III - Materials Laboratory Testing:** Leighton will provide an ACI inspector to attend to one concrete pour on the project, associated with placement of 4,000 psi concrete for the ACWHEP structure. We have budgeted 8 total hours of inspector time for sampling and testing during the pour. The inspector will prepare six (6) 4x8-inch cylinders and test the slump and temperature of the mix. The cylinders will be transferred to our laboratory where follow-up strength testing will be performed at 7 and 28 day intervals. The test results will be reviewed, stamped and signed by a Professional Engineer, and forwarded to you electronically.
- **TASK IV - Management:** A Leighton Field Operations Manager and Project Engineer will manage our staff and the execution of our services as necessary to maintain quality control, coordination and efficiency. Daily Field Reports (DFRs) will be written by our technicians in the field, subsequently reviewed by professional staff and prepared for distribution. Geotechnical laboratory test results will be reviewed for distribution. Geotechnical concerns encountered in the field and noted on DFRs will be brought to the attention of your project superintendent or designated

representative. A final compacted fill report is **not** currently budgeted, but can be provided upon request at additional cost.

## **SCHEDULE**

We understand pipeline excavation will begin in early March 2021. We are prepared to commence with the above-outlined tasks upon receipt of your signed authorization to proceed. For the initial inspection request we request our dispatch team be provided at least two (2) working days advance to facilitate the organization and scheduling of our field personnel. Inspections thereafter may be scheduled within one (1) working day (minimum 24 hour) notice. Calls to our dispatch (**866-LEIGHTON**) after 3:00 pm (prior work day) or on weekends and holidays are not addressed until the first following working day, without prior arrangement. We anticipate our personnel will be required on both a periodic (part-time) and continuous (full-time) basis at different stages of construction. We expect the number of hours and site visits required to efficiently perform field observation and testing services, and document trench backfill placement, will be a function of trench depth and contractor practices. We request that you “partner-with-us” in management of the project budget by helping avoid unnecessary visits. We will work with your field representative to reduce standby time or unnecessary trips to the site.

**We will need to collect representative bulk-samples of backfill material at least two working days before beginning backfill compaction, and where different soil types are encountered. This includes imported shading sand and aggregate base materials. Compaction curves for each soil type will be determined per ASTM D1557. Shading sand will be subjected to Sand Equivalent (SE) testing.**

## **FEES**

### **Time and Expense Fee Schedule**

The above proposed geotechnical (backfill density) testing services will be performed during construction on a time-and-expense basis, at California Prevailing Wage unit rates listed on the attached 4-page *2019 Professional Fee Schedule*.

### **Budget Estimate**

A breakdown of estimated hours and fees for this project is presented in Table 1, *Cost Estimate*, attached to the end of our proposal. We have applied a 10% discount to our 2019 Fee Schedule for this project. The total budget estimated to perform the above-

outlined tasks is equal to **Seventy Nine Thousand Eight Hundred Seventy Nine Dollars (\$79,879.00)**.

### **California Prevailing Wage**

Since this is a California public works project, we will need to obtain a **DIR Project ID** from you (the “awarding body”) before we begin any prevailing wage work on site. For more information please access the below links:

<https://www.dir.ca.gov/Public-Works/Awarding-Bodies.html>

<https://www.dir.ca.gov/pwc100ext/ExternalLookup.aspx>

We have not included budget to staff your project with an apprentice. Although possible under California Prevailing Wage law, based on our experience, we do not anticipate an apprentice will be dispatched for training on this project. If we are required to provide training for an apprentice on your project, then additional fees would be required to cover that additional labor expense, beyond what we currently propose.

### **ASSUMPTIONS**

The following assumptions were made in preparing this proposal, estimating our geotechnical testing services fee during pipeline backfilling:

- **Access:** We assume pipeline trenches will be safe and readily accessible to our staff and testing instruments during construction. The contractor will provide safe and adequate trench shoring and ingress/egress.
- **No Overtime:** Our estimate does **not** include overtime charges. Overtime work (over 8 hours per day, weekends or holidays) will be billed in accordance with the attached *2020 Professional Fee Schedule* (discounted 10%).
- **No Professional Consultation:** Our estimate does **not** include costs for geotechnical design consultation, plan reviews or third-party review.
- **Certified Payroll:** As we understand labor rates for non-professional employees (Field Technicians and Inspectors) on this project are subject to California Prevailing Wage Law, we are required to prepare a Certified Payroll as part of our invoicing.

## **EXCLUSIONS**

The following tasks are not included as a part of our scope of work:

- **Final Report Preparation:** Compilation of all field and laboratory testing results, preparation of illustrations including density test location map, and drafting of a final report for agency submittal.
- **Supplemental Laboratory Testing:** Tests including Expansion Index (EI), corrosion potential and/or R-value (of pavement subgrades) testing are **not** anticipated nor currently budgeted.
- **Hazardous Materials Testing:** Testing for hazardous materials is not anticipated nor currently budgeted.

## **TERMS AND CONDITIONS**

Provided SOCWA agrees with the proposed scope, schedule and fees outlined herein, and intends to retain Leighton to provide the subject services, we request a Purchase Order be issued to Leighton, to which this proposal will become an exhibit of. The scope of our services will be performed on a time-and-expense basis in accordance with the current agreement between SOCWA and Leighton Consulting, Inc., effective November 22, 2019, in effect until December 31, 2022.

Any changes in these terms and conditions may require a change in scope of services and/or fees. Your assent to our beginning work prior to written execution of a mutually acceptable contract constitutes your agreement that the terms and conditions of the attached *Master Services Agreement* shall control until such a definitive contract is executed by both parties.

## **CLOSURE**

We appreciate this opportunity to be of service to San Antonio Water Company. If you have any questions or information that would update our scope of work and budget, then please contact us at your convenience at **866-LEIGHTON** or (949) 681-4265, directly at the phone extension and/or e-mail address listed below.

Respectfully submitted,

LEIGHTON CONSULTING, INC.



Jeff L. Hull, CEG

Associate Geologist

Extension 4265, [jhull@leightongroup.com](mailto:jhull@leightongroup.com)

JLH/lr

Attachments: Table 1 - Estimated Testing Fees (1 page)  
2019 Professional Fee Schedule (4 pages)  
Scope of Work Agreement (1 page)

Distribution: (1) addressee (via e-mailed PDF)

Leighton Consulting, Inc.

Table 1 Estimated Fees

SOCWA Coastal Plant

Geotech Observation/Testing - Sludge Pipeline Backfill

Proposal # IR21-055

TASK DESCRIPTION		RATE	UNITS	COST
<b>TASK I - Field Observation / Testing / Sampling / Inspection</b>				
<b>Bulk Soil Sample Collection</b>				
Field Soils/Material Tester (Prevailing Wage)	Terrace Deposits	\$129.00 / hour	2	\$258.00
Field Soils/Material Tester (Prevailing Wage)	Monterey Formation	\$129.00 / hour	2	\$258.00
Field Soils/Material Tester (Prevailing Wage)	Topanga Formation	\$129.00 / hour	2	\$258.00
Field Soils/Material Tester (Prevailing Wage)	Landslide Deposits	\$129.00 / hour	2	\$258.00
Field Soils/Material Tester (Prevailing Wage)	Shading Sand	\$129.00 / hour	2	\$258.00
Field Soils/Material Tester (Prevailing Wage)	Aggregate Base	\$129.00 / hour	2	\$258.00
Mileage	6 x RT Irvine office	\$0.56 / mile	150	\$84.00
<b>Density Testing</b>				
Field Soils/Material Tester (Prevailing Wage)	Sand Shading	\$129.00 / hour	20	\$2,580.00
Field Soils/Material Tester (Prevailing Wage)	Trench Backfill	\$129.00 / hour	510	\$65,790.00
Field Soils/Material Tester (Prevailing Wage)	Aggregate Base (trail/asphalt concrete crossings)	\$129.00 / hour	20	\$2,580.00
Mileage	50 x RT Irvine office	\$0.56 / mile	1250	\$700.00
<b>Concrete Testing</b>				
Field Soils/Material Tester (Prevailing Wage)	Field Sampling / Test Cylinder Prep (ACWHEP)	\$129.00 / hour	8	\$1,032.00
Mileage	RT Irvine office	\$0.56 / mile	25	\$14.00
<b>SUBTOTAL</b>				<b>\$74,328.00</b>
<b>TASK II - Geotechnical Laboratory Testing</b>				
Modified Proctor compaction 4 inch mold (Methods A & B ASTM D1557)		\$220.00 / each	7	\$1,540.00
Modified Proctor compaction 6 inch mold (Method C ASTM D1557)		\$245.00 / each	1	\$245.00
Sand Equivalent (SE, ASTM D2419/CTM 217)		\$105.00 / each	2	\$210.00
<b>SUBTOTAL</b>				<b>\$1,995.00</b>
<b>TASK III - Material Laboratory Testing</b>				
Reports - Test Results		\$17.00 / each	12	\$204.00
Concrete cylinders compression (ASTM C39 4" x 8")		\$22.00 / each	8	\$176.00
Pick-up & delivery – (weekdays, per trip, <50 miles from Leighton office)		\$90.00 / each	2	\$180.00
<b>SUBTOTAL</b>				<b>\$560.00</b>
<b>TASK IV - Management</b>				
Associate	quality control	\$203.00 / hour	4	\$812.00
Field Supervisor	technician scheduling/coordinaiton	\$132.00 / hour	8	\$1,056.00
Laboratory Supervisor	sample disposition	\$132.00 / hour	2	\$264.00
Dispatcher	50 incidents	\$72.00 / hour	8	\$576.00
Project Administrator/Word Processor	Payroll	\$72.00 / hour	4	\$288.00
<b>SUBTOTAL</b>				<b>\$2,996.00</b>
<b>TOTAL ESTIMATED COST</b>				<b>\$79,879.00</b>





Leighton

# 2019 PROFESSIONAL FEE SCHEDULE

CLASSIFICATION	\$/HR	CLASSIFICATION	\$/HR
Technician I	78	Project Administrator/Word Processor/Dispatcher	72
Technician II / Special Inspector	89	Information Specialist	99
Senior Technician / Senior Special Inspector	99	CAD Operator	113
Prevailing Wage (field soils / materials tester) *	129	GIS Specialist	126
Prevailing Wage (Special Inspector) *	134	GIS Analyst	149
Prevailing Wage (Source Inspector, NDT and soil remediation O&M)*	139	Staff Engineer / Geologist / Scientist	135
System Operation & Maintenance (O&M) Specialist	129	Senior Staff Engineer / Geologist / Scientist / ASMR	149
Non Destructive Testing (NDT)	139	Operations / Laboratory Manager	162
Deputy Inspector	99	Project Engineer / Geologist / Scientist	167
Field / Laboratory Supervisor	132	Senior Project Engineer / Geologist / Scientist / SMR	185
Source Inspector	122	Associate	203
City of Los Angeles Deputy Building (including Grading) Inspector	140	Principal	221
		Senior Principal	266

\* See Prevailing Wages in Terms and Conditions

## GEOTECHNICAL LABORATORY TESTING

METHOD	\$/TEST	METHOD	\$/TEST
<b>CLASSIFICATION &amp; INDEX PROPERTIES</b>		California Bearing Ratio (CBR, ASTM D1883) – 3 point	
Photograph of sample	10	- 3 point	500
Moisture content (ASTM D2216)	20	- 1 point	185
Moisture & density (ASTM D2937) ring samples	30	R-Value (AASHTO T190/ASTM D2844/CTM 301) untreated	310
Moisture & density (ASTM D2937) Shelby tube or cutting	40	soils/aggregates	
Atterberg limits (ASTM D4318) 3 points:	150	R-Value (AASHTO T190/ASTM D2844/CTM 301) lime or cement	340
- Single point, non-plastic	85	treated soils/aggregates	
- Atterberg limits (organic ASTM D2487 / D4318)	180	<b>SOIL CHEMISTRY &amp; CORROSION</b>	
- Visual classification as non-plastic (ASTM D2488)	10	pH Method A (ASTM D4972 or CTM 643)	45
Particle size:		Electrical resistivity – single point – as received moisture	45
- Sieve only 1½ inch to #200 (AASHTO T27/ASTM C136/ASTM D6913/CTM 202)	135	Minimum resistivity 3 moisture content points (ASTM G187/CTM 643)	90
- Large sieve 6 inch to #200 (AASHTO T27/ASTM C136/ASTM D6913/CTM 202)	175	pH + minimum resistivity (CTM 643)	130
- Hydrometer only (ASTM D7928)	110	Sulfate content - gravimetric (CTM 417 B Part 2)	70
- Sieve + hydrometer (≤3 inch sieve, ASTM 7928)	185	Sulfate content - by ion chromatograph (CTM 417 Part 2)	80
- Percent passing #200 sieve, wash only (ASTM D1140)	70	Sulfate screen (Hach®)	30
Specific gravity and absorption of fine aggregate (AASHTO T84/ASTM C128/ASTM D854/CTM 207)	125	Chloride content (AASHTO T291/CTM 422)	70
Specific gravity and absorption of coarse aggregate (AASHTO T85/ASTM C127/CTM 206)	100	Chloride content – by ion chromatograph (AASHTO T291/CTM 422)	80
- Total porosity - on Shelby tube sample (calculated)	165	Corrosion suite: minimum resistivity, sulfate, chloride, pH (CTM 643)	265
- Total porosity - on other sample (calculated)	155	Organic matter content (ASTM D2974)	65
Shrinkage limits (wax method, ASTM D4943)	126	<b>SHEAR STRENGTH</b>	
Pinhole dispersion (ASTM D4647)	210	Pocket penetrometer	15
Dispersive characteristics (double hydrometer ASTM D4221)	90	Direct shear (ASTM D3080, mod., 3 points):	
As-received moisture & density (chunk/carved samples)	60	Consolidated undrained - 0.05 inch/min (CU)	285
Sand Equivalent (SE, AASHTO T176/ASTM D2419/CTM 217)	105	Consolidated drained - <0.05 inch/min (CD)	345
<b>COMPACTION &amp; PAVEMENT SUBGRADE TESTS</b>		Residual shear EM 1110-2-1906-IXA (price per each additional pass after shear)	50
Standard Proctor compaction, (ASTM D698) 4 points:		Remolding or hand trimming of specimens (3 points)	90
- 4 inch diameter mold (Methods A & B)	160	Oriented or block hand trimming (per hour)	65
- 6 inch diameter mold (Method C)	215	Single point shear	105
Modified Proctor compaction (ASTM D1557) 4 points:		Torsional shear (ASTM D6467 / ASTM D7608)	820
- 4 inch diameter mold (Methods A & B)	220	<b>CONSOLIDATION &amp; EXPANSION/SWELL TESTS</b>	
- 6 inch diameter mold (Method C)	245	Consolidation (ASTM D2435):	195
Check point (per point)	65	Each additional time curve	45
Relative compaction of untreated/treated soils/aggregates (CTM 216)	250	Each additional load/unload w/o time reading	40
Relative density (0.1 ft mold, ASTM D4253, D4254)	235	Expansion Index (EI, ASTM D4829)	130
		Swell/collapse – Method A (ASTM D4546-A, up to 10 load/unloads w/o time curves)	290
		Single load swell/collapse - Method B (ASTM D4546-B, seat, load & inundate only)	105

METHOD	\$/TEST	METHOD	\$/TEST
<b>TRIAXIAL TESTS</b>		<b>HYDRAULIC CONDUCTIVITY TESTS</b>	
Unconfined compression strength of cohesive soil (with stress/strain plot, ASTM D2166)	135	Triaxial permeability in flexible-wall permeameter with backpressure saturation at one effective stress (EPA 9100/ASTM D5084, falling head Method C):	310
Unconsolidated undrained triaxial compression test on cohesive soils (UU, ASTM D2850, USACE Q test, per confining stress)	170	- Each additional effective stress	120
Consolidated undrained triaxial compression test for cohesive soils, (CU, ASTM D4767, USACE R-bar test) with back pressure saturation & pore water pressure measurement (per confining stress)	375	- Hand trimming of soil samples for horizontal K	60
Consolidated drained triaxial compression test (CD, USACE S test), with volume change measurement. Price per soil type below EM 1110-2-1906(X):		Remolding of test specimens	65
- Sand or silty sand soils (per confining stress)	375	Permeability of granular soils (ASTM D2434)	135
- Silt or clayey sand soils (per confining stress)	500	Soil suction (filter paper method, ASTM D5298)	400
- Clay soils (per confining stress)	705		
- Three-stage triaxial (sand or silty sand soils)	655		
- Three-stage triaxial (silt or clayey sand soils)	875		
- Three-stage triaxial (clay soils)	1,235		
Remolding of test specimens	65		

### CONSTRUCTION MATERIALS LABORATORY TESTING

METHOD	\$/TEST	METHOD	\$/TEST
<b>CONCRETE STRENGTH CHARACTERISTICS</b>		<b>AGGREGATE PROPERTIES</b>	
Concrete cylinders compression (ASTM C39) (6" x 12")	25	Bulk density and voids in aggregates (AASHTO T19/ASTM C29/CTM 212)	50
Concrete cylinders compression (ASTM C39) (4" x 8")	22	Organic impurities in fine aggregate sand (AASHTO T21/ASTM C40/CTM 213)	60
Compression, concrete or masonry cores (testing only) ≤6 inch (ASTM C42)	40	LA Rattler-smaller coarse aggregate <1.5" (AASHTO T96/ASTM C131/CTM 211)	200
Trimming concrete cores (per core)	20	LA Rattler-larger coarse aggregate 1-3" (AASHTO T96/ASTM C535/CTM 211)	250
Flexural strength of concrete (simple beam-3rd pt. loading, ASTM C78/CTM 523)	85	Apparent specific gravity of fine aggregate (AASHTO T84/ASTM C128/CTM 208)	130
Flexural strength of concrete (simple beam-center pt. loading, ASTM C293/CTM 523)	85	Clay lumps, friable particles (AASHTO T112/ASTM C142)	175
Non shrink grout cubes (2 inch, ASTM C109/C1107)	25	Durability Index (AASHTO T210/ASTM D3744/CTM 229)	200
Drying shrinkage - four readings, up to 90 days, 3 bars (ASTM C157)	400	Moisture content of aggregates by oven drying (AASHTO T255/ASTM C566/CTM 226)	40
Length of concrete cores (CTM 531)	40	Uncompacted void content of fine aggregate (AASHTO T304/ASTM C1252/CTM 234)	130
<b>HOT MIX ASPHALT (HMA)</b>		Percent of crushed particles (AASHTO T335/ASTM D5821/CTM 205)	135
Resistance of compacted HMA to moisture-induced damage (AASHTO T283/CTM 371)	2,100	Flat & elongated particles in coarse aggregate (ASTM D4791/CTM 235)	215
Hamburg Wheel, 4 briquettes (modified) (AASHTO T324)	900	Cleaness value of coarse aggregate (CTM 227)	210
Superpave gyratory compaction (AASHTO T312/ASTM D6925)	350	Soundness, magnesium (AASHTO T104/ASTM C88/CTM 214)	225
Extraction by ignition oven, percent asphalt (AASHTO T308/ASTM D6307/CTM 382)	150	Soundness, sodium (AASHTO T104/ASTM C88/CTM 214)	650
Ignition oven correction/correlation values (AASHTO T308/ASTM D6307/CTM 382)	1,350		
Extraction by centrifuge, percent asphalt (ASTM D2172)	150	<b>MASONRY</b>	
Gradation of extracted aggregate (AASHTO T30/ASTM D5444/CTM 202)	135	Mortar cylinders (2" by 4", ASTM C780)	25
Stabilometer, S-Value (ASTM D1560/CTM 366)	265	Grout prisms (3" by 6", ASTM C1019)	25
Bituminous mixture preparation (AASHTO R30/CTM 304)	80	Masonry cores compression, ≤6" diameter (testing only, ASTM C42)	40
Moisture content of HMA (AASHTO T329/ASTM D6037/CTM 370)	60	Masonry core-shear, Title 24 (test only)	80
Bulk specific gravity of compacted HMA, molded specimen or cores, uncoated (AASHTO T166/ASTM D2726/CTM 308)	50	Veneer bond strength, cost for each (5 required, ASTM C482)	55
Bulk specific gravity of compacted HMA, molded specimen or cores, paraffin-coated (AASHTO T275/ASTM D1188/CTM 308)	55	CMU compression to size 8" x 8" x 16" (3 required, ASTM C140)	45
Maximum density - Hveem (CTM 308)	200	CMU moisture content, absorption & unit weight (6 required, ASTM C140)	40
Theoretical maximum density and specific gravity of HMA (AASHTO T209/ASTM D2041/CTM 309)	130	CMU linear drying shrinkage (ASTM C426)	175
Thickness or height of compacted bituminous paving mixture specimens (ASTM D3549)	40	CMU grouted prisms (compression test ≤8" x 8" x 16", ASTM C1314)	180
Wet track abrasion of slurry seal (ASTM D3910)	150	CMU grouted prisms (compression test > 8" x 8" x 16", ASTM C1314)	250
Rubberized asphalt (add to above rates)	+ 25%	<b>BRICK</b>	
		Compression (cost for each, 5 required, ASTM C67)	40

METHOD	\$/TEST	METHOD	\$/TEST
<b>REINFORCING STEEL</b>		<b>SPRAY APPLIED FIREPROOFING</b>	
Rebar tensile test up to ≤ No. 10 bars (ASTM A370)	45	Unit weight (density, ASTM E605)	60
Rebar tensile test > No. 10 bars ≤ No. 17 (ASTM A370)	100	<b>BEARING PADS/PLATES AND JOINT SEAL</b>	
Rebar bend test, up to ≤ No. 10 bars (ASTM A370)	45	Elastomeric bearing pads (Caltrans SS 51-3)	990
Rebar bend test > No. 10 bars ≤ No. 17 (ASTM A370)	150	Elastomeric bearing pad with hardness and compression tests (Caltrans SS 51-3)	1230
Epoxy coated rebar/dowel film thickness (coating) test (ASTM A775)	45	Type A Joint Seals (Caltrans SS 51-2)	1620
Epoxy coated rebar/dowel continuity (Holiday) test (ASTM A775)	65	Type B Joint Seals (Caltrans SS 51-2)	1530
Epoxy coated rebar flexibility/bend test, up to No. 11 (ASTM A775)	55	Bearing plates (A536)	720
Tensile strength, ≤100,000 pounds axial load (ASTM A370)	45	<b>STREET LIGHTS/SIGNALS</b>	
Prestressing wire, tension (ASTM A416)	150	100W HPS Lighting (Caltrans RSS 86)	1296
Sample preparation (cutting)	50	<b>SAMPLE TRANSPORT</b>	
Resistance butt-welded hoops/bars, up to No. 10 (CTM 670)	180	Pick-up & delivery (weekdays, per trip, <50 mile radius from Leighton office)	90
Post-tensioned bars (ASTM A772)	420		

**EQUIPMENT, SUPPLIES & MATERIALS**

	\$/UNIT		\$/UNIT
1/4 inch Grab plates	5 each	Mileage (IRS Allowable)	0.58 mile
1/4 inch Tubing (bonded)	0.55 foot	Moisture test kit (excludes labor to perform test, ASTM E1907)	60 test
1/4 inch Tubing (single)	0.35 foot	Nuclear moisture and density gauge	88 day
3/8 inch Tubing, clear vinyl	0.55 foot	Pachometer	25 day
4-Gas meter (RKI Eagle or similar)/GEM 2000	130 day	Particulate Monitor	125 day
Air flow meter and purge pump (200 cc/min)	50 day	pH/Conductivity/Temperature meter	55 day
Box of 24 soil drive-sample rings	120 box	Photo-Ionization Detector (PID)	120 day
Brass sample tubes	10 each	Pump, Typhoon 2 or 4 stage	50 day
Caution tape (1000-foot roll)	20 each	QED bladder pump w/QED control box	160 day
Combination lock or padlock	11 each	Quire fee – Phase I only	200 each
Compressed air tank and regulator	50 day	Resistivity field meter & pins	50 day
Concrete coring machine (≤6-inch-dia)	150 day	Slip / threaded cap, 2-inch or 4-inch diameter, PVC Schedule 40	15 each
Consumables (gloves, rope, soap, tape, etc.)	35 day	Slope inclinometer	200 day
Core sample boxes	11 each	Soil sampling T-handle (Encore)	10 day
Crack monitor	25 each	Soil sampling tripod	35 day
Cutoff saws, reciprocating, electric (Sawzall®)	75 day	Stainless steel bailer	40 day
Disposable bailers	12 each	Submersible pump, 10 gpm, high powered Grundfos 2-inch with controller	160 day
Disposable bladders	10 each	Submersible pump/transfer pump, 10-25 gpm	50 day
Dissolved oxygen meter	45 day	Support service truck usage (well installation, etc.)	200 day
DOT 55-gallon containment drum with lid	65 drum	Survey/fence stakes	8 each
Double-ring infiltrometer	125 day	Tedlar® bags	18 each
Dual-stage interface probe	80 day	Traffic cones (≤25)/barricades (single lane)	50 day
Dynamic Cone Penetrometer	400 day	Turbidity meter	70 day
Generator, portable gasoline fueled, 3,500 watts	90 day	Tyvek® suit (each)	18 each
Global Positioning System/Laser Range Finder	80 day	Vapor sampling box	55 day
Hand auger set	90 day	Vehicle usage (carrying equipment)	20 hour
HDPE safety fence (≤100 feet)	40 roll	VelociCalc	35 day
Horiba U-51 water quality meter	135 day	Visqueen (20 x 100 feet)	100 roll
Light tower (towable vertical mast)	150 day	Water level indicator (electronic well sounder) <300 feet deep well	60 day
Magnehelic gauge	15 day	ZIPLEVEL®	15 day
Manometer	25 day		

Other specialized geotechnical and environmental testing & monitoring equipment are available, and priced per site

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**TERMS & CONDITIONS**

- **Expiration:** This fee schedule is effective through December 31, 2019 after which remaining work will be billed at then-current rates.
- **Proposal Expiration:** Proposals are valid for at least 30 days, subject to change after 30 days; unless otherwise stated in the attached proposal.
- **Prevailing Wages:** Our fees for prevailing wage work are based upon California prevailing wage laws and wage determinations. Unless specifically indicated in our proposal, costs for apprentice are not included. If we are required to have an apprentice on your project, you will be notified and additional fees will be charged.
- **Overtime:** Standard overtime rate is per California Labor Law and is billed at 1.5 or 2 times their hourly billing rate. Overtime rate for non-exempt field personnel working on a Leighton observed holiday is billed at 2 times their hourly billing rate. Overtime rate for Prevailing wage work is per the California Department of Industrial Relations (DIR) determination and is multiplied at 1.5 to 2 times their hourly billing rate.
- **Expert Witness Time:** Expert witness deposition and testimony will be charged at 2 times hourly rates listed on the previous pages, with a minimum charge of four hours per day.
- **Minimum Field Hourly Charges:** For Field Technicians, Special Inspectors or any on-site (field) materials testing services:
  - 4 hours: 4-hour minimum charge up to the first four hours of work
  - 8 hours: 8-hour minimum charge for over four hours of work, up to eight hours.
 Project time accrued includes portal to portal travel time.
- **Outside Direct Costs:** Heavy equipment, subcontractor fees and expenses, project-specific permits and/or licenses, project-specific supplemental insurance, travel, subsistence, project-specific parking charges, shipping, reproduction, and other reimbursable expenses will be invoiced at cost plus 18%, unless billed directly to and paid by client.
- **Insurance & Limitation of Liability:** These rates are predicated on standard insurance coverage and a limit of Leighton's liability equal to our total fees for a given project.
- **Invoicing:** Invoices are rendered monthly, payable upon receipt in United States dollars. A service charge of 1½-percent per month will be charged for late payment.
- **Client Disclosures:** Client agrees to provide all information in Client's possession about actual or possible presence of buried utilities and hazardous materials on the project site, prior to fieldwork, and agrees to reimburse Leighton for all costs related to unanticipated discovery of utilities and/or hazardous materials. Client is also responsible for providing safe and legal access to the project site for all Leighton field personnel.
- **Earth Material Samples:** Quoted testing unit rates are for soil and/or rock (earth) samples free of hazardous materials. Additional costs will accrue beyond these standard testing unit rates for handling, testing and/or disposing of soil and/or rock containing hazardous materials. Hazardous materials will be returned to the site or the site owner's designated representative at additional cost not included in listed unit rates. Standard turn-around time for geotechnical-laboratory test results is 10 working days. Samples will be stored for 2 months, after which they will be discarded. Prior documented notification is required if samples need to be stored for a longer time. A monthly storage fee of \$10 per bag and \$5 per sleeve or tube will be applied. Quoted unit rates are only for earth materials sampled in the United States. There may be additional cost for handling imported samples.
- **Construction Material Samples:** After all designated 28-day breaks for a given sample set meet specified compressive or other client-designated strength, all "hold" cylinders or specimens will be automatically disposed of, unless specified in writing prior to the 28-day break. All other construction materials will be disposed of after completion of testing and reporting

### SCOPE OF WORK AGREEMENT

Tasks outlined in this *Scope of Work Agreement* for geotechnical (backfill) testing services during pipeline installation, effective February 16, 2021, will be performed in accordance with our existing Agreement for Goods/Technical Services Between South Orange County Wastewater Authority and Leighton Consulting, Inc. for Geotechnical Observation and Materials Testing/Inspection Services, dated (effective) November 22, 2019, in effect until December 31, 2022.

**PROJECT LOCATION:** SOCWA access road between Coastal facility and Alicia Parkway, City of Laguna Niguel, California

**DESCRIPTION OF SERVICES:** Geotechnical (soils density) and laboratory testing of pipeline backfill. See Proposal (IR21-055) dated February 16, 2021.

**LEIGHTON CONSULTING:**

Leighton Consulting, Inc.  
17781 Cowan  
Irvine, California 92614  
Telephone: (949) 250-1421  
Email: [jhull@leightogroup.com](mailto:jhull@leightogroup.com)  
Prime Contact: **Mr. Jeff Hull**

**CLIENT:**

South Orange County Wastewater Authority  
34156 Del Obispo  
Dana Point, California 92629  
Telephone: (949) 234-5404  
Email: [dbaranowski@socwa.com](mailto:dbaranowski@socwa.com)  
Prime Contact: **Mr. David Baranowski**

**FEE:** Our services during construction shall be undertaken on a time-and-expense basis using Prevailing Wage rates, for a total estimated fee **Seventy Nine Thousand Eight Hundred Seventy Nine Dollars (\$79,879.00)**. Our labor rates will be invoiced in accordance with the attached *2019 Professional Fee Schedule (discounted 10%)*.

I have reviewed and agree to this scope of work.

**LEIGHTON CONSULTING, INC.**

**SOUTH ORANGE COUNTY  
WASTEWATER AUTHORITY**

\_\_\_\_\_  
By (Signature)

\_\_\_\_\_  
By (Signature)

\_\_\_\_\_  
(Print Name)

\_\_\_\_\_  
(Print Name)

\_\_\_\_\_  
Date

\_\_\_\_\_  
Date

February 24, 2021  
Proposal No. 04-03147

Mr. David Baranowski, P.E.  
South Orange County Water Authority  
34156 Del Obispo Street  
Dana Point, California 92629

Subject: Proposal for Geotechnical and Materials Testing Services  
Coastal Treatment Plant Export Sludge Force Main Project  
Orange County, California

Dear Mr. Baranowski:

Ninyo & Moore is pleased to submit this proposal for the geotechnical and materials testing services during construction of the Coastal Treatment Plant Export Sludge Force Main project in Orange County, California. Ninyo & Moore provided the project geotechnical investigation and design work. Therefore, we are very familiar with the project requirements. Based on our review of the project plans and our discussions with you, we understand that the project will generally consist of installing a new 6-inch diameter pipe from the Coastal Treatment Plant to a tie-in point on Alicia Parkway. The pipe will be located within the Aliso Canyon Wilderness Park. The pipe alignment parallels the east side of Aliso Creek. The pipe will have up to 13 feet of backfill cover. Jack and bore of steel casing will be installed between Stations 74+00 and 80+63. Pipe concrete encasement will be constructed at Station 100+00. The project also includes a Terra Cell slope protection system, rip-rap, and rock groin to protect the creek banks. We also understand that the anticipated level of effort for inspection and testing is 67 days.

## SCOPE OF SERVICES

Based on our understanding of the proposed construction and our experience with similar projects, we propose to provide the following scope of services:

- Project coordination and management, including work scheduling and review of the project plans, specifications and contract documents.
- Field Technician services for observation, sampling and testing during trench backfill, subgrade preparation and aggregate base placement. Field density tests will be taken to check the contractor's compaction efforts.
- Field American Concrete Institute (ACI) Concrete Technician services for observation, sampling and testing of concrete including checking mix design, temperature, slump, air entrained, unit weight and casting a set of compressive strength samples for each batch of material.

- Laboratory testing, including proctor density, sieve analysis, sand equivalent and compressive strength testing of concrete samples obtained in the field.
- Preparation of daily reports and test data sheets to document the items inspected.
- Preparation of a Final Compaction report which presents our opinion of the field operations and summarizes the field density tests results.

## ASSUMPTIONS

Based on our experience with similar projects, the following assumptions have been made in the preparation of our scope of services:

- Our services will be scheduled and coordinated by the construction management and inspection team on an as-needed basis.
- Our services are subject to prevailing wage requirements.

## ESTIMATED FEE

We propose to provide our services on a time-and-materials basis in accordance with the attached Schedule of Fees and Schedule of Fees for Laboratory Testing. Our estimated fees for the scope of services described herein are presented in the attached Table 1.

Ninyo & Moore appreciates the opportunity to provide services on this project, and we look forward to working with you.

Sincerely,  
**NINYO & MOORE**



Michael Putt  
Principal Geologist

MLP/AR/mlc



Alfredo "Tino" Rodriguez  
Principal/Construction Services

Attachments: Table 1 – Breakdown of Estimated Fee  
Schedule of Fees

**Table 1 - Breakdown of Estimated Fee****Field Services**

Senior Project Engineer/Geologist	8 hours @ \$ 163.00 /hour	\$ 1,304.00
Senior Field Technician - Trench Backfill	440 hours @ \$ 97.00 /hour	\$ 42,680.00
Senior ACI Concrete Technician	8 hours @ \$ 97.00 /hour	\$ 776.00
Vehicle and Equipment Expense	456 hours @ \$ 15.00 /hour	\$ 6,840.00
	<b>Subtotal</b>	<b>\$ 51,600.00</b>

**Laboratory Testing**

Proctor Density	16 tests @ \$ 220.00 /test	\$ 3,520.00
Sieve Analysis	4 tests @ \$ 145.00 /test	\$ 580.00
Sand Equivalent	2 tests @ \$ 125.00 /test	\$ 250.00
Compressive Strength (Concrete)	8 tests @ \$ 30.00 /test	\$ 240.00
		<b>\$ 4,590.00</b>

**Project Coordination and Management**

Principal Project Engineer/Geologist	8 hours @ \$ 178.00 /hour	\$ 1,424.00
Senior Project Engineer/Geologist	32 hours @ \$ 163.00 /hour	\$ 5,216.00
	<b>Subtotal</b>	<b>\$ 6,640.00</b>

**Report Preparation**

Principal Engineer/Geologist	4 hours @ \$ 178.00 /hour	\$ 712.00
Senior Project Engineer/Geologist	12 hours @ \$ 163.00 /hour	\$ 1,956.00
Data Processing	4 hours @ \$ 73.00 /hour	\$ 292.00
	<b>Subtotal</b>	<b>\$ 2,960.00</b>

**TOTAL ESTIMATED FEE****\$ 65,790.00**



## Schedule of Fees

### Hourly Charges for Personnel

#### Professional Staff

Principal Engineer/Geologist/Environmental Scientist/Certified Industrial Hygienist .....	\$ 178
Senior Engineer/Geologist/Environmental Scientist .....	\$ 168
Senior Project Engineer/Geologist/Environmental Scientist .....	\$ 163
Project Engineer/Geologist/Environmental Scientist .....	\$ 156
Senior Staff Engineer/Geologist/Environmental Scientist .....	\$ 142
Staff Engineer/Geologist/Environmental Scientist .....	\$ 126
GIS Analyst .....	\$ 116
Technical Illustrator/CAD Operator .....	\$ 92

#### Field Staff

Certified Asbestos/Lead Technician .....	\$ 163
Field Operations Manager .....	\$ 112
Nondestructive Examination Technician (UT, MT, LP) .....	\$ 108
Supervisory Technician .....	\$ 98
Special Inspector (Concrete, Masonry, Structural Steel, Welding, and Fireproofing) .....	\$ 98
Senior Technician .....	\$ 97
Technician .....	\$ 92

#### Administrative Staff

Information Specialist .....	\$ 78
Geotechnical/Environmental/Laboratory Assistant .....	\$ 76
Data Processor .....	\$ 73

### Other Charges

Concrete Coring Equipment (includes technician) .....	\$ 190/hr
Anchor Load Test Equipment (includes technician) .....	\$ 190/hr
GPR Equipment .....	\$ 180/hr
Inclinometer .....	\$ 100/hr
Hand Auger Equipment .....	\$ 80/hr
Rebar Locator (Pachometer) .....	\$ 25/hr
Vapor Emission Kit .....	\$ 65/kit
Nuclear Density Gauge .....	\$ 12/hr
X-Ray Fluorescence .....	\$ 70/hr
PID/FID .....	\$ 25/hr
Air Sampling Pump .....	\$ 10/hr
Field Vehicle .....	\$ 15/hr
Expert Witness Testimony .....	\$ 450/hr
Direct Expenses .....	Cost plus 15 %
Special equipment charges will be provided upon request.	

### Notes

For field and laboratory technicians and special inspectors, overtime rates at 1.5 times the regular rates will be charged for work performed in excess of 8 hours in one day Monday through Friday and all day on Saturday. Rates at twice the regular rates will be charged for all work in excess of 12 hours in one day, all day Sunday and on holidays.

Field technician and special inspection hours are charged at a 4-hour minimum, and 8-hour minimum for hours exceeding 4 hours.

Invoices are payable upon receipt. A service charge of 1.5 percent per month may be charged on accounts not paid within 30 days.

Our rates will be adjusted in conjunction with the increase in the Prevailing Wage Determination during the life of the project, as applicable.

The terms and conditions are included in Ninyo & Moore's Work Authorization and Agreement form.

## Schedule of Fees for Laboratory Testing

### SOILS

Atterberg Limits, D 4318, CT 204	\$ 170
California Bearing Ratio (CBR), D 1883	\$ 550
Chloride and Sulfate Content, CT 417 & CT 422	\$ 175
Consolidation, D 2435, CT 219	\$ 300
Consolidation, Hydro-Collapse only, D 2435	\$ 150
Consolidation – Time Rate, D 2435, CT 219	\$ 200
Direct Shear – Remolded, D 3080	\$ 350
Direct Shear – Undisturbed, D 3080	\$ 300
Durability Index, CT 229	\$ 175
Expansion Index, D 4829, IBC 18-3	\$ 190
Expansion Potential (Method A), D 4546	\$ 170
Geofabric Tensile and Elongation Test, D 4632	\$ 200
Hydraulic Conductivity, D 5084	\$ 350
Hydrometer Analysis, D 422, CT 203	\$ 220
Moisture, Ash, & Organic Matter of Peat/Organic Soils	\$ 120
Moisture Only, D 2216, CT 226	\$ 35
Moisture and Density, D 2937	\$ 45
Permeability, CH, D 2434, CT 220	\$ 300
pH and Resistivity, CT 643	\$ 175
Proctor Density D1557, D 698, CT 216, AASHTO T-180	\$ 220
Proctor Density with Rock Correction D 1557	\$ 340
R-value, D 2844, CT 301	\$ 375
Sand Equivalent, D 2419, CT 217	\$ 125
Sieve Analysis, D 422, CT 202	\$ 145
Sieve Analysis, 200 Wash, D 1140, CT 202	\$ 100
Specific Gravity, D 854	\$ 125
Thermal Resistivity (ASTM 5334, IEEE 442)	\$ 925
Triaxial Shear, C.D., D 4767, T 297	\$ 550
Triaxial Shear, C.U., w/pore pressure, D 4767, T 2297 per pt	\$ 450
Triaxial Shear, C.U., w/o pore pressure, D 4767, T 2297 per pt	\$ 350
Triaxial Shear, U.U., D 2850	\$ 250
Unconfined Compression, D 2166, T 208	\$ 180

### MASONRY

Brick Absorption, 24-hour submersion, 5-hr boiling, 7-day, C 67	\$ 70
Brick Compression Test, C 67	\$ 55
Brick Efflorescence, C 67	\$ 55
Brick Modulus of Rupture, C 67	\$ 50
Brick Moisture as received, C 67	\$ 45
Brick Saturation Coefficient, C 67	\$ 60
Concrete Block Compression Test, 8x8x16, C 140	\$ 70
Concrete Block Conformance Package, C 90	\$ 500
Concrete Block Linear Shrinkage, C 426	\$ 200
Concrete Block Unit Weight and Absorption, C 140	\$ 70
Cores, Compression or Shear Bond, CA Code	\$ 70
Masonry Grout, 3x3x6 prism compression, C 39	\$ 45
Masonry Mortar, 2x4 cylinder compression, C 109	\$ 35
Masonry Prism, half size, compression, C 1019	\$ 120
Masonry Prism, Full size, compression, C 1019	\$ 200

### REINFORCING AND STRUCTURAL STEEL

Chemical Analysis, A 36, A 615	\$ 135
Fireproofing Density Test, UBC 7-6	\$ 90
Hardness Test, Rockwell, A 370	\$ 80
High Strength Bolt, Nut & Washer Conformance, per assembly, A 325	\$ 150
Mechanically Spliced Reinforcing Tensile Test, ACI	\$ 175
Pre-Stress Strand (7 wire), A 416	\$ 170
Reinforcing Tensile or Bend up to No. 11, A 615 & A 706	\$ 75
Structural Steel Tensile Test: Up to 200,000 lbs., A 370	\$ 90
Welded Reinforcing Tensile Test: Up to No. 11 bars, ACI	\$ 80
Specific Gravity and Absorption, Coarse, C 127, CT 206	\$ 115

### ROOFING

Built-Up Roofing, Cut-Out Samples, D 2829	\$165/200
Roofing Materials Analysis, D 2829	\$500/750
Roofing Tile Absorption, (set of 5), C 67	\$ 250
Roofing Tile Strength Test, (set of 5), C 67	\$ 250

Special preparation of standard test specimens will be charged at the technician's hourly rate.  
Ninyo & Moore is accredited to perform the AASHTO equivalent of many ASTM test procedures.

### CONCRETE

Cement Analysis Chemical and Physical, C 109	\$ 1650/1850
Compression Tests, 6x12 Cylinder, C 39	\$ 35
Concrete Mix Design Review, Job Spec	\$ 300
Concrete Mix Design, per Trial Batch, 6 cylinder, ACI	\$ 850
Concrete Cores, Compression (excludes sampling), C 42	\$ 120
Drying Shrinkage, C 157	\$ 400
Flexural Test, C 78	\$ 85
Flexural Test, C 293	\$ 85
Flexural Test, CT 523	\$ 95
Gunite/Shotcrete, Panels, 3 cut cores per panel and test, ACI	\$ 275
Lightweight Concrete Fill, Compression, C 495	\$ 80
Petrographic Analysis, C 856	\$ 2,000
Restrained Expansion of Shrinkage Compensation	\$ 450
Splitting Tensile Strength, C 496	\$ 100
3x6 Grout, (CLSM), C 39	\$ 55
2x2x2 Non-Shrink Grout, C 109	\$ 55

### ASPHALT

Air Voids, T 269	\$ 85
Asphalt Mix Design, Caltrans (incl. Aggregate Quality)	\$ 4,500
Asphalt Mix Design Review, Job Spec	\$ 180
Dust Proportioning, CT LP-4	\$ 85
Extraction, % Asphalt, including Gradation, D 2172, CT 382	\$ 250
Extraction, % Asphalt without Gradation, D 2172, CT 382	\$ 150
Film Stripping, CT 302	\$ 120
Hveem Stability and Unit Weight D 1560, T 246, CT 366	\$ 225
Marshall Stability, Flow and Unit Weight, T 245	\$ 240
Maximum Theoretical Unit Weight, D 2041, CT 309	\$ 150
Moisture Content, CT 370	\$ 95
Moisture Susceptibility and Tensile Stress Ratio, T 238, CT 371	\$ 1,000
Slurry Wet Track Abrasion, D 3910	\$ 150
Superpave, Asphalt Mix Verification (incl. Aggregate Quality)	\$ 4,900
Superpave, Gyration Unit Wt., T 312	\$ 100
Superpave, Hamburg Wheel, 20,000 passes, T 324	\$ 1,000
Unit Weight sample or core, D 2726, CT 308	\$ 100
Voids in Mineral Aggregate, (VMA) CT LP-2	\$ 90
Voids filled with Asphalt, (VFA) CT LP-3	\$ 90
Wax Density, D 1188	\$ 140

### AGGREGATES

Absorption, Coarse, C 127	\$ 40/60
Absorption, Fine, C 128	\$ 40/60
Clay Lumps and Friable Particles, C 142	\$ 180
Cleaness Value, CT 227	\$ 180
Crushed Particles, CT 205	\$ 175
Durability, Coarse or Fine, CT 229	\$ 205
Fine Aggregate Angularity, ASTM C 1252, T 304, CT 234	\$ 180
Flat and Elongated Particle, D 4791	\$ 220
Lightweight Particles, C 123	\$ 180
Los Angeles Abrasion, C 131 or C 535	\$ 200
Material Finer than No. 200 Sieve by Washing, C 117	\$ 90
Mortar Making Properties of Fine Aggregate, C 87	\$ 275/350
Organic Impurities, C 40	\$ 90
Potential Alkali Reactivity, Mortar Bar Method, Coarse, C 1260	\$ 1,250
Potential Alkali Reactivity, Mortar Bar Method, Fine, C 1260	\$ 950
Potential Reactivity of Aggregate (Chemical Method), C 289	\$ 475
Sand Equivalent, T 176, CT 217	\$ 125
Sieve Analysis, Coarse Aggregate, T 27, C 136	\$ 120
Sieve Analysis, Fine Aggregate (including wash), T 27, C 136	\$ 145
Sodium Sulfate Soundness, C 88	\$ 450
Specific Gravity and Absorption, Coarse, C 127, CT 206	\$ 115
Specific Gravity and Absorption, Fine, C 128, CT 207	\$ 175



# SOCWA Proposed CIP Budget

March 11, 2021

Agenda Item No. 9

# Updates from February CIP Draft Budget

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- Updated PC 2 Package B and PC 15 Facility Improvements costs expected to carry into FY 21/22
- Scaled back new construction to allow for completion of current projects
- Added Small Cap for FY 21/22 and FY 22/23
- Moved up PC 21 Trail Bridge Crossing Project to FY 21/22 based on current design and permitting schedule
- Moved PC 15 Sludge Force Main RTP replacement to FY 23/24

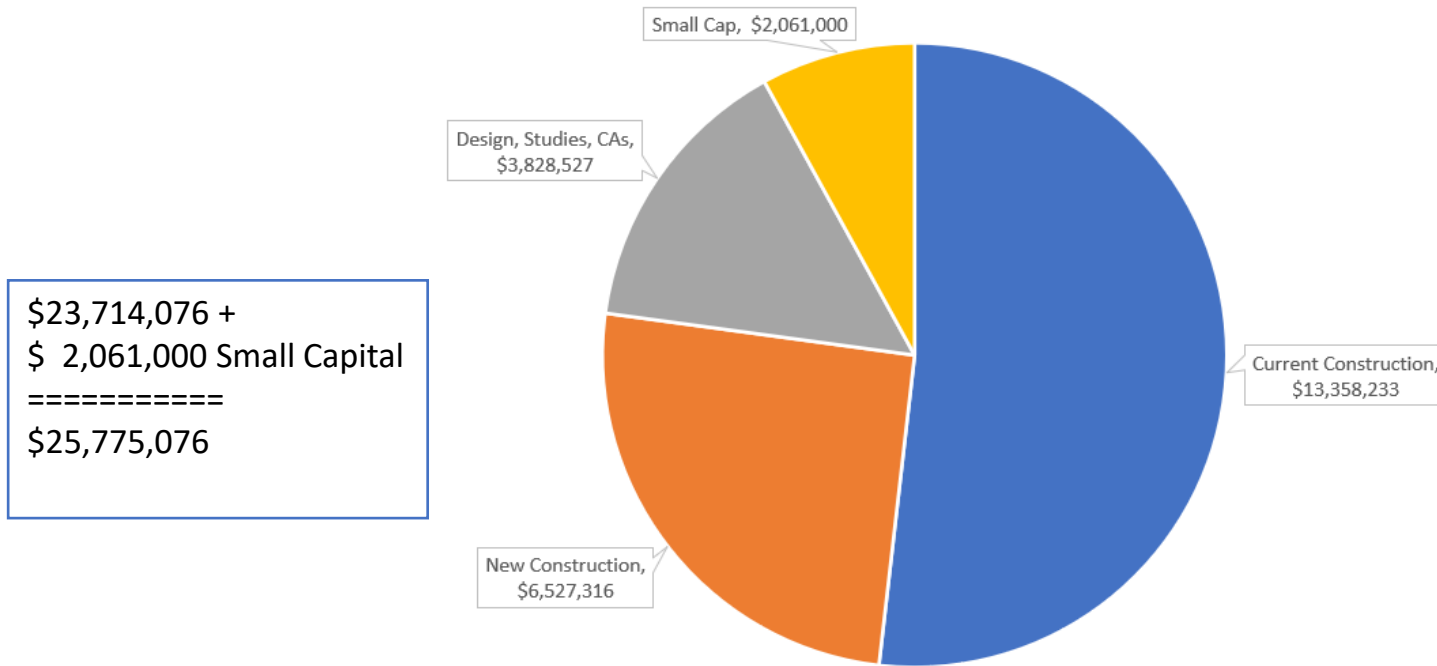
# Current Fiscal Year Update

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- New Non-Capital Expenses (not included in previous years)
  - 5 Year Arc Flash Study for Each Treatment Plant
  - NFPA Area Classification for Hazardous Environments
  - DHS Facility Compliance Review
  - Site Storage Evaluation

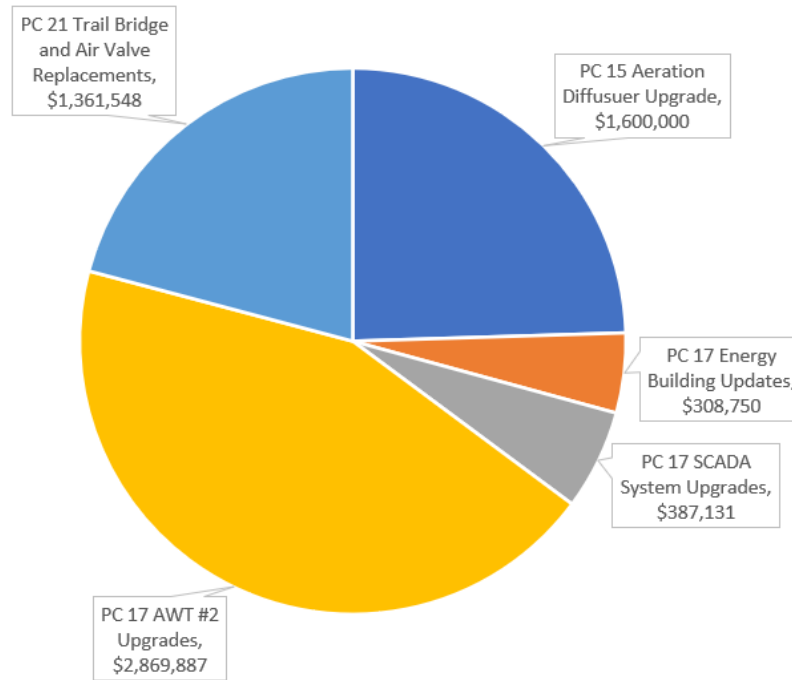
# FY 2022 Proposed Budget by Spending Type

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# FY 2022 Proposed New Construction Projects

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**Table 1-1 - City of Laguna Beach Proposed FY22 & FY23 Capital Improvement Budget (plus three year outlook)**

	Area	Year	Project Name	FY 21/22	FY 22/23	FY 23/24	FY 24/25	FY 25/26		
PC 15	Liquids	2022								
		35222L	Aeration Upgrade	\$ 607,000	\$ 2,426,000	\$ -	\$ -	\$ -		
		35235L	Fiber Installation to Alicia Parkway	\$ 25,000	\$ -	\$ -	\$ -	\$ -		
		3525-000	Personnel Building Reconstruction	\$ 57,000	\$ -	\$ -	\$ -	\$ -		
		3539-000	Facility Construction Improvements - Part II (2020)	\$ 948,000	\$ -	\$ -	\$ -	\$ -		
		3541-000	Export Sludge System Construction (2020)	\$ 1,231,000	\$ 528,000	\$ -	\$ -	\$ -		
		45212L	Site Storage Evaluation	\$ 19,000	\$ -	\$ -	\$ -	\$ -		
		45221L	Foul Air System Condition Assessment	\$ 29,000	\$ -	\$ -	\$ -	\$ -		
		45222L	Headworks Condition Assessment	\$ 47,000	\$ -	\$ -	\$ -	\$ -		
		45223L	Drainage Pump Station Condition Assessment	\$ 66,000	\$ -	\$ -	\$ -	\$ -		
		45226L	Consequence of Failure Analysis	\$ 19,000	\$ -	\$ -	\$ -	\$ -		
		55221L	DHS Facility Compliance Review	\$ 7,000	\$ 7,000	\$ -	\$ -	\$ -		
		55222L	NFPA 70 Classification Mapping	\$ 11,000	\$ -	\$ -	\$ -	\$ -		
				2023						
				35233L	Vehicle Storage Building Mezzanine Upgrades	\$ -	\$ 32,000	\$ -	\$ -	\$ -
				2024						
				15102	Odor Control Scrubber/Foul Air System Reconstruction	\$ -	\$ -	\$ 628,000	\$ -	\$ -
				15105	Headworks Screen Drum Replacement	\$ -	\$ -	\$ 273,000	\$ -	\$ -
				15119	Maintenance Building Upgrade	\$ -	\$ -	\$ 280,000	\$ -	\$ -
				15144	Standby Power Condition Assessment	\$ -	\$ -	\$ 28,000	\$ -	\$ -
				3543-000	Export Sludge Pipeline Replacement at RTP (2021)	\$ -	\$ -	\$ 180,000	\$ -	\$ -
				2025						
				15102	Odor Control Scrubber/Foul Air System Reconstruction	\$ -	\$ -	\$ -	\$ 633,000	\$ -
				15147	Pavement and Surface Drainage Master Plan	\$ -	\$ -	\$ -	\$ 33,000	\$ -
				15713	North Section Embankment Protection	\$ -	\$ -	\$ -	\$ 406,000	\$ -
				2026						
				15101	Grit Handling Upgrade	\$ -	\$ -	\$ -	\$ -	\$ 362,000
				15106	DAF Polymer and DAF Control Building Upgrade	\$ -	\$ -	\$ -	\$ -	\$ 183,000
				15132	Channel Lining	\$ -	\$ -	\$ -	\$ -	\$ 382,000
				15148	Instrumentation Master Plan	\$ -	\$ -	\$ -	\$ -	\$ 34,000
				<b>Liquids Total</b>		<b>\$ 3,066,000</b>	<b>\$ 2,993,000</b>	<b>\$ 1,389,000</b>	<b>\$ 1,072,000</b>	<b>\$ 961,000</b>
<b>PC 15 Total</b>				<b>\$ 3,066,000</b>	<b>\$ 2,993,000</b>	<b>\$ 1,389,000</b>	<b>\$ 1,072,000</b>	<b>\$ 961,000</b>		



**Table 1-1 - City of Laguna Beach Proposed FY22 & FY23 Capital Improvement Budget (plus three year outlook)**

PC 17	Common	2022												
		37224C	SCADA System Upgrade Project	\$	24,000	\$	-	\$	-	\$	-	\$	-	
		37229C	Energy Building Updates	\$	19,000	\$	10,000	\$	-	\$	-	\$	-	
		47212C	Site Storage Evaluation	\$	5,000	\$	-	\$	-	\$	-	\$	-	
		47223C	Energy Building Condition Assessment	\$	9,000	\$	-	\$	-	\$	-	\$	-	
		47224C	Consequence of Failure Analysis	\$	3,000	\$	-	\$	-	\$	-	\$	-	
		57221C	NFPA 70 Classification Mapping	\$	2,000	\$	-	\$	-	\$	-	\$	-	
		57222C	DHS Facility Compliance Review	\$	1,000	\$	1,000	\$	-	\$	-	\$	-	
		57223C	Arc Flash 5-Year Update	\$	1,000	\$	-	\$	-	\$	-	\$	-	
			2023											
			37235C	Instrumentation Plan	\$	-	\$	6,000	\$	-	\$	-	\$	-
			2024											
			17329	Laboratory Reconstruction	\$	-	\$	-	\$	37,000	\$	37,000	\$	-
			17331	Energy Building Repair and Rehabilitation	\$	-	\$	-	\$	118,000	\$	-	\$	-
			17332	Maintenance Shop Rehabilitation	\$	-	\$	-	\$	23,000	\$	-	\$	-
			17337	West Side Storm Channel Reconstruction - Phase I	\$	-	\$	-	\$	36,000	\$	36,000	\$	-
			17345	Energy Building HVAC Upgrade	\$	-	\$	-	\$	34,000	\$	-	\$	-
			17348	Secondary Access Road	\$	-	\$	-	\$	23,000	\$	-	\$	-
			17357	MCC D, E, & F Condition Assessment	\$	-	\$	-	\$	3,000	\$	-	\$	-
			37234C	Electrical Box Reconstruction	\$	-	\$	-	\$	28,000	\$	84,000	\$	-
			2026											
			17320	Plant Drainage Pump Station Reconstruction	\$	-	\$	-	\$	-	\$	-	\$	45,000
			17323	PW Hypochlorite Pump and Instrument Replacement	\$	-	\$	-	\$	-	\$	-	\$	12,000
			17349	Underground Piping Reconstruction Area A	\$	-	\$	-	\$	-	\$	-	\$	4,000
			17350	Underground Piping Reconstruction Area B	\$	-	\$	-	\$	-	\$	-	\$	14,000
			17355	Pavement and Surface Drainage Master Plan	\$	-	\$	-	\$	-	\$	-	\$	7,000
			<b>Common Total</b>		\$	<b>65,000</b>	\$	<b>18,000</b>	\$	<b>302,000</b>	\$	<b>157,000</b>	\$	<b>82,000</b>
			Solids	2022										
			3771-000	Miscellaneous Safety Improvements - Solids (2020)	\$	7,000	\$	-	\$	-	\$	-	\$	-
			3773-000	Co-Generation System Modifications (2020)	\$	33,000	\$	-	\$	-	\$	-	\$	-
			57224S	Cogen SGIP	\$	1,000	\$	1,000	\$	-	\$	-	\$	-
			2024											
			17528	Heating System Reconstruction	\$	-	\$	-	\$	23,000	\$	58,000	\$	150,000
	17538	Digested and Eq Sludge Pump VFD Replacement	\$	-	\$	-	\$	37,000	\$	-	\$	-		
	2025													
	17525	Solids Building Structural Rehabilitation	\$	-	\$	-	\$	-	\$	40,000	\$	-		
	17526	MCC D Replacement	\$	-	\$	-	\$	-	\$	67,000	\$	-		
	17529	Digester Gas Management Building Rehabilitation	\$	-	\$	-	\$	-	\$	48,000	\$	-		
	17532	Dewatering System Reconstruction	\$	-	\$	-	\$	-	\$	46,000	\$	232,000		
	17533	Solids Conveyor Replacement	\$	-	\$	-	\$	-	\$	25,000	\$	173,000		
	2026													
	17534	Storage and Truck loading Rehabilitation	\$	-	\$	-	\$	-	\$	-	\$	106,000		
	<b>Solids Total</b>		\$	<b>40,000</b>	\$	<b>1,000</b>	\$	<b>60,000</b>	\$	<b>284,000</b>	\$	<b>660,000</b>		
<b>PC 17 Total</b>			\$	<b>105,000</b>	\$	<b>18,000</b>	\$	<b>362,000</b>	\$	<b>441,000</b>	\$	<b>742,000</b>		

**Table 1-1 - City of Laguna Beach Proposed FY22 & FY23 Capital Improvement Budget (plus three year outlook)**

PC 24	N/A	2022									
		3480-000	Internal Seal Replacement	\$	19,000	\$	-	\$	-	\$	-
		442220	Golf Course Road Condition Assessmnet	\$	5,000	\$	-	\$	-	\$	-
		2025									
		24112	Metering Station Reconstruction Design and Permitting	\$	-	\$	-	\$	-	\$	19,000
		2026									
		24113	Metering Station Reconstruction	\$	-	\$	-	\$	-	\$	267
		<b>N/A Total</b>		\$	<b>24,000</b>	\$	<b>-</b>	\$	<b>-</b>	\$	<b>19,000</b>
<b>PC 24 Total</b>				\$	<b>24,000</b>	\$	<b>-</b>	\$	<b>-</b>	\$	<b>19,000</b>
<b>Grand Total</b>				\$	<b>3,195,000</b>	\$	<b>3,011,000</b>	\$	<b>1,751,000</b>	\$	<b>1,532,000</b>
										\$	<b>1,703,000</b>

**Table 1-2 - City of San Clemente Proposed FY22 & FY23 Capital Improvement Budget (plus three year outlook)**

	Area	Year	Project Name	Values				
				FY 21/22	FY 22/23	FY 23/24	FY 24/25	FY 25/26
PC 05	N/A	2024						
		05057	Diffuser Port Duckbill Design	\$ -	\$ -	\$ 6,000	\$ -	\$ -
		2025						
		05058	Diffuser Port Duckbill Construction	\$ -	\$ -	\$ -	\$ 65,000	\$ -
		05059	Monitoring Vault Reconstruction	\$ -	\$ -	\$ -	\$ 32,000	\$ -
		2026						
		05060	Outfall Inspection Concept Development	\$ -	\$ -	\$ -	\$ -	\$ 15,000
<b>N/A Total</b>				<b>\$ -</b>	<b>\$ -</b>	<b>\$ 6,000</b>	<b>\$ 97,000</b>	<b>\$ 15,000</b>
<b>Grand Total</b>				<b>\$ -</b>	<b>\$ -</b>	<b>\$ 6,000</b>	<b>\$ 97,000</b>	<b>\$ 15,000</b>

**Table 1-3 - City of San Juan Capistrano Proposed FY22 & FY23 Capital Improvement Budget (plus three year outlook)**

PC 02	Area	Year	Project Name	Values					
				FY 21/22	FY 22/23	FY 23/24	FY 24/25	FY 25/26	
	Common	2022							
			3229-000 Drainage Pump Station Reconstruction (2021)	\$ 41,000	\$ 14,000	\$ -	\$ -	\$ -	\$ -
			3231-000 Facility Improvements B - Common Upgrades Construction II	\$ 194,000	\$ 49,000	\$ -	\$ -	\$ -	\$ -
			42217C Site Storage Evaluation	\$ 19,000	\$ -	\$ -	\$ -	\$ -	\$ -
			42219C Electrical Conduit and Cable Master Plan	\$ 19,000	\$ -	\$ -	\$ -	\$ -	\$ -
			52221C Arc Flash 5-Year Update	\$ 2,000	\$ -	\$ -	\$ -	\$ -	\$ -
			52222C NFPA 70 Classification Mapping	\$ 9,000	\$ -	\$ -	\$ -	\$ -	\$ -
			52223C DHS Facility Compliance Review	\$ 5,000	\$ 5,000	\$ -	\$ -	\$ -	\$ -
		2024							
			2335 Administration Building Condition Assessment	\$ -	\$ -	\$ 9,000	\$ -	\$ -	\$ -
			2336 Administration Building Spatial Evaluation	\$ -	\$ -	\$ 14,000	\$ -	\$ -	\$ -
		2026							
			2321 Odor Control Scrubber No.2 Replacement	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 608,000
			2337 Administration Building Roof Reconstruction	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 126,000
			2338 Administration Building HVAC Reconstruction	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 61,000
			2342 Maintenance Shop Rehabilitation	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 74,000
			2350 Buried Water Pipe Reconstruction	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 374,000
	<b>Common Total</b>			<b>\$ 289,000</b>	<b>\$ 67,000</b>	<b>\$ 23,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,243,000</b>
	Liquids	2022							
			3220-000 Facility Improvements B - Basin Upgrades Construction II	\$ 738,000	\$ 185,000	\$ -	\$ -	\$ -	\$ -
		2023							
			32228L MCC M Replacement	\$ -	\$ 377,000	\$ 162,000	\$ -	\$ -	\$ -
		2024							
			2067 Plant 2 Headworks Condition Assessment	\$ -	\$ -	\$ 16,000	\$ -	\$ -	\$ -
			2069 Plant 2 Blower Building Condition Assessment	\$ -	\$ -	\$ 19,000	\$ -	\$ -	\$ -
			2078 Scum Pump Station Upgrade	\$ -	\$ -	\$ 206,000	\$ -	\$ -	\$ -
			2088 Effluent Pipeline Condition Assessment	\$ -	\$ -	\$ 70,000	\$ -	\$ -	\$ -
			2089 Effluent Flow Metering Evaluation	\$ -	\$ -	\$ 21,000	\$ -	\$ -	\$ -
		2026							
			2051 Influent Diversion Structure Upgrade	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 146,000
			2055 Plant 1 Headworks Upgrade	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 617,000
			2080 Odor Control Scrubber No.3 Installation	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 60,000
			2081 Sodium Hypochlorite System Reconstruction	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 222,000
			2090 Odor Control Scrubber No.1 Replacement	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 347,000
			2101 Effluent Pump VFD Replacement	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 101,000
	<b>Liquids Total</b>			<b>\$ 738,000</b>	<b>\$ 562,000</b>	<b>\$ 494,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,492,000</b>

**Table 1-3 - City of San Juan Capistrano Proposed FY22 & FY23 Capital Improvement Budget (plus three year outlook)**

			Values					
PC 02	Solids	2022						
		3234-000	Centrate Piping Reconstruction (2021)	\$ 60,000	\$ -	\$ -	\$ -	\$ -
		2023						
		32224S	Dewatering System, Truck Loading Area, and MCC 2 & CF Reconstruction	\$ -	\$ 425,000	\$ 425,000	\$ -	\$ -
		2024						
		2522	DAF Polymer System Upgrade	\$ -	\$ -	\$ 222,000	\$ -	\$ -
		2527	Anaerobic Digester No.3 and No.4 Control Building Upgrade	\$ -	\$ -	\$ 280,000	\$ -	\$ -
		2534	Buried Digester Piping Reconstruction	\$ -	\$ -	\$ 235,000	\$ -	\$ -
		2025						
		2526	Anaerobic Digester No.3 and No.4 Mechanical Upgrade	\$ -	\$ -	\$ -	\$ 249,000	\$ 249,000
		2026						
		2521	Odor Control Scrubber No.4 Installation	\$ -	\$ -	\$ -	\$ -	\$ 51,000
2540	Dewatering System Replacement	\$ -	\$ -	\$ -	\$ -	\$ 305,000		
<b>Solids Total</b>			<b>\$ 60,000</b>	<b>\$ 425,000</b>	<b>\$ 1,163,000</b>	<b>\$ 249,000</b>	<b>\$ 605,000</b>	
<b>PC 02 Total</b>			<b>\$ 1,087,000</b>	<b>\$ 1,054,000</b>	<b>\$ 1,679,000</b>	<b>\$ 249,000</b>	<b>\$ 3,339,000</b>	
PC 05	N/A	2024						
		05057	Diffuser Port Duckbill Design	\$ -	\$ -	\$ 4,000	\$ -	\$ -
		2025						
		05058	Diffuser Port Duckbill Construction	\$ -	\$ -	\$ -	\$ 43,000	\$ -
		05059	Monitoring Vault Reconstruction	\$ -	\$ -	\$ -	\$ 21,000	\$ -
		2026						
05060	Outfall Inspection Concept Development	\$ -	\$ -	\$ -	\$ -	\$ 10,000		
<b>N/A Total</b>			<b>\$ -</b>	<b>\$ -</b>	<b>\$ 4,000</b>	<b>\$ 64,000</b>	<b>\$ 10,000</b>	
<b>PC 05 Total</b>			<b>\$ -</b>	<b>\$ -</b>	<b>\$ 4,000</b>	<b>\$ 64,000</b>	<b>\$ 10,000</b>	
<b>Grand Total</b>			<b>\$ 1,087,000</b>	<b>\$ 1,054,000</b>	<b>\$ 1,683,000</b>	<b>\$ 313,000</b>	<b>\$ 3,349,000</b>	

**Table 1-4 - Emerald Bay Service District Proposed FY22 & FY23 Capital Improvement Budget (plus three year outlook)**

Area	Year	Project Name	Values						
			FY 21/22	FY 22/23	FY 23/24	FY 24/25	FY 25/26		
PC 15 Liquids	2022								
		35222L	Aeration Upgrade	\$ 48,000	\$ 191,000	\$ -	\$ -	\$ -	
		35235L	Fiber Installation to Alicia Parkway	\$ 2,000	\$ -	\$ -	\$ -	\$ -	
		3539-000	Facility Construction Improvements - Part II (2020)	\$ 75,000	\$ -	\$ -	\$ -	\$ -	
		3541-000	Export Sludge System Construction (2020)	\$ 97,000	\$ 42,000	\$ -	\$ -	\$ -	
		45212L	Site Storage Evaluation	\$ 1,000	\$ -	\$ -	\$ -	\$ -	
		45221L	Foul Air System Condition Assessment	\$ 2,000	\$ -	\$ -	\$ -	\$ -	
		45222L	Headworks Condition Assessment	\$ 4,000	\$ -	\$ -	\$ -	\$ -	
		45223L	Drainage Pump Station Condition Assessment	\$ 5,000	\$ -	\$ -	\$ -	\$ -	
		45226L	Consequence of Failure Analysis	\$ 1,000	\$ -	\$ -	\$ -	\$ -	
		55221L	DHS Facility Compliance Review	\$ 1,000	\$ 1,000	\$ -	\$ -	\$ -	
		55222L	NFPA 70 Classification Mapping	\$ 1,000	\$ -	\$ -	\$ -	\$ -	
		2023							
			35233L	Vehicle Storage Building Mezzanine Upgrades	\$ -	\$ 3,000	\$ -	\$ -	\$ -
	2024								
		3543-000	Export Sludge Pipeline Replacement at RTP (2021)	\$ -	\$ -	\$ 14,000	\$ -	\$ -	
		<b>Liquids Total</b>	<b>\$ 237,000</b>	<b>\$ 236,000</b>	<b>\$ 14,000</b>	<b>\$ -</b>	<b>\$ -</b>		
<b>PC 15 Total</b>			<b>\$ 237,000</b>	<b>\$ 236,000</b>	<b>\$ 14,000</b>	<b>\$ -</b>	<b>\$ -</b>		
PC 17 Common	2022								
		37224C	SCADA System Upgrade Project	\$ 1,000	\$ -	\$ -	\$ -	\$ -	
		37229C	Energy Building Updates	\$ 1,000	\$ 1,000	\$ -	\$ -	\$ -	
		47212C	Site Storage Evaluation	\$ 268	\$ -	\$ -	\$ -	\$ -	
		47223C	Energy Building Condition Assessment	\$ 495	\$ -	\$ -	\$ -	\$ -	
		47224C	Consequence of Failure Analysis	\$ 165	\$ -	\$ -	\$ -	\$ -	
		57221C	NFPA 70 Classification Mapping	\$ 99	\$ -	\$ -	\$ -	\$ -	
		57222C	DHS Facility Compliance Review	\$ 58	\$ 58	\$ -	\$ -	\$ -	
		57223C	Arc Flash 5-Year Update	\$ 26	\$ -	\$ -	\$ -	\$ -	
		2023							
			37235C	Instrumentation Plan	\$ -	\$ 331	\$ -	\$ -	\$ -
		2024							
			37234C	Electrical Box Reconstruction	\$ -	\$ -	\$ 1,000	\$ 4,000	\$ -
			<b>Common Total</b>	<b>\$ 3,000</b>	<b>\$ 1,000</b>	<b>\$ 1,000</b>	<b>\$ 4,000</b>	<b>\$ -</b>	
Solids	2022								
		3771-000	Miscellaneous Safety Improvements - Solids (2020)	\$ 377	\$ -	\$ -	\$ -	\$ -	
		3773-000	Co-Generation System Modifications (2020)	\$ 2,000	\$ -	\$ -	\$ -	\$ -	
		57224S	Cogen SGIP	\$ 35	\$ 35	\$ -	\$ -	\$ -	
		<b>Solids Total</b>	<b>\$ 2,000</b>	<b>\$ 35</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>		

**Table 1-4 - Emerald Bay Service District Proposed FY22 & FY23 Capital Improvement Budget (plus three year outlook)**

				Values				
<b>PC 17 Total</b>				\$ 6,000	\$ 1,000	\$ 1,000	\$ 4,000	\$ -
PC 24	N/A	2022						
		3480-000	Internal Seal Replacement	\$ 1,000	\$ -	\$ -	\$ -	\$ -
	44222O	Golf Course Road Condition Assessmnet	\$ 351	\$ -	\$ -	\$ -	\$ -	
<b>N/A Total</b>				\$ 2,000	\$ -	\$ -	\$ -	\$ -
<b>PC 24 Total</b>				\$ 2,000	\$ -	\$ -	\$ -	\$ -
<b>Grand Total</b>				\$ 244,000	\$ 237,000	\$ 16,000	\$ 4,000	\$ -

**Table 1-5 - El Toro Water District Proposed FY22 & FY23 Capital Improvement Budget (plus three year outlook)**

PC 17	Area	Year	Project Name	Values				
				FY 21/22	FY 22/23	FY 23/24	FY 24/25	FY 25/26
	Common	2022						
		37224C	SCADA System Upgrade Project	\$ 40,000	\$ -	\$ -	\$ -	\$ -
		37229C	Energy Building Updates	\$ 32,000	\$ 17,000	\$ -	\$ -	\$ -
		47212C	Site Storage Evaluation	\$ 8,000	\$ -	\$ -	\$ -	\$ -
		47223C	Energy Building Condition Assessment	\$ 15,000	\$ -	\$ -	\$ -	\$ -
		47224C	Consequence of Failure Analysis	\$ 5,000	\$ -	\$ -	\$ -	\$ -
		57221C	NFPA 70 Classification Mapping	\$ 3,000	\$ -	\$ -	\$ -	\$ -
		57222C	DHS Facility Compliance Review	\$ 2,000	\$ 2,000	\$ -	\$ -	\$ -
		57223C	Arc Flash 5-Year Update	\$ 1,000	\$ -	\$ -	\$ -	\$ -
		SC-17C	PC 17 Common Small Cap	\$ 21,000	\$ -	\$ -	\$ -	\$ -
		2023						
		37202C	West Slope Protection (2020)	\$ -	\$ 19,000	\$ -	\$ -	\$ -
		37203C	Admin. Bldg. Door and Window Repair (2020)	\$ -	\$ 14,000	\$ -	\$ -	\$ -
		37220C	West Side Storm Channel Reconstruction	\$ -	\$ 5,000	\$ 5,000	\$ -	\$ -
		37228C	MCC A, C, G, H Replacement (Common) (2021)	\$ -	\$ 45,000	\$ 19,000	\$ -	\$ -
		37235C	Instrumentation Plan	\$ -	\$ 10,000	\$ -	\$ -	\$ -
		3778-000	Site Lighting Upgrade - Common (2021)	\$ -	\$ 37,000	\$ 9,000	\$ -	\$ -
		SC-17C	PC 17 Common Small Cap	\$ -	\$ 21,000	\$ -	\$ -	\$ -
		2024						
		17329	Laboratory Reconstruction	\$ -	\$ -	\$ 61,000	\$ 61,000	\$ -
		17331	Energy Building Repair and Rehabilitation	\$ -	\$ -	\$ 193,000	\$ -	\$ -
		17332	Maintenance Shop Rehabilitation	\$ -	\$ -	\$ 37,000	\$ -	\$ -
		17337	West Side Storm Channel Reconstruction - Phase I	\$ -	\$ -	\$ 59,000	\$ 59,000	\$ -
		17345	Energy Building HVAC Upgrade	\$ -	\$ -	\$ 56,000	\$ -	\$ -
		17348	Secondary Access Road	\$ -	\$ -	\$ 37,000	\$ -	\$ -
		17357	MCC D, E, & F Condition Assessment	\$ -	\$ -	\$ 5,000	\$ -	\$ -
		37234C	Electrical Box Reconstruction	\$ -	\$ -	\$ 46,000	\$ 138,000	\$ -
		2025						
		37225C	Buried Water Pipe Reconstruction	\$ -	\$ -	\$ -	\$ 17,000	\$ 67,000
		2026						
		17320	Plant Drainage Pump Station Reconstruction	\$ -	\$ -	\$ -	\$ -	\$ 74,000
		17323	PW Hypochlorite Pump and Instrument Replacement	\$ -	\$ -	\$ -	\$ -	\$ 20,000
		17349	Underground Piping Reconstruction Area A	\$ -	\$ -	\$ -	\$ -	\$ 7,000
		17350	Underground Piping Reconstruction Area B	\$ -	\$ -	\$ -	\$ -	\$ 23,000
		17355	Pavement and Surface Drainage Master Plan	\$ -	\$ -	\$ -	\$ -	\$ 11,000
	<b>Common Total</b>			<b>\$ 127,000</b>	<b>\$ 169,000</b>	<b>\$ 527,000</b>	<b>\$ 274,000</b>	<b>\$ 201,000</b>



**Table 1-5 - El Toro Water District Proposed FY22 & FY23 Capital Improvement Budget (plus three year outlook)**

		Values						
PC 17	Solids	2022						
		3771-000	Miscellaneous Safety Improvements - Solids (2020)	\$ 13,000	\$ -	\$ -	\$ -	\$ -
		3773-000	Co-Generation System Modifications (2020)	\$ 59,000	\$ -	\$ -	\$ -	\$ -
		57224S	Cogen SGIP	\$ 1,000	\$ 1,000	\$ -	\$ -	\$ -
		SC-17S	PC 17 Solids Small Cap	\$ 34,000	\$ -	\$ -	\$ -	\$ -
		2023						
		37228S	MCC A, C, G, H Replacement (Solids) (2021)	\$ -	\$ 62,000	\$ 27,000	\$ -	\$ -
		37236S	Solids Area Overhaul Plan	\$ -	\$ 21,000	\$ -	\$ -	\$ -
		37237S	Digester System Condition Assessment	\$ -	\$ 19,000	\$ -	\$ -	\$ -
		SC-17S	PC 17 Solids Small Cap	\$ -	\$ 34,000	\$ -	\$ -	\$ -
		2024						
		17528	Heating System Reconstruction	\$ -	\$ -	\$ 42,000	\$ 105,000	\$ 272,000
		17538	Digested and Eq Sludge Pump VFD Replacement	\$ -	\$ -	\$ 67,000	\$ -	\$ -
		37226S	Flare Replacement Project	\$ -	\$ -	\$ 116,000	\$ 465,000	\$ -
		3772-000	Hot Water Piping Reconstruction (2020)	\$ -	\$ -	\$ 64,000	\$ -	\$ -
		2025						
		17525	Solids Building Structural Rehabilitation	\$ -	\$ -	\$ -	\$ 72,000	\$ -
		17526	MCC D Replacement	\$ -	\$ -	\$ -	\$ 122,000	\$ -
		17529	Digester Gas Management Building Rehabilitation	\$ -	\$ -	\$ -	\$ 88,000	\$ -
		17532	Dewatering System Reconstruction	\$ -	\$ -	\$ -	\$ 84,000	\$ 421,000
17533	Solids Conveyor Replacement	\$ -	\$ -	\$ -	\$ 45,000	\$ 314,000		
2026								
17534	Storage and Truck loading Rehabilitation	\$ -	\$ -	\$ -	\$ -	\$ 193,000		
<b>Solids Total</b>			<b>\$ 108,000</b>	<b>\$ 138,000</b>	<b>\$ 316,000</b>	<b>\$ 981,000</b>	<b>\$ 1,200,000</b>	
<b>PC 17 Total</b>			<b>\$ 235,000</b>	<b>\$ 307,000</b>	<b>\$ 843,000</b>	<b>\$ 1,255,000</b>	<b>\$ 1,402,000</b>	
PC 21	B/C/D	2022						
		3107-000	Air Valve Replacement Construction (D) (2021)	\$ 189,000	\$ -	\$ -	\$ -	\$ -
		3109-000	Trail Bridge Crossing (D) (2021)	\$ 256,000	\$ 256,000	\$ -	\$ -	\$ -
		31211B	Aliso ETM Reach B/C Techite Replacement	\$ 146,000	\$ 146,000	\$ 1,643,000	\$ 1,716,000	\$ -
		2024						
		21312	Pecten Reef Crossing Protection Design (Reach D)	\$ -	\$ -	\$ 172,000	\$ -	\$ -
		2025						
		21313	Pecten Reef Crossing Protection Construction (Reach D)	\$ -	\$ -	\$ -	\$ 692,000	\$ -
		21314	Reach D CCTV Inspection (Reach D)	\$ -	\$ -	\$ -	\$ 193,000	\$ -
		2026						
21111	Reach B Replacement Design (Reach B)	\$ -	\$ -	\$ -	\$ -	\$ 210,000		
<b>B/C/D Total</b>			<b>\$ 591,000</b>	<b>\$ 402,000</b>	<b>\$ 1,814,000</b>	<b>\$ 2,601,000</b>	<b>\$ 210,000</b>	
E	E	2022						
		3108-000	Air Valve Replacement Construction ( E) (2021)	\$ 110,000	\$ -	\$ -	\$ -	\$ -
		2026						
21411	Reach E CCTV Inspection (Reach E)	\$ -	\$ -	\$ -	\$ -	\$ 94,000		
<b>E Total</b>			<b>\$ 110,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 94,000</b>	
<b>PC 21 Total</b>			<b>\$ 701,000</b>	<b>\$ 402,000</b>	<b>\$ 1,814,000</b>	<b>\$ 2,601,000</b>	<b>\$ 304,000</b>	

**Table 1-5 - El Toro Water District Proposed FY22 & FY23 Capital Improvement Budget (plus three year outlook)**

		Values							
PC 24	N/A	2022							
		3480-000	Internal Seal Replacement	\$ 29,000	\$ -	\$ -	\$ -	\$ -	\$ -
		44222O	Golf Course Road Condition Assessmnet	\$ 7,000	\$ -	\$ -	\$ -	\$ -	\$ -
		2023							
		4401-000	Creek Section Pipeline Replacement Estimate Update	\$ -	\$ 8,000	\$ -	\$ -	\$ -	\$ -
		44221O	Metering and Sampling Review	\$ -	\$ 11,000	\$ -	\$ -	\$ -	\$ -
		2025							
		24112	Metering Station Reconstruction Design and Permitting	\$ -	\$ -	\$ -	\$ -	\$ 28,000	\$ -
		2026							
		24113	Metering Station Reconstruction	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 396
<b>N/A Total</b>				<b>\$ 36,000</b>	<b>\$ 19,000</b>	<b>\$ -</b>	<b>\$ 28,000</b>	<b>\$ 396</b>	
<b>PC 24 Total</b>				<b>\$ 36,000</b>	<b>\$ 19,000</b>	<b>\$ -</b>	<b>\$ 28,000</b>	<b>\$ 396</b>	
<b>Grand Total</b>				<b>\$ 972,000</b>	<b>\$ 728,000</b>	<b>\$ 2,657,000</b>	<b>\$ 3,885,000</b>	<b>\$ 1,706,000</b>	

**Table 1-6 - Irvine Ranch Water District Proposed FY22 & FY23 Capital Improvement Budget (plus three year outlook)**

	Area	Year	Project Name	Values					
				FY 21/22	FY 22/23	FY 23/24	FY 24/25	FY 25/26	
PC 21	B/C/D	2022							
		3107-000	Air Valve Replacement Construction (D) (2021)	\$ 189,000	\$ -	\$ -	\$ -	\$ -	
		31211B	Aliso ETM Reach B/C Techite Replacement	\$ 146,000	\$ 146,000	\$ 1,643,000	\$ 1,716,000	\$ -	
		2024							
		21312	Pecten Reef Crossing Protection Design (Reach D)	\$ -	\$ -	\$ 172,000	\$ -	\$ -	
		2025							
		21313	Pecten Reef Crossing Protection Construction (Reach D)	\$ -	\$ -	\$ -	\$ 692,000	\$ -	
		21314	Reach D CCTV Inspection (Reach D)	\$ -	\$ -	\$ -	\$ 193,000	\$ -	
		2026							
		21111	Reach B Replacement Design (Reach B)	\$ -	\$ -	\$ -	\$ -	\$ 210,000	
		<b>B/C/D Total</b>				<b>\$ 335,000</b>	<b>\$ 146,000</b>	<b>\$ 1,814,000</b>	<b>\$ 2,601,000</b>
PC 21	E	2022							
		3108-000	Air Valve Replacement Construction ( E) (2021)	\$ 110,000	\$ -	\$ -	\$ -	\$ -	
		2026							
		21411	Reach E CCTV Inspection (Reach E)	\$ -	\$ -	\$ -	\$ -	\$ 94,000	
<b>E Total</b>				<b>\$ 110,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 94,000</b>	
<b>PC 21 Total</b>				<b>\$ 445,000</b>	<b>\$ 146,000</b>	<b>\$ 1,814,000</b>	<b>\$ 2,601,000</b>	<b>\$ 304,000</b>	
PC 24	N/A	2022							
		3480-000	Internal Seal Replacement	\$ 28,000	\$ -	\$ -	\$ -	\$ -	
		44222O	Golf Course Road Condition Assessmnet	\$ 7,000	\$ -	\$ -	\$ -	\$ -	
		2025							
		24112	Metering Station Reconstruction Design and Permitting	\$ -	\$ -	\$ -	\$ 27,000	\$ -	
		2026							
24113	Metering Station Reconstruction	\$ -	\$ -	\$ -	\$ -	\$ 383			
<b>N/A Total</b>				<b>\$ 35,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 27,000</b>	<b>\$ 383</b>	
<b>PC 24 Total</b>				<b>\$ 35,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 27,000</b>	<b>\$ 383</b>	
<b>Grand Total</b>				<b>\$ 480,000</b>	<b>\$ 146,000</b>	<b>\$ 1,814,000</b>	<b>\$ 2,628,000</b>	<b>\$ 304,000</b>	

**Table 1-7 - Moulton Niguel Water District Proposed FY22 & FY23 Capital Improvement Budget (plus three year outlook)**

PC 02	Area	Year	Project Name	Values						
				FY 21/22	FY 22/23	FY 23/24	FY 24/25	FY 25/26		
Common	Common	2022								
		3229-000	Drainage Pump Station Reconstruction (2021)	\$ 30,000	\$ 10,000	\$ -	\$ -	\$ -		
		3231-000	Facility Improvements B - Common Upgrades Construction II	\$ 143,000	\$ 36,000	\$ -	\$ -	\$ -		
		42217C	Site Storage Evaluation	\$ 14,000	\$ -	\$ -	\$ -	\$ -		
		42219C	Electrical Conduit and Cable Master Plan	\$ 14,000	\$ -	\$ -	\$ -	\$ -		
		52221C	Arc Flash 5-Year Update	\$ 2,000	\$ -	\$ -	\$ -	\$ -		
		52222C	NFPA 70 Classification Mapping	\$ 7,000	\$ -	\$ -	\$ -	\$ -		
		52223C	DHS Facility Compliance Review	\$ 4,000	\$ 4,000	\$ -	\$ -	\$ -		
		2024								
		2335	Administration Building Condition Assessment	\$ -	\$ -	\$ 6,000	\$ -	\$ -		
		2336	Administration Building Spatial Evaluation	\$ -	\$ -	\$ 10,000	\$ -	\$ -		
		2026								
		2321	Odor Control Scrubber No.2 Replacement	\$ -	\$ -	\$ -	\$ -	\$ 447,000		
		2337	Administration Building Roof Reconstruction	\$ -	\$ -	\$ -	\$ -	\$ 93,000		
		2338	Administration Building HVAC Reconstruction	\$ -	\$ -	\$ -	\$ -	\$ 45,000		
		2342	Maintenance Shop Rehabilitation	\$ -	\$ -	\$ -	\$ -	\$ 55,000		
		2350	Buried Water Pipe Reconstruction	\$ -	\$ -	\$ -	\$ -	\$ 275,000		
		<b>Common Total</b>				<b>\$ 213,000</b>	<b>\$ 50,000</b>	<b>\$ 17,000</b>	<b>\$ -</b>	<b>\$ 914,000</b>
		Liquids	Liquids	2022						
				3220-000	Facility Improvements B - Basin Upgrades Construction II	\$ 554,000	\$ 138,000	\$ -	\$ -	\$ -
2023										
32228L	MCC M Replacement			\$ -	\$ 283,000	\$ 121,000	\$ -	\$ -		
2024										
2067	Plant 2 Headworks Condition Assessment			\$ -	\$ -	\$ 12,000	\$ -	\$ -		
2069	Plant 2 Blower Building Condition Assessment			\$ -	\$ -	\$ 15,000	\$ -	\$ -		
2078	Scum Pump Station Upgrade			\$ -	\$ -	\$ 154,000	\$ -	\$ -		
2088	Effluent Pipeline Condition Assessment			\$ -	\$ -	\$ 53,000	\$ -	\$ -		
2089	Effluent Flow Metering Evaluation			\$ -	\$ -	\$ 16,000	\$ -	\$ -		
2026										
2051	Influent Diversion Structure Upgrade			\$ -	\$ -	\$ -	\$ -	\$ 109,000		
2055	Plant 1 Headworks Upgrade			\$ -	\$ -	\$ -	\$ -	\$ 463,000		
2080	Odor Control Scrubber No.3 Installation			\$ -	\$ -	\$ -	\$ -	\$ 45,000		
2081	Sodium Hypochlorite System Reconstruction			\$ -	\$ -	\$ -	\$ -	\$ 166,000		
2090	Odor Control Scrubber No.1 Replacement			\$ -	\$ -	\$ -	\$ -	\$ 260,000		
2101	Effluent Pump VFD Replacement	\$ -	\$ -	\$ -	\$ -	\$ 75,000				
<b>Liquids Total</b>				<b>\$ 554,000</b>	<b>\$ 421,000</b>	<b>\$ 370,000</b>	<b>\$ -</b>	<b>\$ 1,119,000</b>		

**Table 1-7 - Moulton Niguel Water District Proposed FY22 & FY23 Capital Improvement Budget (plus three year outlook)**

	Area	Year	Project Name	Values					
				FY 21/22	FY 22/23	FY 23/24	FY 24/25	FY 25/26	
PC 02	Solids	2022							
		3234-000	Centrate Piping Reconstruction (2021)	\$ 43,000	\$ -	\$ -	\$ -	\$ -	
		2023							
		32224S	Dewatering System, Truck Loading Area, and MCC 2 & CF Reconstruction	\$ -	\$ 306,000	\$ 306,000	\$ -	\$ -	
		2024							
		2522	DAF Polymer System Upgrade	\$ -	\$ -	\$ 160,000	\$ -	\$ -	
		2527	Anaerobic Digester No.3 and No.4 Control Building Upgrade	\$ -	\$ -	\$ 202,000	\$ -	\$ -	
		2534	Buried Digester Piping Reconstruction	\$ -	\$ -	\$ 169,000	\$ -	\$ -	
		2025							
		2526	Anaerobic Digester No.3 and No.4 Mechanical Upgrade	\$ -	\$ -	\$ -	\$ 179,000	\$ 179,000	
2026									
		2521	Odor Control Scrubber No.4 Installation	\$ -	\$ -	\$ -	\$ -	\$ 37,000	
		2540	Dewatering System Replacement	\$ -	\$ -	\$ -	\$ -	\$ 220,000	
		<b>Solids Total</b>		<b>\$ 43,000</b>	<b>\$ 306,000</b>	<b>\$ 838,000</b>	<b>\$ 179,000</b>	<b>\$ 436,000</b>	
<b>PC 02 Total</b>				<b>\$ 809,000</b>	<b>\$ 777,000</b>	<b>\$ 1,225,000</b>	<b>\$ 179,000</b>	<b>\$ 2,469,000</b>	
PC 05	N/A	2024							
		05057	Diffuser Port Duckbill Design	\$ -	\$ -	\$ 6,000	\$ -	\$ -	
		2025							
		05058	Diffuser Port Duckbill Construction	\$ -	\$ -	\$ -	\$ 61,000	\$ -	
		05059	Monitoring Vault Reconstruction	\$ -	\$ -	\$ -	\$ 30,000	\$ -	
		2026							
		05060	Outfall Inspection Concept Development	\$ -	\$ -	\$ -	\$ -	\$ 14,000	
		<b>N/A Total</b>		<b>\$ -</b>	<b>\$ -</b>	<b>\$ 6,000</b>	<b>\$ 90,000</b>	<b>\$ 14,000</b>	
<b>PC 05 Total</b>				<b>\$ -</b>	<b>\$ -</b>	<b>\$ 6,000</b>	<b>\$ 90,000</b>	<b>\$ 14,000</b>	

**Table 1-7 - Moulton Niguel Water District Proposed FY22 & FY23 Capital Improvement Budget (plus three year outlook)**

PC 15	Area	Year	Project Name	Values					
				FY 21/22	FY 22/23	FY 23/24	FY 24/25	FY 25/26	
	Liquids	2022							
		35222L	Aeration Upgrade	\$ 468,000	\$ 1,872,000	\$ -	\$ -	\$ -	\$ -
		35235L	Fiber Installation to Alicia Parkway	\$ 19,000	\$ -	\$ -	\$ -	\$ -	\$ -
		3525-000	Personnel Building Reconstruction	\$ 44,000	\$ -	\$ -	\$ -	\$ -	\$ -
		3539-000	Facility Construction Improvements - Part II (2020)	\$ 731,000	\$ -	\$ -	\$ -	\$ -	\$ -
		3541-000	Export Sludge System Construction (2020)	\$ 950,000	\$ 407,000	\$ -	\$ -	\$ -	\$ -
		45212L	Site Storage Evaluation	\$ 15,000	\$ -	\$ -	\$ -	\$ -	\$ -
		45221L	Foul Air System Condition Assessment	\$ 22,000	\$ -	\$ -	\$ -	\$ -	\$ -
		45222L	Headworks Condition Assessment	\$ 37,000	\$ -	\$ -	\$ -	\$ -	\$ -
		45223L	Drainage Pump Station Condition Assessment	\$ 51,000	\$ -	\$ -	\$ -	\$ -	\$ -
		45226L	Consequence of Failure Analysis	\$ 15,000	\$ -	\$ -	\$ -	\$ -	\$ -
		55221L	DHS Facility Compliance Review	\$ 5,000	\$ 5,000	\$ -	\$ -	\$ -	\$ -
		55222L	NFPA 70 Classification Mapping	\$ 9,000	\$ -	\$ -	\$ -	\$ -	\$ -
		2023							
		35233L	Vehicle Storage Building Mezzanine Upgrades	\$ -	\$ 25,000	\$ -	\$ -	\$ -	\$ -
		2024							
		15102	Odor Control Scrubber/Foul Air System Reconstruction	\$ -	\$ -	\$ 484,000	\$ -	\$ -	\$ -
		15105	Headworks Screen Drum Replacement	\$ -	\$ -	\$ 211,000	\$ -	\$ -	\$ -
		15119	Maintenance Building Upgrade	\$ -	\$ -	\$ 216,000	\$ -	\$ -	\$ -
		15144	Standby Power Condition Assessment	\$ -	\$ -	\$ 22,000	\$ -	\$ -	\$ -
		3543-000	Export Sludge Pipeline Replacement at RTP (2021)	\$ -	\$ -	\$ 139,000	\$ -	\$ -	\$ -
		2025							
		15102	Odor Control Scrubber/Foul Air System Reconstruction	\$ -	\$ -	\$ -	\$ 489,000	\$ -	\$ -
		15147	Pavement and Surface Drainage Master Plan	\$ -	\$ -	\$ -	\$ 25,000	\$ -	\$ -
		15713	North Section Embankment Protection	\$ -	\$ -	\$ -	\$ 314,000	\$ -	\$ -
		2026							
		15101	Grit Handling Upgrade	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 279,000
		15106	DAF Polymer and DAF Control Building Upgrade	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 141,000
		15132	Channel Lining	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 295,000
		15148	Instrumentation Master Plan	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 26,000
		<b>Liquids Total</b>		<b>\$ 2,366,000</b>	<b>\$ 2,309,000</b>	<b>\$ 1,072,000</b>	<b>\$ 827,000</b>	<b>\$ 741,000</b>	
<b>PC 15 Total</b>				<b>\$ 2,366,000</b>	<b>\$ 2,309,000</b>	<b>\$ 1,072,000</b>	<b>\$ 827,000</b>	<b>\$ 741,000</b>	

**Table 1-7 - Moulton Niguel Water District Proposed FY22 & FY23 Capital Improvement Budget (plus three year outlook)**

PC 17	Area	Year	Project Name	Values					
				FY 21/22	FY 22/23	FY 23/24	FY 24/25	FY 25/26	
	Common	2022							
		37224C	SCADA System Upgrade Project	\$ 302,000	\$ -	\$ -	\$ -	\$ -	\$ -
		37229C	Energy Building Updates	\$ 241,000	\$ 130,000	\$ -	\$ -	\$ -	\$ -
		47212C	Site Storage Evaluation	\$ 64,000	\$ -	\$ -	\$ -	\$ -	\$ -
		47223C	Energy Building Condition Assessment	\$ 117,000	\$ -	\$ -	\$ -	\$ -	\$ -
		47224C	Consequence of Failure Analysis	\$ 39,000	\$ -	\$ -	\$ -	\$ -	\$ -
		57221C	NFPA 70 Classification Mapping	\$ 23,000	\$ -	\$ -	\$ -	\$ -	\$ -
		57222C	DHS Facility Compliance Review	\$ 14,000	\$ 14,000	\$ -	\$ -	\$ -	\$ -
		57223C	Arc Flash 5-Year Update	\$ 6,000	\$ -	\$ -	\$ -	\$ -	\$ -
		2023							
		37235C	Instrumentation Plan	\$ -	\$ 78,000	\$ -	\$ -	\$ -	\$ -
		2024							
		17329	Laboratory Reconstruction	\$ -	\$ -	\$ 466,000	\$ 466,000	\$ -	\$ -
		17331	Energy Building Repair and Rehabilitation	\$ -	\$ -	\$ 1,471,000	\$ -	\$ -	\$ -
		17332	Maintenance Shop Rehabilitation	\$ -	\$ -	\$ 282,000	\$ -	\$ -	\$ -
		17337	West Side Storm Channel Reconstruction - Phase I	\$ -	\$ -	\$ 446,000	\$ 446,000	\$ -	\$ -
		17345	Energy Building HVAC Upgrade	\$ -	\$ -	\$ 423,000	\$ -	\$ -	\$ -
		17348	Secondary Access Road	\$ -	\$ -	\$ 285,000	\$ -	\$ -	\$ -
		17357	MCC D, E, & F Condition Assessment	\$ -	\$ -	\$ 40,000	\$ -	\$ -	\$ -
		37234C	Electrical Box Reconstruction	\$ -	\$ -	\$ 349,000	\$ 1,048,000	\$ -	\$ -
		2026							
		17320	Plant Drainage Pump Station Reconstruction	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 565,000
		17323	PW Hypochlorite Pump and Instrument Replacement	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 151,000
		17349	Underground Piping Reconstruction Area A	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 52,000
		17350	Underground Piping Reconstruction Area B	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 173,000
		17355	Pavement and Surface Drainage Master Plan	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 84,000
	<b>Common Total</b>			<b>\$ 807,000</b>	<b>\$ 222,000</b>	<b>\$ 3,762,000</b>	<b>\$ 1,960,000</b>	<b>\$ 1,026,000</b>	

**Table 1-7 - Moulton Niguel Water District Proposed FY22 & FY23 Capital Improvement Budget (plus three year outlook)**

PC 17	Area	Year	Project Name	Values						
				FY 21/22	FY 22/23	FY 23/24	FY 24/25	FY 25/26		
PC 17	Liquids	2022								
		37220L	Haufman Blower Panel Upgrade	\$ 175,000	\$ -	\$ -	\$ -	\$ -		
		37221L	Aeration Basin, Gate, and Blower Upgrades	\$ 710,000	\$ 4,615,000	\$ 1,775,000	\$ -	\$ -		
		3753-000	Aeration Diffuser Upgrade (2020)	\$ 1,850,000	\$ -	\$ -	\$ -	\$ -		
		3756-000	Secondary Clarifier Safety Repairs (2020)	\$ 30,000	\$ 55,000	\$ -	\$ -	\$ -		
		3757-000	Miscellaneous Safety Improvements - Liquids (2020)	\$ 41,000	\$ 76,000	\$ -	\$ -	\$ -		
		3758-000	AWT No.2 Reconstruction (2020)	\$ 2,272,000	\$ -	\$ -	\$ -	\$ -		
		3759-000	AWT No.2 Electrical Upgrades (2020)	\$ 348,000	\$ -	\$ -	\$ -	\$ -		
		3776-000	Effluent Pond Gate Replacement (2021)	\$ 250,000	\$ -	\$ -	\$ -	\$ -		
		47211L	Interstage Pump Station Condition Assessment	\$ 52,000	\$ -	\$ -	\$ -	\$ -		
		47221L	Mixed Liquor Channel Condition Assessment	\$ 284,000	\$ -	\$ -	\$ -	\$ -		
		47222L	Secondary Effluent Conveyance Evaluation	\$ 53,000	\$ -	\$ -	\$ -	\$ -		
			2023							
			37233L	RAS System Condition Assessment	\$ -	\$ 56,000	\$ -	\$ -	\$ -	
			2024							
			17074	WAS Pump VFD Panel Reconstruction	\$ -	\$ -	\$ 164,000	\$ -	\$ -	
			17091	Secondary Sedimentation Condition Assessment	\$ -	\$ -	\$ 69,000	\$ -	\$ -	
			2025							
			17055	Primary Gallery Upgrade Phase II	\$ -	\$ -	\$ -	\$ 74,000	\$ 1,412,000	
			17080	Primary Scum Skimmer	\$ -	\$ -	\$ -	\$ 84,000	\$ 1,592,000	
			2026							
			17052	Odor Control Scrubber No.1 Replacement	\$ -	\$ -	\$ -	\$ -	\$ 705,000	
			17089	Headworks Condition Assessment	\$ -	\$ -	\$ -	\$ -	\$ 60,000	
			17720	AWT Hypochlorite Pump and Instrument Replacement	\$ -	\$ -	\$ -	\$ -	\$ 248,000	
			<b>Liquids Total</b>			<b>\$ 6,065,000</b>	<b>\$ 4,802,000</b>	<b>\$ 2,008,000</b>	<b>\$ 158,000</b>	<b>\$ 4,018,000</b>
			Solids	2022						
				3771-000	Miscellaneous Safety Improvements - Solids (2020)	\$ 38,000	\$ -	\$ -	\$ -	\$ -
				3773-000	Co-Generation System Modifications (2020)	\$ 171,000	\$ -	\$ -	\$ -	\$ -
				57224S	Cogen SGIP	\$ 4,000	\$ 4,000	\$ -	\$ -	\$ -
		2024								
		17528	Heating System Reconstruction	\$ -	\$ -	\$ 121,000	\$ 302,000	\$ 784,000		
		17538	Digested and Eq Sludge Pump VFD Replacement	\$ -	\$ -	\$ 193,000	\$ -	\$ -		
		2025								
		17525	Solids Building Structural Rehabilitation	\$ -	\$ -	\$ -	\$ 207,000	\$ -		
		17526	MCC D Replacement	\$ -	\$ -	\$ -	\$ 353,000	\$ -		
		17529	Digester Gas Management Building Rehabilitation	\$ -	\$ -	\$ -	\$ 253,000	\$ -		
		17532	Dewatering System Reconstruction	\$ -	\$ -	\$ -	\$ 243,000	\$ 1,214,000		
		17533	Solids Conveyor Replacement	\$ -	\$ -	\$ -	\$ 129,000	\$ 905,000		
		2026								
		17534	Storage and Truck loading Rehabilitation	\$ -	\$ -	\$ -	\$ -	\$ 556,000		
	<b>Solids Total</b>			<b>\$ 212,000</b>	<b>\$ 4,000</b>	<b>\$ 314,000</b>	<b>\$ 1,487,000</b>	<b>\$ 3,459,000</b>		
<b>PC 17 Total</b>				<b>\$ 7,084,000</b>	<b>\$ 5,028,000</b>	<b>\$ 6,084,000</b>	<b>\$ 3,604,000</b>	<b>\$ 8,503,000</b>		



**Table 1-7 - Moulton Niguel Water District Proposed FY22 & FY23 Capital Improvement Budget (plus three year outlook)**

				Values				
	Area	Year	Project Name	FY 21/22	FY 22/23	FY 23/24	FY 24/25	FY 25/26
PC 21	E	2022						
		3108-000	Air Valve Replacement Construction ( E) (2021)	\$ 252,000	\$ -	\$ -	\$ -	\$ -
		2026						
		21411	Reach E CCTV Inspection (Reach E)	\$ -	\$ -	\$ -	\$ -	\$ 215,000
<b>E Total</b>				<b>\$ 252,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 215,000</b>
<b>PC 21 Total</b>				<b>\$ 252,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 215,000</b>
PC 24	N/A	2022						
		3480-000	Internal Seal Replacement	\$ 77,000	\$ -	\$ -	\$ -	\$ -
		442220	Golf Course Road Condition Assessmnet	\$ 20,000	\$ -	\$ -	\$ -	\$ -
		2025						
		24112	Metering Station Reconstruction Design and Permitting	\$ -	\$ -	\$ -	\$ 76,000	\$ -
		2026						
24113	Metering Station Reconstruction	\$ -	\$ -	\$ -	\$ -	\$ 1,000		
<b>N/A Total</b>				<b>\$ 96,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 76,000</b>	<b>\$ 1,000</b>
<b>PC 24 Total</b>				<b>\$ 96,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 76,000</b>	<b>\$ 1,000</b>
<b>Grand Total</b>				<b>\$ 10,608,000</b>	<b>\$ 8,115,000</b>	<b>\$ 8,387,000</b>	<b>\$ 4,777,000</b>	<b>\$ 11,943,000</b>

**Table 1-8 - South Coast Water District Proposed FY22 & FY23 Capital Improvement Budget (plus three year outlook)**

PC 02	Area	Year	Project Name	Values					
				FY 21/22	FY 22/23	FY 23/24	FY 24/25	FY 25/26	
	Common	2022							
		3229-000	Drainage Pump Station Reconstruction (2021)	\$ 33,000	\$ 11,000	\$ -	\$ -	\$ -	\$ -
		3231-000	Facility Improvements B - Common Upgrades Construction II	\$ 156,000	\$ 39,000	\$ -	\$ -	\$ -	\$ -
		42217C	Site Storage Evaluation	\$ 15,000	\$ -	\$ -	\$ -	\$ -	\$ -
		42219C	Electrical Conduit and Cable Master Plan	\$ 15,000	\$ -	\$ -	\$ -	\$ -	\$ -
		52221C	Arc Flash 5-Year Update	\$ 2,000	\$ -	\$ -	\$ -	\$ -	\$ -
		52222C	NFPA 70 Classification Mapping	\$ 7,000	\$ -	\$ -	\$ -	\$ -	\$ -
		52223C	DHS Facility Compliance Review	\$ 4,000	\$ 4,000	\$ -	\$ -	\$ -	\$ -
		2024							
		2335	Administration Building Condition Assessment	\$ -	\$ -	\$ 7,000	\$ -	\$ -	\$ -
		2336	Administration Building Spatial Evaluation	\$ -	\$ -	\$ 11,000	\$ -	\$ -	\$ -
		2026							
		2321	Odor Control Scrubber No.2 Replacement	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 488,000
		2337	Administration Building Roof Reconstruction	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 101,000
		2338	Administration Building HVAC Reconstruction	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 49,000
		2342	Maintenance Shop Rehabilitation	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 60,000
		2350	Buried Water Pipe Reconstruction	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 301,000
	<b>Common Total</b>			<b>\$ 232,000</b>	<b>\$ 54,000</b>	<b>\$ 18,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 999,000</b>
	Liquids	2022							
		3220-000	Facility Improvements B - Basin Upgrades Construction II	\$ 692,000	\$ 173,000	\$ -	\$ -	\$ -	\$ -
		2023							
		32228L	MCC M Replacement	\$ -	\$ 353,000	\$ 151,000	\$ -	\$ -	\$ -
		2024							
		2067	Plant 2 Headworks Condition Assessment	\$ -	\$ -	\$ 15,000	\$ -	\$ -	\$ -
		2069	Plant 2 Blower Building Condition Assessment	\$ -	\$ -	\$ 18,000	\$ -	\$ -	\$ -
		2078	Scum Pump Station Upgrade	\$ -	\$ -	\$ 193,000	\$ -	\$ -	\$ -
		2088	Effluent Pipeline Condition Assessment	\$ -	\$ -	\$ 66,000	\$ -	\$ -	\$ -
		2089	Effluent Flow Metering Evaluation	\$ -	\$ -	\$ 20,000	\$ -	\$ -	\$ -
		2026							
		2051	Influent Diversion Structure Upgrade	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 136,000
		2055	Plant 1 Headworks Upgrade	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 579,000
		2080	Odor Control Scrubber No.3 Installation	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 56,000
		2081	Sodium Hypochlorite System Reconstruction	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 208,000
		2090	Odor Control Scrubber No.1 Replacement	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 325,000
		2101	Effluent Pump VFD Replacement	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 94,000
	<b>Liquids Total</b>			<b>\$ 692,000</b>	<b>\$ 526,000</b>	<b>\$ 463,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,399,000</b>

**Table 1-8 - South Coast Water District Proposed FY22 & FY23 Capital Improvement Budget (plus three year outlook)**

	Area	Year	Project Name	Values					
				FY 21/22	FY 22/23	FY 23/24	FY 24/25	FY 25/26	
PC 02	Solids	2022							
		3234-000	Centrate Piping Reconstruction (2021)	\$ 40,000	\$ -	\$ -	\$ -	\$ -	
		2023							
		32224S	Dewatering System, Truck Loading Area, and MCC 2 & CF Reconstruction	\$ -	\$ 283,000	\$ 283,000	\$ -	\$ -	
		2024							
		2522	DAF Polymer System Upgrade	\$ -	\$ -	\$ 148,000	\$ -	\$ -	
		2527	Anaerobic Digester No.3 and No.4 Control Building Upgrade	\$ -	\$ -	\$ 187,000	\$ -	\$ -	
		2534	Buried Digester Piping Reconstruction	\$ -	\$ -	\$ 157,000	\$ -	\$ -	
		2025							
		2526	Anaerobic Digester No.3 and No.4 Mechanical Upgrade	\$ -	\$ -	\$ -	\$ 166,000	\$ 166,000	
		2026							
2521	Odor Control Scrubber No.4 Installation	\$ -	\$ -	\$ -	\$ -	\$ 34,000			
2540	Dewatering System Replacement	\$ -	\$ -	\$ -	\$ -	\$ 203,000			
<b>Solids Total</b>				<b>\$ 40,000</b>	<b>\$ 283,000</b>	<b>\$ 775,000</b>	<b>\$ 166,000</b>	<b>\$ 403,000</b>	
<b>PC 02 Total</b>				<b>\$ 964,000</b>	<b>\$ 864,000</b>	<b>\$ 1,256,000</b>	<b>\$ 166,000</b>	<b>\$ 2,801,000</b>	
PC 05	N/A	2024							
		05057	Diffuser Port Duckbill Design	\$ -	\$ -	\$ 5,000	\$ -	\$ -	
		2025							
		05058	Diffuser Port Duckbill Construction	\$ -	\$ -	\$ -	\$ 49,000	\$ -	
		05059	Monitoring Vault Reconstruction	\$ -	\$ -	\$ -	\$ 24,000	\$ -	
		2026							
05060	Outfall Inspection Concept Development	\$ -	\$ -	\$ -	\$ -	\$ 11,000			
<b>N/A Total</b>				<b>\$ -</b>	<b>\$ -</b>	<b>\$ 5,000</b>	<b>\$ 73,000</b>	<b>\$ 11,000</b>	
<b>PC 05 Total</b>				<b>\$ -</b>	<b>\$ -</b>	<b>\$ 5,000</b>	<b>\$ 73,000</b>	<b>\$ 11,000</b>	
PC 15	AWT	2022							
		35223A	Contact Basin Gate	\$ 25,000	\$ 225,000	\$ -	\$ -	\$ -	
		2025							
15813	AWT Building Modifications	\$ -	\$ -	\$ -	\$ 252,000	\$ -			
<b>AWT Total</b>				<b>\$ 25,000</b>	<b>\$ 225,000</b>	<b>\$ -</b>	<b>\$ 252,000</b>	<b>\$ -</b>	

**Table 1-8 - South Coast Water District Proposed FY22 & FY23 Capital Improvement Budget (plus three year outlook)**

PC 15	Area	Year	Project Name	Values					
				FY 21/22	FY 22/23	FY 23/24	FY 24/25	FY 25/26	
	Liquids	2022							
		35222L	Aeration Upgrade	\$ 478,000	\$ 1,910,000	\$ -	\$ -	\$ -	\$ -
		35235L	Fiber Installation to Alicia Parkway	\$ 19,000	\$ -	\$ -	\$ -	\$ -	\$ -
		3525-000	Personnel Building Reconstruction	\$ 45,000	\$ -	\$ -	\$ -	\$ -	\$ -
		3539-000	Facility Construction Improvements - Part II (2020)	\$ 746,000	\$ -	\$ -	\$ -	\$ -	\$ -
		3541-000	Export Sludge System Construction (2020)	\$ 970,000	\$ 416,000	\$ -	\$ -	\$ -	\$ -
		45212L	Site Storage Evaluation	\$ 15,000	\$ -	\$ -	\$ -	\$ -	\$ -
		45221L	Foul Air System Condition Assessment	\$ 23,000	\$ -	\$ -	\$ -	\$ -	\$ -
		45222L	Headworks Condition Assessment	\$ 37,000	\$ -	\$ -	\$ -	\$ -	\$ -
		45223L	Drainage Pump Station Condition Assessment	\$ 52,000	\$ -	\$ -	\$ -	\$ -	\$ -
		45226L	Consequence of Failure Analysis	\$ 15,000	\$ -	\$ -	\$ -	\$ -	\$ -
		55221L	DHS Facility Compliance Review	\$ 5,000	\$ 5,000	\$ -	\$ -	\$ -	\$ -
		55222L	NFPA 70 Classification Mapping	\$ 9,000	\$ -	\$ -	\$ -	\$ -	\$ -
		2023							
		35233L	Vehicle Storage Building Mezzanine Upgrades	\$ -	\$ 25,000	\$ -	\$ -	\$ -	\$ -
		2024							
		15102	Odor Control Scrubber/Foul Air System Reconstruction	\$ -	\$ -	\$ 494,000	\$ -	\$ -	\$ -
		15105	Headworks Screen Drum Replacement	\$ -	\$ -	\$ 215,000	\$ -	\$ -	\$ -
		15119	Maintenance Building Upgrade	\$ -	\$ -	\$ 221,000	\$ -	\$ -	\$ -
		15144	Standby Power Condition Assessment	\$ -	\$ -	\$ 22,000	\$ -	\$ -	\$ -
		3543-000	Export Sludge Pipeline Replacement at RTP (2021)	\$ -	\$ -	\$ 142,000	\$ -	\$ -	\$ -
		2025							
		15102	Odor Control Scrubber/Foul Air System Reconstruction	\$ -	\$ -	\$ -	\$ 499,000	\$ -	\$ -
		15147	Pavement and Surface Drainage Master Plan	\$ -	\$ -	\$ -	\$ 26,000	\$ -	\$ -
		15713	North Section Embankment Protection	\$ -	\$ -	\$ -	\$ 320,000	\$ -	\$ -
		2026							
		15101	Grit Handling Upgrade	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 285,000
		15106	DAF Polymer and DAF Control Building Upgrade	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 144,000
		15132	Channel Lining	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 301,000
		15148	Instrumentation Master Plan	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 27,000
	<b>Liquids Total</b>			<b>\$ 2,414,000</b>	<b>\$ 2,357,000</b>	<b>\$ 1,094,000</b>	<b>\$ 844,000</b>	<b>\$ 757,000</b>	
<b>PC 15 Total</b>				<b>\$ 2,439,000</b>	<b>\$ 2,582,000</b>	<b>\$ 1,094,000</b>	<b>\$ 1,096,000</b>	<b>\$ 757,000</b>	

**Table 1-8 - South Coast Water District Proposed FY22 & FY23 Capital Improvement Budget (plus three year outlook)**

PC 17	Area	Year	Project Name	Values					
				FY 21/22	FY 22/23	FY 23/24	FY 24/25	FY 25/26	
	Common	2022							
		37224C	SCADA System Upgrade Project	\$ 19,000	\$ -	\$ -	\$ -	\$ -	\$ -
		37229C	Energy Building Updates	\$ 15,000	\$ 8,000	\$ -	\$ -	\$ -	\$ -
		47212C	Site Storage Evaluation	\$ 4,000	\$ -	\$ -	\$ -	\$ -	\$ -
		47223C	Energy Building Condition Assessment	\$ 8,000	\$ -	\$ -	\$ -	\$ -	\$ -
		47224C	Consequence of Failure Analysis	\$ 3,000	\$ -	\$ -	\$ -	\$ -	\$ -
		57221C	NFPA 70 Classification Mapping	\$ 2,000	\$ -	\$ -	\$ -	\$ -	\$ -
		57222C	DHS Facility Compliance Review	\$ 1,000	\$ 1,000	\$ -	\$ -	\$ -	\$ -
		57223C	Arc Flash 5-Year Update	\$ 401	\$ -	\$ -	\$ -	\$ -	\$ -
		2023							
		37235C	Instrumentation Plan	\$ -	\$ 5,000	\$ -	\$ -	\$ -	\$ -
		2024							
		17329	Laboratory Reconstruction	\$ -	\$ -	\$ 30,000	\$ 30,000	\$ -	\$ -
		17331	Energy Building Repair and Rehabilitation	\$ -	\$ -	\$ 94,000	\$ -	\$ -	\$ -
		17332	Maintenance Shop Rehabilitation	\$ -	\$ -	\$ 18,000	\$ -	\$ -	\$ -
		17337	West Side Storm Channel Reconstruction - Phase I	\$ -	\$ -	\$ 29,000	\$ 29,000	\$ -	\$ -
		17345	Energy Building HVAC Upgrade	\$ -	\$ -	\$ 27,000	\$ -	\$ -	\$ -
		17348	Secondary Access Road	\$ -	\$ -	\$ 18,000	\$ -	\$ -	\$ -
		17357	MCC D, E, & F Condition Assessment	\$ -	\$ -	\$ 3,000	\$ -	\$ -	\$ -
		37234C	Electrical Box Reconstruction	\$ -	\$ -	\$ 22,000	\$ 67,000	\$ -	\$ -
		2026							
		17320	Plant Drainage Pump Station Reconstruction	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 36,000
		17323	PW Hypochlorite Pump and Instrument Replacement	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10,000
		17349	Underground Piping Reconstruction Area A	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,000
		17350	Underground Piping Reconstruction Area B	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 11,000
		17355	Pavement and Surface Drainage Master Plan	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,000
	<b>Common Total</b>			<b>\$ 52,000</b>	<b>\$ 14,000</b>	<b>\$ 241,000</b>	<b>\$ 126,000</b>	<b>\$ 66,000</b>	

**Table 1-8 - South Coast Water District Proposed FY22 & FY23 Capital Improvement Budget (plus three year outlook)**

PC 17	Area	Year	Project Name	Values					
				FY 21/22	FY 22/23	FY 23/24	FY 24/25	FY 25/26	
	Liquids	2022							
		37220L	Haufman Blower Panel Upgrade	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
		37221L	Aeration Basin, Gate, and Blower Upgrades	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
		3753-000	Aeration Diffuser Upgrade (2020)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
		3756-000	Secondary Clarifier Safety Repairs (2020)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
		3757-000	Miscellaneous Safety Improvements - Liquids (2020)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
		3758-000	AWT No.2 Reconstruction (2020)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
		3759-000	AWT No.2 Electrical Upgrades (2020)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
		3776-000	Effluent Pond Gate Replacement (2021)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
		47211L	Interstage Pump Station Condition Assessment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
		47221L	Mixed Liquor Channel Condition Assessment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
		47222L	Secondary Effluent Conveyance Evaluation	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
		2023							
		37233L	RAS System Condition Assessment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
		2024							
		17074	WAS Pump VFD Panel Reconstruction	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
		17091	Secondary Sedimentation Condition Assessment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
		2025							
		17055	Primary Gallery Upgrade Phase II	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
		17080	Primary Scum Skimmer	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
		2026							
		17052	Odor Control Scrubber No.1 Replacement	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
		17089	Headworks Condition Assessment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
		17720	AWT Hypochlorite Pump and Instrument Replacement	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	<b>Liquids Total</b>			<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>
	Solids	2022							
		3771-000	Miscellaneous Safety Improvements - Solids (2020)	\$ 6,000	\$ -	\$ -	\$ -	\$ -	\$ -
		3773-000	Co-Generation System Modifications (2020)	\$ 26,000	\$ -	\$ -	\$ -	\$ -	\$ -
		57224S	Cogen SGIP	\$ 1,000	\$ 1,000	\$ -	\$ -	\$ -	\$ -
		2024							
		17528	Heating System Reconstruction	\$ -	\$ -	\$ 18,000	\$ 46,000	\$ 119,000	\$ -
		17538	Digested and Eq Sludge Pump VFD Replacement	\$ -	\$ -	\$ 29,000	\$ -	\$ -	\$ -
		2025							
		17525	Solids Building Structural Rehabilitation	\$ -	\$ -	\$ -	\$ 32,000	\$ -	\$ -
		17526	MCC D Replacement	\$ -	\$ -	\$ -	\$ 54,000	\$ -	\$ -
		17529	Digester Gas Management Building Rehabilitation	\$ -	\$ -	\$ -	\$ 38,000	\$ -	\$ -
		17532	Dewatering System Reconstruction	\$ -	\$ -	\$ -	\$ 37,000	\$ 185,000	\$ -
		17533	Solids Conveyor Replacement	\$ -	\$ -	\$ -	\$ 20,000	\$ 138,000	\$ -
		2026							
		17534	Storage and Truck loading Rehabilitation	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 85,000
	<b>Solids Total</b>			<b>\$ 32,000</b>	<b>\$ 1,000</b>	<b>\$ 48,000</b>	<b>\$ 226,000</b>	<b>\$ 527,000</b>	<b>\$ -</b>
<b>PC 17 Total</b>				<b>\$ 84,000</b>	<b>\$ 15,000</b>	<b>\$ 289,000</b>	<b>\$ 352,000</b>	<b>\$ 593,000</b>	<b>\$ -</b>

**Table 1-8 - South Coast Water District Proposed FY22 & FY23 Capital Improvement Budget (plus three year outlook)**

PC 24	Area	Year	Project Name	Values					
				FY 21/22	FY 22/23	FY 23/24	FY 24/25	FY 25/26	
PC 24	N/A	2022							
		3480-000	Internal Seal Replacement	\$ 22,000	\$ -	\$ -	\$ -	\$ -	
		442220	Golf Course Road Condition Assessmnet	\$ 6,000	\$ -	\$ -	\$ -	\$ -	
		2025							
		24112	Metering Station Reconstruction Design and Permitting	\$ -	\$ -	\$ -	\$ 21,000	\$ -	
		2026							
		24113	Metering Station Reconstruction	\$ -	\$ -	\$ -	\$ -	\$ 299	
	<b>N/A Total</b>			<b>\$ 27,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 21,000</b>	<b>\$ 299</b>	
<b>PC 24 Total</b>				<b>\$ 27,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 21,000</b>	<b>\$ 299</b>	
<b>Grand Total</b>				<b>\$ 3,515,000</b>	<b>\$ 3,460,000</b>	<b>\$ 2,644,000</b>	<b>\$ 1,708,000</b>	<b>\$ 4,162,000</b>	

**Table 1-9 - Santa Margarita Water District Proposed FY22 & FY23 Capital Improvement Budget (plus three year outlook)**

PC 02	Area	Year	Project Name	Values						
				FY 21/22	FY 22/23	FY 23/24	FY 24/25	FY 25/26		
PC 02	Common	2022								
		3229-000	Drainage Pump Station Reconstruction (2021)	\$ 31,000	\$ 10,000	\$ -	\$ -	\$ -		
		3231-000	Facility Improvements B - Common Upgrades Construction II	\$ 146,000	\$ 37,000	\$ -	\$ -	\$ -		
		42217C	Site Storage Evaluation	\$ 14,000	\$ -	\$ -	\$ -	\$ -		
		42219C	Electrical Conduit and Cable Master Plan	\$ 14,000	\$ -	\$ -	\$ -	\$ -		
		52221C	Arc Flash 5-Year Update	\$ 2,000	\$ -	\$ -	\$ -	\$ -		
		52222C	NFPA 70 Classification Mapping	\$ 7,000	\$ -	\$ -	\$ -	\$ -		
		52223C	DHS Facility Compliance Review	\$ 4,000	\$ 4,000	\$ -	\$ -	\$ -		
		2024								
		2335	Administration Building Condition Assessment	\$ -	\$ -	\$ 7,000	\$ -	\$ -		
		2336	Administration Building Spatial Evaluation	\$ -	\$ -	\$ 10,000	\$ -	\$ -		
		2026								
		2321	Odor Control Scrubber No.2 Replacement	\$ -	\$ -	\$ -	\$ -	\$ 457,000		
		2337	Administration Building Roof Reconstruction	\$ -	\$ -	\$ -	\$ -	\$ 95,000		
		2338	Administration Building HVAC Reconstruction	\$ -	\$ -	\$ -	\$ -	\$ 46,000		
		2342	Maintenance Shop Rehabilitation	\$ -	\$ -	\$ -	\$ -	\$ 56,000		
		2350	Buried Water Pipe Reconstruction	\$ -	\$ -	\$ -	\$ -	\$ 281,000		
		<b>Common Total</b>				<b>\$ 217,000</b>	<b>\$ 51,000</b>	<b>\$ 17,000</b>	<b>\$ -</b>	<b>\$ 934,000</b>
		Liquids	Liquids	2022						
				3220-000	Facility Improvements B - Basin Upgrades Construction II	\$ 415,000	\$ 104,000	\$ -	\$ -	\$ -
				2023						
				32228L	MCC M Replacement	\$ -	\$ 212,000	\$ 91,000	\$ -	\$ -
				2024						
2067	Plant 2 Headworks Condition Assessment			\$ -	\$ -	\$ 9,000	\$ -	\$ -		
2069	Plant 2 Blower Building Condition Assessment			\$ -	\$ -	\$ 11,000	\$ -	\$ -		
2078	Scum Pump Station Upgrade			\$ -	\$ -	\$ 116,000	\$ -	\$ -		
2088	Effluent Pipeline Condition Assessment			\$ -	\$ -	\$ 40,000	\$ -	\$ -		
2089	Effluent Flow Metering Evaluation			\$ -	\$ -	\$ 12,000	\$ -	\$ -		
2026										
2051	Influent Diversion Structure Upgrade			\$ -	\$ -	\$ -	\$ -	\$ 82,000		
2055	Plant 1 Headworks Upgrade			\$ -	\$ -	\$ -	\$ -	\$ 347,000		
2080	Odor Control Scrubber No.3 Installation			\$ -	\$ -	\$ -	\$ -	\$ 34,000		
2081	Sodium Hypochlorite System Reconstruction			\$ -	\$ -	\$ -	\$ -	\$ 125,000		
2090	Odor Control Scrubber No.1 Replacement			\$ -	\$ -	\$ -	\$ -	\$ 195,000		
2101	Effluent Pump VFD Replacement	\$ -	\$ -	\$ -	\$ -	\$ 57,000				
<b>Liquids Total</b>				<b>\$ 415,000</b>	<b>\$ 316,000</b>	<b>\$ 278,000</b>	<b>\$ -</b>	<b>\$ 839,000</b>		



**Table 1-9 - Santa Margarita Water District Proposed FY22 & FY23 Capital Improvement Budget (plus three year outlook)**

		Values						
PC 02	Solids	2022						
		3234-000	Centrate Piping Reconstruction (2021)	\$ 56,000	\$ -	\$ -	\$ -	\$ -
		2023						
		32224S	Dewatering System, Truck Loading Area, and MCC 2 & CF Reconstruction	\$ -	\$ 402,000	\$ 402,000	\$ -	\$ -
		2024						
		2522	DAF Polymer System Upgrade	\$ -	\$ -	\$ 210,000	\$ -	\$ -
		2527	Anaerobic Digester No.3 and No.4 Control Building Upgrade	\$ -	\$ -	\$ 265,000	\$ -	\$ -
		2534	Buried Digester Piping Reconstruction	\$ -	\$ -	\$ 222,000	\$ -	\$ -
		2025						
		2526	Anaerobic Digester No.3 and No.4 Mechanical Upgrade	\$ -	\$ -	\$ -	\$ 235,000	\$ 235,000
		2026						
		2521	Odor Control Scrubber No.4 Installation	\$ -	\$ -	\$ -	\$ -	\$ 49,000
2540	Dewatering System Replacement	\$ -	\$ -	\$ -	\$ -	\$ 288,000		
<b>Solids Total</b>				<b>\$ 56,000</b>	<b>\$ 402,000</b>	<b>\$ 1,100,000</b>	<b>\$ 235,000</b>	<b>\$ 572,000</b>
<b>PC 02 Total</b>				<b>\$ 689,000</b>	<b>\$ 769,000</b>	<b>\$ 1,395,000</b>	<b>\$ 235,000</b>	<b>\$ 2,346,000</b>

**Table 1-9 - Santa Margarita Water District Proposed FY22 & FY23 Capital Improvement Budget (plus three year outlook)**

		Values											
PC 05	N/A	2024											
		05057	Diffuser Port Duckbill Design	\$	-	\$	-	\$	17,000	\$	-	\$	-
		2025											
		05058	Diffuser Port Duckbill Construction	\$	-	\$	-	\$	-	\$	173,000	\$	-
		05059	Monitoring Vault Reconstruction	\$	-	\$	-	\$	-	\$	84,000	\$	-
		2026											
	05060	Outfall Inspection Concept Development	\$	-	\$	-	\$	-	\$	-	\$	40,000	
<b>N/A Total</b>													
<b>PC 05 Total</b>													
<b>Grand Total</b>													

**Table 2 - Priority Projects - Fiscal Year 2022 and Fiscal Year 2023 Proposed CIP Budget**

PC 02	Area	Year	Project Name	Values					
				FY 21/22	FY 22/23	FY 23/24	FY 24/25	FY 25/26	
	Common	2022							
		52223C	DHS Facility Compliance Review	\$ 18,000	\$ 18,000	\$ -	\$ -	\$ -	\$ -
		52222C	NFPA 70 Classification Mapping	\$ 30,000	\$ -	\$ -	\$ -	\$ -	\$ -
		52221C	Arc Flash 5-Year Update	\$ 8,000	\$ -	\$ -	\$ -	\$ -	\$ -
		42219C	Electrical Conduit and Cable Master Plan	\$ 61,000	\$ -	\$ -	\$ -	\$ -	\$ -
		42217C	Site Storage Evaluation	\$ 61,000	\$ -	\$ -	\$ -	\$ -	\$ -
		3231-000	Facility Improvements B - Common Upgrades Construction II	\$ 640,000	\$ 160,000	\$ -	\$ -	\$ -	\$ -
		3229-000	Drainage Pump Station Reconstruction (2021)	\$ 134,000	\$ 45,000	\$ -	\$ -	\$ -	\$ -
		SC-02C	PC 2 Common Small Cap	\$ 140,000	\$ -	\$ -	\$ -	\$ -	\$ -
		2023							
		42231C	Chlorine Building and Storm Water Pump Station Condition Assessment	\$ -	\$ 50,000	\$ -	\$ -	\$ -	\$ -
		42218C	Buried Utility Master Plan	\$ -	\$ 152,000	\$ -	\$ -	\$ -	\$ -
		SC-02C	PC 2 Common Small Cap	\$ -	\$ 140,000	\$ -	\$ -	\$ -	\$ -
		2024							
		2336	Administration Building Spatial Evaluation	\$ -	\$ -	\$ 46,000	\$ -	\$ -	\$ -
		2335	Administration Building Condition Assessment	\$ -	\$ -	\$ 29,000	\$ -	\$ -	\$ -
		2026							
		2350	Buried Water Pipe Reconstruction	\$ -	\$ -	\$ -	\$ -	\$ 1,232,000	\$ -
		2342	Maintenance Shop Rehabilitation	\$ -	\$ -	\$ -	\$ -	\$ 244,000	\$ -
		2338	Administration Building HVAC Reconstruction	\$ -	\$ -	\$ -	\$ -	\$ 200,000	\$ -
		2337	Administration Building Roof Reconstruction	\$ -	\$ -	\$ -	\$ -	\$ 414,000	\$ -
		2321	Odor Control Scrubber No.2 Replacement	\$ -	\$ -	\$ -	\$ -	\$ 2,000,000	\$ -
	<b>Common Total</b>			<b>\$ 1,091,000</b>	<b>\$ 565,000</b>	<b>\$ 74,000</b>	<b>\$ -</b>	<b>\$ 4,090,000</b>	

**Table 2 - Priority Projects - Fiscal Year 2022 and Fiscal Year 2023 Proposed CIP Budget**

PC 02	Area	Year	Project Name	Values					
				FY 21/22	FY 22/23	FY 23/24	FY 24/25	FY 25/26	
	Liquids	2022							
			3220-000 Facility Improvements B - Basin Upgrades Construction II	\$ 2,400,000	\$ 600,000	\$ -	\$ -	\$ -	\$ -
			SC-02L PC 2 Liquids Small Cap	\$ 392,000	\$ -	\$ -	\$ -	\$ -	\$ -
		2023							
			42213L Dana Point Influent Sewer Condition Assessment	\$ -	\$ 350,000	\$ -	\$ -	\$ -	\$ -
			42212L Plant 1 Grit Handling Evaluation	\$ -	\$ 51,000	\$ -	\$ -	\$ -	\$ -
			42211L Influent Flow Metering Evaluation	\$ -	\$ 51,000	\$ -	\$ -	\$ -	\$ -
			3285-000 Main Plant Drain Line Reconstruction (2018)	\$ -	\$ 223,000	\$ 56,000	\$ -	\$ -	\$ -
			32228L MCC M Replacement	\$ -	\$ 1,225,000	\$ 525,000	\$ -	\$ -	\$ -
			32223L Chlorine Contact Basin Isolation Gates and Structural Rehabilitation	\$ -	\$ 331,000	\$ -	\$ -	\$ -	\$ -
			SC-02L PC 2 Liquids Small Cap	\$ -	\$ 392,000	\$ -	\$ -	\$ -	\$ -
		2024							
			32226L Plant 2 Secondary Sedimentation Upgrade	\$ -	\$ -	\$ 1,059,000	\$ 1,059,000	\$ -	\$ -
			32225L Plant 2 Primary Sedimentation Upgrade	\$ -	\$ -	\$ 1,092,000	\$ 1,092,000	\$ -	\$ -
			32221L Plant 1 Grit, MCC A-1, & Blower Building Upgrades	\$ -	\$ -	\$ 607,000	\$ 5,467,000	\$ -	\$ -
			2089 Effluent Flow Metering Evaluation	\$ -	\$ -	\$ 69,000	\$ -	\$ -	\$ -
			2088 Effluent Pipeline Condition Assessment	\$ -	\$ -	\$ 229,000	\$ -	\$ -	\$ -
			2078 Scum Pump Station Upgrade	\$ -	\$ -	\$ 669,000	\$ -	\$ -	\$ -
			2069 Plant 2 Blower Building Condition Assessment	\$ -	\$ -	\$ 63,000	\$ -	\$ -	\$ -
			2067 Plant 2 Headworks Condition Assessment	\$ -	\$ -	\$ 51,000	\$ -	\$ -	\$ -
		2025							
			32222L Aeration Basin Drainage Pumps	\$ -	\$ -	\$ -	\$ 60,000	\$ 341,000	\$ -
		2026							
			2101 Effluent Pump VFD Replacement	\$ -	\$ -	\$ -	\$ -	\$ 327,000	\$ -
			2090 Odor Control Scrubber No.1 Replacement	\$ -	\$ -	\$ -	\$ -	\$ 1,127,000	\$ -
			2081 Sodium Hypochlorite System Reconstruction	\$ -	\$ -	\$ -	\$ -	\$ 720,000	\$ -
			2080 Odor Control Scrubber No.3 Installation	\$ -	\$ -	\$ -	\$ -	\$ 196,000	\$ -
			2055 Plant 1 Headworks Upgrade	\$ -	\$ -	\$ -	\$ -	\$ 2,006,000	\$ -
			2051 Influent Diversion Structure Upgrade	\$ -	\$ -	\$ -	\$ -	\$ 473,000	\$ -
	<b>Liquids Total</b>			<b>\$ 2,792,000</b>	<b>\$ 3,223,000</b>	<b>\$ 4,420,000</b>	<b>\$ 7,679,000</b>	<b>\$ 5,189,000</b>	

**Table 2 - Priority Projects - Fiscal Year 2022 and Fiscal Year 2023 Proposed CIP Budget**

	Area	Year	Project Name	Values					
				FY 21/22	FY 22/23	FY 23/24	FY 24/25	FY 25/26	
PC 02	Solids	2022							
		3234-000	Centrate Piping Reconstruction (2021)	\$ 199,000	\$ -	\$ -	\$ -	\$ -	
		3287-000	Facility Improvements B - Solids Upgrades Construction II	\$ 2,720,000	\$ 680,000	\$ -	\$ -	\$ -	
		SC-02S	PC 2 Solids Small Cap	\$ 153,000	\$ -	\$ -	\$ -	\$ -	
		2023							
		32231S	Gas Flare Replacement	\$ -	\$ 263,000	\$ 1,493,000	\$ -	\$ -	
		32224S	Dewatering System, Truck Loading Area, and MCC 2 & CF Reconstruction	\$ -	\$ 1,417,000	\$ 1,417,000	\$ -	\$ -	
		SC-02S	PC 2 Solids Small Cap	\$ -	\$ 153,000	\$ -	\$ -	\$ -	
		2024							
		2534	Buried Digester Piping Reconstruction	\$ -	\$ -	\$ 783,000	\$ -	\$ -	
		2527	Anaerobic Digester No.3 and No.4 Control Building Upgrade	\$ -	\$ -	\$ 934,000	\$ -	\$ -	
		2522	DAF Polymer System Upgrade	\$ -	\$ -	\$ 741,000	\$ -	\$ -	
		2025							
		2526	Anaerobic Digester No.3 and No.4 Mechanical Upgrade	\$ -	\$ -	\$ -	\$ 829,000	\$ 829,000	
		2026							
		2540	Dewatering System Replacement	\$ -	\$ -	\$ -	\$ -	\$ 1,016,000	
		2521	Odor Control Scrubber No.4 Installation	\$ -	\$ -	\$ -	\$ -	\$ 171,000	
<b>Solids Total</b>				<b>\$ 3,072,000</b>	<b>\$ 2,513,000</b>	<b>\$ 5,368,000</b>	<b>\$ 829,000</b>	<b>\$ 2,016,000</b>	
<b>PC 02 Total</b>				<b>\$ 6,955,000</b>	<b>\$ 6,302,000</b>	<b>\$ 9,862,000</b>	<b>\$ 8,508,000</b>	<b>\$ 11,295,000</b>	
PC 05	N/A	2023							
		46221O	Marine Outfall Core Sample and Condition Assessment	\$ -	\$ 90,000	\$ -	\$ -	\$ -	
		46211O	Land Outfall Facility Condition Assessment	\$ -	\$ 52,000	\$ -	\$ -	\$ -	
		36221O	Surge System Air Valve Replacement	\$ -	\$ 39,000	\$ -	\$ -	\$ -	
		2024							
		05057	Diffuser Port Duckbill Design	\$ -	\$ -	\$ 39,000	\$ -	\$ -	
		2025							
		05059	Monitoring Vault Reconstruction	\$ -	\$ -	\$ -	\$ 190,000	\$ -	
		05058	Diffuser Port Duckbill Construction	\$ -	\$ -	\$ -	\$ 391,000	\$ -	
		2026							
		05060	Outfall Inspection Concept Development	\$ -	\$ -	\$ -	\$ -	\$ 90,000	
<b>N/A Total</b>				<b>\$ -</b>	<b>\$ 181,000</b>	<b>\$ 39,000</b>	<b>\$ 582,000</b>	<b>\$ 90,000</b>	
<b>PC 05 Total</b>				<b>\$ -</b>	<b>\$ 181,000</b>	<b>\$ 39,000</b>	<b>\$ 582,000</b>	<b>\$ 90,000</b>	
PC 15	AWT	2022							
		35223A	Contact Basin Gate	\$ 25,000	\$ 225,000	\$ -	\$ -	\$ -	
		SC-15A	PC 15 AWT Small Cap	\$ 7,000	\$ -	\$ -	\$ -	\$ -	
		2023							
		SC-15A	PC 15 AWT Small Cap	\$ -	\$ 7,000	\$ -	\$ -	\$ -	
		2025							
		15813	AWT Building Modifications	\$ -	\$ -	\$ -	\$ 252,000	\$ -	
<b>AWT Total</b>				<b>\$ 32,000</b>	<b>\$ 232,000</b>	<b>\$ -</b>	<b>\$ 252,000</b>	<b>\$ -</b>	

**Table 2 - Priority Projects - Fiscal Year 2022 and Fiscal Year 2023 Proposed CIP Budget**

Area	Year	Project Name	Values					
			FY 21/22	FY 22/23	FY 23/24	FY 24/25	FY 25/26	
PC 15 Liquids	2022							
	55222L	NFPA 70 Classification Mapping	\$ 30,000	\$ -	\$ -	\$ -	\$ -	
	55221L	DHS Facility Compliance Review	\$ 18,000	\$ 18,000	\$ -	\$ -	\$ -	
	45226L	Consequence of Failure Analysis	\$ 50,000	\$ -	\$ -	\$ -	\$ -	
	45223L	Drainage Pump Station Condition Assessment	\$ 175,000	\$ -	\$ -	\$ -	\$ -	
	45222L	Headworks Condition Assessment	\$ 125,000	\$ -	\$ -	\$ -	\$ -	
	45221L	Foul Air System Condition Assessment	\$ 76,000	\$ -	\$ -	\$ -	\$ -	
	45212L	Site Storage Evaluation	\$ 50,000	\$ -	\$ -	\$ -	\$ -	
	3541-000	Export Sludge System Construction (2020)	\$ 3,248,000	\$ 1,392,000	\$ -	\$ -	\$ -	
	3539-000	Facility Construction Improvements - Part II (2020)	\$ 2,500,000	\$ -	\$ -	\$ -	\$ -	
	3525-000	Personnel Building Reconstruction	\$ 150,000	\$ -	\$ -	\$ -	\$ -	
	35235L	Fiber Installation to Alicia Parkway	\$ 65,000	\$ -	\$ -	\$ -	\$ -	
	35222L	Aeration Upgrade	\$ 1,600,000	\$ 6,400,000	\$ -	\$ -	\$ -	
	SC-15L	PC 15 Liquids Small Cap	\$ 633,000	\$ -	\$ -	\$ -	\$ -	
	2023							
	45225L	Electrical Manhole/Cable Assessment	\$ -	\$ 85,000	\$ -	\$ -	\$ -	
	45224L	Scum Pump Station and Wet Well Condition Assessment	\$ -	\$ 50,000	\$ -	\$ -	\$ -	
	45211L	Plant Reconfiguration Feasibility Study	\$ -	\$ 150,000	\$ -	\$ -	\$ -	
	3542-000	South Embankment Protection (2021)	\$ -	\$ 175,000	\$ -	\$ -	\$ -	
	35234L	RAS/WAS Pump Station	\$ -	\$ 84,000	\$ -	\$ -	\$ -	
	35233L	Vehicle Storage Building Mezzanine Upgrades	\$ -	\$ 85,000	\$ -	\$ -	\$ -	
	35232L	Scum Pump Station and Wet Well	\$ -	\$ 239,000	\$ 60,000	\$ -	\$ -	
	35231L	Odor Control Scrubber/Foul Air System Reconstruction	\$ -	\$ 37,000	\$ 330,000	\$ -	\$ -	
	35221L	Auxiliary Blower and Maintenance Building Roofs	\$ -	\$ 83,000	\$ 83,000	\$ -	\$ -	
	SC-15L	PC 15 Liquids Small Cap	\$ -	\$ 633,000	\$ -	\$ -	\$ -	
	2024							
	3543-000	Export Sludge Pipeline Replacement at RTP (2021)	\$ -	\$ -	\$ 475,000	\$ -	\$ -	
	15144	Standby Power Condition Assessment	\$ -	\$ -	\$ 74,000	\$ -	\$ -	
	15119	Maintenance Building Upgrade	\$ -	\$ -	\$ 739,000	\$ -	\$ -	
	15105	Headworks Screen Drum Replacement	\$ -	\$ -	\$ 721,000	\$ -	\$ -	
	15102	Odor Control Scrubber/Foul Air System Reconstruction	\$ -	\$ -	\$ 1,656,000	\$ -	\$ -	
	2025							
	15713	North Section Embankment Protection	\$ -	\$ -	\$ -	\$ 1,072,000	\$ -	
	15147	Pavement and Surface Drainage Master Plan	\$ -	\$ -	\$ -	\$ 87,000	\$ -	
	15102	Odor Control Scrubber/Foul Air System Reconstruction	\$ -	\$ -	\$ -	\$ 1,670,000	\$ -	
	2026							
	15148	Instrumentation Master Plan	\$ -	\$ -	\$ -	\$ -	\$ 90,000	
15132	Channel Lining	\$ -	\$ -	\$ -	\$ -	\$ 1,008,000		
15106	DAF Polymer and DAF Control Building Upgrade	\$ -	\$ -	\$ -	\$ -	\$ 483,000		
15101	Grit Handling Upgrade	\$ -	\$ -	\$ -	\$ -	\$ 954,000		
<b>Liquids Total</b>			<b>\$ 8,720,000</b>	<b>\$ 9,430,000</b>	<b>\$ 4,138,000</b>	<b>\$ 2,829,000</b>	<b>\$ 2,535,000</b>	
<b>PC 15 Total</b>			<b>\$ 8,752,000</b>	<b>\$ 9,662,000</b>	<b>\$ 4,138,000</b>	<b>\$ 3,081,000</b>	<b>\$ 2,535,000</b>	

**Table 2 - Priority Projects - Fiscal Year 2022 and Fiscal Year 2023 Proposed CIP Budget**

PC 17	Area	Year	Project Name	Values					
				FY 21/22	FY 22/23	FY 23/24	FY 24/25	FY 25/26	
	AWT	2022							
		SC-17A	PC 17 AWT Small Cap	\$ 69,000	\$ -	\$ -	\$ -	\$ -	\$ -
		2023							
		SC-17A	PC 17 AWT Small Cap	\$ -	\$ 69,000	\$ -	\$ -	\$ -	\$ -
	<b>AWT Total</b>			<b>\$ 69,000</b>	<b>\$ 69,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>
	Common	2022							
		57223C	Arc Flash 5-Year Update	\$ 8,000	\$ -	\$ -	\$ -	\$ -	\$ -
		57222C	DHS Facility Compliance Review	\$ 18,000	\$ 18,000	\$ -	\$ -	\$ -	\$ -
		57221C	NFPA 70 Classification Mapping	\$ 30,000	\$ -	\$ -	\$ -	\$ -	\$ -
		47224C	Consequence of Failure Analysis	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ -
		47223C	Energy Building Condition Assessment	\$ 150,000	\$ -	\$ -	\$ -	\$ -	\$ -
		47212C	Site Storage Evaluation	\$ 81,000	\$ -	\$ -	\$ -	\$ -	\$ -
		37229C	Energy Building Updates	\$ 309,000	\$ 166,000	\$ -	\$ -	\$ -	\$ -
		37224C	SCADA System Upgrade Project	\$ 387,000	\$ -	\$ -	\$ -	\$ -	\$ -
		SC-17C	PC 17 Common Small Cap	\$ 208,000	\$ -	\$ -	\$ -	\$ -	\$ -
		2023							
		3778-000	Site Lighting Upgrade - Common (2021)	\$ -	\$ 360,000	\$ 90,000	\$ -	\$ -	\$ -
		37235C	Instrumentation Plan	\$ -	\$ 100,000	\$ -	\$ -	\$ -	\$ -
		37228C	MCC A, C, G, H Replacement (Common) (2021)	\$ -	\$ 435,000	\$ 186,000	\$ -	\$ -	\$ -
		37220C	West Side Storm Channel Reconstruction	\$ -	\$ 48,000	\$ 48,000	\$ -	\$ -	\$ -
		37203C	Admin. Bldg. Door and Window Repair (2020)	\$ -	\$ 133,000	\$ -	\$ -	\$ -	\$ -
		37202C	West Slope Protection (2020)	\$ -	\$ 184,000	\$ -	\$ -	\$ -	\$ -
		SC-17C	PC 17 Common Small Cap	\$ -	\$ 208,000	\$ -	\$ -	\$ -	\$ -
		2024							
		37234C	Electrical Box Reconstruction	\$ -	\$ -	\$ 447,000	\$ 1,341,000	\$ -	\$ -
		17357	MCC D, E, & F Condition Assessment	\$ -	\$ -	\$ 51,000	\$ -	\$ -	\$ -
		17348	Secondary Access Road	\$ -	\$ -	\$ 364,000	\$ -	\$ -	\$ -
		17345	Energy Building HVAC Upgrade	\$ -	\$ -	\$ 541,000	\$ -	\$ -	\$ -
		17337	West Side Storm Channel Reconstruction - Phase I	\$ -	\$ -	\$ 571,000	\$ 571,000	\$ -	\$ -
		17332	Maintenance Shop Rehabilitation	\$ -	\$ -	\$ 361,000	\$ -	\$ -	\$ -
		17331	Energy Building Repair and Rehabilitation	\$ -	\$ -	\$ 1,882,000	\$ -	\$ -	\$ -
		17329	Laboratory Reconstruction	\$ -	\$ -	\$ 596,000	\$ 596,000	\$ -	\$ -
		2025							
		37225C	Buried Water Pipe Reconstruction	\$ -	\$ -	\$ -	\$ 163,000	\$ 650,000	\$ -
		2026							
		17355	Pavement and Surface Drainage Master Plan	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 108,000
		17350	Underground Piping Reconstruction Area B	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 222,000
		17349	Underground Piping Reconstruction Area A	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 67,000
		17323	PW Hypochlorite Pump and Instrument Replacement	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 194,000
		17320	Plant Drainage Pump Station Reconstruction	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 723,000
	<b>Common Total</b>			<b>\$ 1,241,000</b>	<b>\$ 1,651,000</b>	<b>\$ 5,139,000</b>	<b>\$ 2,671,000</b>	<b>\$ 1,964,000</b>	

**Table 2 - Priority Projects - Fiscal Year 2022 and Fiscal Year 2023 Proposed CIP Budget**

Area	Year	Project Name	Values					
			FY 21/22	FY 22/23	FY 23/24	FY 24/25	FY 25/26	
PC 17 Liquids	2022							
	47222L	Secondary Effluent Conveyance Evaluation	\$ 53,000	\$ -	\$ -	\$ -	\$ -	
	47221L	Mixed Liquor Channel Condition Assessment	\$ 284,000	\$ -	\$ -	\$ -	\$ -	
	47211L	Interstage Pump Station Condition Assessment	\$ 52,000	\$ -	\$ -	\$ -	\$ -	
	3776-000	Effluent Pond Gate Replacement (2021)	\$ 250,000	\$ -	\$ -	\$ -	\$ -	
	3759-000	AWT No.2 Electrical Upgrades (2020)	\$ 348,000	\$ -	\$ -	\$ -	\$ -	
	3758-000	AWT No.2 Reconstruction (2020)	\$ 2,272,000	\$ -	\$ -	\$ -	\$ -	
	3757-000	Miscellaneous Safety Improvements - Liquids (2020)	\$ 41,000	\$ 76,000	\$ -	\$ -	\$ -	
	3756-000	Secondary Clarifier Safety Repairs (2020)	\$ 30,000	\$ 55,000	\$ -	\$ -	\$ -	
	3753-000	Aeration Diffuser Upgrade (2020)	\$ 1,850,000	\$ -	\$ -	\$ -	\$ -	
	37221L	Aeration Basin, Gate, and Blower Upgrades	\$ 710,000	\$ 4,615,000	\$ 1,775,000	\$ -	\$ -	
	37220L	Haufman Blower Panel Upgrade	\$ 175,000	\$ -	\$ -	\$ -	\$ -	
	SC-17L	PC 17 Liquids Small Cap	\$ 290,000	\$ -	\$ -	\$ -	\$ -	
	2023							
	47225L	Grit Handling Evaluation	\$ -	\$ 63,000	\$ -	\$ -	\$ -	
	3777-000	Site Lighting Upgrade Basins (2021)	\$ -	\$ 438,000	\$ 109,000	\$ -	\$ -	
	37233L	RAS System Condition Assessment	\$ -	\$ 56,000	\$ -	\$ -	\$ -	
	37232L	Primary Sedimentation Collectors and Gates	\$ -	\$ 1,009,000	\$ -	\$ -	\$ -	
	37231L	Secondary Scum Pump Station Reconstruction	\$ -	\$ 646,000	\$ -	\$ -	\$ -	
	37228L	MCC A, C, G, H Replacement (Liquids) (2021)	\$ -	\$ 787,000	\$ 197,000	\$ -	\$ -	
	SC-17L	PC 17 Liquids Small Cap	\$ -	\$ 290,000	\$ -	\$ -	\$ -	
	2024							
	17091	Secondary Sedimentation Condition Assessment	\$ -	\$ -	\$ 69,000	\$ -	\$ -	
	17074	WAS Pump VFD Panel Reconstruction	\$ -	\$ -	\$ 164,000	\$ -	\$ -	
	2025							
	17080	Primary Scum Skimmer	\$ -	\$ -	\$ -	\$ 84,000	\$ 1,592,000	
	17055	Primary Gallery Upgrade Phase II	\$ -	\$ -	\$ -	\$ 74,000	\$ 1,412,000	
	2026							
	17720	AWT Hypochlorite Pump and Instrument Replacement	\$ -	\$ -	\$ -	\$ -	\$ 248,000	
	17089	Headworks Condition Assessment	\$ -	\$ -	\$ -	\$ -	\$ 60,000	
	17052	Odor Control Scrubber No.1 Replacement	\$ -	\$ -	\$ -	\$ -	\$ 705,000	
	<b>Liquids Total</b>			<b>\$ 6,355,000</b>	<b>\$ 8,035,000</b>	<b>\$ 2,314,000</b>	<b>\$ 158,000</b>	<b>\$ 4,018,000</b>



**Table 2 - Priority Projects - Fiscal Year 2022 and Fiscal Year 2023 Proposed CIP Budget**

Area	Year	Project Name	Values					
			FY 21/22	FY 22/23	FY 23/24	FY 24/25	FY 25/26	
PC 17	Solids	2022						
		57224S	Cogen SGIP	\$ 6,000	\$ 6,000	\$ -	\$ -	\$ -
		3773-000	Co-Generation System Modifications (2020)	\$ 291,000	\$ -	\$ -	\$ -	\$ -
		3771-000	Miscellaneous Safety Improvements - Solids (2020)	\$ 64,000	\$ -	\$ -	\$ -	\$ -
		SC-17S	PC 17 Solids Small Cap	\$ 169,000	\$ -	\$ -	\$ -	\$ -
		2023						
		37237S	Digester System Condition Assessment	\$ -	\$ 95,000	\$ -	\$ -	\$ -
		37236S	Solids Area Overhaul Plan	\$ -	\$ 100,000	\$ -	\$ -	\$ -
		37228S	MCC A, C, G, H Replacement (Solids) (2021)	\$ -	\$ 306,000	\$ 131,000	\$ -	\$ -
		SC-17S	PC 17 Solids Small Cap	\$ -	\$ 169,000	\$ -	\$ -	\$ -
		2024						
		3772-000	Hot Water Piping Reconstruction (2020)	\$ -	\$ -	\$ 312,000	\$ -	\$ -
		37226S	Flare Replacement Project	\$ -	\$ -	\$ 570,000	\$ 2,281,000	\$ -
		17538	Digested and Eq Sludge Pump VFD Replacement	\$ -	\$ -	\$ 328,000	\$ -	\$ -
		17528	Heating System Reconstruction	\$ -	\$ -	\$ 205,000	\$ 513,000	\$ 1,334,000
		2025						
		17533	Solids Conveyor Replacement	\$ -	\$ -	\$ -	\$ 220,000	\$ 1,539,000
		17532	Dewatering System Reconstruction	\$ -	\$ -	\$ -	\$ 413,000	\$ 2,063,000
		17529	Digester Gas Management Building Rehabilitation	\$ -	\$ -	\$ -	\$ 429,000	\$ -
		17526	MCC D Replacement	\$ -	\$ -	\$ -	\$ 600,000	\$ -
		17525	Solids Building Structural Rehabilitation	\$ -	\$ -	\$ -	\$ 352,000	\$ -
		2026						
		17534	Storage and Truck loading Rehabilitation	\$ -	\$ -	\$ -	\$ -	\$ 945,000
	<b>Solids Total</b>		<b>\$ 530,000</b>	<b>\$ 676,000</b>	<b>\$ 1,547,000</b>	<b>\$ 4,808,000</b>	<b>\$ 5,881,000</b>	
<b>PC 17 Total</b>			<b>\$ 8,194,000</b>	<b>\$ 10,431,000</b>	<b>\$ 9,000,000</b>	<b>\$ 7,637,000</b>	<b>\$ 11,862,000</b>	
PC 21	B/C/D	2022						
		31211B	Aliso ETM Reach B/C Techite Replacement	\$ 292,000	\$ 292,000	\$ 3,285,000	\$ 3,431,000	\$ -
		3109-000	Trail Bridge Crossing (D) (2021)	\$ 512,000	\$ 512,000	\$ -	\$ -	\$ -
		3107-000	Air Valve Replacement Construction (D) (2021)	\$ 378,000	\$ -	\$ -	\$ -	\$ -
		2024						
		21312	Pecten Reef Crossing Protection Design (Reach D)	\$ -	\$ -	\$ 343,000	\$ -	\$ -
		2025						
		21314	Reach D CCTV Inspection (Reach D)	\$ -	\$ -	\$ -	\$ 387,000	\$ -
		21313	Pecten Reef Crossing Protection Construction (Reach D)	\$ -	\$ -	\$ -	\$ 1,385,000	\$ -
		2026						
	21111	Reach B Replacement Design (Reach B)	\$ -	\$ -	\$ -	\$ -	\$ 420,000	
	<b>B/C/D Total</b>		<b>\$ 1,181,000</b>	<b>\$ 804,000</b>	<b>\$ 3,628,000</b>	<b>\$ 5,202,000</b>	<b>\$ 420,000</b>	
	E	2022						
	3108-000	Air Valve Replacement Construction ( E) (2021)	\$ 472,000	\$ -	\$ -	\$ -	\$ -	
	2026							
	21411	Reach E CCTV Inspection (Reach E)	\$ -	\$ -	\$ -	\$ -	\$ 402,000	
	<b>E Total</b>		<b>\$ 472,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 402,000</b>	
<b>PC 21 Total</b>			<b>\$ 1,654,000</b>	<b>\$ 804,000</b>	<b>\$ 3,628,000</b>	<b>\$ 5,202,000</b>	<b>\$ 822,000</b>	

**Table 2 - Priority Projects - Fiscal Year 2022 and Fiscal Year 2023 Proposed CIP Budget**

	Area	Year	Project Name	Values					
				FY 21/22	FY 22/23	FY 23/24	FY 24/25	FY 25/26	
PC 24	N/A	2022							
		442220	Golf Course Road Condition Assessmnet	\$ 45,000	\$ -	\$ -	\$ -	\$ -	
		3480-000	Internal Seal Replacement	\$ 175,000	\$ -	\$ -	\$ -	\$ -	
		2023							
		442210	Metering and Sampling Review	\$ -	\$ 67,000	\$ -	\$ -	\$ -	
		4401-000	Creek Section Pipeline Replacement Estimate Update	\$ -	\$ 51,000	\$ -	\$ -	\$ -	
		2025							
		24112	Metering Station Reconstruction Design and Permitting	\$ -	\$ -	\$ -	\$ 173,000	\$ -	
		2026							
		24113	Metering Station Reconstruction	\$ -	\$ -	\$ -	\$ -	\$ 2,000	
<b>N/A Total</b>				<b>\$ 220,000</b>	<b>\$ 118,000</b>	<b>\$ -</b>	<b>\$ 173,000</b>	<b>\$ 2,000</b>	
<b>PC 24 Total</b>				<b>\$ 220,000</b>	<b>\$ 118,000</b>	<b>\$ -</b>	<b>\$ 173,000</b>	<b>\$ 2,000</b>	
<b>Grand Total</b>				<b>\$ 25,775,000</b>	<b>\$ 27,497,000</b>	<b>\$ 26,667,000</b>	<b>\$ 25,182,000</b>	<b>\$ 26,606,000</b>	