

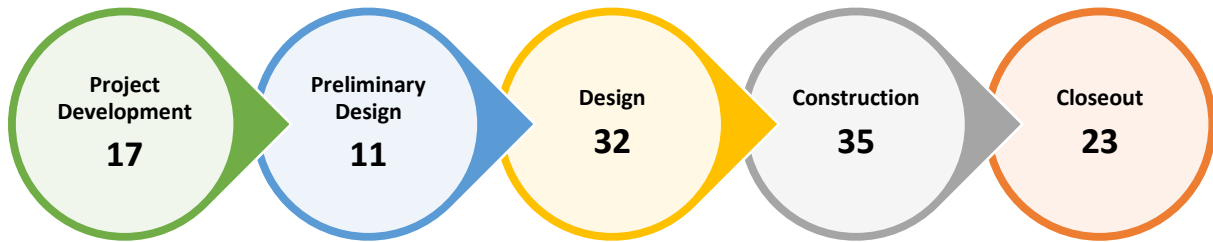
DATE: September 06, 2023

TO: Orange County Sanitation District Board of Directors

FROM: Rob Thompson, General Manager
Through: Mike Dorman, Director of Engineering

This report summarizes the status, activities, and performance of 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, Operations & Maintenance capital projects and information technology projects.

As of 06/30/2023, Orange County Sanitation District (OC San) Engineering Department manages 118 active projects, with project budgeting totaling close to \$3.4 billion. These projects are in various project phases, ranging from Project Development to Closeout. The graphic below shows the number of projects in each of the project phases.



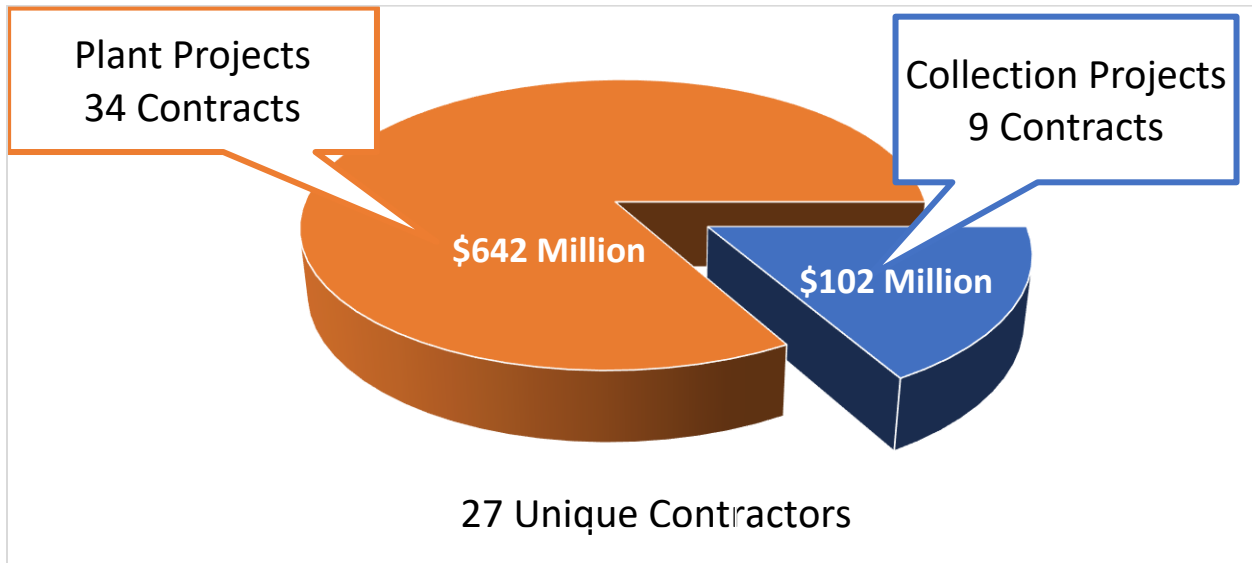
This report is organized into six parts, as follows. Detailed tables can be found in the appendix section of the report.

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PART 1 - CONSTRUCTION CONTRACTS

Construction Contracts

As shown in the graph below, there are currently 43 active construction contracts totaling \$744 Million. Of the 43 active construction contracts, 34 are plant projects and nine are collections projects. Table 1 in the appendix lists the Board-awarded construction contracts active as of June 30, 2023, while Tables 2 and 3 list the General Manager-awarded and Operations Committee-awarded construction contracts. The General Manager may award contracts up to \$100,000 and task orders up to \$300,000.

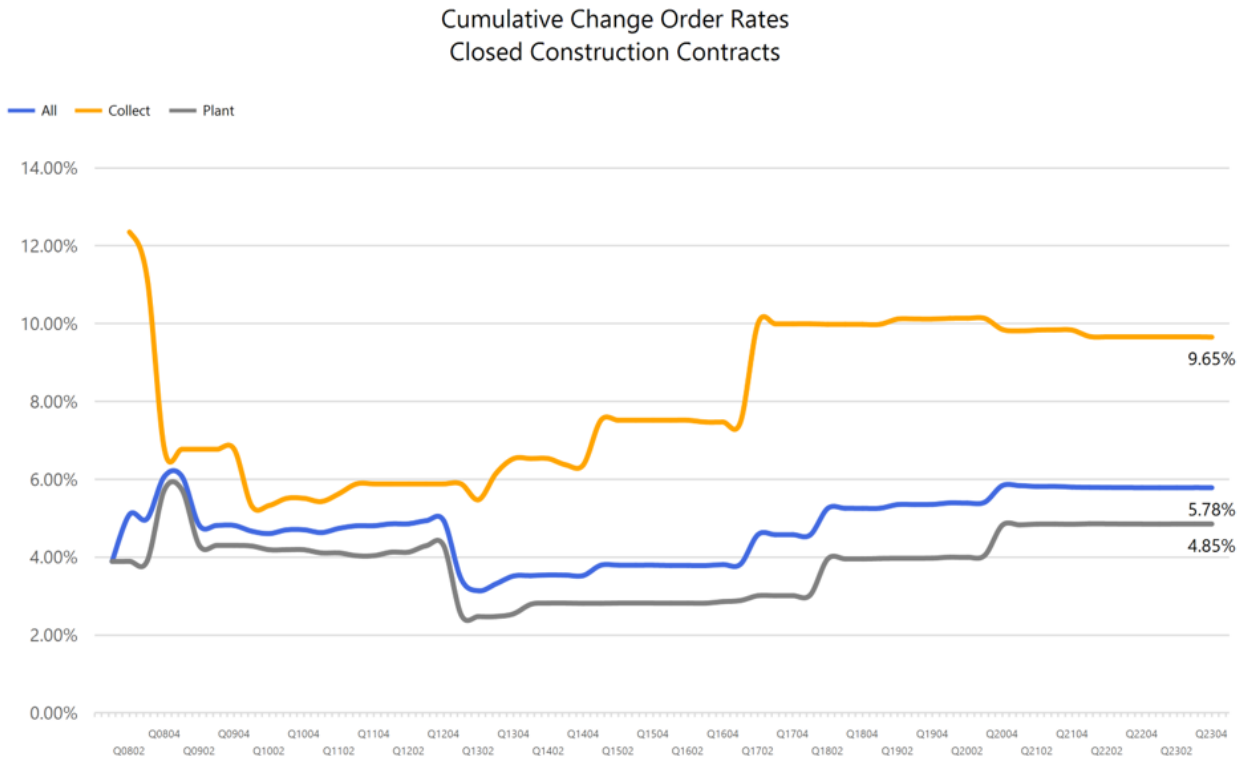


Three construction contracts were closed during this quarter, two were awarded by the Board, and one was awarded by the Operations committee. The table below summarizes the number of active and closed construction contracts and total contract amounts. See Tables 4, 5 and 6 in the appendix for a list of the closed contracts.

Type	Contracts	Total Contract Amount
Active Board-Awarded Construction Contracts	38	\$743,027,742
Active GM Awarded Construction Contracts	4	\$592,400
Active Ops Committee Awarded Construction Contracts	1	\$142,641
Closed Board-Awarded Construction Contracts	2	\$1,011,276
Closed GM Awarded Construction Contracts	0	\$0
Closed Committee-Awarded Construction Contracts	1	\$167,594

Cumulative Change Order Rates

When the OC San Board of Directors 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, this report's change order performance charts 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 PROFESSIONAL SERVICES AGREEMENTS

Professional Service 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 43 Professional Service Agreements (19 individual firms) with total agreement amount of \$214,064,330. Table 7 in the appendix provides a detailed list of Professional Service Agreements.

Master 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 interested firms and awards a task order to the most qualified consultant. There are currently five sets of Master Agreements.

- 2017 Master Agreements for On-Call Planning Studies (expired)
- 2018 Master Professional Design Services Agreements (expired)
- 2020 Master Agreements for On-Call Planning Studies
- 2021 Master Professional Design Services Agreements
- Agreement for Design Installation, Implementation and Maintenance of a Process Control System

The 2017 Master Agreements for On-Call Planning Studies and the 2018 Master Professional Design Services Agreements 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-56 to \$300,000 per task order. Below is a summary of the various master agreements with active task orders. See Table 8 in the appendix for a detailed list of task orders.

Task Order	Contracts	Total Contract Amount
2017 Master Agreements for On-Call Planning Studies	1	\$274,888
2018 Master Professional Design Service Agreements	27	\$4,570,736
2020 Master Agreements for On-Call Planning Studies	10	\$1,608,801
2021 Master Professional Design Service Agreement	12	\$2,413,887

PART 3 – MASTER BUDGET PROJECTS

The Board-adopted budget for Fiscal Years 2022-23 and 2023-24 includes master program budgets that allow staff to initiate, execute, and manage smaller projects that fit within the scope of a particular program more quickly. 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 in the appendix.

Master Program Title	Status Table	Number of Projects	Total Allocated Budget
Planning Studies Program	Table 9	16	\$13,406,468
Research Program	Table 10	2	\$8,101,029
Small Construction Projects Program	Table 11	34	\$72,375,500
Information Technology Capital Program	Table 12	12	\$3,874,357
Operations & Maintenance Capital Program	Table 13	4	\$9,850,000

PART 4 – SUPPLEMENTAL ENGINEERING SERVICES CONTRACT

OC San has been utilizing Jacobs Project Management Co. to provide supplemental engineering and support staff services since an initial contract was approved by the Board in 2016. This existing contract ended in June 2023.

In April of 2022, the OC San Board of Directors approved two Professional Service Agreements - one with AECOM Technical Services, Inc. and one with Jacobs Project Management Co. - to provide Supplemental Engineering Services for a three-year period commencing May 1, 2022, through April 30, 2025, with two one-year renewal options. The Board approved the agreements for an amount not to exceed \$29,700,000 per individual agreement.

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 for the 2016 Supplemental Engineering Services Contract with Jacobs Project Management Co. and the Supplemental Engineering Services labor summary for the same contract can be found below.

2016 Supplemental Engineering Services Labor Summary (Jacobs)				
	Total Fees		Time	
Contract	\$41,000,000		86 Months	
Actuals to Date	\$39,293,537	95.8%	86 Months	100%
Remaining	\$1,706,463	4.2%	0 Months	0%

2016 Supplemental Engineering Services Labor Summary (Jacobs)		
	This Quarter	Inception to Date
Labor Hours	5,649	273,899
Full Time Equivalents	12	20
Labor Costs (no expenses)	\$964,515	\$38,538,044
Average Hourly Rate	\$171	\$140

Status tables for the supplemental engineering services contract and labor summary for the 2022 Supplemental Engineering Services Contract with AECOM and Jacobs Project Management Co. are included below.

2022 Supplemental Engineering Services Contract Status (AECOM)				
	Total Fees		Time	
Contract	\$29,700,000		60 months	(1)
Actuals to Date	\$731,548	2.5%	14 Months	23%
Remaining	\$28,968,452	97.5%	46 months	77%

(1) Assuming two additional 1-year extensions

2022 Supplemental Engineering Services Labor Summary (AECOM)		
	This Quarter	Inception to Date
Labor Hours	896	4,334
Full Time Equivalents	1.9	2.0
Labor Costs (no expenses)	\$145,555	\$708,191
Average Hourly Rate	\$162.45	\$163.40

2022 Supplemental Engineering Services Contract Status (Jacobs)				
	Total Fees		Time	
Contract	\$29,700,000		60 Months	(1)
Actuals to Date	\$2,336,66	7.9%	14 Months	23.3%
Remaining	\$28,388,111	92.1%	46 Months	76.7%

(1) Assuming two additional 1-year extensions

2022 Supplemental Engineering Services Labor Summary (Jacobs)		
	This Quarter	Inception to Date
Labor Hours	6699	13,755
Full Time Equivalents	14	6
Labor Costs (no expenses)	\$1,009,404	\$2,296,039
Average Hourly Rate	\$151	\$167

PART 5 – PROGRAMMING PROFESSIONAL SERVICES CONTRACT

In April of 2022, the OC San Board of Directors approved two Professional Service Agreements - one with Enterprise Automation and one with Maverick Technologies - to provide Programming Professional Services for a three-year period commencing May 11, 2022, through May 10, 2025, with two one-year renewal options. The Board approved the agreements for an amount not to exceed \$4,900,000 per individual agreement.

The programming professional services will program, test, commission, maintain, upgrade, and configure programmable logic controllers, HMI graphics, databases, servers, and networks for select projects. The benefits of using a programming professional services contract, as opposed to hiring full-time staff or limited-term employees, include the ability to provide the needed short-term resources during the execution of Project No. J-120, Process Control Systems Upgrades, rapid mobilization of highly skilled technical resources, flexibility to change the mix of needed resources to match project requirements, and the ability to increase or reduce project resources as workloads change.

Status tables for the programming professional services contract and labor summary for the 2022 Programming Professional Services Contract with Enterprise Automation and Maverick Technologies are included below.

2022 Programming Professional Services Contract Status (Enterprise Automation)				
	Total Fees		Time	
Contract	\$4,900,000		60 months	(1)
Actuals to Date	\$886,908	18%	14 Months	23%
Remaining	\$4,013,092	82%	46 months	77%

(1) Assuming two additional 1-year extensions

2022 Programming Professional Services Labor Summary (Enterprise Automation)		
	This Quarter	Inception to Date
Labor Hours	1941.5	4740.5
Full Time Equivalents	3.7	2.0
Labor Costs (no expenses)	\$356,482	\$886,908
Average Hourly Rate	\$184	\$187

2022 Programming Professional Services Contract Status (Maverick Technologies)				
	Total Fees		Time	
Contract	\$4,900,000		60 months	⁽¹⁾
Actuals to Date	\$131,808	3%	14 Months	23%
Remaining	\$4,768,192	97%	46 months	77%

⁽¹⁾ Assuming two additional 1-year extensions

2022 Programming Professional Services Labor Summary (Maverick Technologies)		
	This Quarter	Inception to Date
Labor Hours	473.25	757.25
Full Time Equivalents	0.9	0.3
Labor Costs (no expenses)	\$81,318	\$131,808
Average Hourly Rate	\$172	\$174

PART 6 – ON-CALL SERVICES AGREEMENTS

OC San uses three sets of on-call services agreements for coating inspection and corrosion testing; materials testing, inspection, and other geotechnical testing; and surveying. Services are typically requested by inspection supervisors as needs arise, and the work is generally spread among the available firms.

The table below lists the contract limits and funds expended to date for each of the agreements which became effective on March 23, 2022, and will expire on April 30, 2025. For each of these services, OC San typically uses a single firm for a particular construction contract.

Consultant	Contract Limit	Total Costs Incurred	Remaining
Coating Inspection Services (PSA2022-001)			
CSI Services, Inc.	\$300,000	\$20,604	\$279,396
Diversified Project Services Int'l (DPSI)	\$300,000	\$51,931	\$248,069
Geotechnical Testing Services (PSA2022-003)			
AESCO	\$400,000	\$148,272	\$251,728
Atlas Technical Consultants	\$400,000	\$152,903	\$247,098
Koury Engineering and testing, Inc.	\$400,000	\$104,851	\$295,149
MTGL, Inc	\$400,000	\$0	\$400,000
Surveying Services (PSA2022-002)			
D.Woolley & Associates	\$200,000	\$9,875	\$190,125
Michael Baker International, Inc.	\$200,000	\$3,954	\$196,047
Psomas	\$200,000	\$0	\$200,000
Stantec Consulting Services, Inc.	\$200,000	\$26,860	\$173,140

APPENDIX

Table 1 - Board-Awarded Construction Contracts

Project/Contract		Contractor	Award Date	Contract Amount				Contingency			
				Award	Change Orders	Current	% Spent	Original	Current	Used	Remaining
3-62	Westminster Blvd Force Main Replacement	Teichert Energy - Utilities Group, Inc.	12/18/2019	\$27,743,000	\$2,952,485	\$30,695,485	98.0%	10.0%	14.0%	10.6%	3.4%
3-64B	Los Alamitos Trunk Sewer Rehabilitation	Steve P. Rados, Inc.	05/26/2021	\$17,775,000	\$144,471	\$17,919,471	67.1%	10.0%	10.0%	0.8%	9.2%
5-68	Newport Beach Pump Station Pressurization Improvements	Innovative Construction Solutions	04/25/2023	\$937,500	\$0	\$937,500	0.0%	10.0%	10.0%	0.0%	10.0%
7-65	Gisler-Red Hill Interceptor and Baker Force Main Rehabilitation	Steve P. Rados, Inc.	5/24/2023	\$44,706,000.00	\$0	\$44,706,000	0.0%	10.0%	10.0%	0.0%	10.0%
7-66	Sunflower and Red Hill Interceptor Repairs	Charles King Company	07/28/2021	\$4,777,000	\$131,751	\$4,908,751	91.1%	10.0%	10.0%	2.8%	7.2%
FE18-13	Redhill Relief Sewer Relocation at State Route 55	SRK Engineering, Inc.	06/22/2022	\$2,213,000	\$0	\$2,213,000	0.0%	15.0%	15.0%	0.0%	15.0%
FE18-14	Plant Water Pipeline Replacement in Kinnison, Lindstrom, and Scott Tunnels at Plant No. 2	MMC, Inc.	12/16/2020	\$1,134,000	\$4,348	\$1,138,348	0.0%	15.0%	15.0%	0.4%	14.6%
FE18-15	Plant Boiler System Relief at Plant No. 2	MMC, Inc.	04/28/2021	\$230,000	\$24,528	\$254,528	100.0%	15.0%	15.0%	10.7%	4.3%
FE19-01	Pump Station Portable Generator Connectors	Pacific Industrial Electric	09/29/2021	\$1,207,479	\$0	\$1,207,479	55.4%	10.0%	10.0%	0.0%	10.0%
FE19-03	Trickling Filter Sludge and Scum Pumps	Garney Pacific, Inc.	02/23/2022	\$778,000	\$18,317	\$796,317	67.9%	10.0%	10.0%	2.4%	7.6%

Table 1 - Board-Awarded Construction Contracts

Project/Contract		Contractor	Award Date	Contract Amount				Contingency				
				Award	Change Orders	Current	% Spent	Original	Current	Used	Remaining	
	Replacement at Plant No. 1											
FE19-04	Sunflower Pump Replacement at Plant No. 1	GSE Construction Company, Inc.	10/27/2021	\$2,123,200	\$0	\$2,123,200	28.0%	10.0%	10.0%	0.0%	10.0%	
FE19-06	EPSA Motor Cooling Improvements at Plant No. 2	MMC, Inc.	09/29/2021	\$854,000	\$38,235	\$892,235	51.4%	10.0%	10.0%	4.5%	5.5%	
FE19-08	Secondary Treatment VFD Replacements at Plant No. 2	ACS Engineering	03/23/2022	\$1,433,000	\$0	\$1,433,000	2.1%	10.0%	10.0%	0.0%	10.0%	
FE19-12	Rebuild Shop Fume Extractor Installation at Plant No 1	RAN Enterprises, Inc	10/18/2022	\$217,000	\$18,319	\$235,319	92.2%	10.0%	10.0%	8.4%	1.6%	
FE20-01	Wastehauler Station Safety and Security Improvements	Leed Electric	09/28/2022	\$1,689,788	\$61,038	\$1,750,826	39.4%	10.0%	10.0%	3.6%	6.4%	
FE20-03	Return Activated Sludge Discharge Piping Replacement at Activated Sludge Plant No. 1	GSE Construction Company, Inc.	04/05/2023	\$3,985,400	\$0	\$3,985,400	3.3%	10.0%	10.0%	0.0%	10.0%	
FE20-04	Cengen Cooling Water Pipe Replacement at Plant No. 2	Innovative Construction Solutions	12/22/2022	\$3,487,600	\$0	\$3,487,600	0.0%	10.0%	10.0%	0.0%	10.0%	
FE20-06	Thickening and Dewatering Building Pipe Support Improvements at Plant No. 1	Garney Pacific, Inc.	02/23/2022	\$793,000	\$8,062	\$801,062	99.5%	10.0%	10.0%	1.0%	9.0%	

Table 1 - Board-Awarded Construction Contracts

Project/Contract		Contractor	Award Date	Contract Amount				Contingency			
				Award	Change Orders	Current	% Spent	Original	Current	Used	Remaining
FE20-07	Santa Ana Trunk Rehabilitation at Plant No. 1	Sancon Technologies Inc.	04/27/2022	\$395,082	\$5,497	\$400,579	100.0%	20.0%	20.0%	1.4%	18.6%
FE20-09	CenGen Smoke Detection Improvements at Plant No. 1 and No. 2	ADT Commercial, LLC	04/03/2023	\$313,000	\$0	\$313,000	3.2%	10.0%	10.0%	0.0%	10.0%
FE21-07	Liquid Oxygen Tank A Replacement at Plant No. 2	J.R. Filanc Construction Company, Inc.	01/18/2023	\$2,608,007	\$0	\$2,608,007	2.8%	10.0%	10.0%	0.0%	10.0%
FR1-0011	VFD Replacements at Plant No. 1	ACS Engineering	03/07/2023	\$1,214,888	\$0	\$1,214,888	0.0%	10.2%	10.2%	0.0%	10.2%
FR1-0016	Waste Sidestream Pump Station VFD replacements at Plant No.1	Leed Electric	03/23/2022	\$344,889	\$0	\$344,889	4.8%	15.0%	15.0%	0.0%	15.0%
FR2-0018	Activated Sludge Clarifier Repairs at Plant No. 2	Garney Pacific, Inc.	10/11/2022	\$5,091,686	\$0	\$5,091,686	56.3%	10.0%	10.0%	0.0%	10.0%
FR2-0026	Headworks Phase 3 Cable Replacement at Plant No. 2	ACS Engineering	04/10/2023	\$575,360	\$0	\$575,360	0.0%	20.0%	20.0%	0.0%	20.0%
J-117B	Outfall Low Flow Pump Station	Shimmick Construction	12/19/2018	\$90,200,000	\$3,321,001	\$93,521,001	82.4%	8.0%	8.0%	3.7%	4.3%
J-120	Process Control Systems Upgrades	ABB, Inc.	09/15/2021	\$11,818,480	\$10,149	\$11,828,629	13.9%	10.0%	10.0%	0.1%	9.9%
J-135B	Engine and Generator Overhauls at Plant No. 1 and 2	Cooper Machinery Services	07/27/2022	\$29,361,029	\$2,554,900	\$31,915,929	26.5%	10.0%	15.6%	8.7%	6.9%

Table 1 - Board-Awarded Construction Contracts

Project/Contract		Contractor	Award Date	Contract Amount				Contingency			
				Award	Change Orders	Current	% Spent	Original	Current	Used	Remaining
MP-307	Bushard Diversion Structure Repair	Abhe - Svoboda, Inc.	06/22/2022	\$1,762,545	\$0	\$1,762,545	0.0%	10.0%	10.0%	0.0%	10.0%
P1-105	Headworks Rehabilitation at Plant 1	Kiewit Infrastructure West Co.	03/24/2021	\$222,330,000	\$1,309,131	\$223,639,131	27.1%	4.0%	4.0%	0.6%	3.4%
P1-128A	Headquarters Complex at Plant No. 1	Swinerton Builders	05/26/2021	\$102,544,973	\$1,863,156	\$104,408,129	74.2%	5.0%	5.0%	1.8%	3.2%
P1-132	Uninterruptable Power Supply Improvements at Plant 1	Leed Electric	03/02/2023	\$5,765,789	\$0	\$5,765,789	20.3%	10.0%	10.0%	0.0%	10.0%
P1-133	Primary Sedimentation Basins No. 6-31 Reliability Improvements at Plant No. 1	Shimmick Construction	02/23/2022	\$6,275,000	\$0	\$6,275,000	38.9%	10.0%	10.0%	0.0%	10.0%
P1-134	South Perimeter Security and Utility Improvements at Plant No.1	Tovey-Shultz Construction, Inc.	07/28/2021	\$4,396,779	\$294,809	\$4,691,588	96.8%	10.0%	10.0%	6.7%	3.3%
P2-122	Headworks Modifications at Plant No. 2 for GWRS Final Expansion	Shimmick Construction	01/22/2020	\$14,487,735	\$739,246	\$15,226,981	100.0%	10.0%	10.0%	5.1%	4.9%
P2-98A	A-Side Primary Clarifiers Replacement at Plant 2	PCL CONSTRUCTION INC.	05/26/2021	\$111,405,880	\$934,874	\$112,340,754	28.6%	6.0%	6.0%	0.8%	5.2%
RE21-01	Supercritical Water Oxidation	Garney Pacific, Inc.	12/15/2022	\$1,172,000	\$13,936	\$1,185,936	62.8%	10.0%	10.0%	1.2%	8.8%

Table 1 - Board-Awarded Construction Contracts

Project/Contract		Contractor	Award Date	Contract Amount				Contingency			
				Award	Change Orders	Current	% Spent	Original	Current	Used	Remaining
	Demonstration at Plant No. 1										
SC19-03	Return Activated Sludge Pump Station Elevator Rehabilitation at Plant No. 2	OTIS	12/16/2020	\$432,400	\$0	\$432,400	0.0%	20.0%	20.0%	0.0%	20.0%
			Total	\$728,579,489	\$14,448,253	\$743,027,742					

Table 2 - GM Awarded Construction Contracts

Project/Contract		Contractor	Award Date	Contract Amount			
				Award	Change Orders	Current	% Spent
FR2-0022	Digester O Structural Repairs at Plant No. 2	Jamison Engineering	03/14/2022	\$89,500	\$0	\$89,500	0.0%
FR2-0025	Digester O-T and Q-R Bridge Repair at Plant No. 2	O'Connell Engineering & Construction, Inc.	03/14/2022	\$115,450	\$38,000	\$153,450	81.4%
FRC-0009	Bitter Point Trunk Sewer Repair at Bitter Point Pump Station	Charles King Company	10/13/2022	\$275,000	\$25,000	\$300,000	0.0%
MP2-002	Ella Tunnel Walkway Replacement at Plant 2	O'Connell Engineering & Construction, Inc.	10/20/2022	\$49,450	\$0	\$49,450	0.0%
			Total	\$529,400	\$63,000	\$592,400	

Table 3 - Operations Committee Awarded Construction Contracts

Project/Contract		Contractor	Award Date	Contract Amount			
				Award	Change Orders	Current	% Spent
FE19-13	VFD Replacements at Seal Beach Pump Station	Energy Management Corporation	03/23/2022	\$138,650	\$3,991	\$142,641	100.0%
			Total	\$138,650	\$3,991	\$142,641	

Table 4 - Closed Board-Awarded Construction Contracts

Project/Contract		Contractor	Award Date	Closed Date	Contract Amount			Contingency		
					Award	Change Orders	Final	Original	Final	Unused
FR1-0012	Building B Floor Replacement, Jib Crane, and Forklift Pad	Vicon Enterprise	06/22/2022	04/05/2023	\$220,000	(\$22,892)	\$197,108	10.0%	10.0%	20.4%
J-127	Natural Gas Pipelines Replacement at Plant Nos. 1 and 2	Innovative Construction Solutions	07/22/2020	05/10/2023	\$745,500	\$68,668	\$814,168	10.0%	10.0%	0.8%
				Total	\$965,500	\$45,776	\$1,011,276			

Table 5 - Closed GM-Awarded Construction Contracts

Project/Contract		Contractor	Award Date	Closed Date	Original Award Amount	Change Orders	Final Contract Amount	Final Change Order Rate
				Total				
No GM-awarded construction contract closed this quarter								

Table 6 - Closed Committee -Awarded Construction Contracts

Project/Contract		Contractor	Award Date	Closed Date	Original Award Amount	Change Orders	Final Contract Amount	Final Change Order Rate
FRC-0012	Springdale-Relief Concrete Encasement Extension at Wintersburg-Channel	J.F. Shea Construction, Inc.	7/7/2021	4/5/2023	\$167,694	\$0	\$167,694	0%

Table 7 - Active Engineering Services Agreements

Project/Contract		Consultant	Type	Award Date	Contract Amount				Contingency			
					Award	Amendments	Current	% Spent	Original	Current	Used	Remaining
1-23	Santa Ana Trunk Sewer Rehabilitation	Stantec Consulting Services, Inc.	PDSA	04/27/2022	\$3,880,000	\$0	\$3,880,000	26%	10.0%	10.0%	0.0%	10.0%
1-24	Greenville Trunk Improvements	Brown and Caldwell	PDSA	10/31/2022	\$4,730,000	\$0	\$4,730,000	6%	10.0%	10.0%	0.0%	10.0%
2-49	Taft Branch Improvements	Woodard & Curran, Inc.	PDSA	02/24/2021	\$2,200,000	\$55,000	\$2,255,000	74%	10.0%	10.0%	2.5%	7.5%
2-72B	Newhope-Placentia Trunk Replacement, Segment B	Lee & Ro, Inc.	PCSA	03/23/2016	\$3,253,946	\$0	\$3,253,946	100%	10.0%	10.0%	0.0%	10.0%
3-62	Westminster Blvd Force Main Replacement	Stantec Consulting Services, Inc.	PCSA	12/18/2019	\$1,183,000	\$0	\$1,183,000	47%	10.0%	10.0%	0.0%	10.0%
3-64	Rehabilitation of Western Regional Sewers	AECOM Technical Services, Inc.	PDSA	01/27/2016	\$17,639,250	\$195,850	\$17,835,100	63%	10.0%	10.0%	1.1%	8.9%
3-64B	Los Alamitos Trunk Sewer Rehabilitation	AECOM Technical Services, Inc.	PCSA	05/26/2021	\$610,000	\$0	\$610,000	50%	10.0%	10.0%	0.0%	10.0%
3-67	Seal Beach Pump Station Replacement	Lee & Ro, Inc.	PDSA	12/18/2019	\$5,947,850	\$744,435	\$6,692,285	97%	10.0%	12.6%	12.5%	0.1%
5-67	Bay Bridge Pump Station Replacement	Arcadis U.S., Inc.	PDSA	10/25/2017	\$7,137,000	\$1,779,825	\$8,916,825	67%	10.0%	35.0%	24.9%	10.1%
5-68	Newport Beach Pump Station Pressurization Improvements	Dudek	PCSA	04/20/2023	\$124,979	\$0	\$124,979	0%	10.0%	10.0%	0.0%	10.0%

Table 7 - Active Engineering Services Agreements

Project/Contract		Consultant	Type	Award Date	Contract Amount				Contingency			
					Award	Amendments	Current	% Spent	Original	Current	Used	Remaining
5-68	Newport Beach Pump Station Pressurization Improvements	Dudek	PDSA	05/27/2020	\$542,988	\$0	\$542,988	86%	10.0%	10.0%	0.0%	10.0%
6-20	Fairview Trunk Rehabilitation	Dudek	PDSA	07/27/2022	\$1,200,000	\$0	\$1,200,000	29%	10.0%	10.0%	0.0%	10.0%
7-65	Gisler-Red Hill Interceptor and Baker Force Main Rehabilitation	CDM Smith Inc.	PCSA	06/27/2023	\$988,460	\$0	\$988,460	0%	10.0%	10.0%	0.0%	10.0%
7-65	Gisler-Red Hill Interceptor and Baker Force Main Rehabilitation	CDM Smith Inc.	PDSA	09/23/2020	\$1,754,000	\$175,400	\$1,929,400	100%	10.0%	10.0%	10.0%	0.0%
7-66	Sunflower and Red Hill Interceptor Repairs	GHD, Inc.	PCSA	07/28/2021	\$166,000	\$0	\$166,000	44%	10.0%	10.0%	0.0%	10.0%
7-68	MacArthur Force Main Improvements	Michael Baker International, Inc.	PDSA	05/26/2021	\$500,000	\$0	\$500,000	94%	10.0%	10.0%	0.0%	10.0%
FR1-0007	Control Center Offices and Day Training Room Remodeling at Plant No. 1	AECOM Technical Services, Inc.	PSA	07/24/2017	\$48,000	\$33,351	\$81,351	11%	N/A	N/A	69.5%	N/A
J-117B	Outfall Low Flow Pump Station	SEL Engineering Services Inc.	PSA	11/23/2022	\$1,096,074	\$0	\$1,096,074	61%	10.0%	10.0%	0.0%	10.0%
J-117B	Outfall Low Flow Pump Station	Brown and Caldwell	PCSA	12/19/2018	\$8,563,913	\$692,120	\$9,256,033	68%	10.0%	10.0%	8.1%	1.9%

Table 7 - Active Engineering Services Agreements

Project/Contract		Consultant	Type	Award Date	Contract Amount				Contingency			
					Award	Amendments	Current	% Spent	Original	Current	Used	Remaining
J-124	Digester Gas Facilities Replacement	Brown and Caldwell	PDSA	11/15/2017	\$11,770,000	\$1,177,000	\$12,947,000	97%	10.0%	10.0%	10.0%	0.0%
J-98	Electrical Power Distribution System Improvements	Schweitzer Engineering Laboratories, Inc	PSA	03/25/2020	\$1,296,878	\$0	\$1,296,878	36%	10.0%	10.0%	0.0%	10.0%
J-98	Electrical Power Distribution System Improvements	Brown and Caldwell	PDSA	02/26/2020	\$2,240,000	\$92,078	\$2,332,078	91%	10.0%	10.0%	4.1%	5.9%
P1-105	Headworks Rehabilitation at Plant 1	Carollo Engineers, Inc	PCSA	03/02/2021	\$16,500,000	\$0	\$16,500,000	30%	10.0%	10.0%	0.0%	10.0%
P1-126	Primary Sedimentation Basins No. 3-5 Replacement at Plant No. 1	Black & Veatch	PDSA	04/27/2022	\$14,163,000	\$0	\$14,163,000	9%	10.0%	10.0%	0.0%	10.0%
P1-128A	Headquarters Complex at Plant No. 1	HDR Engineering, Inc.	PCSA	05/26/2021	\$4,900,000	\$452,997	\$5,352,997	66%	10.0%	10.0%	9.2%	0.8%
P1-128A	Headquarters Complex at Plant No. 1	AECOM Technical Services, Inc.	PSA	04/28/2021	\$6,750,000	\$0	\$6,750,000	63%	10.0%	10.0%	0.0%	10.0%
P1-132	Uninterruptable Power Supply Improvements at Plant 1	Tetra Tech, Inc.	PDSA	10/23/2019	\$784,630	\$62,755	\$847,385	97%	10.0%	10.0%	8.0%	2.0%

Table 7 - Active Engineering Services Agreements

Project/Contract		Consultant	Type	Award Date	Contract Amount				Contingency			
					Award	Amendments	Current	% Spent	Original	Current	Used	Remaining
P1-133	Primary Sedimentation Basins No. 6-31 Reliability Improvements at Plant No. 1	Carollo Engineers, Inc	PCSA	03/23/2022	\$530,000	\$0	\$530,000	31%	10.0%	10.0%	0.0%	10.0%
P1-134	South Perimeter Security and Utility Improvements at Plant No.1	HDR Engineering, Inc.	PCSA	07/28/2021	\$235,000	\$0	\$235,000	44%	10.0%	10.0%	0.0%	10.0%
P1-137	Supports Buildings Seismic Improvements at Plant No. 1	Simpson, Gumpertz, and Heger	PDSA	07/27/2022	\$1,900,000	\$82,537	\$1,982,537	26%	10.0%	10.0%	4.3%	5.7%
P1-140	Activated Sludge-1 and Secondary Clarifier Rehabilitation	HDR Engineering, Inc.	PDSA	03/06/2023	\$18,462,443	\$0	\$18,462,443	5%	10.0%	10.0%	0.0%	10.0%
P2-122	Headworks Modifications at Plant No. 2 for GWRS Final Expansion	CDM Smith Inc.	PCSA	01/15/2020	\$2,200,000	\$0	\$2,200,000	82%	10.0%	10.0%	0.0%	10.0%
P2-123	Return Activated Sludge Piping Replacement at Plant 2	Spec Services, Inc.	PCSA	09/25/2019	\$252,329	\$25,233	\$277,562	100%	10.0%	10.0%	10.0%	0.0%
P2-124	Interim Food Waste Receiving Facility	Kennedy/Jenks Consultants, Inc.	PDSA	09/05/2018	\$695,000	\$31,168	\$726,168	100%	10.0%	10.0%	4.5%	5.5%

Table 7 - Active Engineering Services Agreements

Project/Contract		Consultant	Type	Award Date	Contract Amount				Contingency			
					Award	Amendments	Current	% Spent	Original	Current	Used	Remaining
P2-128	TPAD Digester Facility at Plant No.2	Brown and Caldwell	PDSA	07/22/2020	\$39,300,000	\$1,467,788	\$40,767,788	49%	10.0%	10.0%	3.7%	6.3%
P2-137	Digesters Rehabilitation at Plant No. 2	CDM Smith Inc.	PDSA	03/23/2022	\$2,650,000	\$0	\$2,650,000	30%	10.0%	10.0%	0.0%	10.0%
P2-98A	A-Side Primary Clarifiers Replacement at Plant 2	Black & Veatch	PCSA	05/26/2021	\$8,400,000	\$0	\$8,400,000	30%	10.0%	10.0%	0.0%	10.0%
PS18-09	Ocean Outfall Condition Assessment and Scoping Study	Carollo Engineers, Inc	PSA	03/25/2020	\$2,744,000	\$2,009,067	\$4,753,067	77%	10.0%	80.0%	73.2%	6.8%
PS20-02	Collection System Flow Level Monitoring Study	Woodard & Curran, Inc.	PSA	07/28/2021	\$616,562	\$0	\$616,562	36%	0.0%	10.0%	0.0%	10.0%
PS20-05	Cen Gen Pressure Vessel Integrity Assessment at Plant Nos. 1and 2	Pond & Company	PSA	02/23/2022	\$235,133	\$0	\$235,133	25%	10.0%	10.0%	0.0%	10.0%
PS21-01	Exterior Lighting Study at Plant Nos. 1 and 2	IDS Group, Inc.	PSA	10/17/2022	\$151,660	\$0	\$151,660	61%	10.0%	10.0%	0.0%	10.0%
PS21-04	Energy and Digester Gas Master Plan	Brown and Caldwell	PSA	06/22/2022	\$1,438,036	\$0	\$1,438,036	27%	10.0%	10.0%	0.0%	10.0%
RE21-01	Supercritical Water Oxidation Demonstration at Plant No. 1	374Water Systems, Inc.	PSA	12/15/2021	\$5,139,000	\$68,595	\$5,207,595	40%	10.0%	10.0%	1.3%	8.7%
Total					\$204,919,131	\$9,145,199	\$214,064,330					

Table 8 - Active Task Orders by Master Agreement

Agreement/Project		Consultant	Award Date	Original Task Order Value	Amendments	Current Task Order Value	% Spent
2017 Master Agreements for On-Call Planning Studies							
PS19-03	Laboratory Rehabilitation Feasibility Study	HDR Engineering, Inc.	10/20/2020	\$274,888	\$0	\$274,888	80%
2018 Master Professional Design Service Agreements							
FE18-06	CenGen Instrument Air Compressors Replacement at Plant No. 1	IDS Group, Inc.	04/27/2020	\$89,876	\$0	\$89,876	69%
FE18-13	Redhill Relief Sewer Relocation at State Route 55	GHD, Inc.	03/27/2020	\$168,612	\$105,331	\$273,943	84%
FE18-14	Plant Water Pipeline Replacement in Kinnison, Lindstrom, and Scott Tunnels at Plant No. 2	Dudek	11/06/2019	\$108,308	\$0	\$108,308	96%
FE18-15	Plant Boiler System Relief at Plant No. 2	IDS Group, Inc.	10/22/2019	\$23,299	\$0	\$23,299	55%
FE18-16	Truck Loading Basement Drain Modifications at Plant No. 1	GHD, Inc.	12/04/2019	\$70,130	\$18,365	\$88,495	93%
FE18-19	12KV Distribution B and East RAS Pump Station Roofing Replacement	HDR Engineering, Inc.	09/16/2019	\$74,771	\$8,672	\$83,443	87%
FE18-20	DAFT Air Compressors Replacement at Plant No. 1	HDR Engineering, Inc.	09/02/2020	\$243,954	\$11,982	\$255,936	82%
FE19-02	Cengen Plant Water Pipe Replacement at Plant No. 1	AECOM Technical Services, Inc.	07/08/2020	\$156,498	\$143,378	\$299,876	73%
FE19-03	Trickling Filter Sludge and Scum Pumps Replacement at Plant No. 1	Black & Veatch	09/02/2020	\$244,728	\$55,272	\$300,000	97%
FE19-06	EPSA Motor Cooling Improvements at Plant No. 2	IDS Group, Inc.	05/05/2020	\$88,206	\$10,541	\$98,747	88%
FE19-10	Digesters C, D, F, G and I Gas Balance Lines Replacement at Plant No. 2	GHD, Inc.	02/03/2021	\$25,000	\$65,749	\$90,749	70%
FE19-11	Primary Clarifiers Nos. 6-31 Lighting and Alarm Improvements at Plant No. 1	AECOM Technical Services, Inc.	09/21/2020	\$226,685	\$6,137	\$232,822	75%

Table 8 - Active Task Orders by Master Agreement

Agreement/Project		Consultant	Award Date	Original Task Order Value	Amendments	Current Task Order Value	% Spent
FE19-13	VFD Replacements at Seal Beach Pump Station	AECOM Technical Services, Inc.	03/24/2021	\$78,033	\$0	\$78,033	60%
FE20-01	Wastehauler Station Safety and Security Improvements	AECOM Technical Services, Inc.	03/16/2021	\$161,012	\$16,247	\$177,259	81%
FE20-02	Digester C, D, F, and G Mechanical Rehabilitation at Plant No. 2	HDR Engineering, Inc.	03/02/2021	\$188,212	\$34,352	\$222,564	84%
FE20-03	Return Activated Sludge Discharge Piping Replacement at Activated Sludge Plant No. 1	GHD, Inc.	06/30/2021	\$249,000	\$0	\$249,000	88%
FE20-04	Cengen Cooling Water Pipe Replacement at Plant No. 2	Dudek	06/01/2021	\$240,000	\$60,000	\$300,000	93%
FE20-05	Plant Water Piping Replacement at Secondary Clarifiers 1-26 at Plant No. 1	IDS Group, Inc.	06/22/2021	\$186,626	\$0	\$186,626	75%
FE20-07	Santa Ana Trunk Rehabilitation at Plant No. 1	GHD, Inc.	05/04/2021	\$100,625	\$0	\$100,625	91%
FE20-08	Olive Sub-Trunk Siphon Rehabilitation at Santa Ana River	Dudek	06/21/2021	\$240,000	\$0	\$240,000	87%
FE20-09	CenGen Smoke Detection Improvements at Plant No. 1 and No. 2	IDS Group, Inc.	06/30/2021	\$63,275	\$0	\$63,275	81%
FR1-0011	VFD Replacements at Plant No. 1	Black & Veatch	04/08/2021	\$283,000	\$17,000	\$300,000	83%
FR2-0013	P2 Trickling Filter Sludge Pump Room Exhaust Fan Relocation at Plant No.2	AECOM Technical Services, Inc.	11/06/2019	\$75,120	\$0	\$75,120	100%
FR2-0022	Digester O Structural Repairs at Plant No. 2	AECOM Technical Services, Inc.	04/12/2021	\$46,115	\$0	\$46,115	99%
FRC-0009	Bitter Point Trunk Sewer Repair at Bitter Point Pump Station	GHD, Inc.	06/17/2021	\$159,451	\$0	\$159,451	83%
J-127	Natural Gas Pipelines Replacement at Plant Nos. 1 and 2	Black & Veatch	01/21/2019	\$271,964	\$28,036	\$300,000	100%
P1-135	Digester Ferric Chloride Piping Replacement at Plant No. 1	Dudek	02/19/2020	\$127,174	\$0	\$127,174	100%

Table 8 - Active Task Orders by Master Agreement

Agreement/Project		Consultant	Award Date	Original Task Order Value	Amendments	Current Task Order Value	% Spent
2020 Master Agreements for On-Call Planning Studies							
PS19-03	Laboratory Rehabilitation Feasibility Study	Hazen and Sawyer	01/17/2023	\$23,825	\$0	\$23,825	100%
PS20-01	Collections Yard Relocation Feasibility Study	AECOM Technical Services, Inc.	09/09/2021	\$147,181	\$0	\$147,181	100%
PS20-03	Truck Loading Bay Odor Control Improvements Study at Plant No. 2	Hazen and Sawyer	08/03/2021	\$226,021	\$0	\$226,021	100%
PS20-04	Power Generation Overhaul Feasibility Study	Brown and Caldwell	04/26/2021	\$122,748	\$101,518	\$224,266	90%
PS20-07	College Pump Station Wet Well Condition Assessment Study	HDR Engineering, Inc.	01/18/2022	\$182,297	\$0	\$182,297	70%
PS20-09	Thickening & Dewatering Plant Water Study at Plant No. 1	HDR Engineering, Inc.	04/21/2022	\$219,670	\$0	\$219,670	54%
PS21-03	Process Model for Denitrification Alternatives at Activated Sludge 1	HDR Engineering, Inc.	01/18/2022	\$25,000	\$0	\$25,000	100%
PS21-08	Pure Oxygen Activated Sludge Operations Study at Plant No. 2	Hazen and Sawyer	09/22/2022	\$241,791	\$0	\$241,791	94%
PS22-03	CEQA/MMRP Measures Review	HDR Engineering, Inc.	11/28/2022	\$24,963	\$0	\$24,963	100%
RE20-02	Chemical Resilience Study at Plant No.1 and 2	Hazen and Sawyer	06/02/2021	\$278,784	\$15,003	\$293,787	100%
2021 Master Professional Design Service Agreements							
FE21-05	Warehouse Stations and Demolition at Plant No. 2	ProjectLine Technical Services. Inc.	04/26/2022	\$228,328	\$42,953	\$271,281	100%
FE21-08	Newhope-Placentia Sewer Manhole Replacements	GHD, Inc.	02/28/2023	\$235,820	\$0	\$235,820	21%
FE22-01	Platform Modifications for Process Areas at Plant No. 1 and No. 2	ProjectLine Technical Services. Inc.	03/14/2023	\$159,296	\$0	\$159,296	12%
FR1-0017	Trickling Filter Valve Replacement at Plant No. 1	Dudek	08/16/2022	\$101,108	\$0	\$101,108	78%

Table 8 - Active Task Orders by Master Agreement

Agreement/Project		Consultant	Award Date	Original Task Order Value	Amendments	Current Task Order Value	% Spent
FR1-0018	Dewatering Centrifuge Diverter Gate Improvements at Plant No. 1	Dudek	08/16/2022	\$140,000	\$0	\$140,000	25%
FR2-0023	Activated Sludge Clarifier Entry Improvements at Plant No. 2	AECOM Technical Services, Inc.	01/13/2022	\$120,030	\$79,828	\$199,858	54%
FR2-0027	Heavy Mechanics Group Office Space Upgrade at Plant No. 2	ProjectLine Technical Services. Inc.	09/13/2022	\$126,153	\$0	\$126,153	85%
FRC-0010	Warner Avenue Vault Cover Improvements	Kleinfelder, Inc.	11/16/2021	\$205,000	\$43,128	\$248,128	77%
FRC-0014	Magnolia Sewer Manhole Abandonment at Interstate-5	Brown and Caldwell	03/15/2023	\$195,055	\$0	\$195,055	0%
FRJ-0003	Interplant Gas Line Blow Off Vault Repairs	Dudek	09/08/2022	\$165,000	\$0	\$165,000	78%
P2-127	Collections Yard Relocation and Warehouse Demolition at Plant No. 2	ProjectLine Technical Services. Inc.	08/02/2022	\$188,898	\$83,284	\$272,182	67%
SC19-06	EPSA Standby Power Generator Control Upgrades at Plant No. 2	Spec Services, Inc.	11/03/2021	\$241,153	\$58,847	\$300,000	69%
			Total	\$7,862,683	\$1,005,623	\$8,868,306	

Table 9 - Planning Studies Status Report

Project Number	Project Name	Status	Allocated Budget
PS18-06	Go/No-Go Lights and Signage	Active	\$495,000
PS18-09	Ocean Outfall Condition Assessment and Scoping Study	Active	\$5,302,717
PS19-03	Laboratory Rehabilitation Feasibility Study	Active	\$450,000
PS20-02	Collection System Flow Level Monitoring Study	Active	\$743,218
PS20-08	Euclid Trunk Sewer Hydraulic Modeling and Odor Control Analyses	Active	\$500,000
PS20-09	Thickening & Dewatering Plant Water Study at Plant No. 1	Active	\$400,000
PS21-01	Exterior Lighting Study at Plant Nos. 1 and 2	Active	\$345,533
PS21-02	Public Announcement and Fire System at Plant Nos. 1 and 2	Active	\$500,000
PS21-04	Energy and Digester Gas Master Plan	Active	\$1,785,000
PS21-05	CAD Design Manual Update for 3D Design	Active	\$758,000
PS21-06	Urban Runoff Optimization Study	Active	\$1,100,000
PS21-07	Process Simulation Model Development for Cen Gen Facilities	Active	\$121,000
PS21-08	Pure Oxygen Activated Sludge Operations Study at Plant No. 2	Active	\$360,000
PS21-10	Integrated Nitrogen Management	Active	\$211,000
PS22-02	Onsite Oxygen Generation Feasibility Study at Plant No. 2	Active	\$295,000
PS22-03	CEQA/MMRP Measures Review	Active	\$40,000
Grand Total			\$13,406,468
Number of Chartered Projects			16
Board Approved Program Budget			\$28,652,000
Remaining Unallocated Budget			\$15,245,532

Table 10 - Research Program Status Report

Project Number	Project Name	Status	Allocated Budget
RE20-06	Co-Thickened Sludge Pump Trial at Plant No. 1	Active	\$160,000
RE21-01	Supercritical Water Oxidation Demonstration at Plant No. 1	Active	\$7,941,029
Grand Total			\$8,101,029
Number of Chartered Projects			2
Board Approved Program Budget			\$10,000,000
Remaining Unallocated Budget			\$1,898,971

Table 11 - Small Construction Projects Program Status Report

Project Number	Project Name	Status	Allocated Budget
FE18-06	CenGen Instrument Air Compressors Replacement at Plant No. 1	Active	\$1,150,000
FE18-13	Redhill Relief Sewer Relocation at State Route 55	Active	\$3,550,000
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	\$675,000
FE18-16	Truck Loading Basement Drain Modifications at Plant No. 1	Active	\$592,000
FE18-20	DAFT Air Compressors Replacement at Plant No. 1	Active	\$1,360,000
FE19-01	Pump Station Portable Generator Connectors	Active	\$2,570,000
FE19-02	Cengen Plant Water Pipe Replacement at Plant No. 1	Active	\$4,165,000
FE19-03	Trickling Filter Sludge and Scum Pumps Replacement at Plant No. 1	Active	\$3,200,000
FE19-04	Sunflower Pump Replacement at Plant No. 1	Active	\$4,300,000
FE19-06	EPSA Motor Cooling Improvements at Plant No. 2	Active	\$1,475,000
FE19-08	Secondary Treatment VFD Replacements at Plant No. 2	Active	\$2,900,000
FE19-10	Digesters C, D, F, G and I Gas Balance Lines Replacement at Plant No. 2	Active	\$1,200,000
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	\$560,000
FE19-13	VFD Replacements at Seal Beach Pump Station	Active	\$520,000
FE20-01	Wastehauler Station Safety and Security Improvements	Active	\$2,671,500
FE20-02	Digester C, D, F, and G Mechanical Rehabilitation at Plant No. 2	Active	\$3,950,000
FE20-03	Return Activated Sludge Discharge Piping Replacement at Activated Sludge Plant No. 1	Active	\$6,840,000
FE20-04	Cengen Cooling Water Pipe Replacement at Plant No. 2	Active	\$5,180,000
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	\$1,500,000
FE20-07	Santa Ana Trunk Rehabilitation at Plant No. 1	Active	\$765,000
FE20-08	Olive Sub-Trunk Siphon Rehabilitation at Santa Ana River	Active	\$3,500,000
FE20-09	CenGen Smoke Detection Improvements at Plant No. 1 and No. 2	Active	\$950,000
FE21-01	Plasma Cutting Fume Extractor installation at Plant No. 1 Rebuild Shop	Active	\$277,000
FE21-02	Lighting Improvements Boiler and Sludge Dewatering Areas at Plant No. 1	Active	\$320,000
FE21-04	Thickening and Dewatering Facility Handrail Installation at Plant No. 1	Active	\$230,000
FE21-05	Warehouse Stations and Demolition at Plant No. 2	Active	\$2,200,000
FE21-06	Chemical Dosing Station Installation at Westside Pump Station	Active	\$560,000

Table 11 - Small Construction Projects Program Status Report

Project Number	Project Name	Status	Allocated Budget
FE21-07	Liquid Oxygen Tank A Replacement at Plant No. 2	Active	\$3,800,000
FE21-08	Newhope-Placentia Sewer Manhole Replacements	Active	\$1,225,000
FE22-01	Platform Modifications for Process Areas at Plant No. 1 and No. 2	Active	\$1,300,000
FE22-02	Liquid Oxygen Tank B Replacement at Plant No. 2	Active	\$4,200,000
Grand Total			\$72,375,500
Number of Chartered Projects			34
Board Approved Program Budget			\$90,000,000
Remaining Unallocated Budget			\$17,624,500

Table 12 - Information Technology Capital Program Status Report

Project Number	Project Name	Status	Allocated Budget
IT19-01	IT Safety VPP Systems (IT19-01)	Active	\$210,000
IT19-05	IT P1 & P2 Data Refresh (IT19-05)	Active	\$1,200,000
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
IT20-08	Field Computer for Nerissa and Interface with LIMS(ICE-68_IT20-07) 6520008	Active	\$121,000
IT20-10	Digitize Quality Assurance Tracking Processes/TNI/ELAP Standards (ICE-76_IT20-10) 6520010	Active	\$145,700
IT21-01	Access Network Equipment Obsolescence Replacement (ICE-79_IT21-01) 6521001	Active	\$1,249,500
IT21-04	Databridge Scale Management Software (ICE - 84_IT21-04)	Active	\$42,752
IT21-05	JD Edwards Server Migration and Upgrade (ICE - 86_IT21-05) 6521005	Active	\$88,000
IT22-01	Fortigate Firewall Replacement (ICE - 92_IT22-01) 6522001	Active	\$275,000
IT22-02	Two Routers and Two Switches for Dual ISPs (ICE - 94_IT22-02) 6522002	Active	\$80,000
IT22-03	PAO Graphic Arts Printer (ICE - 95_IT22-03) 6522003	Active	\$13,405
Grand Total			\$3,874,357
Number of Chartered Projects			12
Board Approved Program Budget			\$10,000,000
Remaining Unallocated Budget			\$6,125,643

Table 13 - Operations & Maintenance Capital Program Status Report

Project Number	Project Name	Status	Allocated Budget
SC19-03	Return Activated Sludge Pump Station Elevator Rehabilitation at Plant No. 2	Active	\$890,000
SC19-06	EPSA Standby Power Generator Control Upgrades at Plant No. 2	Active	\$3,450,000
SC20-02	Ocean Outfall Booster Station Elevator Rehabilitation	Active	\$410,000
SC22-01	EPSA Electrical Building and Distribution Center H HVAC System Replacement at Plant No. 2	Active	\$5,100,000
Grand Total			\$9,850,000
Number of Chartered Projects			4
Board Approved Program Budget			\$15,622,000
Remaining Unallocated Budget			\$5,772,000