

Photo: Existing Headworks Motor Control Center to Be Replaced in Project

Project Number:	18-01	
Project Name:	WWTP – Elec/Mech Rehab & Sludge Holding Tank Replacement Project	
Project Location:	Wastewater Treatment Plant	
Project Manager:	Trenor	
Status:	Award/Contracting	
Project Description:	This Project is a multi-area project at the WWTP aimed at mitigating risk of failure in the Influent Pump Station, Headworks, 3W/Chlorine Analyzer Building, Effluent Building and Sludge Storage Tank. Most of the work involves replacing aged electrical and mechanical equipment in existing buildings.	
Department:	Treatment	
Financial:	Cumulative Budget:	Cumulative Spent:
	\$10,946,671	\$896,671
Financial:	FY Budget:	FY Spent:
	\$5,000,000	\$0
Reclamation Share:	Estimated at 4% of project cost. Actual share TBD based on Construction Costs.	
Other Entities:	Pebble Beach Community Services District, CAWD/PBCSD Reclamation Project	
Permits Required:	Coastal Commission Notification	
Challenges:	Electrical Cutover Coordination	
Schedule:	<ul style="list-style-type: none"> Construction anticipated for FY21/22 into FY22/23 	
Consultants:	Design: Kennedy/Jenks Consultants Construction Management: Currie Engineers	
Contractor:	Clark Bros.	

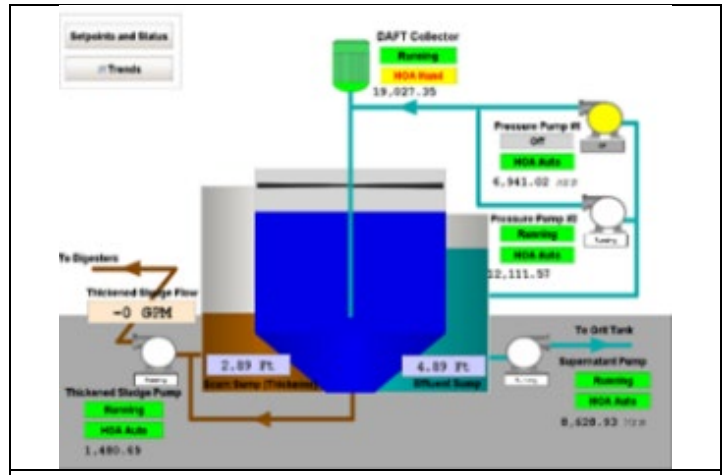


Photo: DAFT SCADA Overview

Project Number:	18-05	
Project Name:	Programmable Logic Controller (PLC) and Supervisory Control and Data Acquisition (SCADA) Programming Project	
Project Location:	Wastewater Treatment Plant	
Project Manager:	Foley	
Status:	SCADA Screens 80% complete	
Project Description:	During the Phase 1 project a new SCADA software package from Inductive Automation was installed to parallel the existing system. This project includes the migration of the remaining SCADA screens from the legacy system to the new system. The PLC code is also being updated to the CAWD standards that are being developed during this project. This project is necessary to replace obsolete software and hardware so that the automated controls, alarms, and reporting remain accurate and reliable.	
Department:	Treatment	
Financial:	Cumulative Budget:	Cumulative Spent:
	\$473,297	\$273,297
Financial:	FY Budget:	FY Spent:
	\$200,000	\$0
Reclamation Share:	Partial Reclamation	
Schedule:	<ul style="list-style-type: none"> Existing SCADA to be migrated in FY 20/21. 	
Consultants:	Frisch Engineering	



Photo: Existing Gas Conditioning System

Project Number:		18-11	
Project Name:		Microturbine Integration Project	
Project Location:		Wastewater Treatment Plant	
Project Manager:		Treanor/Foley	
Status:		Purchasing Standby Gas Compressor	
Project Description:		Overhaul of existing gas conditioning system and controls for the microturbines. The existing gas conditioning system has been having repeated mechanical failures which reduces the amount of time the Microturbines are in service. Significant overhaul of controls is needed to integrate the new 65kW turbine. CAWD is looking into a new gas conditioning system in case the existing system is not sufficient to treat the gas after the larger 65kW turbine is placed in service.	
Department:		Treatment	
Financial:	Cumulative Budget:	Cumulative Spent:	
	\$205,114	\$55,114	
Financial:	FY Budget:	FY Spent:	
	\$150,000	\$0	
Reclamation Share:		N/A	
Other Entities:		N/A	
Permits Required:		Air Board Permit	
Challenges:		Complexity of System	
Schedule:		<ul style="list-style-type: none"> Ongoing 	
Consultants:		Frisch Engineering (programming)	
Contractor:		N/A	

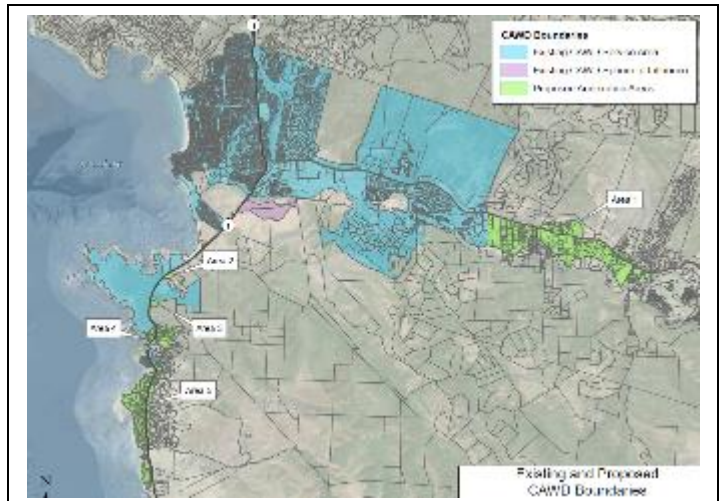


Photo: Areas of Potential Annexation

Project Number:		18-21, 19-04, 19-05, 19-09	
Project Name:		2021 CAWD Sphere of Influence (SOI) Amendment & Annexation Proposal	
Project Location:		Collection System	
Project Manager:		Lathér	
Status:		Pending Recording by CA State	
Project Description:		The project will provide access for homes and businesses currently on septic systems and add approximately 350 connections to the District at build-out. Interested areas include Corona Road, Riley Ranch, Carmel Valley Manor and Yankee Point & Otter Cove.	
Department:		Collections	
Financial:	Cumulative Budget:	Cumulative Spent:	
	\$105,000 (55K+50K)	\$51,767	
Financial:	FY Budget:	FY Spent:	
	\$0	\$26,527	
** No Budget included for Annexation b/c costs will be recouped through annexation fees.			
Permits Required:		Environmental Review, LAFCO Annexation Approval	
Challenges:		#18-21 Working with homeowner groups to form a Corona Road Assessment District to pay for infrastructure that is needed to connect to our sewer system. Funds from homeowner in the amount of \$67K received by CAWD.	
Schedule:		LAFCO annexation hearing on 3-22-21. Approved with zero protests.	
Consultant:		Denise Duffy & Associates	



Photo: Existing totes used for Sulfuric Acid storage and Feed

Project Number:		18-26
Project Name:		RO Pretreatment Acid Tanks and Containment
Project Location:		Reclamation – MF/RO
Project Manager:		Treanor
Status:		Bid Phase
Project Description:		Code compliance upgrades for existing acid chemical storage and feed system used by Reclamation for enhancing RO recovery. Project includes code compliant secondary containment and separation of dissimilar chemicals.
Department:		Treatment
Financial:	Cumulative Budget:	Cumulative Spent:
	\$438,743	\$68,743
Financial:	FY Budget:	FY Spent:
	\$370,000	\$0
Reclamation Share:	100%	
Other Entities:	Reclamation Project	
Permits Required:	Coastal Commission Notification	
Challenges:	N/A	
Schedule:	<ul style="list-style-type: none"> • Bid Summer 2021 • Construction 2021/2022 	
Consultants:	Trussell Technologies, Inc	
Contractor:	TBD	



Photo: Eucalyptus trees on South Side of Treatment Plant

Project Number:		18-28
Project Name:		Perimeter Tree Plan and Implementation
Project Location:		Wastewater Treatment Plant
Project Manager:		Treanor
Status:		Determining Tree Types / Final Landscape Plan for Interior
Project Description:		Planning and landscaping around the treatment plant. This will include looking into possibly replacing the non-native eucalyptus trees around the perimeter of the treatment plant with native tree species. The project will start with a study and a plan to determine costs, sequencing schedule, and visual impacts. The eucalyptus trees around the plant have ongoing maintenance costs which may be offset in the long term with different type of tree screening. Purpose is to improve security around plant perimeter.
Department:		Treatment
Financial:	Cumulative Budget:	Cumulative Spent:
	\$237,897	\$2,897
Financial:	FY Budget:	FY Spent:
	\$60,000	\$0
Reclamation:	N/A	
Other Entities:	N/A	
Permits Required:	Currently unknown (In Study Phase)	
Challenges:	Time it will take for new trees to grow up that will fully screen treatment plant from view	
Schedule:	<ul style="list-style-type: none"> • Study to occur in 2021 	
Consultants:	Scott Hall Landscape Design	
Contractor:	TBD	



Photo: Old Flood Door in Headworks Basement

Project Number:	19-01	
Project Name:	Critical Process Minor Onsite Flood Mitigations	
Project Location:	Wastewater Treatment Plant	
Project Manager:	Waggoner	
Status:	Converting to O&M Procedures	
Project Description:	There are a few areas of the WWTP that may be vulnerable to inundation during a 100-year river flooding event. Although the actual impact to the process in the event of inundation of these areas may be minor, it would be prudent to mitigate any possible impacts of flooding on the treatment process. Staff are working on procedures and housekeeping practices to keep the site prepped for flooding.	
Department:	Treatment	
Financial:	Cumulative Budget:	Cumulative Spent:
	\$21,788	\$21,788
Financial:	FY Budget:	FY Spent:
	\$0	\$0
Reclamation Share:	15% Reclamation	
Other Entities:	Reclamation Project	
Permits Required:	Coastal Commission Notification	
Challenges:	N/A	
Schedule:	<ul style="list-style-type: none"> • Planning performed in 2019 • Modifications in 2021 	
Consultants:	N/A	
Contractor:	TBD	

PRE-TREATMENT ORDINANCE
2020-XX



CARMEL AREA WASTEWATER DISTRICT

Project Number:	19-02	
Project Name:	Pretreatment Ordinance	
Project Location:	Pretreatment/Collections	
Project Manager:	Lathér/De Ocampo/Waggoner	
Status:	Under Committee Review	
Project Description:	Prepare a Pre-Treatment Ordinance that is in compliance with the current standard of practice and the State Water Resources requirements.	
Department:	Treatment	
Financial:	Cumulative Budget:	Cumulative Spent:
	\$0	\$0
Financial:	FY Budget:	FY Spent:
	\$0	\$0
Reclamation Share:	N/A	
Other Entities:	N/A	
Permits Required:	N/A	
Challenges:	None	
Schedule:	<ul style="list-style-type: none"> • Committee review of Ordinance 	
Consultants:	None	
Contractor:	None	



Photo: View gravity pipe in Carmel easement

Project Number: 19-03		
Project Name: Carmel Meadows Sewer Replacement		
Project Location: Collection System		
Project Manager: Lathér		
Status: In Design / CEQA		
Project Description: The project will replace 1,300 feet of Ductile Iron Pipe (DIP) on an aerial span and eight manholes by constructing a small pump station at the end of Mariposa Drive. This project is located on an easement parallel to Ribera Road and was originally installed in the early 1960's.		
Department: Collections		
Financial:	Cumulative Budget:	Cumulative Spent:
	\$2,014,551	\$364,551
Financial:	FY Budget:	FY Spent:
	\$150,000	\$0
Permits Required: Coastal Permit and Environmental Review		
Challenges: Redirecting the sewer to the pump station without requiring booster pumps for individual houses.		
Schedule: Design FY20/21. Construct FY21/22.		
Consultants: SRT Consultants		
Contractor: TBD		



Photo: Entrance to Carmel Valley Manor

Project Number: 19-08		
Project Name: Carmel Valley Manor Pipeline and Pump Station		
Project Location: Collection System		
Project Manager: Lathér		
Status: Design by Owner – Construction Planned upon Completion of Annexation		
Project Description: Sewer extension project to be completed by the owners of Carmel Valley Manor to connect to CAWD's sewer system.		
Department: Collections		
Financial:	Cumulative Budget:	Cumulative Spent:
	\$0	\$180
Financial:	FY Budget:	FY Spent:
	\$0	\$180
Reclamation Share:		0%
Other Entities:		
Permits Required: County Encroachment Permit, Environmental Review in process		
Challenges: Funding, Repayment Agreement, LAFCO annexation		
Schedule: 3-22-21 LAFCO hearing. Approved without Protest		
Consultants: MNS and Rincon are working for Carmel Valley Manor to permit and design the project.		
Contractor: N/A		



Photo: View of proposed sewer line realignment

Project Number:	19-13	
Project Name:	Upper Rancho Cañada Pipe Relocation	
Project Location:	Collection System	
Project Manager:	Lathér	
Status:	In Construction	
Project Description:	This project relocates an existing sewer trunk line that serves the eastern most assets of the District and is located within the proposed County Park at Rancho Cañada. The trunk line varies in size from a 12-inch to 8-inch diameter and is made of Truss pipe material that was installed in the early 1970's. The pipe is damaged in many locations, has capacity issues, and was identified as a priority in the Asset Management Plan.	
Department:	Collection	
Financial:	Cumulative Budget:	Cumulative Spent:
	\$1,912,586	\$172,586
Financial:	FY Budget:	FY Spent:
	\$1,760,000	\$0
Other Entities:	Monterey Regional Park District	
Permits Required:	Environmental Review	
Challenges:	Providing a design that allows CAWD access to assets and is acceptable to the Park District.	
Schedule:	Design FY 19/20. Construct FY 20/21.	
Consultants:	MNS Engineering Rincon Environmental	



Photo: Existing air diffuser system

Project Number:	19-19	
Project Name:	WWTP – Aeration Basin Improvements	
Project Location:	Wastewater Treatment Plant	
Project Manager:	Waggoner	
Status:	Materials Onsite Pending Installation in Sept/Oct 2021	
Project Description:	The Aeration Basins 4A & 4B need to have additional diffusers installed to ensure the proper air (oxygen) transfer into the wastewater to support the aerobic microorganisms in the basins.	
Department:	Treatment	
Financial:	Cumulative Budget:	Cumulative Spent:
	\$9,030	\$9,030
Financial:	FY Budget:	FY Spent:
	\$0	\$0
Reclamation Share:	Estimated at 0% of project cost.	
Other Entities:	N/A	
Permits Required:	N/A	
Challenges:	Weather conditions and Scheduling	
Schedule:	<ul style="list-style-type: none"> Design is complete Materials ordered and received Construction anticipated for Fall 2021 	
Consultants:	N/A	
Contractor:	TBD	

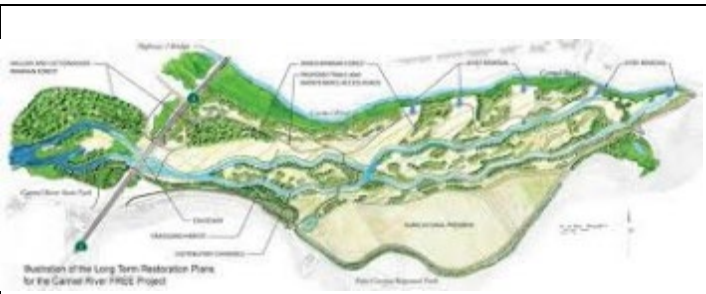


Photo: Carmel River Floodplain Restoration and Environmental Enhancement (CRFREE)

Project Number: 19-21		
Project Name: Carmel River FREE Mitigation		
Project Location: Carmel River Lagoon		
Project Manager: Treanor		
Status: Design/CEQA/Developing Funding Agreement		
Project Description: The CRFREE Project intends to create a new river channel in the Carmel River lagoon floodplain which will significantly impact existing wastewater pipelines that cross the lagoon. To fully mitigate impacts from CRFREE the pipelines which are currently crossing over a portion of the lagoon are proposed to be installed underground using Horizontal Directional Drilling construction methods.		
Department: Engineering		
Financial:	Coastal Conservancy Grant Budget: \$750,000	Cumulative Spent: \$480,141 FY Spent: \$0
** Project is being funded by CRFREE initiated grants		
Reclamation Share: 0%		
Other Entities: Monterey County		
Permits Required: Coastal Commission, CA Fish and Wildlife, Army Corp of Engineers, Regional Water Quality Control Board (RWQCB)		
Challenges: Construction near Environmentally Sensitive Habitat and obtaining new Easement from State Parks		
Schedule: <ul style="list-style-type: none"> Design and CEQA anticipated completion Summer 2021 Construction anticipated in Summer 2022 		
Consultants: Design: Kennedy Jenks and Staheli Trenchless CEQA: Johnson Marigot		
Contractor: Pending		



Photo: River Watch logo

Project Number: 20-05		
Project Name: River Watch Agreement		
Project Location: Collection System		
Project Manager: Lathér		
Status: Work in Progress		
Project Description: Work with Collections to provide data that is needed to satisfy the milestones in the agreement with River Watch.		
Department: Collections		
Financial:	Cumulative Budget: N/A	Cumulative Spent: N/A
	FY Budget: N/A	FY Spent: N/A
Reclamation Share:		0%
Other Entities:		River Watch
Permits Required:		none
Challenges:		CCTV scheduling deadlines. The Board agreed to increase staffing by 1 FTE to assist us in meeting the required schedule. New employee started 11-20-20. Received 1 yr. extension from River Watch due to COVID-19.
Schedule:		Due date June 2023
Consultants:		
Contractor:		N/A

LAWD Collections Dept - CIP														
FY 2020/21 thru 2024/25														
Project #	PROJECT	2020	21/22	22/23	23/24	24/25	2026	27/28	28/29	2031	27/28	28/29	2030	2031
1	Causal Meadows Pipeline (Causal Creek)	\$185,000	\$1,000,000											
2	Water Cactus Pipeline Pipe Relining	\$1,450,000												
3	Upper Sycamore Pipeline Pipe Relining	\$1,700,000												
4	Upper Sycamore PS Rehabilitation	\$100,000	\$750,000	\$110,000										
5	Upper Sycamore Pipeline - Clean to flow	\$100,000	\$500,000	\$500,000										
6	Phononix Creek Sewer Pipe Rehab	\$100,000	\$250,000	\$1,250,000										
7	Phononix Pipeline at the Santa Cruz Station	\$100,000												
8	Water Cactus PS and Station - South of Santa Lucia		\$1,100,000	\$200,000										
9	17th Street to the Road		\$700,000	\$700,000										
10	Upper Sycamore Sewer Rehabilitation		\$400,000	\$2,500,000										
11	Water Cactus PS Rehabilitation		\$100,000	\$100,000										
12	Water Cactus PS Rehabilitation		\$100,000	\$100,000										
13	Water Cactus PS Rehabilitation		\$100,000	\$100,000										
14	Water Cactus PS Rehabilitation		\$100,000	\$100,000										
15	Water Cactus PS Rehabilitation		\$100,000	\$100,000										
16	Water Cactus PS Rehabilitation		\$100,000	\$100,000										
17	Water Cactus PS Rehabilitation		\$100,000	\$100,000										
18	Water Cactus PS Rehabilitation		\$100,000	\$100,000										
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Photo: LT Capital Schedule

Project Number: 20-06		
Project Name: Collections 20-Year CIP		
Project Location: Collection System		
Project Manager: Lathér		
Status: Work in Progress		
Project Description: Utilize updated sewer line inspection information and flow modeling to develop a 20-year Construction Improvement Plan		
Department: Collections		
Projection of Total Capital Costs-20Yr \$60,000,000	Construction Costs: \$50,000,000	Administration Costs: \$10,000,000 (20% engineering, legal, admin)
Financial:	Cumulative 15YR Budget: EST \$30M	Cumulative Spent: N/A
	FY Budget: N/A	FY Spent: N/A
Reclamation Share:	0%	
Other Entities:	River Watch	
Permits Required:	none	
Challenges:	Need all pipeline CCTV results to be completed to develop plan.	
Schedule:	2020 - 2040	
Consultants:	West Yost	
Contractor:	N/A	



Photo: Looking at Pump Station Exterior

Project Number: 20-07		
Project Name: Bay/Scenic Pump Station Rehabilitation		
Project Location: Collection System		
Project Manager: Lathér		
Status: In Design		
Project Description: Remodel the interior of the pump station and update SCADA panel to remove from areas prone to flooding.		
Department: Collections		
Financial:	Cumulative Budget: \$756,726	Cumulative Spent: \$6,726
	FY Budget: \$250,000	FY Spent: \$0
Reclamation Share:	0%	
Other Entities:	Carmel-by-the-Sea, Coastal Commission	
Permits Required:	Exemptions from CEQA & Coastal Commission	
Challenges:	Traffic Control	
Schedule:	Design 2021, Construct 2022	
Consultants:		



Photo: Pipe Bursting Limits on Scenic

Project Number: 20-08		
Project Name: Scenic Rd Pipe Bursting - Ocean to Bay		
Project Location: Collection System		
Project Manager: Lathér		
Status: In Design		
Project Description: Replace approximately 4,950 linear feet of existing 6-inch clay pipe with a new 8-inch (HDPE) Includes manhole rehabilitation.		
Department: Collections		
Financial:	Cumulative Budget: \$1,214,883	Cumulative Spent: \$14,883
	FY Budget: \$1,200,000	FY Spent: \$0
Reclamation Share:		0%
Other Entities: Carmel-by-the-Sea, Coastal		
Permits Required: Exemptions from CEQA & Coastal Commission		
Challenges: Traffic Control & poorly mapped Underground Utilities		
Schedule: Design 2021, Construct 2022		
Consultants: Pending		
Contractor: MNS		



Photo: WWTP Aerial Showing Eucalyptus Trees Around Perimeter

Project Number: 21-01		
Project Name: WWTP Eucalyptus Pruning		
Project Location: Wastewater Treatment Plant		
Project Manager: Treanor		
Status: Pending Bidding for Work in Non-Nesting Season		
Project Description: Trim Eucalyptus Trees around WWTP to control overgrowth of trees and mitigate spread of non-native tree.		
Department:		Treatment
Financial:	Cumulative Budget: \$150,376	Cumulative Spent: \$20,376
	FY Budget: \$130,000	FY Spent: \$0
Reclamation Share:		0%
Other Entities: N/A		
Permits Required: Coastal Commission Notification, County Tree Cutting Permit		
Challenges:		
Schedule: Tree Trimming anticipated during non-nesting season (fall-winter 21/22)		
Consultants: Burleson Consulting (Environmental Monitoring) Frank Ono (Arborist)		
Contractor: TBD		



Photo: Sewer Line Repair

Project Number: 21-02		
Project Name: 2021 Pipeline Spot Repairs		
Project Location: Collection System		
Project Manager: Lathér		
Status: Re-bid		
Project Description: Repairs to damaged sections of pipe at various locations throughout the District as noted in sewer video inspections		
Department: Collections		
Financial: O&M	Cumulative Budget:	Cumulative Spent:
	\$75,000 (FY21-22)	\$0
Financial: O&M	FY Budget:	FY Spent:
	\$75,000 (FY21-22)	\$0
Reclamation Share:	0%	
Other Entities:	N/A	
Permits Required:	none	
Challenges:	Traffic control in area of town, depth of repair.	
Schedule:	Complete by December 2021	
Consultants:	N/A	
Contractor:	N/A	



Photo: Impressed Current Rectifier

Project Number: 21-03		
Project Name: Cathodic Protection Testing		
Project Location: Treatment Plant		
Project Manager: Treanor		
Status: Pre-Design of Upgrades		
Project Description: Testing and evaluation of existing 50-year old impressed current cathodic protection system for WWTP Ocean Outfall, and improvements design.		
Department: Treatment		
Financial:	Cumulative Budget:	Cumulative Spent:
	\$36,936	\$6,936
Financial:	FY Budget:	FY Spent:
	\$30,000	\$0
Reclamation Share:	0%	
Other Entities:	N/A	
Permits Required:	None	
Challenges:	None	
Schedule:	Complete by Mid 2022	
Consultants:	Trident Corrosion Engineering	
Contractor:	N/A	