

DATE: April 19, 2021

TO: Orange County Sanitation District  
Board of Directors

FROM: James D. Herberg, General Manager  
Through: Kathy Millea, Director of Engineering

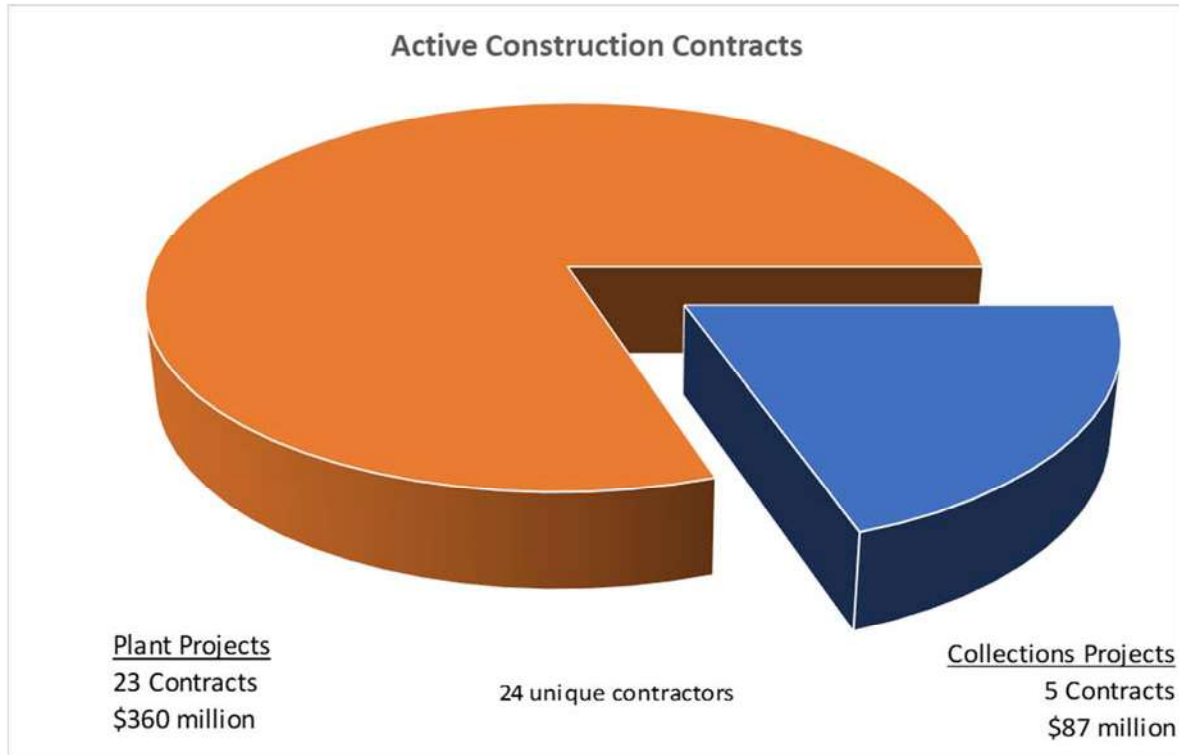
This report summarizes the status, activities, and performance of public works construction contracts and consultant agreements. This report also identifies the names and status of projects being performed under master budgets for planning studies, research, small construction projects, O&M capital projects, and information technology projects.

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**PART 1 - CONSTRUCTION CONTRACTS**

Table 1 lists the Board-awarded construction contracts active as of March 31, 2020. Table 2 lists active construction projects awarded by the General Manager, either because the contract value is within his signature authority, or because the work is being done under a task order with a \$300,000 limit. The graph below shows the number and total value of projects broken down plant and collections.



Six Board-awarded construction contracts were closed in this quarter, as listed in Table 3. Two construction contracts awarded by the General Manager were closed in this quarter, as listed in Table 4.

**Engineering Program Contract Performance Report  
for Quarter Ending 3/31/2021**

**Table 1 - Active Board-Awarded Construction Contracts as of 3/31/2021**

Project / Contract	Contractor	Award Date	% Complete	Board Award Amount	Change Orders	Current Contract Amount	Original Contingency	Current Contingency	Contingency Used	Contingency Remaining
<b>2-72</b> Newhope-Placentia Trunk Replacement 2-72B Newhope-Placentia Trunk Replacement, Segment B	OHL USA, INC.	06/15/2018	93%	\$58,242,000	\$2,941,348	\$61,183,348	6.5%	6.5%	5.1%	1.4%
<b>3-62</b> Westminster Blvd Force Main Replacement 3-62 Westminster Blvd Force Main Replacement	Teichert Energy & Utilities Group, Inc.	12/18/2019	57%	\$27,743,000	\$188,603	\$27,931,603	10.0%	10.0%	0.7%	9.3%
<b>J-117</b> Ocean Outfall System Rehabilitation J-117B Outfall Low Flow Pump Station	Shimmick Construction Co., Inc.	12/19/2018	33%	\$90,200,000	\$504,722	\$90,704,722	8.0%	8.0%	0.6%	7.4%
<b>J-126</b> Safety Improvements Program J-126C NFPA 820 HVAC and Electrical Improvements J-126IK Stairs, Hatches, Walkway Hazards, Ladders, Guardrails, Roof Fall Protection	MMC, Inc. Olsson Construction, Inc.	03/05/2019 10/24/2018	92% 100%	\$469,000 \$3,637,601	\$0 \$264,529	\$469,000 \$3,902,130	10.0% 10.0%	10.0% 10.0%	0.0% 7.3%	10.0% 2.7%
<b>J-127</b> Natural Gas Pipelines Replacement at Plant Nos. 1 and 2 J-127 Natural Gas Pipelines Replacement at Plant Nos. 1 and 2	Innovative Construction Solutions	07/22/2020	7%	\$745,500	\$0	\$745,500	10.0%	10.0%	0.0%	10.0%
<b>P1-105</b> Headworks Rehabilitation at Plant 1 P1-105 Headworks Rehabilitation at Plant 1	Kiewit Infrastructure West Co.	02/24/2021	0%	\$222,330,000	\$0	\$222,330,000	4.0%	4.0%	0.0%	4.0%
<b>P1-128</b> Headquarters Complex P1-128C Headquarters Complex Site Preparation	Resource Environmental, Inc.	07/01/2020	96%	\$1,555,000	\$0	\$1,555,000	10.0%	10.0%	0.0%	10.0%
<b>P1-129</b> Return Activated Sludge Piping Replacement at Activated Sludge Plant No. 1 P1-129 Return Activated Sludge Piping Replacement at Activated Sludge Plant No. 1	Abhe & Svoboda, Inc.	07/24/2019	100%	\$6,863,092	\$68,360	\$6,931,452	10.0%	10.0%	1.0%	9.0%
<b>P1-135</b> Digester Ferric Chloride Piping Replacement at Plant No. 1 P1-135 Digester Ferric Chloride Piping Replacement at Plant No. 1	PPM Contracting (PPM)	02/02/2021	0%	\$515,000	\$0	\$515,000	10.0%	10.0%	0.0%	10.0%
<b>P2-98</b> Primary Treatment Rehabilitation at Plant No. 2 P2-98B B/C-Side Primary Clarifiers Interim Repair at Plant 2	Myers & Sons Construction, LLC	01/23/2019	82%	\$8,665,000	\$428,356	\$9,093,356	10.0%	10.0%	4.9%	5.1%
<b>P2-122</b> Headworks Modifications at Plant No. 2 for GWRS Final Expansion P2-122 Headworks Modifications at Plant No. 2 for GWRS Final Expansion	Shimmick Construction Co., Inc.	01/22/2020	31%	\$14,487,735	\$37,844	\$14,525,579	10.0%	10.0%	0.3%	9.7%
<b>P2-123</b> Return Activated Sludge Piping Replacement at Plant 2 P2-123 Return Activated Sludge Piping Replacement at Plant 2	Shimmick Construction Co., Inc.	09/25/2019	44%	\$6,042,110	\$62,446	\$6,104,556	10.0%	10.0%	1.0%	9.0%
<b>M-FE</b> Small Construction Projects Program FE18-11 Headworks Explosive Gas Monitoring Systems at Plant No. 1 and No. 2	Baker Electric	01/22/2020	0%	\$223,984	\$0	\$223,984	10.0%	10.0%	0.0%	10.0%
FE18-14 Plant Water Pipeline Replacement in Kinnison, Lindstrom, and Scott Tunnels at Plant No. 2	MMC, Inc.	12/16/2020	0%	\$1,134,000	\$0	\$1,134,000	15.0%	15.0%	0.0%	15.0%
FE18-19 12KV Distribution B and East RAS Pump Station Roofing Replacement	O'Connell Engineering & Construction, Inc.	5/27/20	47%	\$674,800	\$0	\$674,800	10.0%	10.0%	0.0%	10.0%
<b>M-SIM-CAP</b> Operations & Maintenance Capital Program SC17-03 CenGen Oil Filter Platform	Metro Builders & Engineers Group, Ltd.	12/4/19	100%	\$134,479	\$10,968	\$145,447	10.0%	10.0%	8.2%	1.8%
SC18-05 P1 Laboratory HVAC Boiler Burner Replacement At Plant No.1	ODC Engineering & Technology	11/20/19	100%	\$283,000	\$4,932	\$287,932	10.0%	10.0%	1.7%	8.3%
SC19-03 Return Activated Sludge Pump Station Elevator Rehabilitation at Plant No. 2	OTIS	12/16/20	0%	\$432,400	\$0	\$432,400	20.0%	20.0%	0.0%	20.0%

**Engineering Program Contract Performance Report  
for Quarter Ending 3/31/2021**

**Table 1 - Active Board-Awarded Construction Contracts as of 3/31/2021**

Project / Contract	Contractor	Award Date	% Complete	Board Award Amount	Change Orders	Current Contract Amount	Original Contingency	Current Contingency	Contingency Used	Contingency Remaining
<b>Operationally-Funded Projects</b>										
FRC-0004 Seal Beach Pump Station Isolation Valve Replacement	J.R. Filanc Construction Company, Inc.	12/16/20	0%	\$466,830	\$0	\$466,830	20.0%	20.0%	0.0%	20.0%
MP-105 P2 CENGEN Stream Turbine Rehabilitation	Dresser-Rand	3/25/18	64%	**\$484,220	\$0	\$484,220	20.0%	20.0%	0.0%	20.0%
MP-305 Cengen Supply Air Fan Support Replacement at Plant No. 2	J.R. Filanc Construction Company, Inc.	12/16/20	0%	\$297,000	\$0	\$297,000	15.0%	15.0%	0.0%	15.0%
MP-638 Activated Sludge Plant Clarifier Inlet Gate Replacement at Plant No. 2	Innovative Construction Solutions	12/18/19	60%	\$658,300	\$0	\$658,300	10.0%	10.0%	0.0%	10.0%
<b>Total</b>				<b>\$446,284,051</b>	<b>\$4,512,108</b>	<b>\$450,796,159</b>				

\*\* Original Award was \$245,424, and later amended to \$484,220 with a contingency reduction by Board Action on 4/22/20

**Engineering Program Contract Performance Report  
for Quarter Ending 3/31/2021**

**Table 2 - Active GM-Awarded Construction Contracts and Task Orders as of 3/31/2021**

Project / Contract	Contractor	Award Date	% Complete	Original Award Amount	Change Orders	Current Contract Amount	Change Order Rate
<b>IM-FE Small Construction Projects Program</b>							
FE19-09 Newhope - Placentia Trunk Grade Separation Replacement Repairs	Charles King Company, Inc.	9/21/20	100%	\$298,850	\$0	\$298,850	0.0%
<b>Operationally Funded Projects</b>							
FR1-0010 Laboratory Building Roof Repair at Plant No 1	J.R. Filanc Construction Company, Inc.	1/19/21	0%	\$88,283	\$0	\$88,283	0.0%
FR2-0019 Digester O Repairs at Plant No. 2	Jamison Engineering	8/28/20	60%	\$131,000	\$0	\$131,000	0.0%
FR2-0021 Boilers Retubing at Plant 2	RF MacDonald	2/8/21	0%	\$51,250	\$0	\$51,250	0.0%
FRC-0008 East Lido Forcemain Repair	W.A. Rasic Construction Company	4/6/21	0%	\$129,721	\$0	\$129,721	0.0%
<b>Total</b>				<b>\$699,104</b>	<b>\$0</b>	<b>\$699,104</b>	

**Engineering Program Contract Performance Report  
for Quarter Ending 3/31/2021**

**Table 3 - Board-Awarded Construction Contracts Closed in Last Quarter**

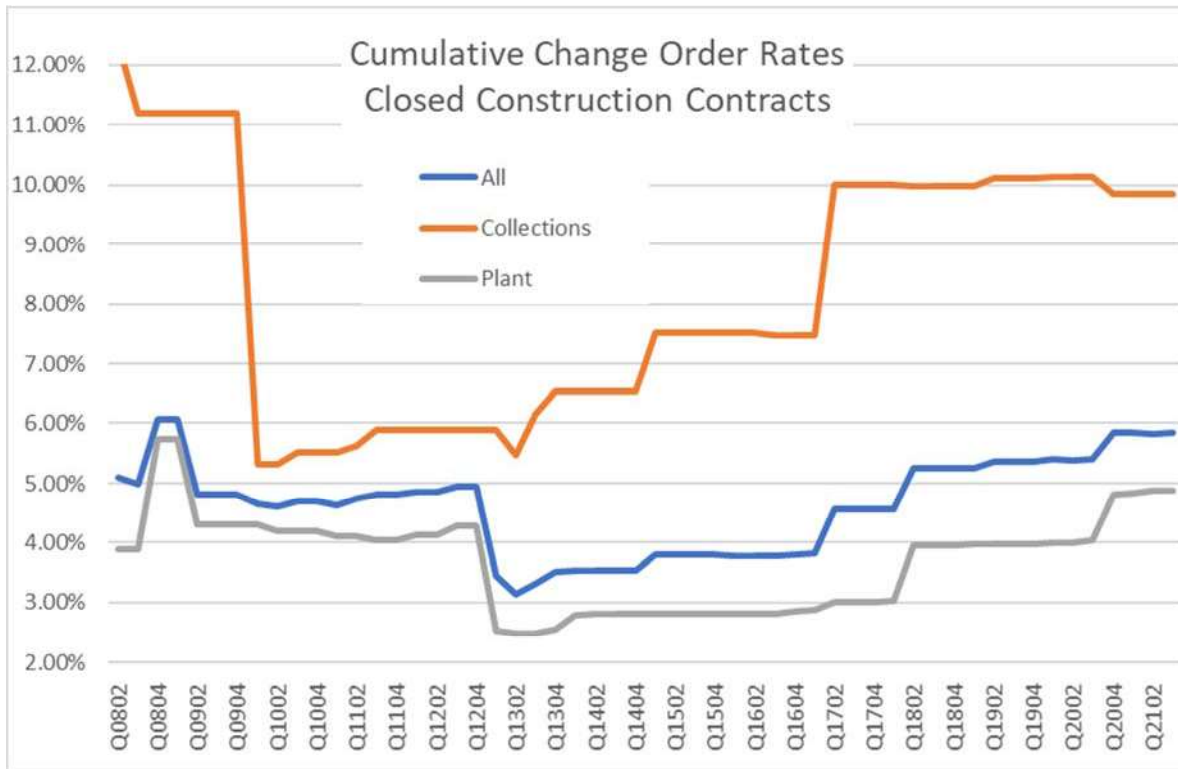
Project / Contract	Contractor	Date Closed	Award Date	Board Award Amount	Change Orders	Final Contract Amount	Original Contingency	Current Contingency	Contingency Used	Unused Contingency
<b>P2-92</b> Sludge Dewatering and Odor Control at Plant 2	Shimmick Construction Co., Inc.	1/19/21	01/12/2015	\$49,850,000	\$2,991,000	\$52,841,000	5.0%	6.0%	6.0%	0.0%
<b>P1-129</b> Return Activated Sludge Piping Replacement at Activated Sludge Plant No. 1	Abhe & Svoboda, Inc.	1/5/21	07/24/2019	\$6,863,092	\$68,360	\$6,931,452	10.0%	10.0%	1.0%	9.0%
<b>M-FE</b> Small Construction Projects Program FE18-17 Trunkline Sampler Power Feed at Plant No 2	M. Brey Electric, Inc.	12/4/20	3/25/20	\$101,050	\$0	\$101,050	20.0%	20.0%	0.0%	20.0%
<b>M-SM-CAP</b> Operations & Maintenance Capital Program SCI7-03 CenGen Oil Filter Platform	Metro Builders & Engineers Group, Ltd.	3/9/21	12/04/2019	\$134,479	\$10,960	\$145,439	10.0%	10.0%	8.1%	1.9%
<b>Operational-Funded Projects</b> SCI8-05 P1 Laboratory HVAC Boiler Burner Replacement At Plant No.1	ODC Engineering & Technology	2/2/21	11/20/2019	\$283,000	\$9,767	\$292,767	10.0%	10.0%	3.5%	6.5%
<b>FE17-06</b> Tustin Ave Manhole and Pipe Repair	Nuline Technologies, LLC	2/16/21	10/24/2019	\$350,000	\$90,684	\$440,684	10.0%	30.0%	25.9%	4.1%
<b>Total</b>				<b>\$57,581,621</b>	<b>\$3,170,771</b>	<b>\$60,752,392</b>				

**Engineering Program Contract Performance Report  
for Quarter Ending 3/31/2021**

**Table 4 - GM-Awarded Construction Contracts and Task Order Closed in Last Quarter**

Project / Contract	Contractor	Date Closed	Award Date	Original Award Amount	Change Orders	Final Contract Amount	Final Change Order Rate
<b>Operationally-Funded Projects</b>							
FRC-0005 East Coast Highway Trunk Repair	Charles King	3/2/21	08/17/2020	\$197,840	\$28,780	\$226,620	14.5%
FRC-0006 480V Feeder Replacement at the Rocky Point Pump Station	Charles King Company, Inc.	1/19/21	06/24/2020	\$90,700	\$15,751	\$106,451	17.4%
			<b>Total</b>	<b>\$288,540</b>	<b>\$44,531</b>	<b>\$333,071</b>	<b>15%</b>

When the Orange County Sanitation District (OC San) Board awards a construction contract, they also approve a contingency which allows the General Manager to approve contract change orders up to the amount of the contingency. One purpose of this report is to document how much of the contingency is utilized. A contract's change order rate is only meaningful when the work is completed. As such, the change order performance charts in this report are based only on contracts closed since the Board began approving contingencies in 2008. The following chart shows how cumulative change order rates have changed for plant, collections, and all contracts since the contingency system was implemented.





## **PART 2 – ENGINEERING SERVICES AGREEMENTS**

OC San engages engineering consultants through Professional Service Agreements (PSAs), Professional Design Services Agreements (PDSAs), Professional Construction Services Agreements (PCSAs), and Master Professional Services Agreements (Master Agreements). PDSAs are used to obtain design engineering services, and PCSAs are a subsequent agreement with the design consultant to provide support services during construction. PSAs are used for planning studies and other consultant assignments. There are currently 19 firms with active engineering services agreements.

Master Agreements are issued to a pool of pre-qualified consultants for smaller projects. On those smaller projects, OC San solicits task order proposals from three or four of the firms and awards a task order to the most qualified consultant. There are currently six sets of Master Agreements.

- 2012 Master Design Agreements (expired)
- 2015 Master Design Agreements (expired)
- 2017 Master Agreements for Wastewater Treatment Planning Studies
- 2018 Master Design Agreements
- 2020 Master Agreements for On-Call Planning Studies

The two Master Design Agreements from 2012 and 2015 and the 2017 Master Agreements for Wastewater Planning Studies have expired, meaning no new task orders can be issued under them, but previously-issued task orders remain active until completed. Task Orders are limited by OC San Ordinance No. OCSD-52 to \$300,000 per task order. The 2020 Master Agreements for Planning Studies were awarded in September to replace the 2017 Master Agreements for Collection and Wastewater Planning Studies that expired in October 2020.

A status table for all Active Engineering Services Agreements (PDSAs and PCSAs) is attached under Table 5, and a status table for all Active Task Orders by Master Agreement is attached under Table 6 (Master Agreements).

**Engineering Program Contract Performance Report  
for Quarter Ending 3/31/2021**

**Table 5 - Active Engineering Services Agreements as of 3/31/2021**

Project / Contract	Type	Consultant	Award Date	% Complete	Board Award Amount	Amendments	Current Contract Amount	Original Contingency	Current Contingency	Contingency Used	Contingency Remaining
<b>2-49 Taft Branch Improvements</b>											
2-49 Taft Branch Improvements	PDSA	Woodard & Curran, Inc.	2/24/21	0%	\$2,200,000	\$0	\$2,200,000	10.0%	10.0%	0.0%	10.0%
<b>2-72 Newhope-Placencia Trunk Replacement</b>											
2-72 Newhope-Placencia Trunk Replacement	PCSA	Lee & Ro	3/23/16	22%	\$3,253,946	\$0	\$3,253,946	10.0%	10.0%	0.0%	10.0%
<b>3-62 Westminster Blvd Force Main Replacement</b>											
3-62 Westminster Blvd Force Main Replacement	PCSA	Stantec Consulting Services, Inc.	12/18/19	11%	\$1,183,000	\$0	\$1,183,000	10.0%	10.0%	0.0%	10.0%
<b>3-64 Rehabilitation of Western Regional Sewers</b>											
3-64 Rehabilitation of Western Regional Sewers	PDSA	AECOM Technical Services, Inc.	1/27/16	63%	\$17,639,250	\$1,088,654	\$18,727,904	10.0%	10.0%	6.2%	3.8%
<b>3-67 Seal Beach Pump Station Replacement</b>											
3-67 Seal Beach Pump Station Replacement	PDSA	Lee & Ro	11/20/19	26%	\$5,947,850	\$0	\$5,947,850	10.0%	10.0%	0.0%	10.0%
<b>5-67 Bay Bridge Pump Station Replacement</b>											
5-67 Bay Bridge Pump Station Replacement	PDSA	Arcadis US Inc.	10/25/17	10%	\$7,137,000	\$1,750,315	\$8,887,315	10.0%	35.0%	24.5%	10.5%
<b>5-68 Newport Beach Pump Station Pressurization Improvements</b>											
5-68 Newport Beach Pump Station Pressurization Improvements	PDSA	Dudek	5/6/20	26%	\$542,988	\$0	\$542,988	10.0%	10.0%	0.0%	10.0%
<b>7-65 Gisler - Red Hill Interceptor Rehabilitation</b>											
7-65 Gisler - Red Hill Interceptor Rehabilitation	PDSA	CDM Smith Inc.	9/23/20	13%	\$1,754,000	\$0	\$1,754,000	10.0%	10.0%	0.0%	10.0%
<b>7-66 Sunflower and Red Hill Interceptor Repairs</b>											
7-66 Sunflower and Red Hill Interceptor Repairs	PDSA	GHD	9/25/19	73%	\$308,712	\$14,548	\$323,260	10.0%	10.0%	4.7%	5.3%
<b>J-117 Ocean Outfall System Rehabilitation</b>											
J-117 Ocean Outfall System Rehabilitation	PCSA	Brown and Caldwell	12/19/18	32%	\$8,563,913	\$346,857	\$8,910,770	10.0%	10.0%	4.1%	5.9%
<b>J-124 Digester Gas Facilities Replacement</b>											
J-124 Digester Gas Facilities Replacement	PDSA	Brown and Caldwell	11/15/17	74%	\$11,770,000	-\$36,411	\$11,733,589	10.0%	10.0%	0.0%	10.0%
<b>J-126 Safety Improvements Program</b>											
J-126 Safety Improvements Program	PDSA	Arcadis	8/29/16	89%	**\$3,040,000	\$0	\$3,040,000	10.0%	10.0%	0.0%	10.0%
<b>J-98 Electrical Power Distribution System Improvements</b>											
J-98 Electrical Power Distribution System Improvements	PDSA	Brown and Caldwell	1/29/20	22%	\$2,240,000	\$0	\$2,240,000	10.0%	10.0%	0.0%	10.0%
<b>M-RESEARCH - Research Program</b>											
RE17-02 Biogas Scrubber Evaluation	PSA	Carollo Engineers, Inc.	4/21/17	88%	\$656,783	\$63,097	\$719,880	15.0%	15.0%	9.6%	5.4%
<b>M-STUDIES Planning Studies Program</b>											
PS15-02 Edinger Pump Station Rehabilitation Study	PSA	Lockwood, Andrews & Newman, Inc.	11/9/17	78%	\$505,042	\$0	\$505,042	10.0%	10.0%	0.0%	10.0%
PS17-03 Active Fault Location Study at Plant No. 2	PSA	Lettis Consultants International, Inc.	3/6/19	41%	\$868,286	\$0	\$868,286	10.0%	10.0%	0.0%	10.0%
PS17-08 CEQA - Facilities Master Plan	PSA	Dudek	2/27/19	80%	\$812,709	\$0	\$812,709	10.0%	10.0%	0.0%	10.0%
PS18-09 Ocean Outfall Condition Assessment and Scoping Study	PSA	Carollo Engineers, Inc.	3/23/20	51%	\$2,744,000	\$0	\$2,744,000	10.0%	10.0%	0.0%	10.0%
<b>P1-101 Sludge Dewatering and Odor Control at Plant 1</b>											
P1-101 Sludge Dewatering and Odor Control at Plant 1	PCSA	HDR Engineering, Inc.	6/28/12	99%	\$7,140,000	\$2,453,653	\$9,593,653	8.0%	35.0%	34.4%	0.6%
<b>P1-105 Headworks Rehabilitation at Plant 1</b>											
P1-105 Headworks Rehabilitation at Plant 1	PDSA	Carollo Engineers, Inc.	5/27/15	95%	\$17,528,957	\$7,902,304	\$25,431,261	10.0%	51.0%	45.1%	5.9%
P1-105 Headworks Rehabilitation at Plant 1	PCSA	Carollo Engineers, Inc.	3/24/21	0%	\$16,500,000	\$0	\$16,500,000	10.0%	10.0%	0.0%	10.0%
<b>P1-128 Headquarters Complex</b>											
P1-128 Headquarters Complex	PDSA	HDR Engineering, Inc.	6/22/16	8%	\$11,785,709	\$1,114,053	\$12,899,762	10.0%	10.0%	9.5%	0.5%
P1-128C Headquarters Complex Site Preparation	PCSA	HDR Engineering, Inc.	7/1/20	15%	\$178,000	\$0	\$178,000	10.0%	10.0%	0.0%	10.0%
<b>P1-129 Return Activated Sludge Piping Replacement at Activated Sludge Plant No. 1</b>											
P1-129 Return Activated Sludge Piping Replacement at Activated Sludge Plant No. 1	PCSA	AECOM Technical Services, Inc.	7/24/19	86%	\$140,000	\$0	\$140,000	10.0%	10.0%	0.0%	10.0%
<b>P1-132 Uninterruptable Power Supply Improvements at Plant 1</b>											
P1-132 Uninterruptable Power Supply Improvements at Plant 1	PDSA	Tetra Tech, Inc.	10/23/19	44%	\$784,680	\$0	\$784,680	10.0%	10.0%	0.0%	10.0%
<b>P1-133 Primary Sedimentation Basins No. 6-31 Reliability Improvements at Plant No. 1</b>											
P1-133 Primary Sedimentation Basins No. 6-31 Reliability Improvements at Plant No. 1	PDSA	Carollo Engineers, Inc.	9/25/19	78%	\$1,219,667	\$0	\$1,219,667	10.0%	10.0%	0.0%	10.0%

**Engineering Program Contract Performance Report  
for Quarter Ending 3/31/2021**

**Table 5 - Active Engineering Services Agreements as of 3/31/2021**

Project / Contract	Type	Consultant	Award Date	% Complete	Board Award Amount	Amendments	Current Contract Amount	Original Contingency	Current Contingency	Contingency Used	Contingency Remaining
<b>P2-92</b> Sludge Dewatering and Odor Control at Plant 2	PCSA	Brown and Caldwell	12/17/14	88%	\$4,798,328	\$0	\$4,798,328	10.0%	10.0%	0.0%	10.0%
<b>P2-98</b> Primary Treatment Rehabilitation at Plant No. 2	PDSA	Black & Veatch	7/27/16	47%	\$18,141,423	\$1,514,540	\$19,655,963	10.0%	10.0%	8.3%	1.7%
<b>P2-98B</b> B/C-Side Primary Clarifiers Interim Repair at Plant 2	PCSA	Black & Veatch	1/23/19	42%	\$549,534	\$0	\$549,534	10.0%	10.0%	0.0%	10.0%
<b>P2-122</b> <b>Headworks Modifications at Plant No. 2 for GWRS Final Expansion</b>	PCSA	CDM Smith Inc.	1/15/20	23%	\$2,200,000	\$0	\$2,200,000	10.0%	10.0%	0.0%	10.0%
<b>P2-123</b> <b>Return Activated Sludge Piping Replacement at Plant 2</b>	PCSA	SPEC Services, Inc.	9/25/19	62%	\$252,329	\$0	\$252,329	10.0%	10.0%	0.0%	10.0%
<b>P2-124</b> <b>Interim Food Waste Receiving Facility</b>	PDSA	Kennedy/Jenks Consultants	9/5/18	100%	\$695,000	\$31,168	\$726,168	10.0%	10.0%	4.5%	5.5%
<b>P2-126</b> <b>Warehouse, Electrical Substation and 12kV Service Center Replacement at Plant No. 2</b>	PDSA	Stantec Consulting Services, Inc.	11/18/20	0%	\$4,876,455	\$0	\$4,876,455	10.0%	10.0%	0.0%	10.0%
<b>P2-128</b> <b>TPAD Digester Facility at Plant 2</b>	PDSA	Brown and Caldwell	6/23/20	4%	\$39,300,000	\$0	\$39,300,000	10.0%	10.0%	0.0%	10.0%
<b>SP-196</b> <b>Process Control Systems Upgrades Study</b>	PSA	Stantec Consulting Services, Inc.	3/1/18	76%	\$1,389,866	\$108,966	\$1,498,832	10.0%	10.0%	7.8%	2.2%
<b>Operationally Funded Projects</b> FR1-0007 Control Center Offices and Day Training Room Remodelling at Plant No. 1 (GM Awarded)	PSA	AECOM Technical Services, Inc.	1/15/20	8%	\$81,351	\$0	\$81,351	0.0%	0.0%	0.0%	0.0%
<b>Total</b>					<b>\$200,025,656</b>	<b>\$16,351,744</b>	<b>\$216,377,400</b>				

\*\* Original Award was \$1,540,000, and later amended to \$3,040,000 by Board Action

**Engineering Program Contract Performance Report  
for Quarter Ending 3/31/2021**

**Table 6 - Active Task Orders by Master Agreement as of 3/31/2021**

Master Agreement / Project	Consultant	Award Date	Original Task Order Value	Amendments	Current Task Order Value	
<b>2012 Master Professional Design Service Agreements (Expired)</b>						
FE10-21 Area 02 Craig Regional Park Manhole Improvements	GHD	10/8/2012	\$58,440	\$41,560	\$100,000	
<b>2015 Master Professional Design Service Agreements (Expired)</b>						
FE14-05 Plant No. 1 Fleet Services UST Leak Remediation	Dudek	9/4/2015	\$86,116	\$73,137	\$159,253	
<b>2017 Master Agreements for Wastewater Treatment Planning Studies</b>						
PS18-11 ETAP Model Updates for Plant Nos 1 and 2	Brown and Caldwell	3/17/2020	\$227,412	\$0	\$227,412	
PS19-03 Laboratory Rehabilitation Feasibility Study	HDR Engineering, Inc.	10/20/2020	\$274,888	\$0	\$274,888	
<b>2018 Master Professional Design Service Agreements</b>						
FR2-0013 Tricking Filter Sludge Pump Room Exhaust Fan Relocation at Plant No. 2	AECOM	11/16/2019	\$75,120	\$0	\$75,120	
FE19-02 Cengen Plant Water Pipe Replacement at Plant No. 1	AECOM	04/30/2020	\$156,498	\$0	\$156,498	
FE19-11 Primary Clarifiers Nos. 6-31 Lighting and Alarm Improvements at Plant No. 1	AECOM	9/15/2020	\$226,685	\$0	\$226,685	
FE19-13 VFD Replacements at Seal Beach Pump Station	AECOM	3/12/2021	\$78,033	\$0	\$78,033	
FE20-01 Wastewater Station Safety and Security Improvements	AECOM	3/12/2021	\$161,012	\$0	\$161,012	
J-127 Natural Gas Pipelines Replacement at Plant Nos. 1 and 2	Black & Veatch	1/21/2019	\$771,964	\$28,036	\$300,000	
FE19-03 Tricking Filter Sludge and Scum Pumps Replacement at Plant No. 1	Black & Veatch	9/1/2020	\$244,728	\$0	\$244,728	
FE18-14 Plant Water Pipeline Replacement in Kinnison, Lindstrom, and Scott Tunnels at Plant No. 2	Dudek	11/16/2019	\$108,308	\$0	\$108,308	
P1-135 Digester Ferric Chloride Piping Replacement at Plant No. 1	Dudek	2/19/2020	\$127,174	\$0	\$127,174	
FE18-16 Truck Loading Basement Drain Modifications at Plant No. 1	GHD, Inc.	12/4/2019	\$70,130	\$18,365	\$88,495	
FE18-13 Redhill Relief Sewer Relocation at State Route 55	GHD, Inc.	3/27/2020	\$168,612	\$54,883	\$223,495	
FE19-10 Digesters C, D, F, G, and I Gas Balance Lines Replacement at Plant No. 2	GHD, Inc.	1/19/2021	\$25,000	\$0	\$25,000	
FE18-19 12KV Distribution Center B and East RAS Pump Station Roof Replacement	HDR Engineering, Inc.	09/16/2019	\$74,771	\$8,672	\$83,443	
FE18-20 Blower Building No. 1 Air Compressors at Plant No. 1	HDR Engineering, Inc.	8/18/2020	\$243,954	\$0	\$243,954	
FE20-02 Digester C, D, F, and G Mechanical Rehabilitation at Plant No. 2	HDR Engineering, Inc.	3/2/2021	\$188,212	\$0	\$188,212	
FE18-15 Plant Boiler System Relief at Plant No. 2	IDS Group, Inc.	10/22/2019	\$23,299	\$0	\$23,299	
FE18-06 Cengen Instrument Air Compressors Replacement at Plant No. 1 and No. 2	IDS Group, Inc.	04/28/2020	\$89,876	\$0	\$89,876	
FE19-06 EPSA Motor Cooling Improvements at Plant No. 2	IDS Group, Inc.	05/05/2020	\$88,206	\$0	\$88,206	
<b>2020 Master Agreements for On-Call Planning Studies</b>						
No Task Orders Issued to Date		--	--	--	--	
<b>Total</b>				\$3,068,438	\$224,653	\$3,293,091

**PART 3 – MASTER BUDGET PROJECTS**

The Board-adopted budget for Fiscal Years 2018-19 and 2019-20 includes master program budgets that allow staff to more quickly initiate, execute, and manage smaller projects that fit within the scope of a particular program. The projects chartered under these program budgets are referred to as sub-projects and are managed to the same standards as projects specifically listed in the adopted budget. A status table for each of these programs listing the sub-projects is attached.

<b>Master Program Title</b>	<b>Status Table</b>
Planning Studies Program	Table 7
Research Program	Table 8
Small Construction Projects Program	Table 9
Information Technology Capital Program	Table 10
Operations & Maintenance Capital Program	Table 11

**Engineering Program Contract Performance Report  
for Quarter Ending 3/31/2021  
Table 7 - Planning Studies Status Report**

<b>Project Number</b>	<b>Project Name</b>	<b>Status</b>	<b>Allocated Budget</b>
PS15-02	Edinger Pump Station Rehabilitation Study	Active	\$ 971,000
PS16-02	SCE Feed Reliability Improvements Study	Active	\$ 293,000
PS17-03	Active Fault Location Study at Plant No. 2	Active	\$ 1,300,000
PS17-08	CEQA - Facilities Master Plan	Active	\$ 1,247,000
PS18-06	Go/No-Go Lights and Signage	Active	\$ 495,000
PS18-09	Ocean Outfall Condition Assessment and Scoping Study	Active	\$ 3,340,000
PS18-11	ETAP Model Updates for Plant Nos 1 and 2	Active	\$ 428,000
PS19-03	Laboratory Rehabilitation Feasibility Study	Active	\$ 450,000
PS20-01	O&M Complex and Collections Yard Relocation at Plant No. 2	Active	\$ 375,000
PS20-02	Collection System Flow Level Monitoring Study	Active	\$ 575,000
PS20-03	Truck Loading Bay Odor Control Improvements Study at Plant No. 2	Active	\$ 200,000
PS20-04	Power Generation Overhaul Feasibility Study	Active	\$ 200,000
<b>Grand Total</b>			<b>\$ 9,874,000</b>
Number of Chartered Projects			12
Board Approved Program Budget			\$ 28,652,000
Remaining Unallocated Budget			\$ 18,778,000

**Engineering Program Contract Performance Report  
for Quarter Ending 3/31/2021  
Table 8 - Research Program Status Report**

<b>Project Number</b>	<b>Project Name</b>	<b>Status</b>	<b>Allocated Budget</b>
RE17-02	Biogas Scrubber Evaluation	Active	\$ 865,000
RE19-01	Primary Scum Equipment Evaluation at Plant No. 1	Active	\$ 69,853
RE20-01	Co-Thickened Sludge Density Meter Trial at Plant No. 1	Active	\$ 121,000
RE20-04	Holding Digester 6 Solids Shredder Study at Plant No. 1	Active	\$ 95,000
<b>Grand Total</b>			<b>\$ 1,150,853</b>
Number of Chartered Projects			4
Board Approved Program Budget			\$ 8,500,000
Remaining Unallocated Budget			\$ 7,349,147

**Engineering Program Contract Performance Report  
for Quarter Ending 3/31/2021  
Table 9 - Small Construction Projects Program Status Report**

Project Number	Project Name	Status	Allocated Budget
FE10-21	Area 02 Craig Regional Park Manhole Improvements	Active	\$ 1,359,000
FE14-05	Plant No. 1 Fleet Services UST Leak Remediation	Active	\$ 1,487,311
FE15-07	Secondary Treatment and Plant Water VFD Replacement at Plant 1	Active	\$ 3,319,600
FE17-01	Carbon Canyon Pipeline Sag Repairs	Active	\$ 873,000
FE17-03	Battery Storage System at Plant No. 1	Active	\$ 630,000
FE17-05	Plant 1 ICS Network Extension	Active	\$ 950,000
FE18-06	CenGen Instrument Air Compressors Replacement at Plant No. 1	Active	\$ 1,450,000
FE18-08	West Trunk Bypass Sewer Realignment	Active	\$ 158,000
FE18-11	Headworks Explosive Gas Monitoring Systems at Plant No. 1 and No. 2	Active	\$ 470,000
FE18-12	Erosion Control at Santa Ana River and Hamilton Ave	Active	\$ 330,000
FE18-13	Redhill Relief Sewer Relocation at State Route 55	Active	\$ 2,840,000
FE18-14	Plant Water Pipeline Replacement in Kinnison, Lindstrom, and Scott Tunnels at Plant No. 2	Active	\$ 1,895,000
FE18-15	Plant Boiler System Relief at Plant No. 2	Active	\$ 465,000
FE18-16	Truck Loading Basement Drain Modifications at Plant No. 1	Active	\$ 440,000
FE18-17	Trunkline Sampler Power Feed at Plant No 2	Active	\$ 248,000
FE18-19	12KV Distribution B and East RAS Pump Station Roofing Replacement	Active	\$ 1,188,000
FE18-20	Blower Building No. 1 Air Compressors at Plant No. 1	Active	\$ 1,200,000
FE19-01	Pump Station Portable Generator Connectors	Active	\$ 2,570,000
FE19-02	Cengen Plant Water Pipe Replacement at Plant No. 1	Active	\$ 2,250,000
FE19-03	Trickling Filter Sludge and Scum Pumps Replacement at Plant No. 1	Active	\$ 1,100,000
FE19-04	Sunflower Pump Replacement at Plant No. 1	Active	\$ 6,300,000
FE19-06	EPSA Motor Cooling Improvements at Plant No. 2	Active	\$ 550,000
FE19-08	Secondary Treatment VFD Replacements at Plant No. 2	Active	\$ 3,337,000
FE19-09	Newhope - Placentia Trunk Grade Separation Replacement Repairs	Active	\$ 500,000
FE19-10	Digesters C, D, F, G and I Gas Balance Lines Replacement at Plant No. 2	Active	\$ 300,000
FE19-11	Primary Clarifiers Nos. 6-31 Lighting and Alarm Improvements at Plant No. 1	Active	\$ 1,250,000
FE19-12	Rebuild Shop Fume Extractor Installation at Plant No 1	Active	\$ 325,000
FE19-13	VFD Replacements at Seal Beach Pump Station	Active	\$ 690,000
FE20-01	Wastehauler Station Safety and Security Improvements	Active	\$ 830,000
FE20-02	Digester C, D, F, and G Mechanical Rehabilitation at Plant No. 2	Active	\$ 2,800,000
FE20-03	Return Activated Sludge Discharge Piping Replacement at Activated Sludge Plant No. 1	Active	\$ 4,250,000
FE20-04	Cengen Cooling Water Pipe Replacement at Plant No. 2	Active	\$ 3,500,000
FE20-05	Plant Water Piping Replacement at Secondary Clarifiers 1-26 at Plant No. 1	Active	\$ 1,545,000
FE20-06	Thickening and Dewatering Building Pipe Support Improvements at Plant No. 1	Active	\$ 621,000
FE20-07	Santa Ana Trunk Rehabilitation at Plant No. 1	Active	\$ 1,240,000
FE20-08	Olive Sub-Trunk Siphon Rehabilitation at Santa Ana River	Active	\$ 1,850,000
FE20-09	CenGen Smoke Detection Improvements at Plant No. 1 and No. 2	Active	\$ 600,000
<b>Grand Total</b>			<b>\$ 55,710,911</b>
Number of Chartered Projects			37
Board Approved Program Budget		\$	65,000,000
Remaining Unallocated Budget		\$	9,289,089



**Engineering Program Contract Performance Report  
for Quarter Ending 3/31/2021  
Table 10 - Information Technology Capital Program Status Report**

Project Number	Project Name	Status	Allocated Budget
IT16-11	Business Continuity Plan	Closed	\$ 117,600
IT17-06	Printer Obsolescence	Closed	\$ 335,141
IT17-07	Safety Management Suite	Closed	\$ 95,900
IT17-10	Electronic Operator Round Form	Active	\$ 45,000
IT17-12	Sever/Network Power Improvements	Active	\$ 90,000
IT17-14	Specialized Application Programing & Support	Closed	\$ 114,296
IT18-03	Timecard Systems Upgrade	Closed	\$ 78,696
IT18-05	Trusted System Document Management	Closed	\$ -
IT18-09	Records Management Information System	Active	\$ 150,000
IT18-10	Board Services Management System	Closed	\$ 50,596
IT19-01	IT Safety VPP Systems (IT19-01)	Active	\$ 210,000
IT19-05	IT P1 & P2 Data Refresh (IT19-05)	Active	\$ 500,000
IT20-04	Cyber Security Program (IT20-04) 6520004	Active	\$ 150,000
IT20-05	Client Management Modernization (ICE-69_IT20-05) 6520005	Active	\$ 99,000
IT20-06	Nintex Workflow Cloud Implementation (ICE-75_IT20-06) 6520006	Active	\$ 350,000
IT20-07	Professional Services for Valo/SharePoint (ICE-74_IT20-07) 6520007	Active	\$ 100,000
IT20-08	Field Computer for Nerissa and Interface with LIMS(ICE-68_IT20-07) 6520008	Active	\$ 121,000
IT20-09	ITSM Migration (ICE-70_IT20-09) 6520009	Active	\$ 275,000
IT20-10	Digitize Quality Assurance Tracking Processes /TNI/ELAP Standards(ICE-76_IT20-10) 6520010	Active	\$ 145,700
IT20-11	Sewer Agency Fee System 2 (SAFS 2) Upgrade (ICE-77 IT20-11) 6520011	Active	\$ 42,042
IT20-12	Web-based Cloud Proxy Security with an Isolation Platform (ICE-78_6520012)	Active	\$ 50,000
<b>Grand Total</b>			<b>\$ 3,119,971</b>
Number of Chartered Projects			21
Number of Chartered Projects			21
Board Approved Program Budget			\$ 10,000,000
Remaining Unallocated Budget			\$ 6,880,029

**Engineering Program Contract Performance Report  
for Quarter Ending 3/31/2021  
Table 11 - Operations & Maintenance Capital Program Status Report**

Project Number	Project Name	Status	Allocated Budget
MP-276-1	Central Generation Engine Overhauls at Plant No. 1 and Plant No. 2	Active	\$ 5,900,000
SC17-01	CENGEN #1 Elevator Rehab	Active	\$ 110,020
SC17-03	CenGen Oil Filter Platform	Active	\$ 275,000
SC18-01	P1 Primary Clarifier Fall Protection Improvements	Active	\$ 50,000
SC18-05	P1 Laboratory HVAC Boiler Burner Replacement At Plant No.1	Active	\$ 455,000
SC18-08	MacArthur Pump Station - FM Valve Replacement	Active	\$ 71,068
SC18-09	Admin Bldg UPS System Replacement	Active	\$ 81,332
SC19-02	Truck Loading-Conveyors 3&6 (SC19-02)	Active	\$ 205,300
SC19-03	Return Activated Sludge Pump Station Elevator Rehabilitation at Plant No. 2	Active	\$ 890,000
SC19-05	as the Lido PS UPS Replacement	Active	\$ 55,000
SC19-06	EPSA Standby Power Generator Control Upgrades at Plant No. 2	Active	\$ 1,600,000
SC19-07	Sunflower Pump Station Gearbox Swing Unit Purchase	Active	\$ 199,000
SC20-02	Ocean Outfall Booster Station Elevator Rehabilitator	Active	\$ 410,000
<b>Grand Total</b>			<b>\$ 10,301,720</b>
Number of Chartered Projects			13
Board Approved Program Budget			\$ 15,622,000
Remaining Unallocated Budget			\$ 5,320,280

**PART 4 – SUPPLEMENTAL ENGINEERING SERVICES CONTRACT**

In May 2016, OC San Board of Directors approved a \$41 million professional services agreement with Jacobs Project Management Co. to provide supplemental engineering and support staff services for a four-year term with the option of three one-year renewals. The benefits of using a supplemental engineering services contract, as opposed to hiring full-time staff or limited-term employees, include rapid mobilization of highly skilled/technical staff, flexibility to change the mix of staff positions on an immediate and as-needed basis, the ability to reduce staff as workloads decrease, access to technical experts to support special tasks, and access to staff with wastewater project experience.

A status table for the supplemental engineering services contract summary is attached under Table 12, and the supplemental engineering services labor summary can be found under Table 13.

**Table 12 – Supplemental Engineering Services Contract Status**

	<b>Total Fees</b>	<b>Time</b>
Contract	\$41,000,000	86 months <sup>(1)</sup>
Actuals to Date	\$23,637,085 58%	59 months 69%
Remaining	\$17,362,915 %	27 months 31%

<sup>(1)</sup> Assuming three 1-year extensions

**Table 13 - Supplemental Engineering Services Labor Summary**

	<b>This Quarter</b>	<b>Inception to Date</b>
Labor Hours	8,421	184,212
Full Time Equivalentents	18.7	20.8
Labor Costs (no expenses)	\$1,091,382	\$24,250,693
Average Hourly Rate	\$130	\$132