



Carmel Area Wastewater District Preliminary Budget 2021-22

Prepared and Submitted

by

The Budget Committee

March 25, 2021

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Carmel Area Wastewater District

2021-22

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Mission Statement

Carmel Area Wastewater District is a special district dedicated to protecting the public health and the environment by the cost-effective collection and treatment of wastewater and the return of clean water to the environment.



Carmel Area Wastewater District 2021-22

Table of Contents

	<i>Page #</i>
Budget Message	<i>i - x</i>
Introduction	
Budget in Brief	1
Budget Development Process	12
Operating Budget	
Budget Summary	18
Revenues	20
Non-Operating Expenses	21
Operating Budget	
<i>Consolidated Operating Expenses - Summary</i>	22
<i>Consolidated Departmental Expenses - Detail</i>	24
<i>Maintenance - Plant</i>	32
<i>Collections</i>	40
<i>Treatment & Disposal.</i>	48
<i>Administration</i>	56
<i>Reclamation</i>	63
<i>Waste to Energy</i>	64
<i>Brine Disposal</i>	66
Capital Budget Summary 2021-22	
<i>Capital Budget Summary 2021-22</i>	68
<i>Capital Budget Summary 2022-23</i>	69
<i>Maintenance - CIP</i>	70
<i>Collections - Equipment</i>	72
<i>Collections - CIP</i>	77
<i>Treatment - Equipment</i>	104
<i>Treatment - CIP</i>	112
<i>Long Term Capital Plan</i>	116
<i>Administration</i>	151
Budget Maps	164
Budget Graphs & Supporting Documents	
<i>Organizational Chart</i>	165
<i>Budget Graphs</i>	166
<i>Photographs</i>	167
<i>Technical Terms</i>	175

Budget Message



Message from the General Manager

March 25, 2021

Honorable President and Members of the Board of Directors:

Enclosed is the Fiscal Year 2021-22 Preliminary Budget. This budget reflects the realities of operating during a period of continued change at Carmel Area Wastewater District (CAWD). It reflects operating during a global pandemic and all the challenges associated with it. Finally, it reflects our full commitment to serving existing and future generations in the most efficient manner possible, while protecting both the public health and the environment. There is much that we have accomplished, under not always easy circumstances, that is worthwhile giving a specific shout-out for recognition. Therefore, bear with us as we take a brief turn down the past year, then I will discuss where we are going in the next year, and finally a look at the future.

The one overarching feature of the past year has been the pandemic. We went into lock-down mode in March of 2020 and remain locked down today. We anticipate that before the year-end we should be able to get everyone who wants a vaccine, vaccinated. It has been challenging this past year, but staff has stepped up and we have continued operations with appropriate safety protocol in place. While most of the public has been working remotely, our people have continued to come to work every day to keep our facilities running smoothly. The pandemic has also created an astonishing amount of havoc with our supply chains. Just about everything takes longer to receive – in some cases months longer. Nonetheless, we are still pushing forward and serving the public.

We have had only one confirmed case of COVID-19 among staff. Unfortunately, due to an abundance of caution, we had to quarantine the entire Maintenance department because of the one positive case. As a result of COVID we have everyone wearing N-95 masks, we are social distancing, and we have erected barriers or re-arranged work schedules to minimize interaction, and we are working split shifts at the plant. Unfortunately, we have had the Administration office locked to the public since last March and have limited all interactions to ZOOM meetings or telephone. I use the word unfortunate because we are just like anyone else – we much prefer face-to-face conference meetings with our customers and feel that while ZOOM is a great tool it is just not the same.

Collections

We continue to move forward on many fronts even as the pandemic lingers on. The River Watch Settlement agreement allowed us three (3) years to video all lines in the system. Hard to call it a silver lining, but the pandemic allowed us to argue for a year extension on the agreement. During that time, the crew is on pace to meet the guideline of videoing all lines, inspecting all manholes and pump stations and replacing lines within 200 feet of water. To meet the goals of inspecting all lines the Board approved a hybrid Collection/Maintenance employee that works three days of the week in Collections and two days in Maintenance. As of right now we are on track, and we fully expect to complete all requirements of the agreement on time.

We have also completed a cured in place pipe lining project of 4,000 feet on Rio Road that ranged from 24 to 27 inch diameter. Portions of this pipeline were identified in the Asset Management Plan as having severe defects that require replacement in the next five years. This trunk line was built in 1968 and is the primary trunk line for all flow from the east of Highway 1.

A second large pipeline project was completed in Hatton Canyon and utilized Federal Emergency Management Agency grant funding. An eight inch diameter vitrified clay pipe was located in an easement on State Parks land in Hatton Canyon. The pipeline's bell and spigot connections were not strong enough to stay in place when the area was flooded during rain events and roadway failures. Replacing it with high density polyethylene pipe and sealing all manholes along the route has made this run of pipe significantly more robust and less likely to fail in a storm.

We continue to work on annexation plans for properties all the way south to Yankee Point in the Highlands and east to Mid Valley Shopping Center. Some of these properties have reported failing septic systems and this annexation will allow them to connect to the District – expanding the District's presence and offering improved environmental protection. Specifically, Carmel Valley Manor to the east has plans underway to connect and there is a feasibility study being undertaken for the Yankee Point/Spindrift area to the South. After an incredible amount of work and community outreach the annexation is on the agenda in March 2021 at the Local Agency Formation Commission.

Treatment Facility

We had planned to move forward at the treatment facility with the Electrical/Mechanical Rehab and Sludge Holding Tank Replacement Project but were stymied a bit by the Coastal Commission. Our permit, which was placed before the Commission in February 2020, has not been finalized and the language prohibited any work prior to its finalization. The solution was to return to the Coastal Commission for an "immaterial amendment" to the permit that would allow us to move forward with projects at the plant. That item was placed on the agenda in February 2021 and was passed. We are now looking forward to moving on with our treatment plant rehabilitation project in 2022.

We continue to work with the County of Monterey on an agreement for the Carmel River Floodplain Restoration and Environmental Enhancement Project (CRFREE). The project involves the undergrounding of the CAWD pipelines under the lagoon to mitigate impacts from the Monterey County floodplain project. We are currently working on the engineering design/environmental/permitting under a grant from the California Coastal Conservancy. We are

also working with Monterey County on an agreement to move forward with the construction portion of this project.



Collections VacCon Truck

So where are we going with the 2021-22 budget? We remain committed to rehabilitating and replacing worn out assets and preparing for the future. We acknowledge that we have significant challenges ahead but believe that with early and consistent planning we can manage them. We will start here with a discussion of the Collection system and then move on to the Treatment facility.

In the Collection System, an Asset Management Plan completed in 2018 detailed that we are facing challenges in managing an aging collection system infrastructure. The District system is comprised of approximately 81 miles of gravity sewers and 4.4 miles of force mains. The average gravity sewer age in the system is 59 years, indicating that a significant portion of the system is nearing the end of its useful life. The replacement value of the gravity portion of the collection system was valued at \$169M in 2018 dollars assuming that mains 6-inch or less are upsized to 8-inch upon replacement, which is the District’s current minimum design standard. The good news is that we have time to solve the system’s shortcomings

Approximately 10% of the system (7.4 miles) falls into a high risk category and approximately 26% of the system (20.6 miles) falls in the medium-high risk category. In the recent past the District was investing roughly \$600K per year in collection system rehab/replacement projects. At that annual rate impactful progress forward would not happen; therefore, we decided to change our approach. We hired a second engineer in November 2018 and set about correcting our metric. In 2020-21 we had \$3.2M in sewer line projects including a disaster loan from the Federal Emergency Management Agency for \$1M. Next year, we have budgeted \$5.5M for line rehab/replacement projects that will cover 1.3 miles, some of which are in difficult to access areas. Currently the projection is to spend on average \$3.0M annually in system rehab/replacement so that we can move the needle on what is required to update the system and so that we have a true 20-year rehab/replacement program.

Contribute \$3.0M Year					
	High Risk	Med-High Risk	Medium Risk	Med-Low Risk	Total Gravity Sewers
Years 1 – 5	\$10.4M	\$2.6M			\$13.0M
Years 6 – 10		\$13.0M			\$13.0M
Years 11 – 15		\$7.5M	\$5.5M		\$13.0M
Years 16 - 20			\$7.5M	\$5.5M	\$13.0M
Total Construction Costs					\$52.0M
30% Engineering, Legal, Admin. Etc.					\$15.6M
Total Capital Costs					\$67.6M

The District's collection system includes seven pump stations. Although five of the seven were built between 1938 and 1953 they are all operational but in varying condition. The pump stations at Scenic & 8th Ave., Ribera, and Hacienda are all considered to have only low priority issues that need addressing. For example, the station at Scenic & 8th is close to the ocean and therefore susceptible to accelerated corrosion – which is under control currently. Monte Verde and 16th Pump station is medium priority because it can be subject to tidal flooding, the wet well hatch is not traffic rated and should be replaced, and it needs a new transfer switch. Bay and Scenic is considered a medium-high priority station. The reasons include that it is too close to the ocean and subject to accelerated corrosion, it is subject to tidal flooding when big waves hit the station, and it is part of the District's long range sea level rise studies. The coastal retaining wall needs significant rehabilitation, and its location has been subject to vandalism.

There is one pump station that is considered a high priority for rehabilitation and that is the Calle la Cruz station. Calle la Cruz has three major pump stations (Highlands, Point Lobos, and Ribera) and several smaller pocket stations and a local neighborhood that feed into it. Any problems with the functionality of this station can quickly become critical. Although the station has a bypass connection to the force main, it only allows a bypass of the pumps. If something were to happen to the force main itself, which currently crosses a waterway it would be difficult to manage the incoming flows. Finally, there is virtually no storage for influent flows in the pump station wet well, it would take 30-45 minutes before a breach at the station would occur should there be a failure. Due to the high hydrogen sulfide concentrations, this station's wet well was lined with a mortar seal to extend its life.

However, the high hydrogen sulfide levels still exist and continue to erode the liner. The surrounding homes and passersby have filed multiple odor complaints. The best solution for this pump station may turn out to be to move it away from the lagoon edge and make the wet well larger. That will be a major construction project in the future.



Calle la Cruz Pump Station

The District's collection system includes approximately 4.4 miles of wastewater force mains. The older 1.3 miles are constructed of cast iron pipe, while the remaining 3.4 miles of newer installation are of high-density polyethylene (HDPE). A planning level replacement value estimate is approximately \$5.1M. The Calle la Cruz force main (3,109 ft) is considered high risk because it includes an aerial pipe over the lagoon. A crack was discovered in the buried force main three years ago that was repaired. The crack could have been an isolated defect or a sign of future potential failure. Bay & Scenic force main (1,490 ft) is considered a medium-high risk because there have been blockages caused by pipe corrosion in a section of the pipe exposed to air pockets. Finally, the Highlands force main (16,134 ft) is a medium-high risk as a very long pipe with long detention times which results in material accumulation and H₂S formation. Considering the risks identified,

inspection is recommended for further evaluation of all force mains in the District and the estimated rehab/replacement program estimate for the next twenty years in force mains is \$650K.

Going forward the District is prioritizing sewer line construction projects for the next five years to include capacity improvements with upsizing as necessary, minimizing impacts on the public, and aggressively planning and permitting projects so that the construction can take place each year. We are continuing efforts to understand the impacts of sea-level rise on tidally-impacted pump stations and plan accordingly. Over the next five years we plan to resolve existing condition defects and maintenance issues, mitigate high risk factors, and improve reliability and emergency response capabilities. As regards force mains, we will proactively identify and refine planned improvements on high and medium-high risk force mains. Finally, we will also be developing an asset management program for the manholes in the collection system. Collection of condition information is currently underway, and our plan is to apply a risk assessment and rehab/replacement process like the gravity sewer risk assessment briefly presented here. As a parting comment, the collection system will need continuous review and improvement to enhance efficiency and reduce impacts on the District over time.

Moving on to the Treatment facility we recognize that the Phase I project completed in 2017 went a long way towards improving conditions at the plant. Now, we need to move on to what was once called Phase II but has been renamed the Electrical/Mechanical Rehab and Sludge Holding Tank Replacement Project. This project involves multiple areas at the plant aimed at improving reliability of equipment in the Influent Pump Station, Headworks, Chlorine Analyzer



Hwy 1 Plant Entrance

Building, Effluent Building, and Sludge Storage Tank. Most of the work involves replacing aged equipment and mechanical work in existing buildings. The project builds off the asset management plan that Kennedy/Jenks Engineering developed for the District in 2012. The project

is highly focused on electrical systems that are well past their useful life and are critical to operations. The sludge holding tank work is to address the fact that the current tank was built in the 1930s and is past its useful life. Three existing sludge tanks that no longer meet seismic code will be demolished and a new tank installed.

Over the next 15 years we have projected an additional \$15M in various projects at the treatment plant. That number is likely on the low side because as you get further out from the current date the unknowns become more amplified. What we do know is that we have between 30-40 years at our current location in the Carmel Lagoon and then we will have to solve the problem of sea level rise at the facility. We are not completely sure yet what the future looks like, but we have started planning for it now. Any decision on the future of the plant, whether it be moving from its current location or connecting to Monterey 1 Water will require significant analysis of all alternative and public input. Until that time, we think that this current rehabilitation at the plant is a prudent decision. In the next 30-40 years we believe we will need to cycle through one more rehabilitation of the facility, after that point it may be more prudent for the District to operate on a run-to-fail basis. We will not compromise operational effectiveness or risk environmental damages, but if we are moving from our current location then at some point, we need to make the decisions to abandon the current site.

CAWD's Future

I have given the reader a considerable amount of information about the past year, the upcoming budget year, and even a glimpse of the possible future. The natural question is where does this leave us financially? What does this mean to the average ratepayer?

As we move forward, we remain committed to ensuring we meet our permit guidelines, remain protective of the public health and environment, and reduce sewer overflows in as the most cost effective way possible. We take the District's Mission Statement seriously and put those goals first. We will continue to provide value to all our customers in a manner that stands up to a comparison with *any* wastewater district in California, as measured by cost and level of service. For the last two years we have cut our operating budget due to COVID-19 recognizing that the pandemic provided our ratepayers with financial stressors. However, that is not something we can continue doing indefinitely, postponed operational maintenance is like kicking the can down the road – not a particularly viable

plan over the long term.



Repairs at Reclamation

With those thoughts in mind, we estimate that over the next 20 years our operating budget will increase an average of 5% annually. When we look back historically, except for during COVID-

19, that percentage is consistent. While our operating budget averages a 5% annual increase we feel that a user fee increase of roughly 4% will help us keep pace. Why the difference between projected operating increases and required revenue? Because we have some other minimal sources of revenue, specifically permit fees, interest income, and revenue from food waste.

No one likes rate increases. I live in this community along with every member on the Board and I believe we are all sensitive to the impact a rate increase can have on our constituents. But we also recognize that CAWD has been in existence for 113 years and we all want to hand off a well maintained operation to the next generation and while doing all that we can to protect the beautiful landscape that we operate in. There can be no question but that all of us benefitted from the Clean Water Grant funds that were available so easily in the 1980s. We built a major portion of our facility using those funds – and every ratepayer in our service area has benefitted. Now, as a sign of the times, that type of grant money is much more difficult to find. That means that our only option is to pass the cost to current ratepayers or to take on debt. The Budget Committee has expressed a desire not to saddle the next generation of Carmelites with debt until such time as we need to move the facilities due to sea level rise. At that point, the District will likely need to take on significant debt, but we are trying to position ourselves now to minimize the impact. There are significant advantages to all who live and work here in maintaining the investment we have in our treatment facility.

What are our financial goals moving forward? First, as stated, we do not want to take on any debt prior to moving the facility from its current location in the Carmel Lagoon. We recognize that whether we move to another location in Carmel Valley or if we connect to Monterey 1 Water, having no debt on the books will be to our advantage because, quite clearly, we will need to take on debt to make a move happen. We are planning to cover the local match portion of grant funding, or essentially 25%. For example, if we need to utilize \$100M to move from our current location we want to be positioned so that we can cover the required local match or \$25M. When you look at our reserves, we have a designated fund for sea level rise or what we refer to as “Managed Retreat” that currently has a balance of \$3M. The Board has authorized an additional \$1M transfer to that reserve this year bring the total to \$4M and we believe that if we continue on this track we should be well positioned when any move takes place. Rest assured that if there are grant funds available, we will apply for those prior to taking on debt.

Next on our financial horizon is a land purchase. If we are to move locally, we need to find a suitable piece of land. Unfortunately, we do not think there is an overabundance of options available to us in this area. Nonetheless, if we can find a parcel, we believe that purchasing now will be prudent because it is better to plan for a specific site. And, if it turns out we do not need land we feel confident we can sell it. Currently we are planning on a land purchase in the neighborhood of \$6M for 5+ acres. If we can obtain a purchase option that allows us time to assess the property for zoning, environmental and preliminary engineering, that would be an even better scenario as it would allow us time to analyze and prepare for the best outcome possible.

Moving out of our current location requires that we return the site to its original riparian condition. This is a requirement of the California Coastal Commission and could prove to be rather costly. We’ve been at the same location since the 1930’s and acknowledge that there has been a considerable amount of construction on the site. Returning it to riparian habitat is excellent for

the environment, particularly since the site is surrounded by State Parks. However, we estimate it may cost as much as \$4M to make this a reality.

Next up on our list of future goals is “what if” we connect to Monterey 1 Water (M1W) rather than move the plant. We have not done the analysis yet, but we have given it some thought internally. We believe we would need to pay for installation of a pipeline to M1W and likely two pump stations. That would mean acquiring land to place the pump stations on in addition to all construction costs. We are guesstimating the total cost could be as much as \$100M, so again we want to be prepared to cover any local match required. Even if we move the plant locally, we are a gravity driven system. By that I am referring to the fact that all flows go to their current location based on gravity or in some cases are assisted by pump stations. We very likely would need to maintain a minor footprint at our current location to pump to a new location. There is a cost associated with that endeavor. Right now, we have estimated \$7M for one or more pump stations as may be required.

We have also started taking a more proactive approach to pension costs. CalPERS assumes a 7% discount rate. When they do not meet their assumption, it falls to the local agency to make up the difference. Right now, CAWD is well positioned because we paid down our unfunded accrued liability (UAL) in August 2020. But managing the UAL is an ongoing concern given the dependence on investment returns. Therefore, the District is opening a Section 115 which is an investment vehicle that allows us to earn greater returns on funds designated for pension. Currently we are earning 1.25% at Monterey County. We are confident that we can do better than that in a Section 115 trust which will enable us to better manage ongoing costs. Currently we are estimating \$100K per year into the trust to cover any shortfall that grows the UAL.

Finally, we must consider what becomes of the Collection system should we move the treatment plant or connect to M1W. If we move to another location, then certainly Collections would move also. If we connect to M1W then it is likely the District would become a Collections only operations and we would need a corporate yard for their operations. Currently Collections operates out of the treatment plant. There are many such Collections-only special districts around the states, so it is certainly not a “new” idea, but nonetheless we are attempting to plan for all possibilities.

I hope that this summary of the challenges facing the District over the next 30 years points out clearly the need for careful and comprehensive long term planning. The Board of Directors recognizes the impact of rate increases on the community. We also know that without a viable solution to wastewater there really cannot even be a community. That is why we are looking at the long term horizon – we know that we can better control our community’s future if we are in a solid financial position. We will absolutely continue to apply for grant funds and we likely will take on long term debt at some point; however, having reserves means we can make local decisions. We think the ability to make the decision locally is critical.

There has been much talk this year about a “rebate” because of COVID-19 and the impact on the community. We have had multiple discussions on this topic over the last 6-8 months. We have incorporated the advice of legal counsel and a special counsel that specializes in public agency rates. We have talked to other agencies in the state to see if and how they were addressing the issue. Any rebate would be based only on the time the Shelter-in-Place order was in force and

only on that portion of our rates that are variable. Because wastewater is heavy on fixed costs the percentage of variable costs is only about 15%.

Additionally, this Board has addressed COVID-19 by incorporating significant budget cost cutting measures totaling \$600K into the 2021-21 rates. Rather than approving a rebate again for 2021-22 we have continued to defer projects and maintenance of the facility in the proposed budget. This action allows us to keep the rates low and under the umbrella of Proposition 218 to spread that cost savings across all customer categories. The proposed rate model for 2021-22 increased residential rates, our largest category, by 3.02%. Last year our residential rate increase was 3.16%. Most other customer categories fall within 1-2% for their proposed increase. We are making a concerted effort to keep rate increases low because of economic pain related to the pandemic. While the District is aware of the hardships posed by COVID-19, we also need to keep in mind that not only do we need to continue operations, but we want any decrease in rates to be spread fairly across all categories under Proposition 218. We think this year's proposed model accomplishes that goal.

I would like to thank the Budget Committee for their comments and input at numerous meetings to refine and clarify areas of the budget. My expectation for Fiscal Year 2021-22 is that it will be an extremely busy and productive year for rehabilitating our facility, planning for our future, and providing the quality service our ratepayers and the community rightfully expect. Thank you to the entire Board for its service, support, and guidance.

Sincerely,



Barbara Buikema
General Manager



Arial View of the Facility 2018

Budget in Brief



FY 2021-22

Budget-in-Brief

Our Mission

Carmel Area Wastewater District is a special district dedicated to the protection of the public health and the environment by the cost-effective collection and treatment of wastewater and the return of clean water to the environment.

Who We Are

Formed in 1908, we are one of the oldest sanitary districts in the state. At the time of formation, we provided septage facilities for the village of Carmel-by-the-Sea. Today we have grown to provide collection, treatment, and disposal of wastewater for 11,000 people within the District and treatment and disposal for an additional 4,500 people in Del Monte Forest as provided for by contract with Pebble Beach Community Services District (PBCSD).

The CAWD collection system comprises approximately 81 miles of gravity sewers ranging in diameter from 6 inches to 27 inches together with nearly 5 miles of force mains, 7 pump stations, and over 1,400 manholes. This budget is reflective of our 15-year capital improvement program to replace or rehabilitate pipelines.



Aerial Drone Photo 2017

The District's revenue base is split 66% residential and 34% commercial/retail. The community is fully built out and little changes from year-to-year, although we currently are offering services further into Carmel Valley and the Big Sur area in response to the County's more stringent septic system requirements.

DIGESTER
CONTROL
BUILDING #2 –
MIXING PUMP
(CONSTRUCTION
COMPLETED IN 2017)



The plant was designed to treat 4.0 million gallons per day (MGD) of primarily domestic wastewater. At the present time the plant has a permitted capacity of 3.0 MGD. Current average dry weather flow is approximately 1.2 MGD, which represents 40% of permitted capacity. PBCSD contributes approximately one third of our influent flow.

The District treats wastewater to nearly drinking water standards. We reclaim nearly 87% of our influent and return it to the Del Monte Forest where it is used to irrigate seven world famous golf courses including Pebble Beach, Poppy Hills, and Spanish Bay. The costs for treating the water for irrigation use are not borne by the District's ratepayers.

Key Deliverables:

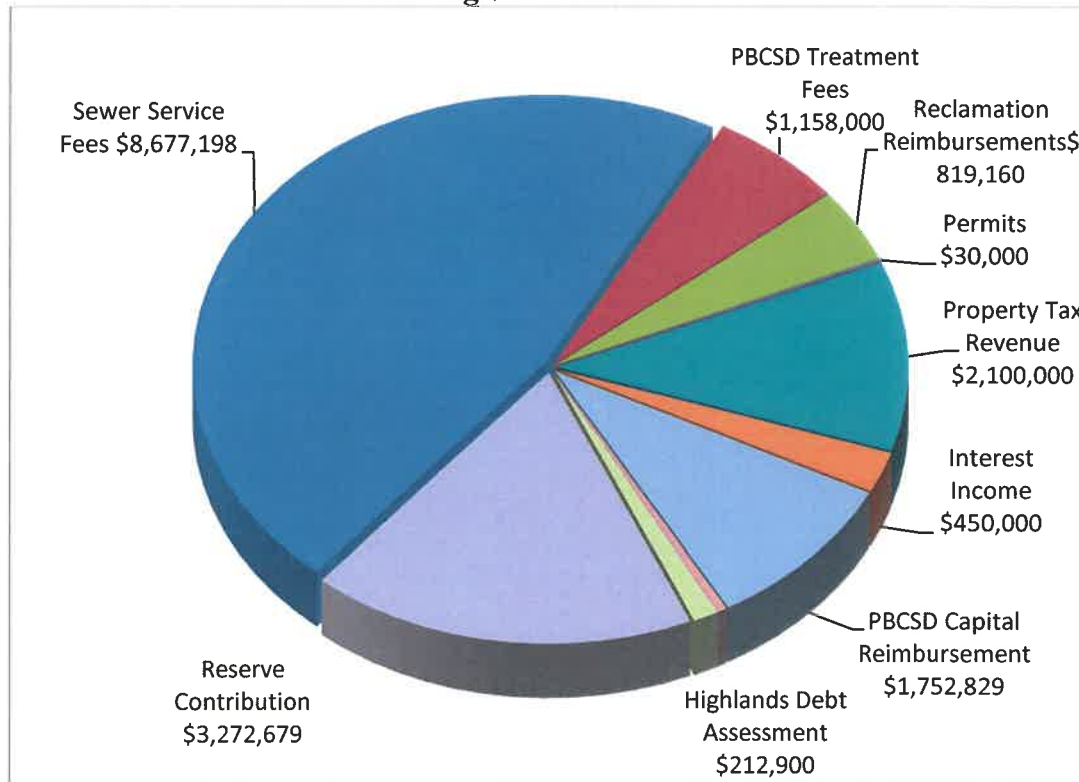
The District's mission is to protect public health and the environment by cost-effectively collecting and treating wastewater and returning clean water to the environment. In District Operations and in our Capital Program, we take our mission seriously and apply it to everything we do. The improvement projects selected by the District were evaluated with a focus on reducing the risk of asset failure while positioning us to achieve our strategic goals. These include:

- Complying with Regulations for current waste discharge permits and positioning for compliance with probable future regulations.
- Protecting the Environment through reliable, efficient, and sustainable treatment of wastewater.
- Reducing Energy Consumption to reduce operating costs and reduce the carbon footprint of the Wastewater Treatment Plant.

- Investing in Safety Practices to reduce the potential for injuries and environmental hazards at the Wastewater Treatment Plant.
- Maintaining Reliability through application of asset preservation and redundancy.
- Supporting the Reclamation Project by reliably supplying secondary treated wastewater to the tertiary microfiltration/reverse-osmosis (MF/RO) plant.
- Enhancing Wastewater Treatment Plant Flood Protection by planning and designing mitigation approaches for flood events.

How is the District Funded?

FY 2021-22 revenue and financing \$18.5 million



Projected Budget Revenues 2021-22

The District receives funding from a variety of sources. They include sewer service fees, treatment fees from PBCSD, reimbursement from the Reclamation Project, property tax revenue, interest income, and funds from the participants in the Highlands Bond issuance that cover all debt service.

Wastewater service fees account for approximately 83% of total budgeted operating revenues for 2021-22. Additional treatment fees from wastewater coming from PBCSD account for another 11% of operating revenues. This combined total of approximately 94% represents total operating revenues from the District’s core function of wastewater treatment. The District also receives revenue from non-operating sources, primarily property tax revenue which is 43.5% of non-operating revenue or 11.3% of total revenues. Property tax revenue is received only from those parcels that were part of the District Pre-Prop 13. Post Prop 13 all property tax revenues for any parcel annexed into the District belong to the County of Monterey. Additional non-operating

revenues include interest income, brine disposal fees, and reimbursement from both PBCSD and the Reclamation Project for their share of capital projects.

This year 17.6% of our revenues will come from Reserves – we are planning over \$5.5M in sewer line rehabilitation in the Collection System and over \$4.4M at the Treatment facility for the Electrical/Mechanical rehab project. Total capital projects are \$9.9M, of which \$3.2M will be made by a drawdown on capital reserves.

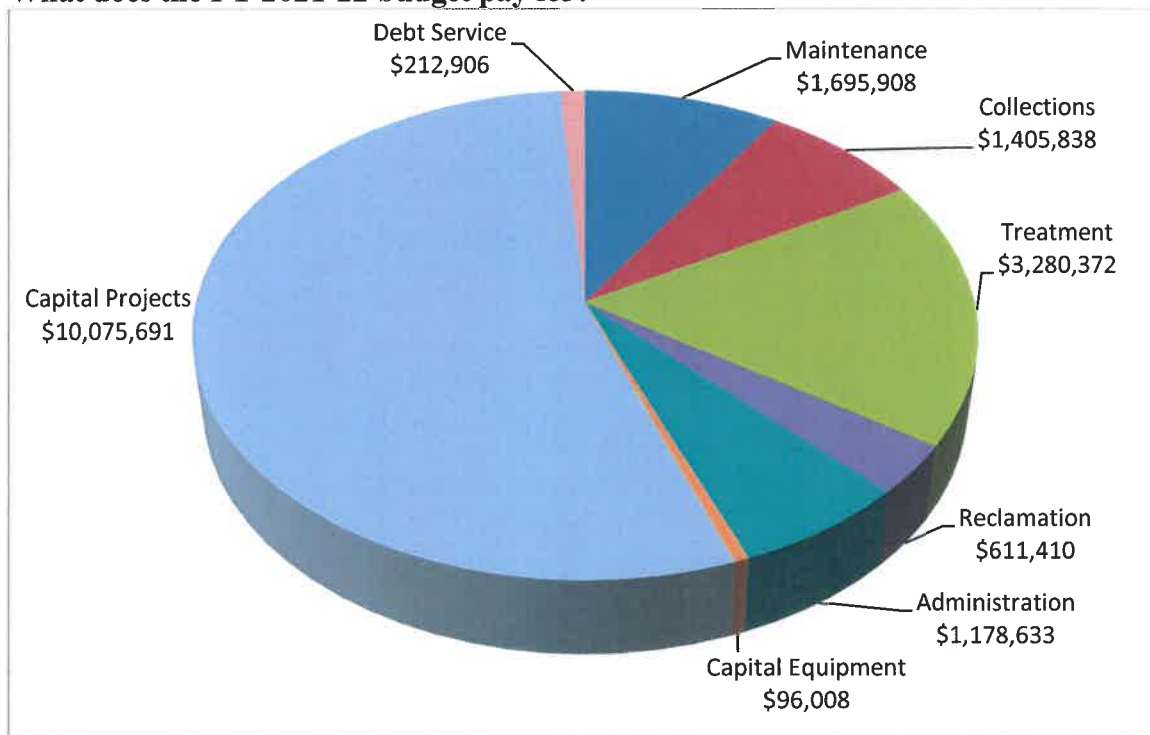
The District faces significant challenges in its future and is attempting to position itself to manage the outcomes. Rate increases now and into the future are very much considered with these long-term outcomes in mind. Our goals going forward for both the long and short term include:

- Sea Level Rise will affect the location of the treatment facility within the next 30-40 years. As such, the District must decide about its future, specifically, whether to move the facility into Carmel Valley or to connect with Monterey 1 Water (M1W) or some other option. The estimate is well over \$100M for either option. We recognize that even with a combination of loans and grants the District will need to come up with the local match, or 20-25% of that financial requirement.
- If the plant remains at its current location for 30-40 years, we will need to maintain the facility in good working order for the duration of its life span. We are currently estimating \$24M in expenditures through 2035. The Collection System, which will remain regardless of the outcome with the treatment facility will require more than \$80M over the next thirty years.
- Given the financial demands the District is facing, we are recommending that the District maintain its “Pay-as-you-Go” philosophy. We believe it will be important to minimize or eliminate debt service going into our commitment to move the treatment plant to enhance the marketing of our bonds.
- If it is determined we need to move into Carmel Valley, the District will need to pay for the land – grants and loans for a land purchase are unlikely. Even if we connect to Monterey One Water (M1W), we will likely need to arrange for land that will serve two pump stations to pump sewage around or over the hill to M1W.
- The District is required by the Coastal Commission to return the existing site of the treatment plant to riparian habitat. We are not sure what the cost will be, but it likely will be significant. The District is in the process of defining the requirements so that an accurate cost estimate can be budgeted.
- The District has opened a Section 115 Trust to start the process of growing a reserve for our CalPERS Unfunded Accrued Liability (UAL) and this trust requires funding. Over the last 15 years we have paid nearly \$1.25M to pay down our UAL. We anticipate that returns over the next fifteen years will be similar and will require we either again pay down or we establish a reserve fund. Every time CalPERS fails to meet its 7% investment target, we

know that our UAL grows. We believe the Section 115 is one tool to make sure that we are proactive in anticipating this liability.

- We are also on a path to upgrade the Collection system. Based on a report from West Yost Engineers we believe we need to place roughly \$80M into our Collection system. over the next 30 years. The plan will be methodically implemented on a risk based schedule.
- Finally, moving from the Carmel Lagoon location means we either move the facility into Carmel Valley or we provide for a pipeline and pump stations to the regional treatment plant. Should we take the latter path, we will need to provide a space for the collection system to function along with some administrative functions.
- It is not possible to cost out these demands accurately at this time, but our current working estimate over the next twenty years, exclusive of continued operating and capital costs at our current location, is \$48.2M

What does the FY 2021-22 budget pay for?



Projected Budget Expenditures 2020-21

The District has budgeted 54% of its budget for capital projects and equipment. Plant Operations this year comprise 27% of our expenditures with 7% devoted to Collection System. While operating costs continue to increase, if for no other reason than inflation, this budget also reflects our concerted effort to manage spending. We recognize that a wastewater system requires continued investment to remain safely operational, but we also know that the past year has been difficult for our customers because of COVID-19. This budget reflects the balance we have tried to achieve. However, the Board recognizes that funding deferred in response to the pandemic

crisis must be levied at some future time to maintain operations and prepare for the challenges outlined above.

District Reserves

As prudent management of our finances dictates, the wastewater district keeps a reserve of money to cover projects and unexpected events. Prior to proceeding with any capital project, the District policy is to ensure that it has all funding available to complete the project.



Clarifiers tanks & DAFT

There are different types of reserves:

Compensated Accruals Reserve: set aside to fund accrued liability due employees for their vacation leave. CAWD has taken a conservative position on this and has set aside \$250K. Each year this amount is adjusted to actual records. Employees and the Board have agreed to an accrual limit of 320 hours. There is no payout of sick time.

Capital Reserve: These are funds set aside for rehabilitation and replacement of the capital assets of the treatment plant and the collection system. The Fiscal Year 2021-22 budget contains \$10.1M in capital projects and equipment. The District receives reimbursement for 1/3 of the costs of Treatment plant projects from PBCSD. This year we anticipate that will be \$1.7M.

Defend or Managed Retreat Reserve: established in 2017, to address the future needs of the District in response to sea level rise issues, are reviewed annually by the Board of Directors with a funding goal of \$15M over 15 years. The Board authorized \$1M for this fund in fiscal year 2021-22 bringing the total balance to \$4M. We believe that if we remain focused on our original goal, we can reach a \$15M balance over the next 10 years.

Wastewater Charges raised to Maintain and Rehabilitate Critical Infrastructure

The District has proposed an increase of 3.02% in its residential user fees. Residential is the largest category in the District and accounts for 70% of our customer base and roughly 66% of revenues. The rate increases are necessary to undertake the capital upgrades and to help us continue with our strategy of “pay-as-you-go” to fund our improvements. As should be evident from the discussion above, considerably greater funding is necessary, but the Board’s intention is to delay these levies until the economy recovers.



MF/RO Structure

Listed below for review is a summary residential rate increases over the last 6 years.

	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22
Residential Rates	12.46%	8.66%	9.20%	7.55%	3.16%	3.02%

Budget Highlights

Revenues

- Sewer user fees are budgeted to increase on average 3.02%% in 2021-22. The Preliminary Rate Model details how the costs are allocated across customer categories. The Budget Committee approved the increase; however, there was considerable discussion about COVID-19, and its impact on ratepayers while at the same time meeting the regulatory and capital rehabilitation pressure faced by the District. The committee is looking long term to decide how best to protect the health of the community.
- Treatment Fees PBCSD – calculated based on our contract with PBCSD. Charges are based on flow, less source control and legal, plus administrative percentage. Historically, monthly flows vary between 28 – 32%. Because treatment and administration fees are projected to have only minimal increases and because the percentage of flow has been on the lower end of the spectrum in 2020-21, we have decreased the proposed revenue contribution to \$1.1M, but levies will be tried to actual at year end.
- Property tax revenues are anticipated to remain flat at \$2.1M because we believe recovery of past due amounts was at a high due to the increase in property sales.
- Interest income is estimated based on average balance earning 1.0%. We are basing our \$450K budget estimate on current yield, projected market rates, and decreasing balances

as we spend down reserves for capital projects. We recognize that there has been some discussion at the Federal Reserve about inflation that would push rates up – however, we are taking a conservative position.

- Permits and Connection fee revenues are based on 10-year averages.

Operations & Maintenance - General

- \$8.1 million total operating budget for Fiscal Year 2021-22.
- Operations account for 44.0% of the budget, the capital budget is 54.8% (\$8.4 million). Non-operating expenses account for 0.2 million of the fiscal year budget.
- Salaries for FY 2021-22 reflect full staffing plus the addition of one full time hybrid position. The River Watch agreement requires that we Close-circuit television (CCTV) the entire system within five years. The District plans to split this position 3 days in Collections and 2 days as an entry level mechanic position.
- The negotiated COLA for 2021-22 is 1.1%
- The District’s CalPERS Classic plan Unfunded Accrued Liability (UAL) is \$37.1K the PEPRA UAL is \$352.
- The Strategic Asset Management pension plan was valued as fully funded in 2020-21 and the actuarial report recommended zero contributions.
- Health insurance premiums increased 9.0% effective January 2021. Health insurance continues to increase annually and remain an area of concern. The District is committed to providing health insurance to employees, but we are now seeing the health insurance premium exceed pension contributions in dollar amount.
- The District’s worker comp experience mod factor is down to 96% after peaking at 149% in 2017-18. The District continues to work towards its goal of bringing it down to the 80% range.
- Property/Liability/Vehicle insurance also has increased dramatically. Wildfires, storms, civil disorder and “social inflation” have all contributed to increased pressure on insurers in North America. COVID-19 has added new types of losses to the mix and created additional uncertainty.
- The District has changed the way it operates because of COVID-19. We see some of that change in operations continuing. For example, employees take separate vehicles to ensure social distancing. Staff no longer uses shared electronic devices for the same reason. Even the way we interact at the Administrative offices and the plant have changed to encourage social distancing.



Digester Control Building #1 – Spiral Heater and Boiler

- Staff have increased their skill levels and are making more repairs inhouse. The addition of the hybrid Collection/Maintenance worker has allowed many routine vehicle maintenance and building maintenance jobs to be brought in-house.
- Collections staff is requesting funds to perform Phase 4 for the capacity modeling work done with West Yost and Associates. This will include the designation of basins throughout the district to analyze the types of flow coming from each basin.
- Under the Treatment Plant category, we will continue to perform studies related to sea level rise. As part of our permit with the Coastal Commission, we will perform annual Coastal Hazards Monitoring, Coastal Hazards Response Planning, and other technical studies. This work will allow CAWD to be proactive in management and operation of the facility.
- Utilities will see a 16% rate increase in electrical costs along with a 5.6% increase in potable water.

Capital Budget Projects

Maintenance Department

- Plans to update network cameras at the treatment plant for security and access control. The existing camera system has reached the end of its lifespan. The new system includes a 10 year cloud recording license, improved cybersecurity, and hardware warranty.

Collections Department

- Carmel Meadows Pipeline is located on aerial supports downhill of the homes and directly above Carmel Lagoon. The expansion of the lagoon has resulted in the aerial supports being slowly undermined. The best solution is to remove the pipeline from this location

and return the landscape to natural state. The flows will be directed to a small pump station at the end of Mariposa Drive and pumped into the existing force main on Ribera Road.

- Scenic Road Pipe Bursting from Ocean to Bay – this asset is approximately 4,000 feet of 6” pipe that has been in service for over 70 years. This section of pipeline has a high consequence of failure and has capacity issues during wet weather. The pipeline is directly upstream of the Bay & Scenic pump station and is located within 200 feet of a body of water.
- Upper Rancho Canada Pipe Relocation project will relocate an existing trunk line that serves the eastern portion of the District and is located within the proposed Regional Park at Rancho Canada. The project will include roughly 1,900 feet of pipe replacement and six manholes.

Treatment Plant

- The Elec/Mech Rehab & Sludge Holding Tank Replacement Project is a multi-area project aimed at improving reliability of equipment in the Influent Pump Station, Headworks, Chlorine Analyzer Building, Effluent Building, and Sludge Storage Tank. Most of the work involves replacing aged equipment and electrical and mechanical work in existing buildings. This project was developed to mitigate business risk based due to end of life cycle equipment on a risk assessment performed by Kennedy/Jenks Engineers. The project is focused on electrical systems that are well past their useful life and are critical to operations. The sludge holding tank work is to address the fact that the current tank was built in the 1930s and is past its useful life. The three existing sludge tanks no longer meet seismic code and will be removed.
- The perimeter fencing is scheduled for replacement next year. The current fence is deteriorated and does not cover all sides of the facility. The new fence will provide for improved security and access control.

Administration

- The District intends to embark on a codification project to consolidate all District policies into one document or Administrative Code. This will make it easier for staff or any outside entity to examine District policies in one location.



Primary Motor Control Center – installed 2017

CAWD's budget reflects both the current year priorities and a consideration of where the District should be in the next 25 – 30 years. Our plans for plant and collection system rehabilitation and renewal are carefully considered with an eye to providing service to our constituents and ensuring the future of the District.

Budget Development Process

BUDGET DEVELOPMENT PROCESS: Balanced Budget, Basis of Budgeting, Accounting, Development & Administration

The Board approves and adopts a balanced budget prior to the start of the fiscal year beginning July 1. The Board, General Manager, and Agency staff each has their respective Agency, departmental, and programmatic responsibilities to develop a financially responsible budget each fiscal year. Budget development is guided by financial policies and procedures, the strategic business plan, long and short term organizational goals and objectives, the economic climate, and other external factors.

The budget reflects the costs necessary to provide customers with safe and reliable wastewater service for the budget year and the long term and endeavors to keep rate increases low and yet provide for the District's long-term sustainability. The budget allocates resources, is utilized to develop rates and charges that provide adequate revenues to meet its operational needs, and encourages efficiency at every level.

Allocation of resources and strategic decision making does not end once the budget is adopted. Throughout the year each department is responsible for implementing the budget and monitoring performance, responding to unforeseen circumstances, and participating in long-range planning.

Fund Structure: The District is a single enterprise fund agency. This is an accounting system that emphasizes accountability rather than profitability. Enterprise funds provide goods or services to the general public for a fee or user charge, similar to the operation of a commercial enterprise.

Balanced Budget: The Budget is balanced when revenues equal expenditures. When revenues exceed expenditures, surplus funds are transferred into designated reserves in accordance with the District's Reserve Policy. The District's rates and charges are set to ensure that revenues are sufficient to recover the total cash needs in a given fiscal year and meet long-term capital needs.

Cash Basis of Budgeting: The District's annual budget is based on the cash method of accounting. Non-Cash depreciation and amortization expenses are included as line items at the request of the District's financial auditor. The District does not budget for depreciation. Revenues are budgeted according to what is expected to be collected during the budget year, and expenditures are budgeted according to what is expected to be spent during the fiscal year. The cash basis recognizes revenue when cash is received and recognizes expenses when cash is spent.

Accrual Basis of Accounting: The District is an enterprise fund and accounts for all its financial activity utilizing the accrual method of accounting in accordance with all applicable Government Accounting Standards Board (GASB) pronouncements for accounting, and recognizes revenues, expenses, assets, and liabilities in the proper fiscal year (July – June). The accrual method recognizes transactions and events when they occur, regardless of when cash is received or spent. One of the primary differences between the cash basis of budgeting and the accrual basis of accounting is the accrual method matches revenues to expenses which gives a more accurate picture of the District's financial condition.

Budget Appropriation: The District Budget covers all expenditures for any given fiscal year. During the year, the budget can be increased through a budget amendment resolution, approved by a majority of the Board of Directors. There is no legal restriction on the amount or frequency that the budget can be amended. Only the Board of Directors can increase the total allowable operating and capital appropriations. The General Manager is authorized to hire regular employees up to the number approved by the Board of Directors, in accordance with the “Designation of Classification Titles” authorized annually.

Development, Adoption, and Administration: The annual budget development begins with an analysis of the current year budget compared to projected annual expenditures and long-term capital improvement program funding, and serves as the baseline for the upcoming year’s budget. Unanticipated expenses are identified, and revenue and expenditure patterns are analyzed. During the course of budget development each department is responsible for developing their individual budgets for the year and for developing a long term capital plan with coordination from the Principal Engineer/Plant Engineer.

This work forms the basis for the “1st Draft” that is used as the basis for discussion with the Budget Committee (two Board members are selected annually). The General Manager and Budget Committee meet to review options to balance the budget and reach the District’s strategic goals. Concurrently with the Budget Committee, there is a standing Salary/Benefits Committee that meets to discuss the employee negotiations and other personnel related expenditures. Both of these Board Committees work together to prepare and finalize a Preliminary Budget that is presented to the full Board in March of each year.

The Preliminary Budget forms the basis for the rate model that is publicly noticed under Proposition 218 rules to every parcel holder of record in the District. At the Preliminary Budget meeting stakeholders are encouraged to provide input on the budget for consideration. Any direction provided by the Board in March is incorporated into the final proposed budget. If necessary, the Budget Committee will meet again prior to the completion of the final budget which is presented at the June meeting in a publicly noticed meeting to consider its adoption. Once adopted, the budget serves as the revenue collection and spending plan for the fiscal period.

On a monthly basis, during the fiscal year, staff prepares a detailed budget performance report and brief revenue and expenditure analysis. These monthly reports are available for public review and are available on the District web site at <https://www.cawd.org/board-of-directors-meetings>.

Budget Responsibilities

Budget decisions are made through a process that involves the Board of Directors, District staff, and the public. The responsibilities for financial management planning and budget control are as follows:

Board of Directors

- Establish both short and long-term financial goals for the District.
- Develop strategic guideline/policies to guide staff in the development of the operating and long term capital budget priorities.
- Ensure sound budgeting policies are in place.
- Ensure the adequacy of District resources. Review proposed cash flow projections.
- Approve Prop 218 Notice for user fees and charges.
- Participate, as appropriate, in budget committees.
- Monitor and provide budget oversight throughout the fiscal year.

General Manager

- Review and present to the Board of Directors long range plans, budgets and revisions, schedules of rates and charges, and other financial transactions, as necessary.
- Authorize budget transfers of up to 5% of the fiscal years' budget between the operating and capital budget, provided that the total budget remains unchanged.
- Support the development of the Strategic Plan that included projections of short range and long range financial needs, and recommend methods for meeting those needs.
- Develop procedures and controls to monitor and assure compliance with the budget.
- Assist departments throughout the year with their budgets and financial issues.
- Authorize the allocation of budgeted funds from contingency.
- Implement emergency financial procedures within approved limits, when necessary.

Departmental Responsibilities

- Prepare departmental Operations & Maintenance budget requests.
- Prepare current year Capital Improvement Program requests in conjunction with Principal Engineer.
- Prepare and/or update long term capital requests. The District is committed to a 15-year planning horizon for its capital program.
- Monitor financial performance and take prompt corrective action, as needed.
- Monitor key performance indicator and take corrective action, as appropriate.
- Promptly inform the General Manager when unforeseen circumstances indicate that budget amounts may be exceeded or that expected revenues may be less than planned.

Principal Engineer/Plant Engineer

- Work with Collections, Maintenance, and Operations Superintendents to review, monitor, and clarify capital budget requests.
- Prepare and/or update long term capital plan for all departments.
- Maintain the District's commitment to a 15-year planning horizon for its capital program.
- Monitor all capital projects under Engineering purview

- Promptly inform the General Manager when unforeseen circumstances indicate that budget amounts may be exceeded or that capital/operation planning was incorrect for projects under Engineering purview.

Principal Accountant

- Prepare financial projections, schedule of rates and charges, and other financial materials.
- Produce monthly expenditure and revenue reports.
- Prepare periodic reports on the status of expenditures, revenues, investments and actions taken to ensure the financial stability of the District
- Prepare information on financial trends to facilitate evaluation of the District's financial position and identify conditions requiring management attention.

Budget Calendar

July – Oct	<ul style="list-style-type: none"> -Assess budget goals, organization needs, and current economic factors -Budget guidelines and assumptions prepared -Capital budget development starts -Operating budget development starts
Nov – Dec	<ul style="list-style-type: none"> -Initial compilation and review of departmental O&M budgets -Initial budget revenue submittals (Operating & Non-Operating) -Meet with Employee Negotiators in December to discuss requests -Departmental O&M budgets initial draft completed -Initial staff review of departmental CIP budgets
January	<ul style="list-style-type: none"> -Conduct initial Budget and Salary/Benefits Committee meetings -Budget direction discussed and confirmed with Board Committees -Compilation and review of departmental Capital Improvement Project (CIP) budgets
February	<ul style="list-style-type: none"> -Finalize employee Salary/Benefits package for Preliminary Budget -Initial review of Preliminary Rate Model with Budget Committee -Prepare preliminary charts, graphs, tables & narrative
March	<ul style="list-style-type: none"> -Preliminary Budget presented to full Board -Preliminary Rate Model presented to full Board
April	<ul style="list-style-type: none"> -Finalize employee compensation package with Salary/Benefits Committee -Finalize review by Budget Committee -Finalize budget review with Budget Committee
May	<ul style="list-style-type: none"> -Prop 218 Notices mailed to all parcel holders of record
June	<ul style="list-style-type: none"> -Final Budget presented in public meeting to full Board for approval -Final Rate Model approved in public meeting by full Board -Publish and distribute final approved Budget document
July 1 – June 30	<ul style="list-style-type: none"> -Budget Management & Oversight -Budget amendments increasing the overall fiscal year budget are subject to Board review and approval -Monthly Budget-to-Actual reports included in Board agenda packet -Annual Audited Financial Statement prepared in early Fall and presented to Board in January.

START

July – October 2020

- Assess budget goals, organization needs, and current economic factors
- Budget guidelines and assumptions prepared
- Capital budget development starts
- Operating budget development starts

NOVEMBER-DECEMBER 2020

- Initial compilation and review of departmental O&M budgets
- Initial budget revenue submittals (Operating & Non-Operating)
- Meet with Employee Negotiators in December to discuss requests
- Departmental O&M budgets initial draft completed
- Initial staff review of departmental CIP budgets

JANUARY 2021

- Conduct initial Budget and Salary/Benefits Committee meetings
- Budget direction discussed and confirmed with Board Committees
- Compilation and review of departmental CIP budgets

FEBRUARY 2021

- Finalize employee Salary/Benefits package for Preliminary Budget
- Initial review of Preliminary Rate Model with Budget Committee
- Prepare preliminary charts, graphs, tables & narrative

MARCH 2021

- Preliminary Budget presented to full Board
- Preliminary Rate Model presented to full Board

JUNE 2021

- Final Budget presented in public meeting to full Board for approval
- Final Rate Model approved in public meeting by full Board
- Publish and distribute final approved Budget document

MAY 2021

- Prop 218 Notices mailed to all parcel holders of record

APRIL 2021

- Finalize employee compensation package with Salary/Benefits Committee
- Finalize review by Budget Committee
- Finalize budget review with Budget Committee

THE BUDGET PROCESS

Budget Summary

**Carmel Area Wastewater District
Budget Summary
2021-22**

Description	2019-20			Estimated 6-30-21			Proposed 2021-22 Budget	% Chg. Prior Yr. Actual	Projected 2022-23 Budget	% Chg. Prior Yr. Budget
	Actual	Budget	% of Budget	Actual	Budget	% of Budget				
Beginning Fund Balance	26,326,207	26,326,207		32,398,289	32,398,289		33,288,164	2.75%	27,241,625	-18.16%
Operating Revenues - CAWD	10,151,568	9,415,479	107.82%	10,158,400	9,681,311	104.93%	9,845,198	-3.08%	10,267,820	4.29%
Operating Revenues - Recl	642,238	471,938	136.09%	603,000	541,645	111.33%	611,410	1.39%	629,293	2.92%
	10,793,806	9,887,417	109.17%	10,761,400	10,222,956	105.27%	10,456,608	97.17%	10,897,113	4.21%
Op Expend. (less deprec.)										
Treatment	2,711,305	2,972,662	91.21%	2,983,911	3,304,762	90.29%	3,258,755	9.21%	3,399,266	4.31%
Maintenance - Plant	1,156,410	1,876,966	61.61%	1,592,589	1,947,541	81.77%	1,695,908	6.49%	1,683,793	-0.71%
Administration	1,096,640	1,698,522	64.56%	1,198,174	1,326,029	90.36%	1,178,633	-1.63%	1,234,272	4.72%
Collection	1,269,852	1,705,960	74.44%	1,409,059	1,439,868	97.86%	1,405,838	-0.23%	1,447,887	2.99%
Waste to Energy	32,214	9,108	353.69%	11,351	9,108	124.63%	16,277	43.39%	16,427	0.92%
Brine Disposal	6,921	7,910	87.49%	4,924	7,884	62.45%	5,340	8.45%	5,302	-0.71%
Reclamation Project	573,988	471,938	121.62%	670,755	541,645	123.84%	611,410	-8.85%	629,293	2.92%
Total Operating Exp	6,847,331	8,743,066	78.32%	7,870,763	8,576,837	91.77%	8,172,161	3.83%	8,416,240	2.99%
Operating Gain/(Loss) (exclusive of depreciation)	3,946,475	1,144,351	344.87%	2,890,637	1,646,119	175.60%	2,284,447	-20.97%	2,480,872	8.60%
Depreciation Expense	2,669,000	2,669,000	100.00%	2,669,000	2,669,000	100.00%	2,669,000	0.00%	2,669,000	0.00%
Amortization Expense	0	4,860	0.00%	4,860	4,860	100.00%	4,860	0.00%	4,860	0.00%
Operating Gain/(Loss)	1,277,475	(1,529,509)	-83.52%	216,777	(1,027,741)	-21.09%	(389,413)	-279.64%	(192,988)	-50.44%
Non Operating Revenues	3,483,333	3,283,261	106.09%	2,993,021	3,568,242	83.88%	4,619,729	54.35%	4,628,670	0.19%
Non Operating Reclamation	22,744	58,021	39.20%	121,880	278,650	43.74%	207,750	70.45%	137,000	-34.06%
Non Operating Expend.	212,956	215,625	98.76%	214,200	216,962	98.73%	212,906	-0.60%	213,456	0.26%
Net Income/(Loss)	4,570,596	1,596,148	286.35%	3,117,478	2,602,189	119.80%	4,225,160	35.53%	4,359,226	3.17%
Capital Budget										
Equipment Purchases										

Carmel Area Wastewater District
Budget Summary
2021-22

Description	2019-20			Estimated 6-30-21			Proposed 2021-22 Budget	% Chg. Prior Yr. Actual	Projected 2022-23 Budget	% Chg. Prior Yr. Budget
	Actual	Budget	% of Budget	Actual	Budget	% of Budget				
Administration	0	14,000	0.00%	0	0	∞	0	∞	7,000	∞
Maintenance	0	0	∞	0	16,000	∞	0	∞	0	∞
Collections	554,098	410,000	135.15%	40,531	82,508	49.12%	82,508	103.57%	0	-100.00%
Treatment	40,561	17,800	227.87%	287,749	13,500	2131.47%	13,500	-95.31%	150,000	1011.11%
Capital Improvement Projects										
Administration	0	0	∞	75,000	75,000	100.00%	66,691	-11.08%	95,000	42.45%
Maintenance	0	0	∞	0	0	∞	24,000	∞	0	∞
Collections	521,057	3,725,000	13.99%	1,824,323	5,035,445	36.23%	5,635,000	208.88%	3,397,500	-39.71%
Treatment	4,370	305,396	1.43%	0	50,000	0.00%	50,000	∞	0	-100.00%
Treatment Long Term Capital	658,238	2,695,000	24.42%	0	3,667,000	0.00%	4,400,000	∞	5,290,000	20.23%
Total Capital Budget	1,778,324	7,167,196	24.81%	2,227,603	8,939,453	24.92%	10,271,699	361.11%	8,939,500	-12.97%
Ending Fund Balance	29,118,479	20,755,159	140.30%	33,288,164	26,061,025	127.73%	27,241,625	81.84%	22,661,351	-16.81%

Revenues

**Carmel Area Wastewater District
Revenues Budget 2021-22**

Description	2019-20			Estimated 6-30-21			Proposed 2021-22 Budget	% Chg. Prior Yr. Actual	Projected 2022-23 Budget	% Chg. Prior Yr. Budget
	Actual	Budget	% of Budget	Actual	Budget	% of Budget				
OPERATING REVENUES										
Sewer service fees - residents	8,557,816	8,206,479	104.28%	8,690,000	8,471,311	102.58%	8,677,198	-0.15%	8,937,514	3.00%
Treatment fees - PBCSD	1,541,642	1,200,000	128.47%	1,400,000	1,200,000	116.67%	1,158,000	-17.29%	1,320,306	14.02%
Permits & inspection fees	52,110	9,000	579.00%	68,400	10,000	684.00%	10,000	-85.38%	10,000	0.00%
Reclamation Proj O & M reimbursement	642,238	471,938	136.09%	603,000	541,645	111.33%	611,410	1.39%	629,293	2.92%
<i>Total Operating</i>	10,793,806	9,887,417	109.17%	10,761,400	10,222,956	105.27%	10,456,608	97.17%	10,897,113	4.21%
NON OPERATING REVENUES										
Property tax revenue	2,140,553	1,812,897	118.07%	2,100,000	1,858,219	113.01%	2,100,000	0.00%	2,100,000	0.00%
Interest Income	715,611	250,000	286.24%	450,000	250,000	180.00%	450,000	0.00%	450,000	0.00%
Liquid food waste	9,884	1,000	988.40%	4,800	8,500	56.47%	5,000	4.17%	5,000	0.00%
Brine disposal	104,714	0	∞	79,000	65,000	121.54%	79,000	0.00%	79,000	0.00%
Highlands Inn assessment revenue	210,925	215,625	97.82%	214,200	223,689	95.76%	212,900	-0.61%	213,400	0.23%
Reimbursement from PBCSD for 1/3 secondary treatment plant improv.	254,606	985,739	25.83%	121,801	1,144,834	10.64%	1,752,829	1339.09%	1,761,270	0.48%
Plant Connection fees	44,065	18,000	244.81%	20,020	18,000	111.22%	20,000	-0.10%	20,000	0.00%
Other	2,975	0	∞	3,200	0	∞	0	-100.00%	0	∞
Reclamation Project reimbursement	22,744	58,021	39.20%	121,880	278,650	43.74%	207,750	70.45%	137,000	-34.06%
<i>Total Non Operating</i>	3,506,077	3,341,282	104.93%	3,114,901	3,846,892	80.97%	4,827,479	154.98%	4,765,670	-1.28%
TOTAL REVENUES	14,299,883	13,228,699	108.10%	13,876,301	14,069,848	98.62%	15,284,087	110.15%	15,662,783	2.48%

Non-Operating Expenses

**Carmel Area Wastewater District
Non-Operating Expenses Budget
2021-22**

Description	2019-20			Estimated 06-30-21			Proposed 2021-22 Budget	% Chg. Prior Yr. Actual	Projected 2022-23 Budget	% Chg. Prior Yr. Budget
	Actual	Budget	% of Budget	Actual	Budget	% of Budget				
NON OPERATING EXPENSES										
Debt Service - Principal*	160,000	160,000	100.00%	170,000	170,000	100.00%	175,000	2.94%	185,000	5.71%
Debt Service - Interest	50,925	53,025	96.04%	42,000	44,362	94.68%	35,306	-15.94%	25,856	-26.77%
Bond Fees	2,031	2,600	78.12%	2,200	2,600	84.62%	2,600	18.18%	2,600	0.00%
TOTAL	212,956	215,625	98.76%	214,200	216,962	98.73%	212,906	-0.60%	213,456	0.26%

Note:

- * Highlands Bond is charged to project participants annually on property tax statements in addition to annual user fees
Highlands Bond maturity October 1, 2024

Consolidated Operating Expenses – Summary

**Carmel Area Wastewater District
Consolidated Departmental Operating Budget 2021-22**

Description	2019-20			Estimated thru 06-30-21			Proposed 2021-22 Budget	% Chg. Prior Yr. Actual	Projected 2022-23 Budget	% Chg. Prior Yr Budget
	Actual	Budget	% of Budget	Actual	Budget	% of Budget				
Total Salaries	2,531,783	2,531,672	100.00%	2,654,865	2,684,941	98.88%	2,680,005	0.95%	2,774,949	3.54%
Total Payroll Taxes	209,145	198,688	105.26%	227,810	203,892	111.73%	204,944	-10.04%	212,169	3.53%
Total Employee Benefits	776,928	1,016,415	76.44%	1,676,995	942,836	177.87%	932,517	-44.39%	1,111,949	19.24%
Total Directors Fees	22,906	29,650	77.25%	18,532	36,300	51.05%	33,200	79.15%	30,200	-9.04%
Total Trucks & Autos	46,497	60,220	77.21%	47,882	58,430	81.95%	48,265	0.80%	46,845	-2.94%
Total Insurance	109,567	99,335	110.30%	176,633	151,988	116.22%	120,124	-31.99%	125,687	4.63%
Audit/Financial Expense	29,075	31,200	93.19%	31,200	40,000	78.00%	40,000	28.21%	34,000	-15.00%
Total Engineering Fees	142,863	455,000	31.40%	119,861	450,000	26.64%	400,000	233.72%	375,000	-6.25%
Total Attorney Fees	137,222	276,000	49.72%	57,502	156,000	36.86%	77,000	33.91%	77,000	0.00%
Total Office Supplies & Svc.	76,890	49,800	154.40%	42,464	67,600	62.82%	65,375	53.95%	63,525	-2.83%
Total Operating Supplies	336,571	374,155	89.95%	354,797	560,982	63.25%	481,792	35.79%	473,192	-1.79%
Total Contractual Services	812,690	1,205,200	67.43%	889,722	1,278,655	69.58%	1,270,550	42.80%	1,265,880	-0.37%
Total Maint & Repairs	445,012	814,000	54.67%	276,845	594,850	46.54%	468,450	69.21%	426,150	-9.03%
Total Utilities	313,836	416,905	75.28%	304,366	440,677	69.07%	415,868	36.63%	433,141	4.15%
Total Telephone	37,780	40,300	93.75%	45,281	50,095	90.39%	45,200	-0.18%	45,500	0.66%
Total Travel & Meetings	44,897	83,641	53.68%	7,843	79,700	9.84%	54,935	600.46%	62,850	14.41%
Total Permitting	42,682	70,050	60.93%	48,446	60,412	80.19%	54,350	12.19%	58,950	8.46%
Total Membership/Subscrip.	55,458	56,697	97.81%	53,222	74,819	71.13%	67,265	26.39%	69,150	2.80%

**Carmel Area Wastewater District
Consolidated Departmental Operating Budget 2021-22**

Description	2019-20			Estimated thru 06-30-21			Proposed 2021-22 Budget	% Chg. Prior Yr. Actual	Projected 2022-23 Budget	% Chg. Prior Yr Budget
	Actual	Budget	% of Budget	Actual	Budget	% of Budget				
Total Safety Expenses	72,933	67,355	108.28%	120,691	54,315	222.21%	49,910	-58.65%	49,810	-0.20%
Total Other Expense	28,609	394,845	7.25%	45,052	48,700	92.51%	51,000	13.20%	51,000	0.00%
CAWD Subtotal	6,273,342	8,271,128	75.85%	7,200,009	8,035,192	89.61%	7,560,751	5.01%	7,786,947	2.99%
Reclamation Project	573,988	471,938	121.62%	670,755	541,645	123.84%	611,410	-8.85%	629,293	2.92%
Final Subtotal	6,847,331	8,743,066	78.32%	7,870,763	8,576,837	91.77%	8,172,161	3.83%	8,416,240	2.99%
Depreciation Expense	2,669,000	2,669,000	100.00%	2,669,000	2,669,000	100.00%	2,669,000	0.00%	2,669,000	0.00%
Amortization Expense	0	4,860	0.00%	4,860	4,860	100.00%	4,860	0.00%	4,860	0.00%
Total Operating Expense	9,516,331	11,416,926	83.35%	10,544,623	11,250,697	93.72%	10,846,021	2.86%	11,090,100	2.25%

Consolidated Departmental Expenses – Detail

**Carmel Area Wastewater District
Consolidated Departmental Operating Budget 2021-22**

Description	Acct	2019-20			2020-21			Proposed 2021-22 Budget	% Chg. Prior Yr. Actual	Projected 2022-23 Budget	% Chg. Prior Yr Budget
		Actual	Budget	% of Budget	Actual	Budget	% of Budget				
Salaries	5030.006	2,475,980	2,400,792	103.13%	2,593,360	2,576,741	100.64%	2,615,105	0.84%	2,710,049	3.63%
Salaries - Overtime	5035.006	26,723	87,200	30.65%	26,987	56,000	48.19%	29,500	9.31%	29,500	0.00%
Salaries - Standby	5040.006	29,080	43,680	66.58%	34,518	52,200	66.13%	35,400	2.56%	35,400	0.00%
<i>Total Salaries</i>		2,531,783	2,531,672	100.00%	2,654,865	2,684,941	98.88%	2,680,005	0.95%	2,774,949	3.54%
Payroll Taxes	5045.006	209,145	198,688	105.26%	227,810	203,892	111.73%	204,944	-10.04%	212,169	3.53%
<i>Total Payroll Taxes</i>		209,145	198,688	105.26%	227,810	203,892	111.73%	204,944	-10.04%	212,169	3.53%
<i>Employee Benefits:</i>											
Medical Insurance - Premium	5070.006	310,603	296,060	104.91%	284,078	346,842	81.90%	379,615	33.63%	404,451	6.54%
Retirement Plan - CalPERS	5080.006	228,588	308,825	74.02%	1,073,448	278,437	385.53%	285,177	-73.43%	434,057	52.21%
Pension Contribution - SAM	5090.006	0	103,840	0.00%	0	0	∞	0	∞	0	∞
Workers Compensation	5100.006	70,670	132,820	53.21%	158,848	115,721	137.27%	112,817	-28.98%	117,906	4.51%
Life Insurance	5110.006	7,999	8,255	96.90%	3,011	8,501	35.42%	2,972	-1.30%	3,114	4.78%
PEHP	5120.006	35,700	33,780	105.69%	39,583	35,450	111.66%	37,968	-4.08%	37,131	-2.20%
Dental Insurance/Claims	5130.006	33,049	36,700	90.05%	29,507	38,200	77.24%	34,600	17.26%	34,600	0.00%
Vision Insurance	5140.006	7,103	8,100	87.70%	7,582	8,350	90.81%	8,245	8.74%	8,270	0.30%
Long Term Disability	5150.006	23,774	25,420	93.53%	20,209	26,506	76.24%	17,790	-11.97%	18,678	4.99%
HSA Contributions	5160.006	47,213	52,415	90.08%	52,574	73,909	71.13%	42,588	-18.99%	44,607	4.74%
HRA Contributions	5165.006	539	0	∞	0	340	0.00%	0	∞	0	∞
Employee Assistance Program	5180.006	4,275	4,300	99.42%	2,999	4,400	68.17%	3,575	19.19%	3,575	0.00%
Employee Awards	5185.006	(387)	0	∞	292	0	∞	690	136.39%	280	-59.42%
Employee lunches		100	900	11.10%	352	300	117.38%	300	-14.81%	300	0.00%
Annual District picnic		3,211	3,000	107.02%	4,299	4,380	98.15%	4,730	10.03%	4,730	0.00%
Medical Exams	5200.006	4,374	2,000	218.68%	212	1,500	14.13%	1,450	583.96%	250	-82.76%
<i>Total Employee Benefits</i>		776,928	1,016,415	76.44%	1,676,995	942,836	177.87%	932,517	-44.39%	1,111,949	19.24%
<i>Directors Fees</i>											
Regular Board Meetings	5230.007	8,950	8,800	101.70%	7,584	8,800	86.18%	8,800	16.03%	8,800	0.00%
PBCSD - Directors fees	5240.007	1,250	1,750	71.43%	1,300	1,750	74.29%	1,400	7.69%	1,400	0.00%
Special Board Meetings	5250.007	3,300	7,600	43.42%	900	5,700	15.79%	7,600	744.44%	7,600	0.00%
Committee meetings	5260.007	1,150	2,100	54.76%	1,500	2,100	71.43%	2,300	53.33%	2,300	0.00%
Special District Assoc.	5265.007	632	0	∞	100	100	100.00%	100	0.00%	100	0.00%
WateReuse	5269.007	200	300	66.67%	0	1,500	0.00%	0	∞	0	∞
CASA - Directors fees	5270.007	0	300	0.00%	0	1,350	0.00%	0	∞	0	∞
Training	5275.007	27	0	∞	0	3,000	0.00%	3,000	∞	0	-100.00%

**Carmel Area Wastewater District
Consolidated Departmental Operating Budget 2021-22**

Description	Acct	2019-20			2020-21			Proposed 2021-22 Budget	% Chg. Prior Yr. Actual	Projected 2022-23 Budget	% Chg. Prior Yr Budget
		Actual	Budget	% of Budget	Actual	Budget	% of Budget				
Director's Dental Claims	5280.007	7,397	8,800	84.06%	7,148	12,000	59.57%	10,000	39.90%	10,000	0.00%
<i>Total Directors Fees</i>		22,906	29,650	77.25%	18,532	36,300	51.05%	33,200	79.15%	30,200	-9.04%
<i>Trucks & Autos</i>											
Gasoline	5310.006	4,448	8,400	52.95%	8,200	8,450	97.04%	8,950	9.15%	8,950	0.00%
Diesel	5320.006	12,851	22,200	57.89%	6,129	22,200	27.61%	7,000	14.21%	7,000	0.00%
Fuelmaster		550	550	100.00%	550	560	98.21%	550	0.00%	550	0.00%
Oil & Grease	5330.006	854	700	121.95%	329	800	41.18%	1,400	324.94%	1,450	3.57%
Tires, Batteries, Service	5340.006	4,424	4,100	107.90%	2,214	4,100	54.00%	5,300	139.36%	5,800	9.43%
Outside Repair Service	5345.006	15,512	9,800	158.28%	12,327	11,800	104.46%	5,300	-57.00%	4,300	-18.87%
Repair Parts	5350.006	3,937	6,000	65.62%	4,137	2,600	159.11%	7,075	71.02%	6,075	-14.13%
Tools	5355.006	266	2,500	10.63%	0	800	0.00%	1,500	∞	1,000	-33.33%
Vehicle Accessories	5360.006	2,294	700	327.67%	12,322	1,600	770.12%	8,000	-35.07%	8,000	0.00%
Driver medical exams	5370.006	0	1,100	∞	400	170	235.29%	0	-100.00%	400	∞
Smog Check - Vehicles	5380.006	240	450	53.33%	370	700	52.86%	640	72.97%	770	20.31%
DMV fees	5390.006	0	0	∞	0	0	∞	0	∞	0	n/a
DATCO Drug Testing	5400.006	708	970	72.96%	878	2,100	41.79%	1,000	13.96%	1,000	0.00%
Cleaning & detailing	5410.006	404	1,250	32.32%	26	1,650	1.58%	750	2784.62%	750	0.00%
Paint & fluids	5420.006	10	500	2.06%	0	300	0.00%	300	∞	300	0.00%
EE mileage reimbursement	5430.007	0	200	0.00%	0	100	0.00%	50	∞	50	0.00%
Waste oil & coolants disposal	5440.006	0	800	0.00%	0	500	0.00%	450	∞	450	0.00%
<i>Total Trucks & Autos</i>		46,497	60,220	77.21%	47,882	58,430	81.95%	48,265	0.80%	46,845	-2.94%
<i>Property/Liability/Auto Insurance</i>											
Auto insurance	5450.006	17,957	2,100	855.07%	18,162	13,642	133.13%	3,400	-81.28%	3,700	8.82%
Property Insurance	5480.006	6,592	18,035	36.55%	20,333	19,812	102.63%	8,445	-58.46%	8,580	1.59%
General Liability	5480.006	77,119	71,300	108.16%	129,338	109,734	117.87%	98,155	-24.11%	102,271	4.19%
Errors & Omissions	5480.007	4,800	4,800	100.00%	5,520	5,520	100.00%	6,350	15.04%	6,985	10.00%
Commerical Crime Policy	5480.007	1,450	1,450	100.00%	1,550	1,550	100.00%	1,785	15.13%	1,963	10.00%
Cyber Crime Insurance		1,650	1,650	100.00%	1,730	1,730	100.00%	1,990	15.00%	2,188	10.00%
<i>Total Insurance</i>		109,567	99,335	110.30%	176,633	151,988	116.22%	120,124	-31.99%	125,687	4.63%
<i>Audit/Financial Expense</i>	5490.007	29,075	31,200	93.19%	31,200	40,000	78.00%	40,000	28.21%	34,000	-15.00%
<i>Engineering Fees</i>											
Consulting Fees	5500.006	142,863	455,000	31.40%	119,861	450,000	26.64%	400,000	233.72%	375,000	-6.25%
<i>Total Engineering Fees</i>		142,863	455,000	31.40%	119,861	450,000	26.64%	400,000	233.72%	375,000	-6.25%

**Carmel Area Wastewater District
Consolidated Departmental Operating Budget 2021-22**

Description	Acct	2019-20			2020-21			Proposed 2021-22 Budget	% Chg. Prior Yr. Actual	Projected 2022-23 Budget	% Chg. Prior Yr Budget
		Actual	Budget	% of Budget	Actual	Budget	% of Budget				
<i>Attorney Fees</i>											
District Counsel	5510.006	137,222	76,000	180.56%	57,502	86,000	66.86%	72,000	25.21%	72,000	0.00%
Outside Counsel		0	200,000	0.00%	0	70,000	0.00%	5,000	∞	5,000	0.00%
<i>Total Attorney Fees</i>		137,222	276,000	49.72%	57,502	156,000	36.86%	77,000	33.91%	77,000	0.00%
<i>Office Supplies & Service</i>											
Bank fees	5515.007	668	100	667.71%	4,332	3,150	137.52%	100	-97.69%	100	0.00%
Public Outreach & Promotion	5519.007	7,755	0	∞	6,942	1,500	462.80%	6,500	-6.37%	6,500	0.00%
Computers & Equip	5540.006	41,922	16,300	257.19%	14,007	32,300	43.36%	27,700	97.76%	26,600	-3.97%
Furnishings & fixtures	5545.006	6,298	4,700	133.99%	3,373	4,800	70.27%	4,300	27.49%	4,000	-6.98%
Paper & printing	5550.006	2,339	12,800	18.28%	2,692	10,300	26.13%	9,325	246.44%	9,375	0.54%
Postage & shipping	5560.006	2,256	2,600	86.78%	1,643	2,600	63.19%	3,100	88.68%	3,100	0.00%
Office supplies	5570.006	10,675	9,100	117.31%	9,250	8,650	106.94%	10,050	8.65%	9,550	-4.98%
Equipment rent	5580.006	1,097	0	∞	0	0	∞	0	∞	0	∞
Equipment repairs	5590.006	73	1,500	4.88%	0	500	0.00%	500	∞	500	0.00%
Post Office Box Rental	5585.007	204	200	102.00%	226	300	75.33%	300	32.74%	300	0.00%
Temp Services	5595.007	3,603	2,500	144.10%	0	3,500	0.00%	3,500	∞	3,500	0.00%
<i>Total Office Supplies & Svc.</i>		76,890	49,800	154.40%	42,464	67,600	62.82%	65,375	53.95%	63,525	-2.83%
<i>Operating Supplies</i>											
Chemicals	5615.006	2,622	5,000	52.43%	687	4,000	17.16%	5,000	628.29%	5,000	0.00%
Phenylarsine oxide	5625.006	340	0	∞	674	750	89.84%	810	20.21%	810	0.00%
Sodium hypochlorite	5635.006	72,257	85,000	0.00%	68,042	97,750	0.00%	101,500	49.17%	101,500	0.00%
Sodium bisulfite	5630.006	61,546	50,000	123.09%	69,416	75,000	92.56%	84,000	21.01%	84,000	0.00%
Ferric chloride	5640.006	23,892	30,000	79.64%	14,447	31,000	46.60%	31,000	114.58%	31,000	0.00%
Polymer	5650.006	47,278	55,000	85.96%	51,577	55,000	93.78%	65,000	26.03%	65,000	0.00%
Acetic Acid	5660.006	703	750	93.74%	1,569	1,100	142.62%	1,100	-29.89%	1,100	0.00%
Iodine solution	5665.006	58	300	19.40%	534	300	177.84%	300	-43.77%	300	0.00%
Potassium iodate	5670.006	755	3,800	19.86%	1,535	1,000	153.49%	1,000	-34.85%	1,000	0.00%
Generator fuel	5675.006	0	2,000	0.00%	2,500	2,500	100.00%	500	-80.00%	500	0.00%
Lubricants & packing	5680.006	730	1,000	72.97%	3,534	500	706.80%	2,000	-43.41%	2,000	0.00%
Electrical Supplies	5690.006	23,182	44,900	51.63%	23,110	33,900	68.17%	16,100	-30.33%	16,100	0.00%
Laboratory	5700.006	29,965	33,840	88.55%	28,115	39,432	71.30%	39,432	40.25%	39,432	0.00%
Paint & fluids	5710.006	8,511	2,800	303.95%	550	5,000	11.00%	11,000	1900.87%	11,000	0.00%
Janitorial	5730.006	0	800	0.00%	88	800	11.00%	800	809.09%	800	0.00%
Personnel	5740.006	3,565	3,950	90.26%	1,837	4,500	40.82%	5,000	172.17%	5,000	0.00%

**Carmel Area Wastewater District
Consolidated Departmental Operating Budget 2021-22**

Description	Acct	2019-20			2020-21			Proposed 2021-22 Budget	% Chg. Prior Yr. Actual	Projected 2022-23 Budget	% Chg. Prior Yr Budget
		Actual	Budget	% of Budget	Actual	Budget	% of Budget				
Radios & supplies	5745.006	2,043	2,590	78.89%	0	2,050	0.00%	3,650	∞	2,050	-43.84%
Welding	5750.006	44	1,000	4.42%	433	500	86.55%	200	-53.78%	200	0.00%
Hand tools	5780.006	7,962	8,275	96.21%	20,503	12,000	170.86%	12,000	-41.47%	12,000	0.00%
General supplies	5790.006	50,352	42,150	119.46%	44,968	42,800	105.07%	50,300	11.86%	50,300	0.00%
COVID Safety		0	0	∞	20,000	150,000	13.33%	50,000	150.00%	43,000	-14.00%
Source control	5795.006	765	1,000	76.46%	680	1,100	61.82%	1,100	61.77%	1,100	0.00%
<i>Total Operating Supplies</i>		336,571	374,155	89.95%	354,797	560,982	63.25%	481,792	35.79%	473,192	-1.79%
<i>Contractual Services</i>											
Root foaming	5865.005	65,147	64,000	101.79%	66,654	65,000	102.54%	66,500	-0.23%	66,500	0.00%
Pump station monitoring	5870.005	12,718	12,600	100.94%	6,000	12,000	50.00%	7,500	25.00%	13,000	73.33%
Collection system capacity monitoring	5875.005	0	8,500	0.00%	0	8,500	0.00%	17,000	∞	8,500	-50.00%
Underground Service Alert	5930.005	1,860	3,000	62.00%	6,156	3,500	175.88%	3,500	-43.14%	3,000	-14.29%
Sludge Haul/Disposal	5820.006	92,500	99,000	93.43%	74,733	103,000	72.56%	103,000	37.82%	103,000	0.00%
Network Administration	5830.006	110,989	121,500	91.35%	146,269	134,245	108.96%	153,000	4.60%	157,000	2.61%
Website Maintenance	5835.007	9,131	1,000	913.11%	4,900	4,800	102.08%	4,800	-2.04%	4,800	0.00%
Laboratory Analysis	5840.006	28,215	33,000	85.50%	36,300	52,410	69.26%	57,700	58.95%	57,700	0.00%
Microturbine Service	5850.006	32,260	3,000	1075.33%	2,500	3,000	83.33%	4,000	60.00%	4,000	0.00%
Mechanical Service		13,993	60,000	23.32%	500	25,000	2.00%	15,000	2900.00%	15,000	0.00%
HVAC Service		0	25,000	0.00%	2,500	20,000	12.50%	5,000	100.00%	5,000	0.00%
Systems Integrator		120,377	220,000	54.72%	254,845	245,000	104.02%	210,000	-17.60%	210,000	0.00%
Equipment service (carts, lifts, forklift, boi		302	12,000	2.52%	3,596	3,000	119.86%	5,000	39.06%	5,000	0.00%
Plant Electrical Rehabilitation	5855.006	97,311	200,000	48.66%	90,603	140,000	64.72%	170,000	87.63%	165,000	-2.94%
Alarm System	5880.006	4,222	4,750	88.88%	4,198	10,200	41.16%	8,000	90.55%	8,075	0.94%
HR Consulting	5885.006	24,825	59,940	41.42%	52,994	60,000	88.32%	67,000	26.43%	67,100	0.15%
Equip rental	5890.006	0	7,400	0.00%	0	5,400	0.00%	4,400	∞	4,300	-2.27%
Janitorial Service	5900.006	11,455	14,610	78.41%	10,860	14,500	74.90%	15,050	38.58%	15,700	4.32%
Copier Service	5910.006	3,174	8,800	36.07%	4,612	12,200	37.80%	7,000	51.77%	7,000	0.00%
Actuarial Service	5920.007	8,277	15,000	55.18%	7,217	10,000	72.17%	10,000	38.56%	10,000	0.00%
Laundry	5940.006	17,506	16,700	104.83%	17,948	22,100	81.21%	23,400	30.38%	24,655	5.36%
Payroll Processing	5950.007	7,882	6,850	115.07%	7,820	7,100	110.14%	8,000	2.30%	8,000	0.00%
Data processing - County	5970.007	21,789	22,550	96.63%	22,000	22,550	97.56%	22,550	2.50%	23,000	2.00%
Landscape Maintenance	5980.006	12,596	12,500	100.77%	6,413	14,500	44.22%	14,000	118.32%	14,000	0.00%
Hazard/Green Waste Disposal	5990.006	83	1,000	8.32%	0	0	∞	0	∞	0	∞
Grit & Screening Disposal	6000.006	22,253	15,000	148.35%	19,320	23,100	83.63%	27,500	42.34%	27,500	0.00%
Pest Control	6010.006	3,276	3,000	109.20%	3,276	3,000	109.20%	6,750	106.04%	7,000	3.70%

**Carmel Area Wastewater District
Consolidated Departmental Operating Budget 2021-22**

Description	Acct	2019-20			2020-21			Proposed 2021-22 Budget	% Chg. Prior Yr. Actual	Projected 2022-23 Budget	% Chg. Prior Yr Budget
		Actual	Budget	% of Budget	Actual	Budget	% of Budget				
Sewer/pretreatment ordinance	6015.006	0	2,500	0.00%	0	0	∞	2,500	∞	2,500	0.00%
Instrumentation Services	6020.006	1,149	15,000	7.66%	21,143	28,200	74.97%	17,700	-16.28%	17,700	0.00%
Hoist Certification	6030.006	2,042	2,500	81.69%	0	2,700	0.00%	2,500	∞	2,700	8.00%
Fuel tank cleaning	6035.004	0	2,500	0.00%	118	0	∞	3,800	3120.34%	750	-80.26%
Hazardous chemical disposal	6040.006	653	500	130.70%	0	1,000	0.00%	1,000	∞	1,000	0.00%
Outfall Inspection	6045.006	11,000	11,500	95.65%	10,000	12,650	79.05%	15,000	50.00%	15,000	0.00%
Lagoon Inspection	6046.006	0	0	∞	6,250	5,000	125.00%	5,000	-20.00%	5,000	0.00%
Ocean Monitoring Program	6050.006	0	0	∞	0	0	∞	7,400	∞	7,400	0.00%
Other Special Studies	6070.006	73,454	50,000	146.91%	0	25,000	0.00%	0	∞	0	∞
Plant tree trimming		2,250	70,000	3.21%	0	180,000	0.00%	180,000	∞	180,000	0.00%
<i>Total Contractual Services</i>		812,690	1,205,200	67.43%	889,722	1,278,655	69.58%	1,270,550	42.80%	1,265,880	-0.37%
Repairs & Maintenance											
Easements	6100.005	11,878	35,000	33.94%	28,442	35,000	81.26%	30,000	5.48%	30,000	0.00%
Pump stations	6110.005	16,914	2,500	676.55%	15,415	52,500	29.36%	20,000	29.74%	20,000	0.00%
Pump station equipment	6120.005	22,885	14,000	163.47%	11,557	15,000	77.05%	35,000	202.84%	35,000	0.00%
Sewer lines	6130.005	93,075	200,000	46.54%	0	50,000	0.00%	15,000	∞	15,000	0.00%
Manholes	6140.005	30,921	70,000	44.17%	873	55,000	1.59%	55,000	6198.53%	55,000	0.00%
Generators	6200.005	2,663	4,000	66.58%	402	3,500	11.49%	3,500	769.95%	3,500	0.00%
General Repairs	6095.006	58,218	64,500	90.26%	26,252	59,000	44.49%	40,000	52.37%	40,000	0.00%
Electric Motors	6150.006	0	0	∞	80	0	∞	0	∞	0	∞
Microturbine R & M	6160.006	6,783	10,000	67.83%	0	10,000	0.00%	10,000	∞	10,000	0.00%
Plant Pumps	6190.006	0	0	∞	0	500	0.00%	500	∞	500	0.00%
Standby Generator	6200.006	35	15,000	0.23%	0	5,000	0.00%	2,500	∞	5,000	100.00%
Control Panels	6210.006	0	0	∞	0	0	∞	0	∞	0	∞
Instruments	6220.006	0	10,000	0.00%	845	8,000	10.56%	8,000	847.22%	8,000	0.00%
Boiler Repairs	6230.006	925	0	∞	7,660	3,900	196.40%	4,500	-41.25%	4,700	4.44%
Lab Equipment	6240.006	12,777	13,750	92.92%	1,829	15,000	12.19%	17,000	829.42%	17,000	0.00%
Pretreatment	6245.004	55,855	41,000	136.23%	32,250	50,000	64.50%	50,000	55.04%	30,000	-40.00%
Headworks - Primary	6250.006	1,651	7,750	21.31%	0	4,750	0.00%	4,750	∞	4,750	0.00%
IPS/EPS/DAF	6260.006	7,509	8,400	89.40%	40,181	5,700	704.93%	5,700	-85.81%	5,700	0.00%
Effluent/Outfall		17,759	9,500	186.94%	13,912	25,000	55.65%	35,000	151.58%	25,000	-28.57%
Disinfection (Hypo/SBS/CDC)	6270.006	13,460	33,000	40.79%	35,747	22,000	162.49%	32,000	-10.48%	27,000	-15.63%
Solids Trmt (Dewatering/DIG)	6280.006	37,447	63,100	59.35%	28,131	48,000	58.61%	33,000	17.31%	23,000	-30.30%
Aeration - Secondary	6300.006	32,570	100,500	32.41%	22,226	47,000	47.29%	27,000	21.48%	27,000	0.00%

**Carmel Area Wastewater District
Consolidated Departmental Operating Budget 2021-22**

Description	Acct	2019-20			2020-21			Proposed 2021-22 Budget	% Chg. Prior Yr. Actual	Projected 2022-23 Budget	% Chg. Prior Yr Budget
		Actual	Budget	% of Budget	Actual	Budget	% of Budget				
Plant Utilities(1PS/3PS/StormF	6315.004	2,575	82,000	3.14%	5,467	50,000	10.93%	25,000	357.30%	25,000	0.00%
Buildings	6320.006	19,110	30,000	63.70%	5,576	30,000	18.59%	15,000	169.01%	15,000	0.00%
<i>Total Repairs & Maint</i>		445,012	814,000	54.67%	276,845	594,850	46.54%	468,450	69.21%	426,150	-9.03%
Utilities											
Electricity	6352.006	254,037	349,790	72.63%	267,838	374,650	71.49%	360,745	34.69%	377,773	4.72%
Co-Gen Non Energy	6359.006	492	0	<u>∞</u>	3,122	0	<u>∞</u>	4,300	37.73%	4,300	0.00%
Gas	6360.006	47,217	45,200	104.46%	20,080	46,962	42.76%	33,373	66.20%	33,476	0.31%
Propane	6370.006	553	1,600	34.59%	1,937	1,800	107.64%	2,200	13.55%	2,200	0.00%
Water	6380.006	9,901	16,690	59.32%	9,720	14,090	68.98%	11,800	21.40%	11,912	0.95%
Garbage	6385.006	641	2,675	23.94%	661	2,175	30.40%	2,250	240.24%	2,280	1.33%
Cable television	6390.006	995	950	104.78%	1,008	1,000	100.79%	1,200	19.06%	1,200	0.00%
<i>Total Utilities</i>		313,836	416,905	75.28%	304,366	440,677	69.07%	415,868	36.63%	433,141	4.15%
Telephone											
Fixed Costs	6392.006	29,246	27,500	106.35%	27,157	39,345	69.02%	31,200	14.89%	31,395	0.63%
Cellular Phones	6393.006	8,503	10,800	78.73%	18,125	10,750	168.60%	14,000	-22.76%	14,105	0.75%
Repair to Lines	6394.006	31	2,000	1.56%	0	0	<u>∞</u>	0	<u>∞</u>	0	<u>∞</u>
<i>Total Telephone</i>		37,780	40,300	93.75%	45,281	50,095	90.39%	45,200	-0.18%	45,500	0.66%
Travel & Training											
Employee Training	6420.006	32,790	55,811	58.75%	6,163	50,340	12.24%	28,935	369.50%	33,000	14.05%
Conferences	6430.006	8,537	24,630	34.66%	1,365	25,910	5.27%	22,350	1537.36%	26,200	17.23%
Business meetings	6440.006	3,570	3,200	111.57%	315	3,450	9.12%	3,650	1059.83%	3,650	0.00%
<i>Total Travel & Meetings</i>		44,897	83,641	53.68%	7,843	79,700	9.84%	54,935	600.46%	62,850	14.41%
Permitting											
State Water Resource Control	6470.005	2,625	2,500	105.00%	2,848	2,700	105.48%	2,950	3.58%	3,000	1.69%
MUAPCB	6480.005	3,191	3,250	98.18%	3,190	3,250	98.15%	3,200	0.31%	3,300	3.13%
Regional Water Quality Board	6470.006	0	25,000	0.00%	28,198	25,000	112.79%	25,000	-11.34%	25,000	0.00%
Central Coast RWQCB	6475.006	17,616	20,000	88.08%	0	0	<u>∞</u>	0	<u>∞</u>	0	<u>∞</u>
Air Pollution Control Permit	6480.006	7,685	4,000	192.13%	4,444	6,500	68.37%	3,500	-21.24%	3,850	10.00%
Air Resources Board-PERP	6485.006	0	0	<u>∞</u>	0	0	<u>∞</u>	0	<u>∞</u>	0	<u>∞</u>
Environmental Health Permit	6490.006	1,799	3,800	47.34%	0	3,800	0.00%	2,500	<u>∞</u>	2,500	0.00%
Dept. Food & Ag	6505.006	7,100	7,000	101.43%	7,100	7,000	101.43%	7,200	1.41%	7,300	1.39%
Lab Registration Fees	6510.006	2,666	4,500	59.23%	2,666	12,162	21.92%	10,000	275.16%	14,000	40.00%
<i>Total Permitting</i>		42,682	70,050	60.93%	48,446	60,412	80.19%	54,350	12.19%	58,950	8.46%

**Carmel Area Wastewater District
Consolidated Departmental Operating Budget 2021-22**

Description	Acct	2019-20			2020-21			Proposed 2021-22 Budget	% Chg. Prior Yr. Actual	Projected 2022-23 Budget	% Chg. Prior Yr Budget
		Actual	Budget	% of Budget	Actual	Budget	% of Budget				
Membership/Subscriptions											
LAFCO Admin Fee	6520.007	19,392	19,392	100.00%	20,000	22,000	90.91%	22,000	110.00%	22,500	2.27%
Employee Certification	6550.006	2,546	2,900	87.80%	3,747	4,250	88.16%	4,800	28.10%	4,850	1.04%
CWEA	6560.006	3,060	3,950	77.47%	3,072	4,100	74.93%	5,490	78.71%	5,490	0.00%
No. Am Soc for Trenchless	6565.005	0	0	∞	0	600	∞	300	∞	600	100.00%
CASA	6570.006	13,370	13,250	100.91%	13,600	23,722	57.33%	14,500	6.62%	15,000	3.45%
WEF	6580.006	664	1,580	42.03%	632	1,020	61.96%	1,100	74.05%	1,490	35.45%
Lab memberships	6585.006	38	300	12.50%	0	500	∞	400	∞	400	0.00%
WateReuse	6600.006	0	700	0.00%	0	300	0.00%	300	∞	300	0.00%
Other		12,849	11,675	110.06%	9,629	13,377	71.98%	13,425	39.42%	13,570	1.08%
Subscriptions/Publications	6640.006	3,539	2,950	119.98%	2,542	4,950	51.35%	4,950	94.72%	4,950	0.00%
<i>Total Membership/Subscrip.</i>		55,458	56,697	97.81%	53,222	74,819	71.13%	67,265	26.39%	69,150	2.80%
Safety											
First Aid Supplies	6710.006	6	0	∞	0	100	∞	200	∞	100	-50.00%
First Aid/Medical Services	6720.006	437	1,900	22.99%	0	1,250	0.00%	500	∞	500	0.00%
Fire Extinguisher Service	6730.006	2,976	1,820	163.49%	4,909	3,800	129.18%	2,300	-53.14%	2,300	0.00%
Safety Supplies/Emerg Respon:	6735.006	10,955	14,200	77.15%	9,353	10,000	93.53%	10,500	12.26%	10,500	0.00%
Emergency Response Supplies	6740.006	4,429	6,960	63.64%	3,663	4,960	73.86%	3,900	6.46%	3,900	0.00%
Uniforms/Boots/Gear	6750.006	4,216	8,500	49.60%	3,865	5,130	75.33%	4,000	3.50%	4,000	0.00%
Safety Training	6760.006	17,062	28,975	58.89%	22,970	26,075	88.09%	25,910	12.80%	25,910	0.00%
Policy & Procedures	6770.004	4,889	5,000	97.78%	0	3,000	∞	2,500	∞	2,500	0.00%
COVID supplies		27,963	0	∞	75,931	0	∞	100	-99.87%	100	0.00%
<i>Total Safety Expenses</i>		72,933	67,355	108.28%	120,691	54,315	222.21%	49,910	-58.65%	49,810	-0.20%
Other Expenses											
Rate Payer Claims	8930.007	0	2,500	0.00%	0	2,500	0.00%	2,500	∞	2,500	0.00%
CAWD Newsletter	8940.007	27,798	30,210	92.01%	39,500	32,000	123.44%	34,000	-13.92%	34,000	0.00%
Recruitment	8910.006	70	10,000	0.70%	1,667	10,000	16.67%	10,000	499.88%	10,000	0.00%
Legal notices	8920.006	741	4,200	17.64%	480	4,200	11.43%	4,500	837.50%	4,500	0.00%
Miscellaneous	8989.006	0	50,000	0.00%	3,405	0	∞	0	∞	0	∞
Contingency	8980.004	0	297,935	0.00%	0	0	∞	0	∞	0	∞
<i>Total Other Expense</i>		28,609	394,845	7.25%	45,052	48,700	92.51%	51,000	13.20%	51,000	0.00%
CAWD Subtotal		6,273,342	8,271,128	75.85%	7,200,009	8,035,192	89.61%	7,560,751	5.01%	7,786,947	2.99%

**Carmel Area Wastewater District
Consolidated Departmental Operating Budget 2021-22**

Description	Acct	2019-20			2020-21			Proposed 2021-22 Budget	% Chg. Prior Yr. Actual	Projected 2022-23 Budget	% Chg. Prior Yr Budget
		Actual	Budget	% of Budget	Actual	Budget	% of Budget				
Reclamation Project		573,988	471,938	121.62%	670,755	541,645	123.84%	611,410	-8.85%	629,293	2.92%
Final Subtotal		6,847,331	8,743,066	78.32%	7,870,763	8,576,837	91.77%	8,172,161	3.83%	8,416,240	2.99%
Depreciation Expense		2,669,000	2,669,000	100.00%	2,669,000	2,669,000	100.00%	2,669,000	0.00%	2,669,000	0.00%
Amortization Expense		0	4,860	0.00%	4,860	4,860	100.00%	4,860	0.00%	4,860	0.00%
Total Operating Expense		9,516,331	11,416,926	83.35%	10,544,623	11,250,697	93.72%	10,846,021	2.86%	11,090,100	2.25%

O & M Budget
Maintenance – Plant

**Carmel Area Wastewater District
Maintenance - Plant: 2021-22 Operating Expense Budget**

Description	Acct	2019-20			Estimated 2020-21			Proposed 2021-22 Budget	% Chg. Prior Yr. Actual	Projected 2022-23 Budget	% Chg. Prior Yr. Budget
		Actual	Budget	% of Budget	Actual	Budget	% of Budget				
Salaries	5030.004	403,156	487,461	82.7%	497,841	521,410	95.5%	484,358	-2.71%	504,553	4.17%
Salaries - Overtime	5035.004	2,901	20,000	14.5%	746	10,000	7.5%	3,500	369.17%	3,500	0.00%
<i>Total Salaries</i>		406,058	507,461	80.0%	498,587	531,410	93.8%	487,858	-2.15%	508,053	4.14%
Payroll Taxes	5045.004	29,078	37,260	78.0%	38,142	40,655	93.8%	37,321	-2.15%	38,866	4.14%
<i>Total Payroll Taxes</i>		29,078	37,260	78.0%	38,142	40,655	93.8%	37,321	-2.15%	38,866	4.14%
<i>Employee Benefits:</i>											
Health insurance	5070.004	44,260	34,585	128.0%	44,227	61,565	71.8%	61,434	38.91%	65,619	6.81%
Retirement Plan - CalPERS	5080.004	41,706	38,875	107.3%	204,655	49,932	409.9%	52,593	-74.30%	81,211	54.41%
Pension Contribution - SAM	5090.004	0	12,630	0.0%	0	0	∞	0	∞	0	∞
Workers Compensation	5100.004	14,134	27,600	51.2%	32,950	24,159	136.4%	24,145	-26.72%	25,119	4.03%
Life Insurance	5110.004	1,527	1,530	99.8%	677	1,782	38.0%	551	-18.57%	576	4.54%
PEHP	5120.004	6,242	6,245	100.0%	7,924	6,980	113.5%	7,010	-11.54%	7,286	3.94%
Dental Insurance/Claims	5130.004	5,876	3,600	163.2%	2,571	6,400	40.2%	5,000	94.46%	5,000	0.00%
Vision Insurance	5140.004	1,403	900	155.9%	1,678	1,152	145.7%	1,175	-29.99%	1,175	0.00%
Long Term Disability	5150.004	4,140	4,480	92.4%	4,255	5,026	84.7%	3,523	-17.21%	3,699	5.00%
HSAs contributions	5160.004	6,672	11,505	58.0%	5,489	9,725	56.4%	4,128	-24.80%	5,999	45.32%
HRA contributions	5165.004	539	0	∞	0	170	0.0%	0	∞	0	∞
Employee Assistance Program	5180.004	792	795	99.6%	500	815	61.3%	750	50.00%	750	0.00%
Employee Awards	5185.004	0	0	∞	130	0	∞	540	314.44%	130	-75.93%
Annual District picnic	5186.004	100	0	∞	352	0	∞	350	-0.57%	350	0.00%
Employee lunches	5187.004	0	300	0.0%	0	0	∞	0	∞	0	∞
Medical Exams	5200.004	2,719	500	543.7%	0	0	∞	250	∞	250	0.00%
<i>Total Employee Benefits</i>		130,109	143,545	90.6%	305,408	167,706	182.1%	161,449	-47.14%	197,164	22.12%
<i>Trucks & Autos</i>											
Gasoline	5310.004	0	1,200	0.0%	1,200	1,200	100.0%	1,200	0.00%	1,200	0.00%
Diesel	5320.004	0	200	0.0%	200	200	100.0%	500	150.00%	500	0.00%
Fuelmaster software	5325.004	110	0	∞	0	0	∞	0	∞	0	∞
Oil & Grease	5330.004	619	200	309.4%	177	300	58.9%	800	352.85%	800	0.00%
Tires, Batteries, Service	5340.004	432	1,500	28.8%	910	1,000	91.0%	1,200	31.82%	1,200	0.00%
Outside Repair Service	5345.004	352	3,000	11.7%	2,549	3,000	85.0%	1,000	-60.77%	1,000	0.00%
Repair Parts	5350.004	576	1,000	57.6%	552	600	92.0%	2,000	262.14%	1,000	-50.00%

**Carmel Area Wastewater District
Maintenance - Plant: 2021-22 Operating Expense Budget**

Description	Acct	2019-20			Estimated 2020-21			Proposed 2021-22 Budget	% Chg. Prior Yr. Actual	Projected 2022-23 Budget	% Chg. Prior Yr. Budget
		Actual	Budget	% of Budget	Actual	Budget	% of Budget				
Tools	5355.004	0	2,000	0.0%	0	300	0.0%	1,000	∞	500	-50.00%
Vehicle Accessories	5360.004	0	500	0.0%	100	100	100.0%	0	-100.00%	0	∞
Driver medical exams	5370.004	0	0	∞	0	170	0.0%	0	∞	0	∞
Smog Check - Vehicles	5380.004	120	240	50.0%	0	200	0.0%	280	∞	210	-25.00%
Cleaning & detailing	5410.004	0	1,000	∞	0	600	0.0%	200	∞	200	0.00%
Paint & fluids	5420.004	0	500	0.0%	0	0	∞	0	∞	0	∞
Waste oil & coolants disposal	5440.004	0	500	0.0%	0	200	0.0%	150	∞	150	0.00%
<i>Total Trucks & Autos</i>		2,208	11,840	18.7%	5,688	7,870	72.3%	8,330	46.44%	6,760	-18.85%
<i>Property/Liability/Auto Insurance</i>											
Auto insurance	5450.004	12,207	300	4069.0%	16,703	13,200	126.5%	1,800	-89.22%	2,000	11.11%
<i>Engineering Fees</i>											
Consulting Fees	5500.004	0	0	∞	50,000	75,000	66.7%	25,000	-50.00%	0	∞
<i>Office Supplies & Service</i>											
Computers & Equip	5540.004	14,539	2,500	581.6%	0	5,000	0.0%	1,400	∞	1,500	7.14%
Furnishings & fixtures	5545.004	41	500	8.1%	667	300	222.3%	0	-100.00%	0	∞
Paper & printing	5550.004	130	300	43.5%	537	300	179.1%	300	-44.16%	300	0.00%
Postage & shipping	5560.004	5	100	4.6%	0	100	0.0%	0	∞	0	∞
Office supplies	5570.004	576	300	192.0%	614	550	111.6%	550	-10.40%	550	0.00%
<i>Total Office Supplies & Svc.</i>		15,291	3,700	413.3%	1,818	6,250	29.1%	2,250	23.76%	2,350	4.44%
<i>Operating Supplies</i>											
Generator fuel	5675.004	0	2,000	0.0%	2,500	2,500	100.0%	500	-80.00%	500	0.00%
Lubricants & packing	5680.004	730	1,000	73.0%	3,534	500	706.8%	2,000	-43.41%	2,000	0.00%
Electrical Supplies	5690.004	10,624	40,000	26.6%	5,515	30,000	18.4%	10,000	81.33%	10,000	0.00%
Laboratory	5700.004	844	0	∞	0	0	∞	0	∞	0	∞
Paint & fluids	5710.004	0	1,000	0.0%	550	200	274.9%	2,000	263.80%	2,000	0.00%
Personnel supplies	5740.040	104	0	∞	0	0	∞	0	∞	0	∞
Radios & supplies	5745.004	1,034	1,000	103.4%	0	400	0.0%	2,000	∞	400	-80.00%
Welding	5750.004	44	1,000	4.4%	433	500	86.5%	200	-53.78%	200	0.00%
Hand tools	5780.004	5,273	5,000	105.5%	16,963	5,000	339.3%	7,500	-55.79%	7,500	0.00%
General supplies	5790.004	22,377	15,000	149.2%	22,975	12,000	191.5%	23,000	0.11%	23,000	0.00%

**Carmel Area Wastewater District
Maintenance - Plant: 2021-22 Operating Expense Budget**

Description	Acct	2019-20			Estimated 2020-21			Proposed 2021-22 Budget	% Chg. Prior Yr. Actual	Projected 2022-23 Budget	% Chg. Prior Yr. Budget
		Actual	Budget	% of Budget	Actual	Budget	% of Budget				
COVID Safety		0	0	∞	20,000	50,000	40.0%	10,000	-50.00%	10,000	0.00%
<i>Total Operating Supplies</i>		41,029	66,000	62.2%	72,470	101,100	71.7%	57,200	-21.07%	55,600	-2.80%
<i>Contractual Services</i>											
Network Services	5830.004	12,025	0	∞	11,125	10,000	111.3%	14,000	25.84%	16,000	14.29%
Microturbine/Gas Conditioning Service	5850.004	32,260	3,000	1075.3%	2,500	3,000	83.3%	4,000	60.00%	4,000	0.00%
Electrical Service	5855.004	82,208	150,000	54.8%	61,188	120,000	51.0%	150,000	145.14%	150,000	0.00%
Mechanical Service	5856.004	13,993	60,000	23.3%	500	25,000	2.0%	15,000	2900.00%	15,000	0.00%
HVAC Service	5857.004	0	25,000	0.0%	2,500	20,000	12.5%	5,000	100.00%	5,000	0.00%
Systems Integrator	5858.004	120,377	200,000	60.2%	240,845	225,000	107.0%	200,000	-16.96%	200,000	0.00%
Equipment service (carts, lifts, forklift, boiler)	5859.004	302	12,000	2.5%	3,596	3,000	119.9%	5,000	39.06%	5,000	0.00%
HR Consulting	5885.004	4,597	11,100	41.4%	9,346	11,100	84.2%	14,000	49.80%	14,000	0.00%
Equipment rental	5890.004	0	7,000	0.0%	0	5,000	0.0%	4,000	∞	4,000	0.00%
Janitorial	5900.040	9,508	11,000	86.4%	10,860	11,000	98.7%	11,550	6.35%	12,200	5.63%
Laundry	5940.004	2,783	3,500	79.5%	3,039	3,600	84.4%	3,800	25.03%	4,100	7.89%
Landscape Maintenance	5980.004	8,296	6,000	138.3%	4,850	8,000	60.6%	10,000	106.19%	10,000	0.00%
Plant tree trimming	5982.004	2,250	70,000	3.2%	0	180,000	0.0%	180,000	∞	180,000	0.00%
Hazard/Green Waste Disposal	5990.004	45	1,000	4.5%	0	0	∞	0	∞	0	∞
Pest Control	6010.004	3,276	3,000	109.2%	3,276	3,000	109.2%	6,750	106.04%	7,000	3.70%
Instrument maintenance	6020.004	620	1,000	62.0%	21,143	1,000	2114.3%	1,000	-95.27%	1,000	0.00%
Hoist Certification	6030.004	2,042	2,500	81.7%	0	2,700	0.0%	2,500	∞	2,700	8.00%
Fuel tank filtering & cleaning	6035.004	0	2,500	0.0%	118	0	∞	3,800	3120.34%	750	-80.26%
<i>Total Contractual Services</i>		294,583	568,600	51.8%	374,886	631,400	59.4%	630,400	68.16%	630,750	0.06%
<i>Repairs & Maintenance</i>											
General Repairs	6095.004	34,277	50,000	68.6%	15,994	40,000	40.0%	20,000	25.05%	20,000	0.00%
Motors	6150.004	0	0	∞	80	0	∞	0	-100.00%	0	∞
Microturbine R & M	6160.004	6,783	10,000	67.8%	0	10,000	0.0%	10,000	∞	10,000	0.00%
Standby Generator	6200.004	35	15,000	0.2%	0	5,000	0.0%	2,500	∞	5,000	100.00%
Boiler Repairs	6230.004	925	0	∞	7,660	3,900	196.4%	4,500	-41.25%	4,700	4.44%
Pretreatment (Influent/Headworks/Primary)	6245.004	55,855	41,000	136.2%	32,250	50,000	64.5%	50,000	55.04%	30,000	-40.00%
Primary Treatment	6250.004	638	0	∞	0	0	∞	0	∞	0	∞
IPS/EPS/DAF	6260.004	(3)	0	∞	36,168	0	∞	0	-100.00%	0	∞

**Carmel Area Wastewater District
Maintenance - Plant: 2021-22 Operating Expense Budget**

Description	Acct	2019-20			Estimated 2020-21			Proposed 2021-22 Budget	% Chg. Prior Yr. Actual	Projected 2022-23 Budget	% Chg. Prior Yr. Budget
		Actual	Budget	% of Budget	Actual	Budget	% of Budget				
Effluent/Outfall	6265.004	0	0	∞	13,912	20,000	69.6%	30,000	115.64%	20,000	-33.33%
Disinfection (Hypo/SBS/CDC)	6270.004	9,518	25,000	38.1%	26,049	15,000	173.7%	25,000	-4.03%	20,000	-20.00%
Solids Trmt (Dewatering/DAF/Digester)	6280.004	33,439	55,000	60.8%	14,711	40,000	36.8%	25,000	69.94%	15,000	-40.00%
Secondary Treatment	6300.004	15,651	90,000	17.4%	12,053	40,000	30.1%	20,000	65.94%	20,000	0.00%
Demolition	6310.004	0	0	n/a	0	0	n/a	0	∞	0	n/a
Plant Utilities (1PS/3PS/StormPS/Switchgear)	6315.004	2,575	82,000	3.1%	5,467	50,000	10.9%	25,000	357.30%	25,000	0.00%
Buildings	6320.004	19,110	30,000	63.7%	4,978	30,000	16.6%	15,000	201.34%	15,000	0.00%
<i>Total Maint & Repairs</i>		178,804	398,000	44.9%	169,321	303,900	55.7%	227,000	34.07%	184,700	-18.63%
<i>Utilities</i>											
Telephone - fixed costs	6392.004	2,856	1,500	190.4%	2,747	4,000	68.7%	2,700	-1.70%	2,700	0.00%
Telephone - Cell service	6393.004	532	600	88.6%	1,656	600	275.9%	2,000	20.81%	2,000	0.00%
Telephone - Repairs & Equipment	6394.004	0	0	∞	0	0	∞	0	∞	0	∞
<i>Total Utilities</i>		3,388	2,100	161.3%	4,402	4,600	95.7%	4,700	6.76%	4,700	0.00%
<i>Travel & Training</i>											
Employee Training	6420.004	3,594	10,000	35.9%	1,123	7,000	16.0%	6,000	434.28%	6,000	0.00%
Conferences	6430.004	1,026	2,000	51.3%	0	2,000	0.0%	0	∞	0	∞
Business meetings	6440.004	338	400	84.5%	126	400	31.6%	400	216.86%	400	0.00%
<i>Total Travel & Meetings</i>		4,958	12,400	40.0%	1,249	9,400	13.3%	6,400	412.31%	6,400	0.00%
<i>Permitting</i>											
Air Pollution Control Permit	6480.004	0	0	∞	4,444	6,500	68.4%	3,500	-21.24%	3,850	10.00%
<i>Total Permitting</i>		0	0	∞	4,444	6,500	68.4%	3,500	-21.24%	3,850	10.00%
<i>Membership/Subscriptions</i>											
Employee Certification	6550.004	494	1,200	41.2%	615	1,200	51.3%	1,600	160.16%	1,600	0.00%
CWEA	6560.004	956	600	159.3%	768	600	128.0%	800	4.17%	800	0.00%
WEF	6580.004	0	360	0.0%	0	0	∞	0	∞	0	∞
MDS Online	6605.004	932	0	∞	2,000	2,400	83.3%	2,400	20.00%	2,400	0.00%
Subscriptions/Publications	6640.004	0	200	0.0%	0	0	∞	0	∞	0	∞
<i>Total Membership/Subscrip.</i>		2,382	2,360	100.9%	3,383	4,200	80.5%	4,800	41.89%	4,800	0.00%
<i>Safety</i>											
First Aid Supplies	6710.004	0	0	∞	0	100	0.0%	200	∞	100	-50.00%

**Carmel Area Wastewater District
Maintenance - Plant: 2021-22 Operating Expense Budget**

Description	Acct	2019-20			Estimated 2020-21			Proposed 2021-22 Budget	% Chg. Prior Yr. Actual	Projected 2022-23 Budget	% Chg. Prior Yr. Budget
		Actual	Budget	% of Budget	Actual	Budget	% of Budget				
First Aid/Medical Services	6720.004	437	900	48.5%	0	750	0.0%	0	∞	0	∞
Fire Extinguisher Service	6730.004	2,613	1,200	217.7%	2,000	3,000	66.7%	1,600	-20.00%	1,600	0.00%
Safety Supplies/Emerg Response	6735.004	7,157	10,700	66.9%	7,671	6,500	118.0%	6,500	-15.27%	6,500	0.00%
Emergency Response Supplies	6740.004	3,705	5,000	74.1%	3,663	3,000	122.1%	2,000	-45.41%	2,000	0.00%
Uniforms/Boots/Gear	6750.004	2,970	6,000	49.5%	1,956	3,000	65.2%	2,000	2.23%	2,000	0.00%
Safety Training	6760.004	9,440	23,400	40.3%	16,421	20,000	82.1%	18,000	9.62%	18,000	0.00%
Policies and procedures	6770.004	1,111	5,000	22.2%	0	3,000	0.0%	2,500	∞	2,500	0.00%
Virus supplies		8,884	0	∞	12,708	0	∞	100	-99.21%	100	0.00%
<i>Total Safety Expenses</i>		36,316	52,200	69.6%	44,420	39,350	112.9%	32,900	-25.93%	32,800	-0.30%
<i>Other Expenses</i>											
Recruitment	8910.004	0	0	∞	1,667	5,000	33.3%	5,000	199.94%	5,000	0.00%
Contingencies	8980.004	0	71,200	0.0%	0	0	∞	0	∞	0	∞
<i>Total Other Expense</i>		0	71,200	0.0%	1,667	5,000	33.3%	5,000	199.94%	5,000	0.00%
CAWD Subtotal		1,156,410	1,876,966	61.61%	1,592,589	1,947,541	81.8%	1,695,908	6.49%	1,683,793	-0.71%
Total Operating Expense		1,156,410	1,876,966	61.61%	1,592,589	1,947,541	81.8%	1,695,908	6.49%	1,683,793	-0.71%

**Carmel Area Wastewater District
Maintenance - Plant: 2021-22 Operating Expense Budget**

Description	Comments
<i>Salaries</i>	Maintenance Salaries will increase due to an additional employee 2 days per week, 1.1% Cost of Living and anticipated step increase for one employee. Maintenance is expected to average 5 hours per week in collections.
<i>Employee benefits</i>	Benefits will increase due to an additional employee 2 days per week. In FY 2020-21 the District paid down its CalPERS Unfunded Accrued Liability in the amount of \$725K for the Classic Plan and \$56K for PEPRA. The District is opening a Section 115 Trust to assist in paying down future pension unfunded accrued liability balances.
<i>Trucks and Autos</i>	<p>The overall strategy is that anything related to plant vehicles is included in the Maintenance budget. The plant vehicles will increase from 2 to 3 trucks once the Collections rounds truck is transferred from Collections to Maintenance. The increase in Maintenance staffing will allow Maintenance to be performed in-house on all the vehicles except specialized maintenance. This decreases the cost of outside service and increases the cost of repair parts. (46.44% of prior year actual)</p> <p><i>Gasoline</i> : Collections department orders gasoline for treatment plant filling station and then cost is reconciled at year end for treatment plant fuel that was consumed. The majority of the fuel is consumed by Collections.</p> <p><i>Diesel</i> : Collections department orders diesel for treatment plant filling station and then cost will be reconciled at year end for treatment plant fuel that was consumed. The majority of the fuel is consumed by Collections.</p> <p><i>Outside repair service</i> : Decreased since basic maintenance will be completed in-house with addition of employee 2 days per week. Advanced diagnostics may still be outsourced.</p> <p><i>Repair parts</i> : Increased to account for in-house maintenance since the majority of parts were included as part of outside repair.</p>
<i>Property/Liability/Auto Insurance</i>	Vehicle insurance only is charged to Maintenance Dept. Liability and Property insurance are applied to other departments. U.S. Wildfires, Storms, Civil Disorders and ' <i>Social Inflation</i> ' have created intense pressure on insurers in North America, causing insured losses in the billions, and while COVID -19 has of course added new types of losses to the mix, more so, it has created additional uncertainty which is adding to an already difficult insurance marketplace. Initial cost estimates for CSRMA's various policy renewals were expected to be up in the 10% range. In light of the above market pressure, and adverse loss development in the Pooled Liability Program itself, the Program Administrators are writing to update our estimate of the renewal cost, and we are now of the opinion that it is possible that an increase could come in ultimately more in the range of at a 15% - 25% increase over the current, expiring program. This is the result of a combination of insurance market conditions and loss experience in the Program. While the Program is not experiencing an increase in the frequency (number) of claims, we are seeing an increase in the severity (cost) of claims.
<i>Engineering Fees</i>	Treatment plant engineering fees to be included in operations budget or individual project budgets. Currently there is a Stormwater Evaluation at the facility that may carry forward into 2021-22

**Carmel Area Wastewater District
Maintenance - Plant: 2021-22 Operating Expense Budget**

Description	Comments
<i>Office Supplies and Service</i>	Staff continues to use computers and mobile devices to complete their tasks. Staff has moved away from shared devices due to COVID and each staff member has an assigned work station and separate office space.
<i>Computers & Equip</i>	Lifecycle replacement of computers has only one computer designated in fiscal year 21-22
<i>Operating Supplies</i>	<p>Consumable items that are used as part of a maintenance task of repair. Approach to oil is to sample larger units (i.e. large pumps) rather than change oil and to change oil on smaller units regularly. Some oil and lubricants were previously applied to assets under repair parts but staff has consolidated types of lubricants and now budgets as a consumable item. This effort is to minimize inventory. Staff anticipates increased painting of equipment and structures with increase in staffing.</p> <p><i>Generator Fuel</i>: Staff budgeted expecting increased generator fuel consumption for PG&E Public Power Safety Shutoffs. Expected shutoffs have not occurred.</p> <p><i>Lubriants & Packing</i>: Shift from lubricants for specific equipment to more general lubricants.</p> <p><i>Electrical Supplies</i>: Electrical rehabilitation work is decreasing as many of the plant systems have been upgraded.</p> <p><i>Paint & Fluids</i>: In-house painting increase expected.</p> <p><i>Radios & Supplies</i>: Electrical/mechanical rehabilitation project will require increased number of contractors onsite. Current contractor radios are in poor condition and will be replaced.</p>
<i>Contractual Services</i>	<p>Anticipate electrical removal and investigation in preparation of, and during, Electrical and Mechanical Rehabilitation project.</p> <p><i>Network Services</i>: Internet Technology support, Micosoft Office 365 licensing, Multifactor authentication licensing for network security, licensing for wireless access points.</p> <p><i>Microturbine/Gas Conditioning Service</i>: Includes maintenance of the 30kW generator and carbon scrubber media analysis.</p> <p><i>Electrical Service</i>: Electrical work decreased in fiscal year 20-21 because many assets have been upgraded and brought to new condition service level. Fiscal year 21-22 will increase as part of electrical and mechanical rehabilitation project (aka Phase II) support.</p> <p><i>Mechanical Service</i>: Targeted replacement of valves and aeration piping throughout the facility. Staff anticipates more work completed in-house vs. outside contractors.</p> <p><i>HVAC Service</i>: Cost of service to perform preventative maintenance on air conditioning units. We have also shifted to staff labor to complete exhaust fan maintenance.</p>

**Carmel Area Wastewater District
Maintenance - Plant: 2021-22 Operating Expense Budget**

Description	Comments
	<p><i>Systems Integrator:</i> Continued improvement on the Supervisory Control and Data Acquisition System. Budget includes programming for new equipment. Focus will be trends, reporting and process optimization.</p> <p><i>Pest Control:</i> Increased the service to account for more rodents around buildings and storage areas.</p> <p><i>Fuel tank filtering & cleaning:</i> Bi-annual service to filter standby generator diesel tank. Testing of fuel is performed every year.</p>
Repairs & Maintenance	<p>Overall budget has been balanced with staffing levels so that there is sufficient funds to complete the required workload. COVID has had some effect on work being accomplished so staff has focused on preventive maintenance and repairs. The work that was deferred is equipment replacement such as older valves and process improvements work.</p> <p><i>General Repairs :</i> Staff is taking a more targeted approach to each area which reduces general repairs.</p> <p><i>Effluent/Outfall :</i> Staff identified needed repairs for effluent pumps during the motor replacement. Parts have been ordered to recondition one pump but the other pump is still in need of parts.</p> <p><i>Disinfections (Hypo/SBS/CDC) :</i> Staff is replacing some of the piping with fused fittings. This is more reliable leads to less repairs than glued fittings. The rebuild kits for the metering pumps have longer than anticipated lead times so stock levels have been increased.</p> <p><i>Solids Trmt (Dewatering/DAF/Digester) :</i> This process area has proven to be ultra reliable with very little need for repair parts. Budget was decreased.</p> <p><i>Secondary Treatments :</i> Most of the equipment has been upgraded or reconditioned for this area. Budget was decreased.</p> <p><i>Plant Utilities (1PS/3PS/Storm PS/Switchgear) :</i> Minimal corrective maintenance has been required for the plant utilities due to the replacement of much of the equipment. Budget was decreased.</p> <p><i>Buildings :</i> Staff is limited to only minor repairs for buildings so budget was decreased. Larger cost items such as roofs will be included in projects.</p>
Utilities	<p>Use of mobile devices and technology continues to increase. COVID has limited on-site visits from vendors so staff has increased use of technology to obtain vendor support.</p> <p><i>Telephone - Fixed Costs :</i> Fiber Optic of the treatment plant is budgeted under operations. Budget was decreased to reflect change.</p>

O & M Budget
Collections Dept.

**Carmel Area Wastewater District
Collections Department: 2021-22 Operating Expense Budget**

Description	Acct	2019-20			Estimated 2020-21			Proposed 2021-22 Budget	% Chg. Prior Yr. Actual	Projected 2022-23 Budget	% Chg. Prior Yr. Budget
		Actual	Budget	% of Budget	Actual	Budget	% of Budget				
Salaries	5030.005	506,405	456,565	110.92%	529,723	535,131	98.99%	535,815	1.15%	553,229	3.25%
Salaries - Overtime	5035.005	9,193	7,200	127.68%	15,817	10,000	158.17%	10,000	-36.78%	10,000	0.00%
Salaries - Standby	5040.005	14,560	14,560	100.00%	17,259	17,400	99.19%	17,400	0.82%	17,400	0.00%
<i>Total Salaries</i>		530,158	478,325	110.84%	562,799	562,531	100.05%	563,215	0.07%	580,629	3.09%
Payroll Taxes	5045.005	39,004	36,570	106.66%	43,054	43,035	100.05%	43,086	0.07%	44,418	3.09%
<i>Employee Benefits:</i>											
Health Insurance	5070.005	75,162	74,500	100.89%	62,774	69,815	89.91%	90,565	44.27%	97,355	7.50%
CalPERS retirement	5080.005	40,239	40,200	100.10%	232,962	48,270	482.62%	53,436	-77.06%	84,910	58.90%
SAM retirement	5090.005	0	10,490	0.00%	0	0	∞	0	∞	0	∞
Worker's Compensation	5100.005	13,427	25,855	51.93%	32,280	21,525	149.96%	23,360	-27.63%	23,911	2.36%
Life insurance	5110.005	1,290	1,530	84.33%	564	1,527	36.94%	551	-2.30%	576	4.54%
PEHP insurance	5120.005	6,288	5,600	112.29%	6,366	6,240	102.03%	6,788	6.62%	6,944	2.30%
Dental reimbursements	5130.005	5,809	6,900	84.18%	3,344	7,300	45.81%	7,300	118.29%	7,300	0.00%
Vision insurance	5140.005	1,323	1,500	88.20%	1,323	1,500	88.20%	1,765	33.41%	1,765	0.00%
Disability insurance	5150.005	4,001	4,180	95.72%	3,309	4,460	74.20%	4,229	27.80%	4,440	4.99%
HSA contributions	5160.005	7,586	9,540	79.52%	9,122	15,460	59.00%	7,248	-20.54%	6,959	-3.99%
HRA contributions	5165.005	0	0	∞	0	170	0.00%	0	∞	0	∞
Employee Assistance Program	5180.005	792	795	99.58%	500	815	61.33%	750	50.06%	750	0.00%
Employee Awards	5185.005	0	0	∞	162	0	∞	150	-7.18%	150	0.00%
Employee lunches	5187.005	100	300	33.29%	352	300	117.38%	300	-14.81%	300	0.00%
Medical exams	5200.005	1,256	500	251.17%	0	1,200	0.00%	1,200	∞	0	-100.00%
<i>Total Employee Benefits</i>		157,272	181,890	86.47%	353,058	178,582	197.70%	197,642	-44.02%	235,360	19.08%
<i>Trucks & Autos</i>											
Gasoline	5310.005	4,448	7,000	63.54%	6,800	7,000	97.14%	7,500	10.29%	7,500	0.00%
Diesel	5320.005	12,851	22,000	58.41%	5,929	22,000	26.95%	6,500	9.63%	6,500	0.00%
Fuelmaster software	5325.005	440	550	80.00%	550	560	98.21%	550	0.00%	550	0.00%
Oil & filters	5330.005	235	500	46.96%	153	500	30.56%	600	292.67%	650	8.33%
Tires & batteries	5340.005	3,891	2,500	155.65%	1,229	3,000	40.96%	4,000	225.50%	4,500	12.50%
Outside repair service	5345.005	14,636	6,500	225.17%	9,478	8,500	111.50%	4,000	-57.80%	3,000	-25.00%
Repair parts	5350.005	3,316	5,000	66.32%	3,523	2,000	176.13%	5,000	41.94%	5,000	0.00%
Tools	5355.005	266	500	53.16%	0	500	0.00%	500	∞	500	0.00%

**Carmel Area Wastewater District
Collections Department: 2021-22 Operating Expense Budget**

Description	Acct	2019-20			Estimated 2020-21			Proposed 2021-22 Budget	% Chg. Prior Yr. Actual	Projected 2022-23 Budget	% Chg. Prior Yr. Budget
		Actual	Budget	% of Budget	Actual	Budget	% of Budget				
Vehicle accessories	5360.005	2,294	200	1146.83%	12,072	1,500	804.79%	8,000	-33.73%	8,000	0.00%
Driver medical exam	5370.005	0	1,100	0.00%	400	0	∞	0	-100.00%	400	∞
Smog fees	5380.005	120	100	120.00%	260	400	65.00%	250	-3.85%	450	80.00%
DATCO fees	5400.005	708	970	72.96%	878	2,100	41.79%	1,000	13.96%	1,000	0.00%
Cleaning & detailing	5410.005	0	200	0.00%	0	1,000	0.00%	500	∞	500	0.00%
Paint & fluids	5420.005	10	0	∞	0	300	0.00%	300	∞	300	0.00%
Waste oil & coolant disposal	5440.005	0	300	0.00%	0	300	0.00%	300	∞	300	0.00%
<i>Total Trucks & Autos</i>		48,512	47,420	102.30%	41,270	49,660	83.11%	39,000	-5.50%	39,150	0.38%
<i>Property/Liability Insurance</i>											
Vehicle Insurance	5450.005	5,987	6,300	95.03%	7,164	6,300	113.71%	7,100	-0.89%	7,100	0.00%
General Liability	5480.005	15,791	16,000	98.70%	34,865	16,000	217.91%	35,000	0.39%	35,000	0.00%
<i>Total Insurance</i>		21,778	22,300	97.66%	42,029	22,300	188.47%	42,100	0.17%	42,100	0.00%
<i>Engineering Fees</i>											
Consulting Fees	5500.005	54,860	195,000	28.13%	36,451	25,000	145.80%	50,000	37.17%	50,000	0.00%
<i>Total Engineering Fees</i>		54,860	195,000	28.13%	36,451	25,000	145.80%	50,000	37.17%	50,000	0.00%
<i>Office Supplies & Service</i>											
Computers & equipment	5540.005	4,708	3,800	123.90%	5,227	4,800	108.91%	6,000	14.78%	4,800	-20.00%
Furnishings & fixtures	5545.005	0	200	0.00%	0	1,000	0.00%	800	∞	500	-37.50%
Paper & printing	5550.005	267	6,500	4.11%	225	2,000	11.25%	1,500	566.67%	1,500	0.00%
Postage & shipping	5560.005	0	200	0.00%	165	200	82.50%	100	-39.39%	100	0.00%
Office Supplies	5570.005	474	1,100	43.12%	180	1,100	16.36%	1,000	455.56%	500	-50.00%
<i>Total Office Supplies & Svc.</i>		5,523	11,800	46.81%	5,797	9,100	63.71%	9,400	62.14%	7,400	-21.28%
<i>Operating Supplies</i>											
Electrical Supplies	5690.005	2,229	400	557.15%	14,842	400	3710.50%	400	-97.30%	400	0.00%
Paint & fluids	5710.005	8,511	1,800	472.81%	0	4,800	0.00%	9,000	∞	9,000	0.00%
Janitorial Supplies	5730.005	0	300	0.00%	0	300	0.00%	300	∞	300	0.00%
Personnel Supplies	5740.005	617	0	∞	549	0	∞	500	-8.89%	500	0.00%
Hand Tools	5780.005	409	0	∞	1,051	3,500	30.02%	1,000	-4.82%	1,000	0.00%
General Operating Supplies	5790.005	19,154	18,500	103.53%	10,423	22,000	47.38%	18,000	72.69%	18,000	0.00%

**Carmel Area Wastewater District
Collections Department: 2021-22 Operating Expense Budget**

Description	Acct	2019-20			Estimated 2020-21			Proposed 2021-22 Budget	% Chg. Prior Yr. Actual	Projected 2022-23 Budget	% Chg. Prior Yr. Budget
		Actual	Budget	% of Budget	Actual	Budget	% of Budget				
COVID Safety		0	0	∞	0	50,000	0.00%	10,000	∞	3,000	-70.00%
<i>Total Operating Supplies</i>		30,919	21,000	147.23%	26,864	81,000	33.17%	39,200	45.92%	32,200	-17.86%
<i>Contractual Services</i>											
Network Administration	5830.005	24,911	23,500	106.00%	31,491	28,900	108.97%	32,000	1.62%	33,000	3.13%
Electrical Services	5855.005	14,840	50,000	29.68%	29,414	20,000	147.07%	20,000	-32.01%	15,000	-25.00%
System Integrator	5858.005	0	20,000	0.00%	14,000	20,000	70.00%	10,000	-28.57%	10,000	0.00%
Root foaming	5865.005	65,147	64,000	101.79%	66,654	65,000	102.54%	66,500	-0.23%	66,500	0.00%
Pump station monitoring	5870.005	12,143	12,600	96.37%	6,000	12,000	50.00%	7,500	25.00%	13,000	73.33%
Collect Sys capacity monitor	5875.005	0	8,500	0.00%	0	8,500	0.00%	17,000	∞	8,500	-50.00%
Alarm systems	5880.005	326	650	50.17%	326	650	50.17%	300	-8.01%	300	∞
HR consulting	5885.005	4,597	11,100	41.42%	9,347	11,100	84.21%	11,000	17.68%	11,000	0.00%
Equipment rental	5890.005	0	400	0.00%	0	400	0.00%	400	∞	300	-25.00%
Underground Service Alert	5930.005	1,860	3,000	62.00%	6,156	3,500	175.88%	3,500	-43.14%	3,000	-14.29%
Laundry	5940.005	3,906	5,000	78.11%	4,428	5,500	80.50%	5,500	24.22%	5,750	4.55%
Other Special Studies	6070.005	0	0	∞	0	0	∞	0	∞	0	∞
<i>Total Contractual Services</i>		127,730	198,750	64.27%	167,816	175,550	95.59%	173,700	3.51%	166,350	-4.23%
<i>Repairs & Maintenance</i>											
General Repairs	6095.005	172	0	∞	1,030	0	∞	0	-100.00%	0	∞
Easements	6100.005	11,878	35,000	33.94%	28,442	35,000	81.26%	30,000	5.48%	30,000	0.00%
Pump stations	6110.005	16,914	2,500	676.55%	15,415	52,500	29.36%	20,000	29.74%	20,000	0.00%
Pump station equipment	6120.005	22,885	14,000	163.47%	11,557	15,000	77.05%	35,000	202.84%	35,000	0.00%
Sewer lines	6130.005	93,075	200,000	46.54%	0	50,000	0.00%	15,000	∞	15,000	0.00%
Manholes	6140.005	30,921	70,000	44.17%	873	55,000	1.59%	55,000	6198.53%	55,000	0.00%
Generators	6200.005	2,663	4,000	66.58%	402	3,500	11.49%	3,500	769.95%	3,500	0.00%
Instruments	6220.005	0	1,000	0.00%	845	1,000	84.46%	1,000	18.40%	1,000	0.00%
<i>Total Maint & Repairs</i>		178,509	326,500	54.67%	58,565	212,000	27.62%	159,500	172.35%	159,500	0.00%
<i>Utilities</i>											
Electricity											
8th Ave	6343.005	1,008	1,020	98.81%	1,040	1,100	94.56%	1,150	10.56%	1,200	4.35%
Bay & Scenic	6344.005	2,430	2,827	85.97%	2,841	3,000	94.71%	3,000	5.58%	3,050	1.67%
Monte Verde & 16th	6345.005	1,899	2,000	94.97%	2,053	2,050	100.13%	2,050	-0.13%	2,100	2.44%

**Carmel Area Wastewater District
Collections Department: 2021-22 Operating Expense Budget**

Description	Acct	2019-20			Estimated 2020-21			Proposed 2021-22 Budget	% Chg. Prior Yr. Actual	Projected 2022-23 Budget	% Chg. Prior Yr. Budget
		Actual	Budget	% of Budget	Actual	Budget	% of Budget				
Calle La Cruz	6346.005	5,029	3,698	136.00%	4,233	4,000	105.83%	5,200	22.84%	5,250	0.96%
Hacienda	6347.005	1,173	1,087	107.93%	1,261	1,300	96.96%	1,300	3.13%	1,350	3.85%
Highlands	6348.005	10,655	10,648	100.07%	6,354	11,000	57.76%	11,100	74.70%	11,100	0.00%
Total Electricity		22,195	21,280	104.30%	17,782	22,450	79.21%	23,800	33.85%	24,050	1.05%
Gas-	6360.005	438	750	58.44%	432	800	54.00%	800	85.19%	800	0.00%
Propane	6370.005	0	900	0.00%	1,240	1,100	112.73%	1,200	-3.23%	1,200	0.00%
Water	6380.005	1,631	1,500	108.72%	2,099	1,600	131.17%	2,000	-4.70%	2,000	0.00%
Garbage	6385.005	0	2,000	0.00%	0	1,500	0.00%	1,500	<u>∞</u>	1,500	0.00%
Telephone- No Increase											
Fixed Costs	6392.005	11,310	8,700	130.00%	11,895	8,700	136.73%	12,000	0.88%	12,000	0.00%
Cellular Phones	6393.005	4,306	3,500	123.01%	7,512	3,500	214.63%	5,000	-33.44%	5,000	0.00%
Total Telephone		15,616	12,200	128.00%	19,407	12,200	159.08%	17,000	-12.40%	17,000	0.00%
Total Utilities		39,880	38,630	103.23%	40,960	39,650	103.30%	46,300	13.04%	46,550	0.54%
Travel & Training											
Employee Training	6420.005	10,504	15,205	69.08%	1,700	15,205	11.18%	9,355	450.29%	10,000	6.89%
Conferences	6430.005	2,018	3,100	65.11%	0	3,100	0.00%	6,200	<u>∞</u>	6,200	0.00%
Business meetings	6440.005	1,023	600	170.49%	148	850	17.47%	850	472.54%	850	0.00%
Total Travel & Meetings		13,545	18,905	71.65%	1,848	19,155	9.65%	16,405	787.50%	17,050	3.93%
Permits											
Regional Water Quality Control	6470.005	2,625	2,500	105.00%	2,848	2,700	105.48%	2,950	3.58%	3,000	1.69%
MUAPCB	6480.005	3,191	3,250	98.18%	3,190	3,250	98.15%	3,200	0.31%	3,300	3.13%
Total permits		5,816	5,750	101.15%	6,038	5,950	101.48%	6,150	1.85%	6,300	2.44%
Membership/Subscriptions											
Employee Certification	6550.005	1,188	1,000	118.81%	1,086	1,100	98.73%	1,250	15.10%	1,300	4.00%
Memberships - CWEA	6560.005	764	750	101.87%	768	750	102.40%	2,130	177.34%	2,130	0.00%
No Am Soc for Trenchless	6565.005	0	0	<u>∞</u>	0	600	0.00%	300	<u>∞</u>	600	100.00%
Memberships - WEF	6580.005	332	270	122.96%	300	270	111.11%	350	16.67%	740	111.43%

**Carmel Area Wastewater District
Collections Department: 2021-22 Operating Expense Budget**

Description	Acct	2019-20			Estimated 2020-21			Proposed 2021-22 Budget	% Chg. Prior Yr. Actual	Projected 2022-23 Budget	% Chg. Prior Yr. Budget
		Actual	Budget	% of Budget	Actual	Budget	% of Budget				
Publications/reference works	6640.005	466	0	∞	0	300	0.00%	300	∞	300	0.00%
<i>Total Membership/Subscrip.</i>		2,750	2,020	136.13%	2,154	3,020	71.32%	4,330	101.02%	5,070	17.09%
Safety											
First Aid	6710.005	6	0	n/a	0	0	n/a	0	n/a	0	n/a
First Aid Medical Service	6720.005	0	1,000	0.00%	0	500	0.00%	500	∞	500	0.00%
Fire extinguisher service	6730.005	331	420	78.92%	451	600	75.24%	500	10.75%	500	0.00%
Safety supplies	6735.005	3,798	3,500	108.51%	1,682	3,500	48.05%	4,000	137.85%	4,000	0.00%
Emergency Response Supplies	6740.005	724	1,960	36.96%	0	1,960	0.00%	1,900	∞	1,900	0.00%
Uniforms, boots & gear	6750.005	1,246	2,500	49.83%	1,908	2,000	95.41%	2,000	4.81%	2,000	0.00%
Safety training	6760.005	4,444	4,575	97.14%	6,549	4,575	143.16%	6,410	-2.13%	6,410	0.00%
Policies & procedures	6770.005	1,111	0	∞	0	0	∞	0	∞	0	∞
Virus supplies		1,540	0	∞	6,361	0	∞	0	-100.00%	0	∞
<i>Total Safety</i>		13,200	13,955	94.59%	16,952	13,135	129.06%	15,310	-9.68%	15,310	0.00%
Other Expenses											
Recruitment/HR Consulting	8910.005	0	0	n/a	0	0	n/a	0	n/a	0	n/a
Legal Notices	8920.005	396	200	198.00%	0	200	0.00%	500	∞	500	0.00%
Contingency	8980.005	0	56,945	0.00%	0	0	∞	0	∞	0	∞
Miscellaneous	8989.005	0	50,000	0.00%	3,405	0	∞	0	-100.00%	0	∞
<i>Total Other Expense</i>		396	107,145	0.37%	3,405	200	1702.30%	500	-85.31%	500	0.00%
Subtotal Operating Expense		1,269,852	1,705,960	74.44%	1,409,059	1,439,868	97.86%	1,405,838	-0.23%	1,447,887	2.99%
Depreciation Expense	8997.005	335,000	335,000	100.00%	335,000	335,000	100.00%	335,000	0.00%	335,000	0.00%
Total Operating Expense		1,604,852	2,040,960	78.63%	1,744,059	1,774,868	98.26%	1,740,838	-0.18%	1,782,887	2.42%

**Carmel Area Wastewater District
Collections Dept: 2021-22 Operating Expense Budget**

Description	Comments
<i>Salaries</i>	Collection Salaries will increase due to an additional employee 3 days per week, 1.1% Cost of Living and anticipated step increase for one employee.
<i>Employee Benefits</i>	Benefits will increase due to additional employee 3 days per week. The District is opening a Section 115 Trust to assist in paying off pension unfunded accrued liability.
<i>Trucks and Autos</i>	Fuel usage has increased during the pandemic due to staff using separate vehicles for their normal duties for social distancing. Fuel purchases are made and billed to one account (.5) for the District then at separated at the end of the budget year and allocated to the separate departments. The shift in vehicle maintenance from outsourcing all repairs and maintenance to staff performing regular service and minor repairs was made with the increase in part-time staffing in the maintenance department. Staff anticipates a decrease in outside repairs and increase in accessories and repair parts in the 21/22 budget. The increase in cost in vehicle accessories for budget year 20/21 was due to a water pump failure on the cleaning truck. Tires are budgeted on a 2 year service life for regular trucks, the increase in budget for 21/22 is for the replacement of the tires on cleaning truck which cost more than a normal pickup truck.
<i>Property/Liability/Auto Insurance</i>	U.S. Wildfires, Storms, Civil Disorders and ' <i>Social Inflation</i> ' have created intense pressure on insurers in North America, causing insured losses in the billions, and while COVID -19 has of course added new types of losses to the mix, more so, it has created additional uncertainty which is adding to an already difficult insurance marketplace. Initial cost estimates for CSRMA's various policy renewals were expected to be up in the 10% range. In light of the above market pressure, and adverse loss development in the Pooled Liability Program itself, the Program Administrators are writing to update our estimate of the renewal cost, and we are now of the opinion that it is possible that an increase could come in ultimately more in the range of at a 15% - 25% increase over the current, expiring program. This is the result of a combination of insurance market conditions and loss experience in the Program. While the Program is not experiencing an increase in the frequency (number) of claims, we are seeing an increase in the severity (cost) of claims.
<i>Engineering Fees</i>	Phase 4 for the capacity modeling with West Yost. Tasks in Phase 4 include the designation of basins throughout the District. Once the basins are established West Yost can estimate flow from the basins using the previous data. A basin is an area of the collection system where all flow joins together in integrated piping. This will help with knowing what type of flow is coming from each basin, i.e., residential or business. This information will help to set rates.

**Carmel Area Wastewater District
Collections Dept: 2021-22 Operating Expense Budget**

Description	Comments
<i>Office Supplies and Service</i>	Staff anticipates to replace two computers, the computers are in the Camara van and the field laptop. Both computers have been continually updated by Exceedio but no longer are supported by the older Windows platform. Staff continues to make the move to a paperless workplace however there is still a need for paper and printer ink.
<i>Operating Supplies</i>	Upgrades to the electrical at the pumps station are mostly completed, these included the installation of manual transfer switch and generator receptacle at the pump station that already had generators. This is to ensure the resilience of the station should a generator fail of natural gas service not be available. Staff can now bring a portable generator to run the station. The use of CN-9 to prevent H2S from the Highlands pump station was captured under paints and fluids. During the shelter-in-place order, flows have dropped from the Highlands Inn. Staff anticipates that once the shelter-in-place order is lifted and the hotel is in use by visitors again the usage of CN-9 will return to pre-COVID-19 amounts. General operating supplies was increased with the anticipation of wear and tear on the equipment being used daily, mainly the camara equipment used to inspect the sewer line. Most large operating supply purchases have been made for Covid-19. In the coming year, disposable items such as PPE and Hepa filters are all that is anticipated.
<i>Contractual Services</i>	<p>Cost for contractual services most remained steady with slight increases. There are two categories that did see a large increase, pump station monitoring and capacity system monitoring. Pump station monitoring now captures the cost of service for the Comcast communications to the pump stations. Prior to the PLC upgrade, communications were on AT&T landlines which have been terminated and captured under Utilities/fixed cost previously. Capacity system monitoring was increased with anticipation of needing flow meters for Phase 4 of the Collection model. Systems integrator category will be needed for changes and support to the newly installed PLC.</p> <p><i>Network Services:</i> Internet Technology support, Micosoft Office 365 licensing, Multifactor authentication licensing for network security, ICOM work order software annual renewal, IT Pipes software renewal and Turf Image GIS services.</p> <p><i>Electrical Services:</i> Electrical preventative maintenance including cleaning and testing. Corrective maintenance to unwire equipment and troubleshoot electrical failures.</p> <p><i>System Integrator:</i> Software maintenance and support of collections system SCADA and PLC's.</p> <p><i>Pump station monitoring:</i> Alarm monitoring for pump station which includes Comcast internet and Mission cellular alarm service.</p> <p><i>Collect System Capacity Monitor:</i> Purchase and monitoring of collection system flows meters for capacity study.</p>

**Carmel Area Wastewater District
Collections Dept: 2021-22 Operating Expense Budget**

Description	Comments
<i>Repairs & Maintenance</i>	Staff will continue with the replacement of the cast iron manhole frame and lids to the water tight composite frame and lids. The replacement of the frame and lids are for sea-level rise. The water tight composite lids will make the collection system manhole water tight should large scale flooding occur. The lagoon neighborhood was completed in 2020, Mission Fields will be replaced in 2021 and the condos across from the post office will take place in 2022. Pump Station equipment will see an increase with the addition of AMP meters integrated into the PLC.
<i>Utilities</i>	Staff does not expect any large increase in utilities. Usage in electricity at Highlands has gone down due to the shelter in place order. Staff expects it to return to normal once the pandemic has resided.
<i>Telephone - fixed costs</i>	Fixed cost will see a decrease as land-lines have been terminated for the communications of the pump stations. Comcast costs will now be captured under Contractual services.

O & M Budget
Treatment & Disposal

**Carmel Area Wastewater District
Treatment Department: Operating Expense Budget 2021-22**

Description	Acct	2019-20			Estimated 2020-21			Proposed 2021-22 Budget	% Chg. Prior Yr. Actual	Projected 2022-23 Budget	% Chg. Prior Yr. Budget
		Actual	Budget	% of Budget	Actual	Budget	% of Budget				
Salaries	5030.006	973,076	849,421	114.56%	1,020,444	971,158	105.07%	1,026,726	0.62%	1,061,515	3.39%
Salaries - Overtime	5035.006	10,592	60,000	17.65%	8,087	35,000	23.10%	15,000	85.49%	15,000	0.00%
Salaries - Standby	5040.006	14,520	29,120	49.86%	17,259	34,800	49.59%	18,000	4.29%	18,000	0.00%
<i>Total Salaries</i>		998,188	938,541	106.36%	1,045,789	1,040,958	100.46%	1,059,726	1.33%	1,094,515	3.28%
Payroll Taxes	5045.006	97,142	80,130	121.23%	104,894	79,633	131.72%	81,069	-22.71%	83,730	3.28%
<i>Total Payroll Taxes</i>		97,142	80,130	121.23%	104,894	79,633	131.72%	81,069	-22.71%	83,730	3.28%
Employee Benefits:											
Health insurance	5070.006	163,512	156,300	104.61%	142,158	182,973	77.69%	191,050	34.39%	199,895	4.63%
Retirement Plan - CalPERS	5080.006	100,262	104,660	95.80%	438,049	124,300	352.41%	122,608	-72.01%	182,330	48.71%
Pension Contribution - SAM	5090.006	0	63,925	0.00%	0	0	∞	0	∞	0	∞
Workers Compensation	5100.006	26,148	55,365	47.23%	75,943	46,037	164.96%	45,312	-40.33%	48,876	7.87%
Life Insurance	5110.006	3,734	3,665	101.90%	1,280	3,665	34.94%	1,320	3.09%	1,382	4.70%
PEHP	5120.006	15,801	13,900	113.68%	17,032	14,760	115.39%	16,949	-0.49%	15,398	-9.15%
Dental Insurance/Claims	5130.006	12,303	16,100	76.41%	12,564	14,900	84.32%	13,700	9.05%	13,700	0.00%
Vision Insurance	5140.006	3,295	3,900	84.49%	3,175	3,898	81.46%	3,830	20.62%	3,830	0.00%
Long Term Disability	5150.006	10,899	11,140	97.84%	9,004	11,820	76.18%	8,313	-7.68%	8,729	5.00%
HSA Contributions	5160.006	27,886	25,435	109.64%	32,609	41,524	78.53%	26,556	-18.56%	26,984	1.61%
Employee Assistance Program	5180.006	1,900	1,915	99.22%	1,200	1,955	61.36%	1,260	5.04%	1,260	0.00%
Employee Awards	5185.006	(148)	0	∞	0	0	∞	0	∞	0	∞
Annual District picnic	5186.006	240	0	∞	947	1,380	68.61%	1,380	45.76%	1,380	0.00%
Employee lunches	5187.006	0	300	0.00%	0	0	∞	0	∞	0	∞
Medical Exams	5200.006	283	1,000	28.33%	212	300	70.67%	0	-100.00%	0	∞
<i>Total Employee Benefits</i>		366,116	457,605	80.01%	734,172	447,512	164.06%	432,278	-41.12%	503,764	16.54%
Property/Liability/Auto Insurance											
Auto insurance	5450.006	452	1,800	25.11%	1,459	442	330.15%	1,600	9.64%	1,700	6.25%
Property Insurance	5480.006	0	11,130	0.00%	12,000	12,882	93.15%	0	∞	0	∞
General Liability	5480.006	52,590	45,600	115.33%	84,773	84,034	100.88%	52,000	-38.66%	55,000	5.77%
<i>Total Insurance</i>		53,042	58,530	90.62%	98,232	97,358	100.90%	53,600	-45.44%	56,700	5.78%
Engineering Fees											
Consulting Fees	5500.006	85,123	135,000	63.05%	33,410	275,000	12.15%	300,000	797.95%	300,000	0.00%
<i>Total Engineering Fees</i>		85,123	135,000	63.05%	33,410	275,000	12.15%	300,000	797.95%	300,000	0.00%

**Carmel Area Wastewater District
Treatment Department: Operating Expense Budget 2021-22**

Description	Acct	2019-20			Estimated 2020-21			Proposed 2021-22 Budget	% Chg. Prior Yr. Actual	Projected 2022-23 Budget	% Chg. Prior Yr. Budget
		Actual	Budget	% of Budget	Actual	Budget	% of Budget				
Attorney Fees											
Legal Fees	5510.006	105,685	35,000	301.96%	24,030	35,000	68.66%	35,000	45.65%	35,000	0.00%
<i>Total Attorney Fees</i>		105,685	35,000	301.96%	24,030	35,000	68.66%	35,000	45.65%	35,000	0.00%
Office Supplies & Service											
Computers & Equip	5540.006	6,583	5,000	131.65%	6,139	15,000	40.93%	15,300	149.21%	15,300	0.00%
Furnishings & fixtures	5545.006	1,556	3,000	51.87%	724	1,000	72.39%	1,000	38.14%	1,000	0.00%
Paper & printing	5550.006	434	2,500	17.34%	307	4,500	6.83%	4,500	1363.89%	4,500	0.00%
Postage & shipping	5560.006	338	300	112.66%	90	300	30.00%	1,000	1011.11%	1,000	0.00%
Office supplies	5570.006	3,425	4,700	72.88%	1,310	4,000	32.75%	4,000	205.30%	4,000	0.00%
Equipment rent	5580.006	1,097	0	<u>∞</u>	0	0	<u>∞</u>	0	<u>∞</u>	0	<u>∞</u>
Equipment repairs	5590.006	0	1,500	0.00%	0	500	0.00%	500	<u>∞</u>	500	0.00%
<i>Total Office Supplies & Svc.</i>		13,432	17,000	79.01%	8,571	25,300	33.88%	26,300	206.86%	26,300	0.00%
Operating Supplies											
Chemicals	5615.006	2,622	5,000	52.43%	687	4,000	17.16%	5,000	628.29%	5,000	0.00%
Phenylarsine oxide	5625.006	340	0	<u>∞</u>	674	750	89.84%	810	20.21%	810	0.00%
Sodium bisulfite	5630.006	61,546	50,000	123.09%	69,416	75,000	92.56%	84,000	21.01%	84,000	0.00%
Sodium hypochlorite	5635.006	72,257	85,000	85.01%	68,042	97,750	69.61%	101,500	49.17%	101,500	0.00%
Ferric chloride	5640.006	23,892	30,000	79.64%	14,447	31,000	46.60%	31,000	114.58%	31,000	0.00%
Polymer	5650.006	47,278	55,000	85.96%	51,577	55,000	93.78%	65,000	26.03%	65,000	0.00%
Acetic Acid	5660.006	703	750	93.74%	1,569	1,100	142.62%	1,100	-29.89%	1,100	0.00%
Iodine solution	5665.006	58	300	19.40%	534	300	177.84%	300	-43.77%	300	0.00%
Potassium iodate	5670.006	755	3,800	19.86%	1,535	1,000	153.49%	1,000	-34.85%	1,000	0.00%
Electrical Supplies	5690.006	107	0	<u>∞</u>	2,753	0	<u>∞</u>	0	-100.00%	0	<u>∞</u>
Laboratory	5700.006	29,121	33,840	86.06%	28,115	39,432	71.30%	39,432	40.25%	39,432	0.00%
Personnel	5740.006	2,295	3,250	70.62%	1,124	3,500	32.12%	3,500	211.30%	3,500	0.00%
Radios & supplies	5745.006	1,009	1,590	63.46%	0	1,650	0.00%	1,650	<u>∞</u>	1,650	0.00%
Hand tools	5780.006	2,280	3,275	69.63%	2,489	3,500	71.12%	3,500	40.60%	3,500	0.00%
General supplies	5790.006	5,773	8,350	69.13%	11,570	8,500	136.11%	8,500	-26.53%	8,500	0.00%
COVID Safety		0	0	<u>∞</u>	0	50,000	0.00%	30,000	<u>∞</u>	30,000	0.00%
Source control	5795.006	765	1,000	76.46%	680	1,100	61.82%	1,100	61.77%	1,100	0.00%
<i>Total Operating Supplies</i>		250,801	281,155	89.20%	255,211	373,582	68.31%	377,392	47.87%	377,392	0.00%

**Carmel Area Wastewater District
Treatment Department: Operating Expense Budget 2021-22**

Description	Acct	2019-20			Estimated 2020-21			Proposed 2021-22 Budget	% Chg. Prior Yr. Actual	Projected 2022-23 Budget	% Chg. Prior Yr. Budget
		Actual	Budget	% of Budget	Actual	Budget	% of Budget				
Contractual Services											
Sludge Haul/Disposal	5820.006	92,500	99,000	93.43%	74,733	103,000	72.56%	103,000	37.82%	103,000	0.00%
Network Administration	5830.006	57,380	65,000	88.28%	77,568	75,345	102.95%	80,000	3.14%	80,000	0.00%
Laboratory Analysis	5840.006	28,215	33,000	85.50%	35,150	52,410	67.07%	57,700	64.16%	57,700	0.00%
Electrical Service	5855.006	263	0	<u>∞</u>	0	0	<u>∞</u>	0	<u>∞</u>	0	<u>∞</u>
Pump Station/Manhole	5870.006	575	0	<u>∞</u>	0	0	<u>∞</u>	0	<u>∞</u>	0	<u>∞</u>
Alarm System	5880.006	1,487	2,800	53.10%	1,753	7,550	23.22%	5,500	213.77%	5,500	0.00%
HR consulting	5885.006	11,033	26,640	41.42%	22,433	26,700	84.02%	30,000	33.73%	30,000	0.00%
Copier Service	5910.006	1,171	5,000	23.42%	1,010	5,000	20.20%	3,000	196.98%	3,000	0.00%
Laundry	5940.006	10,818	8,200	131.93%	10,481	13,000	80.62%	14,100	34.53%	14,805	5.00%
Hazard/Green Waste Disposal	5990.006	38	0	<u>∞</u>	0	0	<u>∞</u>	0	<u>∞</u>	0	<u>∞</u>
Grit & Screening Disposal	6000.006	22,253	15,000	148.35%	19,320	23,100	83.63%	27,500	42.34%	27,500	0.00%
Sewer/pretreatment ordinance	6015.006	0	2,500	0.00%	0	0	<u>∞</u>	2,500	<u>∞</u>	2,500	0.00%
Instrumentation Services	6020.006	529	14,000	3.78%	0	27,200	0.00%	16,700	<u>∞</u>	16,700	0.00%
Hazardous chemical disposal	6040.006	653	500	130.70%	0	1,000	0.00%	1,000	<u>∞</u>	1,000	0.00%
Outfall Inspection	6045.006	11,000	11,500	95.65%	10,000	12,650	79.05%	15,000	50.00%	15,000	0.00%
Lagoon inspection	6046.006	0	0	<u>∞</u>	6,250	5,000	125.00%	5,000	-20.00%	5,000	0.00%
Ocean Monitoring Program	6050.006	0	0	<u>∞</u>	0	0	<u>∞</u>	7,400	<u>∞</u>	7,400	0.00%
Consulting - Coastal Comm	6065.006	73,454	0	<u>∞</u>	0	0	<u>∞</u>	0	<u>∞</u>	0	<u>∞</u>
<i>Total Contractual Services</i>		311,368	283,140	109.97%	258,697	351,955	73.50%	368,400	42.41%	369,105	0.19%
Repairs & Maintenance											
General Repairs	6095.006	8,684	10,000	86.84%	1,031	10,000	10.31%	10,000	869.82%	10,000	0.00%
Instruments	6220.006	0	7,000	0.00%	0	7,000	0.00%	7,000	<u>∞</u>	7,000	0.00%
Lab Equipment	6240.006	12,777	13,750	92.92%	1,829	15,000	12.19%	17,000	829.42%	17,000	0.00%
Headworks - Primary	6250.006	1,014	7,750	13.08%	0	4,750	0.00%	4,750	<u>∞</u>	4,750	0.00%
IPS/EPS/DAF	6260.006	7,512	8,400	89.43%	4,013	5,700	70.40%	5,700	42.04%	5,700	0.00%
Effluent/Outfall	6265.006	17,759	9,500	186.94%	0	5,000	0.00%	5,000	<u>∞</u>	5,000	0.00%
Disinfection (Hypo/SBS/CDC)	6270.006	3,942	8,000	49.27%	9,699	7,000	138.55%	7,000	-27.82%	7,000	0.00%
Dewatering/DIG	6280.006	4,008	8,100	49.48%	13,420	8,000	167.75%	8,000	-40.39%	8,000	0.00%
Aeration - Secondary	6300.006	16,919	10,500	161.13%	10,173	7,000	145.33%	7,000	-31.19%	7,000	0.00%
Buildings	6320.006	0	0	n/a	598	0	<u>∞</u>	0	0.00%	0	<u>∞</u>
<i>Total Maint & Repairs</i>		72,614	83,000	87.49%	40,763	69,450	58.69%	71,450	75.28%	71,450	0.00%

**Carmel Area Wastewater District
Treatment Department: Operating Expense Budget 2021-22**

Description	Acct	2019-20			Estimated 2020-21			Proposed 2021-22 Budget	% Chg. Prior Yr. Actual	Projected 2022-23 Budget	% Chg. Prior Yr. Budget
		Actual	Budget	% of Budget	Actual	Budget	% of Budget				
Utilities											
Electricity - Secondary	6352.006	164,761	324,210	50.82%	168,276	347,900	48.37%	330,000	96.11%	346,500	5.00%
Electricity - Aeration	6353.006	56,034	0	∞	68,981	0	∞	0	0.00%	0	∞
Electricity - Lab Tertiary	6354.006	6,597	0	∞	6,147	0	∞	0	0.00%	0	∞
Co-Gen Non-Energy Plant	6359.006	492	0	∞	3,122	0	∞	4,300	37.73%	4,300	0.00%
Gas	6360.006	44,623	42,800	104.26%	17,183	44,512	38.60%	30,000	74.59%	30,000	0.00%
Propane	6370.006	553	700	79.06%	697	700	99.63%	1,000	43.39%	1,000	0.00%
Water	6380.006	6,091	10,600	57.46%	4,918	7,900	62.26%	7,000	42.33%	7,000	0.00%
Cable television	6390.006	995	950	104.78%	1,008	1,000	100.79%	1,200	19.06%	1,200	0.00%
<i>Total Utilities</i>		280,147	379,260	73.87%	270,333	402,012	67.24%	373,500	38.16%	390,000	4.42%
Telephone											
Fixed Costs	6392.006	8,215	10,000	82.15%	6,675	19,045	35.05%	10,000	49.82%	10,000	0.00%
Cellular Phones	6393.006	2,542	3,500	72.63%	5,757	3,650	157.72%	3,500	-39.20%	3,500	0.00%
Repair to Lines	6394.006	31	2,000	1.56%	0	0	∞	0	∞	0	∞
<i>Total Telephone</i>		10,788	15,500	69.60%	12,432	22,695	54.78%	13,500	8.59%	13,500	0.00%
Travel & Training											
Employee Training	6420.006	15,729	20,606	76.33%	3,340	18,135	18.42%	8,580	156.89%	12,000	39.86%
Conferences	6430.006	2,934	9,530	30.79%	250	10,810	2.31%	6,150	2360.00%	10,000	62.60%
Business meetings	6440.006	502	500	100.40%	0	500	0.00%	700	∞	700	0.00%
<i>Total Travel & Meetings</i>		19,165	30,636	62.56%	3,590	29,445	12.19%	15,430	329.81%	22,700	47.12%
Permitting											
Treatment Plant Permits	6470.006	0	25,000	0.00%	28,198	25,000	112.79%	25,000	-11.34%	25,000	0.00%
Central Coast RWQCB	6475.006	17,616	20,000	88.08%	0	0	∞	0	∞	0	∞
Air Pollution Control Permit	6480.006	7,685	4,000	192.13%	0	0	∞	0	∞	0	∞
Environmental Health Permit	6490.006	1,799	3,800	47.34%	0	3,800	0.00%	2,500	∞	2,500	0.00%
Lab Registration Fees	6510.006	2,666	4,500	59.23%	2,666	12,162	21.92%	10,000	275.16%	14,000	40.00%
<i>Total Permitting</i>		29,766	57,300	51.95%	30,864	40,962	75.35%	37,500	21.50%	41,500	10.67%
Membership/Subscriptions											
Employee Certification	6550.006	864	500	172.80%	2,046	1,750	116.91%	1,750	-14.47%	1,750	0.00%
CWEA	6560.006	1,340	2,600	51.54%	1,536	2,750	55.85%	2,560	66.67%	2,560	0.00%

**Carmel Area Wastewater District
Treatment Department: Operating Expense Budget 2021-22**

Description	Acct	2019-20			Estimated 2020-21			Proposed 2021-22 Budget	% Chg. Prior Yr. Actual	Projected 2022-23 Budget	% Chg. Prior Yr. Budget
		Actual	Budget	% of Budget	Actual	Budget	% of Budget				
WEF	6580.006	332	380	87.37%	0	400	0.00%	400	<u>∞</u>	400	0.00%
Lab memberships	6585.006	38	300	12.50%	0	500	0.00%	400	<u>∞</u>	400	0.00%
Subscriptions/Publications	6640.006	1,360	1,500	90.68%	223	1,500	14.87%	1,500	572.46%	1,500	0.00%
<i>Total Membership/Subscrip.</i>		3,934	5,280	74.50%	3,805	6,900	55.15%	6,610	73.72%	6,610	0.00%
<i>Safety</i>											
Fire Extinguisher Service	6730.006	0	0	<u>∞</u>	2,257	0	<u>∞</u>	0	-100.00%	0	<u>∞</u>
Safety Training	6760.006	1,614	0	<u>∞</u>	0	0	<u>∞</u>	0	<u>∞</u>	0	<u>∞</u>
Policies and procedures	6770.006	2,667	0	<u>∞</u>	0	0	<u>∞</u>	0	<u>∞</u>	0	<u>∞</u>
Covid Supplies		9,642	0	<u>∞</u>	56,862	0	<u>∞</u>	0	-100.00%	0	<u>∞</u>
<i>Total Safety Expenses</i>		13,922	0	<u>∞</u>	59,120	0	<u>∞</u>	0	-100.00%	0	<u>∞</u>
<i>Other Expenses</i>											
Recruitment	8910.006	70	5,000	1.40%	0	5,000	0.00%	5,000	<u>∞</u>	5,000	0.00%
Legal notices	8920.006	0	2,000	0.00%	0	2,000	0.00%	2,000	<u>∞</u>	2,000	0.00%
Contingencies	8980.006	0	108,585	0.00%	0	0	<u>∞</u>	0	<u>∞</u>	0	<u>∞</u>
<i>Total Other Expense</i>		70	115,585	0.06%	0	7,000	0.00%	7,000	<u>∞</u>	7,000	0.00%
Subtotal Operating Expense		2,711,305	2,972,662	91.21%	2,983,911	3,304,762	90.29%	3,258,755	9.21%	3,399,266	4.31%
Depreciation Expense	8997.006	2,300,000	2,300,000	100.00%	2,300,000	2,300,000	100.00%	2,300,000	0.00%	2,300,000	0.00%
Total Operating Expense		5,011,305	5,272,662	95.04%	5,283,911	5,604,762	94.28%	5,558,755	5.20%	5,699,266	2.53%

**Carmel Area Wastewater District
Treatment Dept.: Operating Expense Budget 2021-22**

Description	Comments
<i>Salaries</i>	COLA 1.1% and step increases as scheduled
<i>Employee Benefits</i>	Benefits negotiated as per Employee Contract. The District is opening a Section 115 Trust to assist in paying off pension unfunded accrued liability.
<i>Property/Liability/Auto Insurance</i>	U.S. Wildfires, Storms, Civil Disorders and ' <i>Social Inflation</i> ' have created intense pressure on insurers in North America, causing insured losses in the billions, and while COVID -19 has of course added new types of losses to the mix, more so, it has created additional uncertainty which is adding to an already difficult insurance marketplace. Initial cost estimates for CSRMA's various policy renewals were expected to be up in the 10% range. In light of the above market pressure, and adverse loss development in the Pooled Liability Program itself, the Program Administrators are writing to update our estimate of the renewal cost, and we are now of the opinion that it is possible that an increase could come in ultimately more in the range of at a 15% - 25% increase over the current, expiring program. This is the result of a combination of insurance market conditions and loss experience in the Program. While the Program is not experiencing an increase in the frequency (number) of claims, we are seeing an increase in the severity (cost) of claims.
<i>Engineering Fees</i>	Funding to perform Sea Level Rise technical studies. Refer to Long Term Capital worksheet.
<i>Attorney Fees</i>	Funding for legal review of the updated Source Control Pretreatment Ordinance and possible public comments received during the review time period. The other possible legal review is when the Regional Board starts implementation and review of CAWD's Operating permits. The Regional Board currently has not provided a time table of those new operating permits. Staff sees no effect on the legal reviews from the COVID-19 Pandemic.
<i>Office Supplies & Service</i>	As staff continues to update and become more efficient in the operations, laboratory and maintenance of the facility the addition of new computers and individual tablets will allow staff to be out in the facility to enter data both into the SCADA and Mainsaver platforms. These new computers also keeps staff members separate by allowing field input of data while removing the potential of close contact with each other, thus meeting COVID-19 safety protocols. Shipping has gone up due to the weekly shipping of COVID-19 samples which was not in previous years budgets.
<i>Operating Supplies</i>	Normal Chemical and Laboratory supplies for the operational year projected. Most of the increases in chemical supplies for operation are seeing annual increases by suppliers. The biggest cost is for a full year of COVID-19 Sampling of the facility influent which accounts for \$18,200.00. The other area is the additional purchases of Personal Protection Equipment including gloves, facemasks and other COVID-19 supplies. With further upgrades to SCADA system plant staff is anticipating being able to increase operational efficiency with increased data for optimum control of chemical dosages.

**Carmel Area Wastewater District
Treatment Dept.: Operating Expense Budget 2021-22**

Description	Comments
<i>Contractual Services</i>	The Contractual Services overall is seeing a 3-4% increase for Laboratory Outside Services, and an increase for Waste Management Services for disposal of grit, rags and collection system debris. Staff is not expecting any other major increase in outside services. Staff foresees rescheduling of some contractual services to meet new COVID-19 regulations and protocols. Staff included the 1 year cost for sampling and analyzing Per-and polyfluoroalkyl substances mandated by the State of California State Water Board in account #6050.006.
<i>Repairs & Maintenance</i>	This area covers non-major repairs and maintenance or CIP items in the course of daily operations and laboratory work, such as consumable items including chemical feed pumps parts, skimmer materials for clarifiers, and Chlorine Analyzer parts. Staff plan for the year is to develop an inventory in house as with the COVID-19 Pandemic staff has noticed a delay in receiving some items of up to eight weeks.
<i>Utilities</i>	Utilities will see a 16% rate increase in electrical costs in the upcoming year, along with a 5.6% increase in potable water from California American Water. Staff calculated a reduction in the budget for electrical usage. Due to further research of staff on electrical usage and the Micro-Turbines being brought back online this past year. With the Micro-Turbines on line using digester gas there should be a drop in natural gas usage to run the boiler for digester heating. There was a new monthly invoice from PG&E for the future decommissioning of the Diablo Canyon Nuclear Power Plant. Staff and PG&E are researching ways to further lower energy consumption at the facility and will be working towards that goal in the future.
<i>Telephone</i>	Staff is anticipating a \$9,000 or greater savings in the near future as the alarm systems will be connected to the upgraded SCADA system and Fiber Optic line to the treatment facility.
<i>Travel & Training</i>	With COVID-19 Pandemic training has shifted to online training and conferences this year and possibly next year so staff reduced the budget to reflect that reality. Staff will review training needs as the Pandemic moves forward to maximize training opportunities for all personnel.
<i>Telephone</i>	Fixed Costs: Fiber Optic is budgeted under operations Cellular: Backup cell phone reassigned to maintenance.

**Carmel Area Wastewater District
Treatment Depart.: Operating Expense Budget 2021-22**

Description	Comments
<i>Travel & Training</i>	Training has continued but with a higher focus on Covid-19. Staff anticipates conferences to be held live and in-person in the later part of 2021. The cost of on-line training remain as much as the in-person training. Staff does plan on returning to in-person training and conferences when allowed.
<i>Permitting</i>	Fees for Operating permits for the treatment facility are set by the State Water Resources Control Board and Monterey County. There could be a further increase for the State Water Resources Board as the Treatment Facility Discharge Permit is up for renewal and until that Permit is up for review the final cost is undeterminable at the writing of the 2021-2022 budget. The Laboratory fees have increased due to the new Laboratory Accreditation Program that takes effect in mid 2021. The final budget amount will depend on any added laboratory disciplines added with a new Discharge Permit requirements.
<i>Membership/ Subscriptions</i>	Includes all profession required Certifications for Laboratory and Operations by the State of California and CAWD in job descriptions. COVID-19 has not effected current Certificate holders. However, Certificated requiring exams are currently on hold until the State of California develops a alternative exam system. Other subscription fees to local, State and Federal Professional Organizations.

O & M Budget
Administration Dept.

**Carmel Area Wastewater District
Administration: 2021-22 Operating Expense Budget**

Description	Account #	2019-20			Estimated 2020-21			Proposed 2021-22 Budget	% Chg. Prior Yr. Actual	Projected 2022-23 Budget	% Chg. Prior Yr. Budget
		Actual	Budget	% of Budget	Actual	Budget	% of Budget				
Salaries	5030.007	582,394	605,935	96.11%	542,370	547,192	99.12%	565,706	4.30%	588,252	3.99%
Temp Employee		0	0	∞	0	0	∞	0	∞	0	∞
Overtime	5035.007	4,036	0	∞	2,338	1,000	233.77%	1,000	-57.22%	1,000	0.00%
<i>Total Salaries</i>		586,430	605,935	96.78%	544,708	548,192	99.36%	566,706	4.04%	589,252	3.98%
Payroll Taxes	5045.007	43,074	44,620	96.54%	41,491	40,427	102.63%	43,277	4.30%	45,001	3.99%
<i>Total Payroll Taxes</i>		43,074	44,620	96.54%	41,491	40,427	102.63%	43,277	4.30%	45,001	3.99%
<i>Employee Benefits:</i>											
Health insurance	5070.007	27,670	30,675	90.20%	34,920	32,489	107.48%	36,566	4.71%	41,582	13.72%
CalPERS pension	5080.007	46,381	125,090	37.08%	197,782	55,935	353.59%	56,540	-71.41%	85,606	51.41%
SAM pension	5090.007	0	16,795	0.00%	0	0	∞	0	∞	0	∞
Worker's Compensation	5100.007	16,961	24,000	70.67%	17,676	24,000	73.65%	20,000	13.15%	20,000	0.00%
Life Insurance	5110.007	1,448	1,530	94.62%	490	1,527	32.09%	550	12.24%	580	5.45%
PEHP insurance	5120.007	7,368	8,035	91.70%	8,260	7,470	110.58%	7,221	-12.58%	7,503	3.90%
Dental reimbursement	5130.007	9,062	10,100	89.72%	11,028	9,600	114.88%	8,600	-22.02%	8,600	0.00%
Vision insurance	5140.007	1,082	1,800	60.13%	1,406	1,800	78.11%	1,475	4.92%	1,500	1.69%
Disability insurance	5150.007	4,734	5,620	84.23%	3,640	5,200	70.00%	1,725	-52.61%	1,810	4.93%
HSA contributions	5160.007	5,069	5,935	85.42%	5,355	7,200	74.37%	4,656	-13.05%	4,665	0.19%
Employee Assistance Program	5180.007	792	795	99.58%	800	815	98.16%	815	1.88%	815	0.00%
Employee Awards	5185.007	(239)	0	∞	0	0	∞	0	∞	0	∞
Annual District picnic	5186.007	2,871	3,000	95.70%	3,000	3,000	100.00%	3,000	0.00%	3,000	0.00%
Employee BBQ	5187.007	94	0	∞	0	0	∞	0	∞	0	∞
COBRA insurance	5190.007	22	0	∞	0	0	∞	0	∞	0	∞
Medical exams	5200.007	116	0	∞	0	0	∞	0	∞	0	∞
<i>Total Employee Benefits</i>		123,432	233,375	52.89%	284,357	149,036	190.80%	141,148	-50.36%	175,661	24.45%
<i>Directors Fees</i>											
Regular Board Meetings	5230.007	8,950	8,800	101.70%	7,584	8,800	86.18%	8,800	16.03%	8,800	0.00%
PBCSD - Directors fees	5240.007	1,250	1,750	71.43%	1,300	1,750	74.29%	1,400	7.69%	1,400	0.00%
Special Board Meetings	5250.007	3,300	7,600	43.42%	900	5,700	15.79%	7,600	744.44%	7,600	0.00%
Committee meetings	5260.007	1,150	2,100	54.76%	1,500	2,100	71.43%	2,300	53.33%	2,300	0.00%
Special District Assoc.	5265.007	632	0	∞	100	100	100.00%	100	0.00%	100	0.00%
WateReuse	5269.007	200	300	66.67%	0	1,500	0.00%	0	∞	0	∞

**Carmel Area Wastewater District
Administration: 2021-22 Operating Expense Budget**

Description	Account #	2019-20			Estimated 2020-21			Proposed 2021-22 Budget	% Chg. Prior Yr. Actual	Projected 2022-23 Budget	% Chg. Prior Yr. Budget
		Actual	Budget	% of Budget	Actual	Budget	% of Budget				
CASA - Directors fees	5270.007	0	300	0.00%	0	1,350	0.00%	0	<u>∞</u>	0	<u>∞</u>
Training	5275.007	27	0	<u>∞</u>	0	3,000	0.00%	3,000	<u>∞</u>	0	-100.00%
Director's Dental Claims	5280.007	7,397	8,800	84.06%	7,148	12,000	59.57%	10,000	39.90%	10,000	0.00%
<i>Total Directors Fees</i>		22,906	29,650	77.25%	18,532	36,300	51.05%	33,200	79.15%	30,200	-9.04%
<i>Trucks & Autos</i>											
Gasoline	5310.007	0	200	0.00%	200	250	80.00%	250	25.00%	250	0.00%
Tires, Batteries, Service	5340.007	100	100	100.37%	75	100	75.00%	100	33.33%	100	0.00%
Outside Repair services	5345.007	524	300	174.55%	300	300	100.00%	300	0.00%	300	0.00%
Repair parts	5350.007	46	0	<u>∞</u>	62	0	<u>∞</u>	75	20.97%	75	0.00%
Vehicle accessories	5360.007	0	0	<u>∞</u>	150	0	<u>∞</u>	0	-100.00%	0	<u>∞</u>
Smog Check - Vehicles	5380.007	0	110	0.00%	110	100	110.00%	110	0.00%	110	0.00%
Cleaning & detailing	5410.007	404	50	807.90%	26	50	52.00%	50	92.31%	50	0.00%
EE mileage reimbursement	5430.007	0	200	0.00%	0	100	0.00%	50	<u>∞</u>	50	0.00%
<i>Total Trucks & Autos</i>		1,074	960	111.82%	923	900	102.56%	935	1.30%	935	0.00%
<i>Property/Liability Insurance</i>											
Property Insurance	5450.007	605	605	100.00%	1,169	630	185.56%	1,345	15.09%	1,480	10.00%
General Liability	5480.007	8,738	9,700	90.08%	9,700	9,700	100.00%	11,155	15.00%	12,271	10.00%
Errors & Ommissions	5480.007	4,800	4,800	100.00%	5,520	5,520	100.00%	6,350	15.04%	6,985	10.00%
Commerical Crime Policy	5480.007	1,450	1,450	100.00%	1,550	1,550	100.00%	1,785	15.13%	1,963	10.00%
Cyber Crime Insurance		1,650	1,650	100.00%	1,730	1,730	100.00%	1,990	15.00%	2,188	10.00%
<i>Total Insurance</i>		17,243	18,205	94.71%	19,669	19,130	102.82%	22,624	15.03%	24,887	10.00%
<i>Audit/Financial Expense</i>	5490.007	29,075	31,200	93.19%	31,200	40,000	78.00%	40,000	28.21%	34,000	-15.00%
<i>Engineering Fees</i>	5500.007	2,880	125,000	2.30%	0	75,000	0.00%	25,000	<u>∞</u>	25,000	0.00%
<i>Attorney Fees</i>											
District Counsel	5510.007	31,537	40,000	78.84%	33,472	50,000	66.94%	36,000	7.55%	36,000	0.00%
Outside Counsel	5510.007	0	200,000	0.00%	0	70,000	0.00%	5,000	<u>∞</u>	5,000	0.00%
CASA Conference Attendance	5510.007	0	1,000	0.00%	0	1,000	0.00%	1,000	<u>∞</u>	1,000	0.00%
<i>Total Attorney Fees</i>		31,537	241,000	13.09%	33,472	121,000	27.66%	42,000	25.48%	42,000	0.00%
<i>Office Supplies & Service</i>											

**Carmel Area Wastewater District
Administration: 2021-22 Operating Expense Budget**

Description	Account #	2019-20			Estimated 2020-21			Proposed 2021-22 Budget	% Chg. Prior Yr. Actual	Projected 2022-23 Budget	% Chg. Prior Yr. Budget
		Actual	Budget	% of Budget	Actual	Budget	% of Budget				
Bank fees	5515.007	668	100	667.71%	4,332	3,150	137.52%	100	-97.69%	100	0.00%
Public Outreach & Promotion	5519.007	7,755	0	∞	6,942	1,500	462.80%	6,500	-6.37%	6,500	0.00%
Computers & equipment	5540.007	16,092	5,000	321.84%	2,640	7,500	35.20%	5,000	89.39%	5,000	0.00%
Furnishings & fixtures	5545.007	4,701	1,000	470.10%	1,982	2,500	79.28%	2,500	26.14%	2,500	0.00%
Paper & printing	5550.007	1,279	3,500	36.53%	1,622	3,500	46.34%	3,000	84.96%	3,000	0.00%
Postage & shipping	5560.007	1,914	2,000	95.68%	1,388	2,000	69.40%	2,000	44.09%	2,000	0.00%
Office Supplies	5570.007	6,200	3,000	206.67%	7,146	3,000	238.20%	4,500	-37.03%	4,500	0.00%
Post Office Box Rental	5585.007	204	200	102.00%	226	300	75.33%	300	32.74%	300	0.00%
Temp Services	5595.007	3,603	2,500	144.10%	0	3,500	0.00%	3,500	∞	3,500	0.00%
<i>Total Office Supplies & Svc.</i>		42,414	17,300	245.17%	26,278	26,950	97.51%	27,400	4.27%	27,400	0.00%
<i>Operating Supplies</i>											
Janitorial Supplies	5730.007	0	500	0.00%	88	500	17.60%	500	468.18%	500	0.00%
Personnel Supplies	5740.007	549	700	78.49%	164	1,000	16.40%	1,000	509.76%	1,000	0.00%
General Operating Supplies	5790.007	172	300	57.33%	0	300	0.00%	300	∞	300	0.00%
<i>Total Operating Supplies</i>		721	1,500	48.09%	252	1,800	14.00%	1,800	614.29%	1,800	0.00%
<i>Contractual Services</i>											
Network Administration	5830.007	16,673	33,000	50.52%	26,085	20,000	130.43%	27,000	3.51%	28,000	3.70%
Website Maintenance	5835.007	9,131	1,000	913.11%	4,900	4,800	102.08%	4,800	-2.04%	4,800	0.00%
Alarm System	5880.007	2,409	1,300	185.31%	2,120	2,000	105.98%	2,200	3.80%	2,275	3.41%
HR consulting	5885.007	4,597	11,100	41.42%	11,867	11,100	106.91%	12,000	1.12%	12,100	0.83%
Janitorial Service	5900.007	1,948	3,610	53.95%	0	3,500	0.00%	3,500	∞	3,500	0.00%
Copier/Fax Service	5910.007	2,003	3,800	52.71%	3,602	7,200	50.03%	4,000	11.05%	4,000	0.00%
Actuarial Service	5920.007	8,277	15,000	55.18%	7,217	10,000	72.17%	10,000	38.56%	10,000	0.00%
Payroll Processing	5950.007	7,882	6,850	115.07%	7,820	7,100	110.14%	8,000	2.30%	8,000	0.00%
Data processing - County	5970.007	21,789	22,550	96.63%	22,000	22,550	97.56%	22,550	2.50%	23,000	2.00%
Landscape Maintenance	5980.007	4,300	6,500	66.15%	1,563	6,500	24.04%	4,000	156.00%	4,000	0.00%
Other Special Studies/Services	6070.007	0	50,000	0.00%	0	25,000	0.00%	0	∞	0	∞
<i>Total Contractual Services</i>		79,009	154,710	51.07%	87,173	119,750	72.80%	98,050	12.48%	99,675	1.66%
<i>Repairs & Maintenance</i>											
Electricity	6320.007	8,174	2,500	326.95%	3,383	5,000	67.65%	5,000	47.82%	5,000	0.00%
<i>Utilities</i>											
Electricity	6358.007	4,450	4,300	103.48%	6,652	4,300	154.70%	6,945	4.40%	7,223	4.00%

**Carmel Area Wastewater District
Administration: 2021-22 Operating Expense Budget**

Description	Account #	2019-20			Estimated 2020-21			Proposed 2021-22 Budget	% Chg. Prior Yr. Actual	Projected 2022-23 Budget	% Chg. Prior Yr. Budget
		Actual	Budget	% of Budget	Actual	Budget	% of Budget				
Gas	6360.007	2,155	1,650	130.63%	2,465	1,650	149.39%	2,573	4.40%	2,676	4.00%
Water	6380.007	2,179	4,590	47.48%	2,703	4,590	58.89%	2,800	3.59%	2,912	4.00%
Refuse Collection	6385.007	641	675	94.89%	661	675	97.97%	750	13.41%	780	4.00%
<i>Total Utilities</i>		9,425	11,215	84.04%	12,481	11,215	111.29%	13,068	4.70%	13,591	4.00%
<i>Telephone</i>											
Fixed Costs	6392.007	6,864	7,300	94.03%	5,840	7,600	76.84%	6,500	11.30%	6,695	3.00%
Cellular Phones	6393.007	1,124	3,200	35.12%	3,200	3,000	106.67%	3,500	9.38%	3,605	3.00%
<i>Total Telephone</i>		7,988	10,500	76.08%	9,040	10,600	85.28%	10,000	10.62%	10,300	3.00%
<i>Travel & Training</i>											
Employee Training	6420.007	2,964	10,000	29.64%	0	10,000	0.00%	5,000	∞	5,000	0.00%
Conferences	6430.007	2,558	10,000	25.58%	1,115	10,000	11.15%	10,000	796.86%	10,000	0.00%
Business Meetings - Tri Tac	6440.007	1,707	1,700	100.43%	40	1,700	2.35%	1,700	4150.00%	1,700	0.00%
<i>Total Travel & Meetings</i>		7,229	21,700	33.31%	1,155	21,700	5.32%	16,700	1345.89%	16,700	0.00%
<i>Membership/Subscriptions</i>											
LAFCO Admin Fee	6520.007	19,392	19,392	100.00%	20,000	22,000	90.91%	22,000	10.00%	22,500	2.27%
Employee certifications	6550.007	0	200	0.00%	0	200	0.00%	200	∞	200	0.00%
<i>Memberships</i>											
CASA	6570.007	13,370	13,250	100.91%	13,600	23,722	57.33%	14,500	6.62%	15,000	3.45%
ASCE	6575.007	0	300	0.00%	0	300	0.00%	300	∞	300	0.00%
WEF	6580.007	0	570	0.00%	332	350	94.86%	350	5.42%	350	0.00%
CSDA	6590.007	7,615	7,000	108.79%	7,805	7,752	100.68%	7,800	-0.06%	7,900	1.28%
WaterReuse Association	6600.007	0	700	0.00%	0	300	0.00%	300	∞	300	0.00%
GFOA	6610.007	0	175	0.00%	175	175	100.00%	175	0.00%	200	14.29%
Water Awareness Committee	6625.007	1,000	0	∞	1,000	1,000	100.00%	1,000	0.00%	1,000	0.00%
Other	6635.007	3,585	4,200	85.36%	0	3,500	0.00%	3,500	∞	3,500	0.00%
Subscriptions/Publications	6640.007	782	1,250	62.54%	319	750	42.53%	750	135.11%	750	0.00%
Calif Chamber of Commerce	6645.007	649	0	∞	649	650	99.85%	650	0.15%	670	3.08%
<i>Total Membership/Subscrip.</i>		46,393	47,037	98.63%	43,880	60,699	72.29%	51,525	17.42%	52,670	2.22%
<i>Other Expenses</i>											
Fire extinguisher	6730.007	32	200	15.79%	200	200	100.00%	200	0.00%	200	0.00%
Uniforms, boots, gear	6750.007	0	0	∞	0	130	0.00%	0	∞	0	∞

**Carmel Area Wastewater District
Administration: 2021-22 Operating Expense Budget**

Description	Account #	2019-20			Estimated 2020-21			Proposed 2021-22 Budget	% Chg. Prior Yr. Actual	Projected 2022-23 Budget	% Chg. Prior Yr. Budget
		Actual	Budget	% of Budget	Actual	Budget	% of Budget				
Training	6760.007	1,564	1,000	156.44%	0	1,500	0.00%	1,500	<u>∞</u>	1,500	0.00%
Recruitment	8910.007	0	5,000	0.00%	0	0	<u>∞</u>	0	<u>∞</u>	0	<u>∞</u>
Legal Notices	8920.007	345	2,000	17.25%	480	2,000	24.00%	2,000	316.67%	2,000	0.00%
Rate Payer Claims	8930.007	0	2,500	0.00%	0	2,500	0.00%	2,500	<u>∞</u>	2,500	0.00%
CAWD Newsletter	8940.007	27,798	30,210	92.01%	39,500	32,000	123.44%	34,000	-13.92%	34,000	0.00%
Contingency	8980.007	0	61,205	0.00%	0	0	<u>∞</u>	0	<u>∞</u>	0	<u>∞</u>
Virus supplies		7,898	0	<u>∞</u>	0	0	<u>∞</u>	0	<u>∞</u>	0	<u>∞</u>
<i>Total Other Expense</i>		37,637	102,115	36.86%	40,180	38,330	104.83%	40,200	0.05%	40,200	0.00%
Subtotal Operating Expense		1,096,640	1,698,522	64.56%	1,198,174	1,326,029	90.36%	1,178,633	-1.63%	1,234,272	4.72%
Depreciation Expense	8997.007	34,000	34,000	100.00%	34,000	34,000	100.00%	34,000	0.00%	34,000	0.00%
Amortization Expense	8998.007	0	4,860	0.00%	4,860	4,860	100.00%	4,860	0.00%	4,860	0.00%
Total Operating Expense		1,130,640	1,737,382	65.08%	1,237,034	1,364,889	90.63%	1,217,493	-1.58%	1,273,132	4.57%

**Carmel Area Wastewater District
Administration: 2021-22 Operating Expense Budget**

Description	Comments
<i>Salaries</i>	1.1% Cost of Living and anticipated step increases for 2 employees.
<i>Employee benefits</i>	<p><i>Health Insurance</i> : budget assumes 9% increase each year</p> <p>CalPERS assumes Classic Plan contribution rate in 21-22 of 15.65% and in 22-23 of 15.70% CalPERS assumes PEPRA Plan contribution rate in 21-22 of 14.34% and in 22-23 of 14.35% Assumes UAL in 21-22 of \$38,548 The District is opening a Section 115 Trust to assist in paying off pension unfunded accrued liability.</p> <p><i>Dental</i> : based on 5 year average in self-insured plan</p> <p><i>Disability Insurance</i> : rate decrease due to change in carrier</p>
<i>Director fees</i>	<p><i>Special Board Meetings</i>: Assumes COVID-19 will end and the opportunity to hold special "retreat" will emerge from mothballs</p> <p><i>Committee Meetings</i> : Assumes continued use of Ad Hoc committees and addition of 1 member to Pension Committee</p> <p><i>Dental</i> : based on 5 year average in self-insured plan</p>
<i>Trucks and Autos</i>	<p><i>Gasoline</i> : Assumes COVID-19 will end and we will resume outside meetings and use vehicle more than current year</p>
<i>Property/Liability/Auto Insurance</i>	<p>U.S. Wildfires, Storms, Civil Disorders and '<i>Social Inflation</i>' have created intense pressure on insurers in North America, causing insured losses in the billions, and while COVID -19 has of course added new types of losses to the mix, more so, it has created additional uncertainty which is adding to an already difficult insurance marketplace. Initial cost estimates for CSRMA's various policy renewals were expected to be up in the 10% range. In light of the above market pressure, and adverse loss development in the Pooled Liability Program itself, the Program Administrators are writing to update our estimate of the renewal cost, and we are now of the opinion that it is possible that an increase could come in ultimately more in the range of at a 15% - 25% increase over the current, expiring program. This is the result of a combination of insurance market conditions and loss experience in the Program. While the Program is not experiencing an increase in the frequency (number) of claims, we are seeing an increase in the severity (cost) of claims.</p>

**Carmel Area Wastewater District
Administration: 2021-22 Operating Expense Budget**

Description	Comments
<i>Audit/Financial Expense</i>	Assumes Single Audit for Grants and Regular Annual Audit
<i>Engineering Fees</i>	Placeholder - no specific engineering purpose at this time
<i>Office Supplies and Service</i>	Staff continues to use computers and mobile devices to complete their tasks. Staff has moved away from shared devices due to COVID and each staff has assigned work station and separate office space. Purchase of new laptop for scanning station. <i>Paper & Printing</i> : Assumes purchase of logo envelopes for mass mailings <i>Postage & Shipping</i> : Assumes additional postage for mass mailings
<i>Operating Supplies</i>	Assumes continued purchases of janitorial goods. We do not have janitorial service during COVID-19 and work is being done by staff.
<i>Contractual Services</i>	Actuarial services: difficult to estimate. We have 6 active employees. We have 3 that have separated from service and will retire from plan when they notify District. <i>Landscape Maintenance</i> : Continued at \$4K assuming monthly service and no irrigation system problems.
<i>Repairs & Maintenance</i>	Placeholder amount to fix anything at Admin that requires attention. The building is 31 years old so it is normal to assume that repairs will continue.
<i>Utilities</i>	<i>Electricity & Gas</i> : Assumes 4.4% increase in PG&E

O & M Budget Reclamation

Carmel Area Wastewater District
Reclamation: Operations Budget 2021-22

Description	2019-20			Estimated 2020-21			Proposed 2021-22 Budget	% Chg. Prior Yr. Actual	Projected 2022-23 Budget	% Chg. Prior Yr. Budget
	Actual	Budget	% of Budget	Actual	Budget	% of Budget				
Plant Salaries, Benefits & OH										
Plant Superintendent	20,449	21,230	96.32%	21,900	22,100	99.10%	22,119	1.00%	22,783	3.00%
Laboratory Supervisor	27,870	39,995	69.68%	41,394	41,600	99.50%	41,849	1.10%	43,105	3.00%
Laboratory Technician	68,000	59,380	114.52%	67,446	61,800	109.14%	68,188	1.10%	70,234	3.00%
Plant Operators	149,824	144,065	104.00%	156,308	149,800	104.34%	158,027	1.10%	162,768	3.00%
Maintenance Supervisor	9,485	0	∞	11,636	12,800	90.90%	11,764	1.10%	12,116	3.00%
Maintenance Mechanics	21,823	2,950	739.77%	40,862	3,100	1318.12%	41,311	1.10%	42,551	3.00%
Safety Officer	8,820	0	∞	8,898	9,000	98.86%	8,996	1.10%	9,265	3.00%
Differential	16,858	12,090	139.43%	8,348	12,600	66.25%	8,440	1.10%	8,693	3.00%
Payroll Taxes, Benefits, & OH	161,564	139,855	115.52%	178,395	156,400	114.06%	180,347	1.09%	185,757	3.00%
<i>subtotal</i>	484,693	419,565	115.52%	535,186	469,200	114.06%	541,040	1.09%	557,272	3.00%
Administrative Salaries										
General Manager	1,718	1,320	130.12%	1,634	1,350	121.01%	1,650	1.00%	1,700	3.00%
Project Accountant	10,632	13,645	77.92%	12,746	15,540	82.02%	12,873	1.00%	13,260	3.00%
Engineering	21,199	3,210	660.39%	10,588	15,000	70.59%	10,694	1.00%	11,015	3.00%
Admin. Svcs/Scanner	8,066	6,540	123.34%	11,382	6,540	174.04%	11,496	1.00%	11,841	3.00%
Payroll Taxes, Benefits, & OH	20,808	12,358	168.37%	18,175	19,215	94.59%	18,357	1.00%	18,907	3.00%
<i>subtotal</i>	62,422	37,073	168.38%	54,524	57,645	94.59%	55,070	1.00%	56,722	3.00%
Directors Fees	1,050	1,000	105.00%	600	1,000	60.00%	1,000	66.67%	1,000	0.00%
Insurance	11,811	0	∞	15,344	0	∞	0	-100.00%	0	∞
Operating Supplies/Services	6,825	8,500	80.30%	10,350	8,500	121.76%	8,500	-17.87%	8,500	0.00%
Contract Services	3,176	0	∞	9,442	0	∞	0	-100.00%	0	∞
Repairs & Maintenance	3,806	4,300	88.51%	7,454	4,300	173.35%	4,300	-42.31%	4,300	0.00%
Utilities	0	0	∞	37,854	0	∞	0	-100.00%	0	∞
Safety	205	1,500	13.68%	0	1,000	0.00%	1,500	∞	1,500	0.00%
Total Reimbursable Reclamation	573,988	471,938	121.62%	670,755	541,645	123.84%	611,410	-8.85%	629,293	2.92%
Project Expenditures										

O & M Budget
Waste-to-Energy

Carmel Area Wastewater District
Waste to Energy: Operations Budget 2021-22

Description	Acct	2019-20			Estimated 2020-21			Proposed 2021-22 Budget	% Chg. Prior Yr. Actual	Projected 2022-23 Budget	% Chg. Prior Yr Budget
		Actual	Budget	% of Budget	Actual	Budget	% of Budget				
Salaries & Payroll Taxes											
Salaries	5030.009	9,168	100	9167.60%	1,335	100	1334.54%	1,000	-25.07%	1,000	0.00%
Payroll taxes	5045.009	709	8	8857.63%	102	8	1276.15%	77	-25.07%	77	0.00%
<i>subtotal</i>		9,876	108	9144.64%	1,437	108	1330.22%	1,077	-25.07%	1,077	0.00%
Office Expense											
Paper & printing	5550.009	0	0	∞	0	0	∞	0	∞	50	∞
<i>subtotal</i>		0	0	∞	0	0	∞	0	∞	50	∞
Operating Supplies											
Electrical	5690.009	8,626	2,000	431.29%	0	2,000	0.00%	5,000	∞	5,000	0.00%
<i>subtotal</i>		8,626	2,000	431.29%	0	2,000	0.00%	5,000	∞	5,000	0.00%
Repairs & Maintenance											
General Repairs	6095.009	6,612	0	∞	2,814	0	∞	3,000	6.59%	3,000	0.00%
<i>subtotal</i>		6,612	0	∞	2,814	0	∞	3,000	6.59%	3,000	0.00%
Permits & Fees											
Dept of Food & Ag	6505.009	7,100	7,000	101.43%	7,100	7,000	101.43%	7,200	1.41%	7,300	1.39%
<i>subtotal</i>		7,100	7,000	101.43%	7,100	7,000	101.43%	7,200	1.41%	7,300	1.39%
NI Waste to Energy		32,214	9,108	353.69%	11,351	9,108	124.63%	16,277	43.39%	16,427	0.92%

**Carmel Area Wastewater District
Waste to Energy: Operating Expense Budget 2021-22**

Description	Comments
<i>Waste to Energy</i>	New Organic recycle laws that went into effect at the end of 2020 will give the opportunity for CAWD to increase potentially the amount of food waste and organics to produce more digester gas and allow the micro-turbines to operate at full production outputs in the future. Staff along with the Principle Engineer for the CAWD are actively searching for potential Grants to further enhance the Waste to Energy Program.

O & M Budget Brine Disposal

Carmel Area Wastewater District
Brine Disposal: Operations Budget 2021-22

Description	Acct	2019-20			2020-21			Proposed 2021-22 Budget	% Chg. Prior Yr. Actual	Projected 2022-23 Budget	% Chg. Prior Yr Budget
		Actual	Budget	% of Budget	Actual	Budget	% of Budget				
Salaries & Payroll Taxes											
Salaries		1,781	1,310	135.94%	1,648	1,750	106.20%	1,500	-8.97%	1,500	0.00%
Overtime		0	0	∞	0	0	∞	∞	∞	∞	∞
Payroll taxes		137	100	137.49%	126	134	106.30%	115	-8.97%	77	-32.90%
<i>subtotal</i>		1,918	1,410	136.05%	1,774	1,884	106.21%	1,615	91.03%	1,577	-2.34%
Office Expense											
Paper & printing		229	0	∞	0	0	∞	25	∞	25	∞
<i>subtotal</i>		229	0	∞	0	0	∞	25	∞	25	∞
Operating Supplies											
Electrical		1,597	2,500	63.89%	0	1,500	∞	700	∞	700	0.00%
General supplies		2,877	0	∞	0	0	∞	500	∞	500	∞
<i>subtotal</i>		4,475	2,500	178.99%	0	1,500	∞	1,200	∞	1,200	0.00%
Repairs & Maintenance											
General Repairs		298	2,000	14.91%	2,000	4,000	200.00%	2,000	0.00%	2,000	0.00%
Plant Pumps		0	0	∞	0	500	∞	500	∞	500	0.00%
Centrifugal Pumps		0	0	∞	0	0	∞	0	∞	0	∞
Instruments		0	2,000	0.00%	0	0	∞	0	∞	0	∞
Chlorine/Dechlorinator		0	0	∞	0	0	∞	0	∞	0	∞
<i>subtotal</i>		298	4,000	7.46%	2,000	4,500	225.00%	2,500	25.00%	2,500	0.00%
Lab Services		0	0	∞	1,150	0	0.00%	0	∞	0	∞
Safety supplies		0	0	∞	0	0	∞	0	∞	0	∞
<i>NI Waste to Energy</i>		6,921	7,910	87.49%	4,924	7,884	160.12%	5,340	8.45%	5,302	-0.71%

**Carmel Area Wastewater District
Brine Disposal: Operating Expense Budget 2021-22**

Description	Comments
<i>Brine Disposal</i>	Brine Disposal will be a challenge for the upcoming year as some clients are developing alternative disposal or recycle options which may effect the total amount of loads received by the treatment facility. Staff continues to receive inquiries on what disposal services CAWD can provide. All of these inquiries are vetted to the Plant Engineer to ensure they will not affect any treatment process or permit requirements.

Capital Budget Summary

2021-2022

Carmel Area Wastewater District
Capital Budget Summary 2021-22

ITEM	ALLOCATION						Totals
	Admin	Maintenance	Collection	Treatment	PBCSD	Reclamation	
1 CIP Projects for Administration	66,691						66,691
2 CIP Maintenance - Plant		16,000				8,000	24,000
3 CIP Projects for Collection System			5,635,000				5,635,000
4 CIP Projects for Treatment & Disposal				33,350	16,650	0	50,000
5 CIP Long Term Capital Plan for Treatment & Disposal				3,473,069	1,733,931	193,000	5,400,000
Total CIP	66,691	16,000	5,635,000	3,506,419	1,750,581	201,000	11,175,691
1 Capital Equipment - Administration	0						0
2 Capital Equipment - Maintenance		0					0
3 Capital Equipment - Collections			82,508				82,508
4 Capital Equipment - Treatment				4,502	2,248	6,750	13,500
Total Capital Outlay	0	0	82,508	4,502	2,248	6,750	96,008
Grant Funding				(667,000)		(333,000)	(1,000,000)
Total CIP & Capital Outlay 19-20	66,691	16,000	5,717,508	2,843,921	1,752,829	207,750	10,271,699

Capital Budget Summary

2022-23

Carmel Area Wastewater District
Capital Budget Summary 2022-23

ITEM	ALLOCATION						Totals
	Admin	Maintenance	Collection	Treatment	PBCSD	Reclamation	
1 CIP Projects for Administration	124,400						124,400
2 CIP Maintenance - Plant		0					0
3 CIP Projects for Collection System			3,397,500				3,397,500
4 CIP Projects for Treatment & Disposal				0			0
5 CIP Long Term Capital Plan for Treatment & Disposal				3,631,775	1,806,225	2,000	5,440,000
Total CIP	124,400	0	3,397,500	3,631,775	1,806,225	2,000	8,961,900
1 Capital Equipment - Administration	7,000						7,000
2 Capital Equipment - Maintenance		0					0
3 Capital Equipment - Collections			0				0
4 Capital Equipment - Treatment				10,005	4,995	135,000	150,000
Total Capital Outlay	7,000	0	0	10,005	4,995	135,000	157,000
Grant Funding				(1,534,100)		(765,900)	(2,300,000)
Total CIP & Capital Outlay 20-21	131,400	0	3,397,500	2,107,680	1,811,220	137,000	6,818,900

**Capital Budget
Maintenance – CIP**

1 FY 2021-22 Budget
Carmel Area Wastewater District

Contact: Foley
Area: Misc Structures
Asset Type: Support Equipment
Avg Useful Life: 10 years
Est Residual Life: 1 year
% Consumed Life: 100
Category: Maintenance
Urgency: 3 = Important
Carry Forward: No

Project Name: Treatment Plant Access Control and Camera Project
Dept: Maintenance
Total Cost: \$ 24,000
CY Budget \$ 24,000
GL Account:

Asset Description

Network cameras at the treatment plant for security and access control. Cameras are used to monitor front gate and haulers. Access control system allows contractors, staff and deliveries into the treatment plant. Total of 5 outdoor cameras and 2 indoor cameras. Includes 10 year cloud recording license and 10 hardware warranty.

Year Built: 2010

Rehabilitation Date (Extending life of Asset): NA

Rehab Life Extension: NA

Asset Condition Rating: 10 Unserviceable Replace

Justification

The cameras are failing due to age and water intrusion. There is a separate wifi radio network that is failing. The camera video recorder and gate access control both run on unsecure Windows 7 servers. The new system would eliminate the local servers and be more secure and eliminate the need for a dedicated wifi network and use existing network hardware. This is system is critical for access control, monitoring after hours, deliveries and will be valuable during construction projects.

Asset Risk Management Strategy

Capital Improvement Risk Moderate Repair
Maintenance Risk Management Corrective Maintenance
Non Asset Risk Management Take Asset out of Service

Funding Source

Primary Capital Budget Secondary

Budget Impact/Other	Prior Yr	21-22	22-23	23-24	24-25	25-26	Unscheduled	Total
Labor		7,000					\$	7,000
Engineering							\$	-
Parts & Supplies		17,000					\$	17,000
Chemicals							\$	-
Utility							\$	-
Other							\$	-
Total		\$ 24,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 24,000

**Capital Budget
Collections Dept –
Capital Purchases**

1 **FY 2021-22 Budget**
Carmel Area Wastewater District

Contact: Foley
Area: Vehicle
Asset Type: Vehicle Fleet
Avg Useful Life: 10 years
Est Residual Life: 1 year
% Consumed Life: 100%
Category: Capital Equipment
Urgency: 3 = Important
Carry Forward: Yes

Project Name: Replace Pump Round Truck Unit (#8)
Dept: Collections
Total Cost: \$ 82,503
CY Budget \$ 82,503
GL Account:

Asset Description

The Ford F-250 is one of the District's first response vehicles for most emergencies. It is an integral part of the Collections System operations and maintenance. Tools used to mitigate SSO's, equipment to make quick field repairs, paint to mark our sewer lines for Underground Service Alert (USA) requests and equipment used for other repairs as needed are kept in the locked utility storage cabinets. This truck is also the primary vehicle used for towing the standby generators to pump stations. It has a utility bed that provides storage for all the required tools for essential field functions and roof racks to transport lengths of pipe, ladders and other materials. Additionally, this truck is the only vehicle with a crane on it, which is used to hoist pumps into and out of wet wells for service and replacement. The crane is also used at the treatment plant when needed.

The purchase was approved in September 2020 by Resolution 2020-60 for \$82,507K. Due to COVID-19 pandemic the waiting time for new vehicles has been extended and this item is rolled over to 21-22 budet.

Year Built: 2009
Rehabilitation Date (Extending life of Asset): n/a
Rehab Life Extension: n/a
Asset Condition Rating: 7 Significant Deterioration

Justification

This truck's mileage is currently 76,963 and is showing the results of wear and tear for a ten year old truck that is regularly used. The truck has an ongoing oil leak in the rear main oil seal and the repair of this one problem is estimated to cost \$6K. With it's mileage and age, it is anticipated to continue to need repairs in the next few years that will require it to be out of service. This is a vehicle that needs to be reliable and available at all times. This is an opportunity to install a larger crane that can be used at the treatment plant as well as in collections.

Asset Risk Management Strategy

Capital Improvement Risk | Rehabilitation/Replacement
Maintenance Risk Management
Non Asset Risk Management

Funding Source

Primary Capital Budget Secondary

Budget Impact/Other

	Prior Yr	21-22	22-23	23-24	24-25	25-26	Unscheduled	Total
Labor							\$	-
Engineering							\$	-
Parts & Supplies		82,503					\$	82,503
Chemicals							\$	-
Utility							\$	-
Other							\$	-
Total		\$ 82,503	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 82,503

2 FY 2021-22 Budget
Carmel Area Wastewater District

Contact: Lauer
Area: Vehicle
Asset Type: Vehicle Fleet
Avg Useful Life: 12 years
Est Residual Life 3 years
% Consumed Lif 85
Category: Capital Equipment
Urgency: 4 = Less Important
Carry Forward: No

Project Name: Replace Collection Superintendent Truck (#17)
Dept: Collections
Total Cost: \$ 45,000
CY Budget \$ -
GL Account:

Asset Description

Chevy 4X4 truck (Unit #17) primary use as the Collection Superintendent's vehicle with a dual purpose of employee conference vehicle. This vehicle was purchased in 2009 and currently has 95,000 miles on it.

Year Built: 2009
Rehabilitation Date (Extending life of Asset): n/a
Rehab Life Extension: n/a
Asset Condition Rating: 5 Moderate Deterioration

Justification

Replacement of the 2009 Chevy 4x4 (Unit #17) which currently has 95,000 miles on it. This truck is the Collections Superintendent truck as well as the main vehicle for transportation of the Collection staff to/from conferences and training.
Estimate 12 year lifespan.

Asset Risk Management Strategy

Capital Improvement Risk Rehabilitation/Replacement
Maintenance Risk Management Preventative Maintenance
Non Asset Risk Management

Funding Source

Primary Capital Budget Secondary

Budget Impact/Other

	Prior Yr	21-22	22-23	23-24	24-25	25-26	26-27	Total
Labor							\$	-
Engineering							\$	-
Parts & Supplies				45,000			\$	45,000
Chemicals							\$	-
Utility							\$	-
Other							\$	-
Total		\$ -	\$ -	\$ 45,000	\$ -	\$ -	\$ -	\$ 45,000

3 FY 2021-22 Budget
Carmel Area Wastewater District

Contact: Lauer
Area: Pump Station
Asset Type: Pump Station
Avg Useful Life: 20 years
Est Residual Life 5 years
% Consumed Lif 80
Category: Capital Equipment
Urgency: 3 = Important
Carry Forward: No

Project Name: Replace Pumps at Monte Verde Pump Station
Dept: Collections
Total Cost: \$ 25,000
CY Budget \$ -
GL Account:

Asset Description

Flygt model 3127 pumps at Monte Verde and 16th pump station. These pumps were installed in the wet well at Monte Verde during the station upgrade in 2003.

Year Built: 2003
Rehabilitation Date (Extending life of Asset): n/a
Rehab Life Extension: n/a
Asset Condition Rating: 3 Minor Defects Only

Justification

Optimizing pump efficiency by in-depth predictive maintenance would only affect the power use by about 10% at most. That would be less than \$200/mo for all stations combined. Pump efficiency testing at pump stations should only be done at Highlands because over 50% of power use in the collection system is at Highlands and that station has the most recurring pump maintenance issues. However, even Highlands is a small electrical load compared to the major equipment at the plant. Therefore, staff recommends we are selective on where we do regular pump efficiency testing as a predictive maintenance task. Recommend drawing the line at 24 hp pumps and those that run 24/7. Our focus is on reliability and major losses of efficiency.

Manufacturer represents 20 yrs lifespan as average. Monte Verde pump is currently in good shape. On scale of 1-5 would rate a 3.

Goal is to implement testing and maintenance that will give us an idea of pump performance but it will result in no action unless there is a high risk of immediate failure.

Asset Risk Management Strategy

Capital Improvement Risk Plan Rehabilitation/Replacement
Maintenance Risk Management Predictive & Preventative Maintenance
Non Asset Risk Management

Funding Source

Primary Capital Budget Secondary

Budget Impact/Other

	Prior Yr	21-22	22-23	23-24	24-25	25-26	26-27	Total
Labor								\$ -
Engineering								\$ -
Parts & Supplies					25,000			\$ 25,000
Chemicals								\$ -
Utility								\$ -
Other								\$ -
Total		\$ -	\$ -	\$ -	\$ 25,000	\$ -	\$ -	\$ 25,000

4 FY 2021-22 Budget
Carmel Area Wastewater District

Contact: Lauer
 Area: Pump Station
 Asset Type: Pump Station
 Avg Useful Life: 20 years
 Est Residual Life 5 years
 % Consumed Lif 80
 Category: Capital Equipment
 Urgency: 3 = Important
 Carry Forward: No

Project Name: Replace Pumps at Bay and Scenic Pump Station
 Dept: Collections
 Total Cost: \$ 25,000
 CY Budget \$ -
 GL Account:

Asset Description

Flygt model 3127 pumps at Bay & Scenic pump station. These pumps are a dry pit installation that took place during the station upgrade in 2004.

Year Built: 2003
 Rehabilitation Date (Extending life of Asset): n/a
 Rehab Life Extension: n/a
 Asset Condition Rating: 4 Minor Defects Only

Justification

Optimizing pump efficiency by in-depth predictive maintenance would only affect the power use by about 10% at most. That would be less than \$200/mo for all stations combined. Pump efficiency testing at pump stations should only be done at Highlands because over 50% of power use in the collection system is at Highlands and that station has the most recurring pump maintenance issues. However, even Highlands is a small electrical load compared to the major equipment at the plant. Therefore, staff recommends we are selective on where we do regular pump efficiency testing as a predictive maintenance task. Recommend drawing the line at 24 hp pumps and those that run 24/7. Our focus is on reliability and major losses of efficiency.

Manufacturer represents 20 yrs lifespan as average. Monte Verde pump is currently in fair/poor shape. On scale of 1-5 would rate a 4.

Goal is to implement testing and maintenance that will give us an idea of pump performance but it will result in no action unless there is a high risk of immediate failure.

Asset Risk Management Strategy

Capital Improvement Risk Rehabilitation/Replacement
 Maintenance Risk Management Predictive & Preventative Maintenance
 Non Asset Risk Management

Funding Source

Primary Capital Budget Secondary

Budget Impact/Other

	Prior Yr	21-22	22-23	23-24	24-25	25-26	26-27	Total
Labor								\$ -
Engineering								\$ -
Parts & Supplies					25,000			\$ 25,000
Chemicals								\$ -
Utility								\$ -
Other								\$ -
Total		\$ -	\$ -	\$ -	\$ 25,000	\$ -	\$ -	\$ 25,000

**Capital Budget
Collections Dept.
Capital Improvement Projects**

Project #	PROJECT	21/22	22/23	23/24	24/25	25/26	26/27	27/28	28/29	29/30	30/31	31/32	Unscheduled	Total
1	Carmel Meadows Pipeline (Carryover)	\$1,500,000												\$1,500,000
2	Scenic Pipe Bursting- Ocean to Bay (Carryover)	\$1,200,000												\$1,200,000
3	Pescadero Creek Area Pipe Rehab	\$450,000	\$1,250,000											\$1,700,000
4	Sewer Rehab-Mission & San Carlos From Ocean to 2nd	\$250,000	\$712,500											\$962,500
5	Bay/Scenic PS Rehabilitation (Carryover)	\$250,000	\$500,000											\$750,000
6	Manhole Rehabilitation (30-50 per year)	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$1,800,000
7	Spot Repair Projects at Various Locations	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$900,000
8	Carmel Woods Sewer Rehab		\$390,000	\$1,500,000										\$1,890,000
9	Calle La Cruz Forcemain Rehab-from Plant to new pipe			\$350,000	\$1,000,000									\$1,350,000
10	Sewer Rehab - Lincoln Ave. from 1st to 10th		\$250,000	\$1,000,000										\$1,250,000
11	Dewatering Pit at Treatment Plant (30% Treatment)		\$70,000											\$70,000
12	Sewer Rehab- Dolores from 4th to 10th			\$250,000	\$864,000									\$1,114,000
13	Electrical Upgrades at Hacienda PS			\$140,000										\$140,000
14	Monte Verde PS and Sewer rehab-South of Santa Lucia				\$250,000	\$1,500,000								\$1,750,000
15	Sewer Rehab -11th Street from Junipero to Rio Road				\$250,000	\$1,000,000								\$1,250,000
16	Rio Road Bioswale Pipeline Replacement					\$800,000								\$800,000
17	Sewer Rehab-Santa Rita and Guadalupe btw Ocean & Serra					\$250,000	\$1,728,000							\$1,978,000
18	Sewer Rehab- Camino Real from 4th to Walker								\$150,000	\$1,555,200				\$1,705,200
19	Mission Fields Sewer Rehab							\$300,000	\$1,200,000					\$1,500,000
20	Sewer Rehab- Pico between 1st & Cabrillo								\$250,000	\$700,000				\$950,000
21	Calle La Cruz PS Relocation									\$500,000	\$1,000,000			\$1,500,000
22	Hacienda Area Sewer Rehab									\$250,000	\$1,200,000			\$1,450,000
23	Carmel Meadows Collection System Rehab									\$250,000	\$1,000,000			\$1,250,000
24	Carmel Knolls Area Sewer Rehab										\$250,000	\$1,000,000		\$1,250,000
25	Upsize lower Rancho Canada Trunkline												\$410,000	\$410,000
26	Upper Rancho Canada Pipe Relocation (Carryover)	\$1,760,000												\$1,760,000
	Collections TOTAL	\$5,635,000	\$3,397,500	\$3,465,000	\$2,589,000	\$3,775,000	\$1,953,000	\$525,000	\$1,825,000	\$3,480,200	\$3,675,000	\$1,225,000	\$635,000	\$32,179,700
	FEMA Grant Funding												\$0	\$0
	PBCSD Share												\$0	\$0
	CAWD COST	\$5,635,000	\$3,397,500	\$3,465,000	\$2,589,000	\$3,775,000	\$1,953,000	\$525,000	\$1,825,000	\$3,480,200	\$3,675,000	\$1,225,000	\$635,000	\$32,179,700

1 **FY 2021-22 Budget**
Carmel Area Wastewater District

Contact: Lather
Area Sewer Lines

Project Name: Carmel Meadows Pipeline (Carryover)
Project Number: 19-03
Dept.: Collections
10 yr. Cap Projection: \$ 1,785,445.00
CY Budget \$ 1,500,000.00
GL Account:

Asset Type: N/A
Avg Useful Life: 40 years
Est Residual Life: 5 years
% Consumed Life: n/a
Category: Capital Improvement
Urgency: 1 = Critical
Carry Forward: yes

Asset Description

The project consists of removing eight manholes and 1300 feet of Ductile Iron Pipe (DIP) on a aerial span. The sewerline flows will be directed to a small pump station at the end of Mariposa Drive and pumped into the existing force main on Ribera Road to Calle la Cruz Pump Station. This project is located on a easement parallel to Ribera Road and was originally installed in the early 1960's.

Year Built: 1960s
Rehabilitation Date (Extending life of Asset): n/a
Rehab Life Extension: 30
Asset Condition Rating: PACP =5 (Most dignificant defect grade)

Justification

This pipeline is located on aerial supports downhill of the homes and directly above the Carmel Lagoon. There have been multiple spills along this pipeline. The expansion of the lagoon has resulted in ponding water adjacent to the footings of the aerial supports which are slowly being undermined. Future work by others to increase flows in the lagoon will exacerbate this problem and the best solution is to remove the pipeline from this location. The project includes removing the existing pipe supports and returning landscape to a natural state. Liklihood of failure - high due to structural failure. Consequence of failure - potential spill volume in an environmental lagoon & environmental impact upon said lagoon.

Capital Improvement Risk: Plan Rehabilitation/Replacement
Maintenance Risk Mgmt
Non Asset Risk Mgmt

Funding Source

Primary Capital Budget Secondary n/a

Budget Impact/Other

	Prior Yrs.	21-22	22-23	23-24	25-26	26-27	Total
Labor		1,400,000					\$ 1,400,000
Engineering	\$285,445	100,000					\$ 385,445
Parts & Supplies							\$ -
Chemicals							\$ -
Utility							\$ -
Other							\$ -
Total		\$ 1,500,000	\$ -	\$ -	\$ -	\$ -	\$ 1,785,445

2 **FY 2021-22 Budget**
Carmel Area Wastewater District

Contact: Lather
 Area Sewer Lines

Project Name: Scenic Pipe Bursting- Ocean to Bay (Carryover)
 Dept.: Collections
 10 yr. Cap Projection: \$ 1,200,000.00
 CY Budget \$ 1,200,000.00
 GL Account:

Asset Type: N/A
 Avg Useful Life: 40 years
 Est Residual Life: 5 years
 % Consumed Life: n/a
 Category: Capital Improvement
 Urgency: 1 = Critical
 Carry Forward: Yes

Asset Description

This asset is approximately 4,000 feet of 6" pipe on Scenic that runs from Ocean Street to Bay. These segments of pipe have been in service for over 70 years.

Year Built: 1950's
 Rehabilitation Date (Extending life of Asset): n/a
 Rehab Life Extension: 40
 Asset Condition Rating: PACP = 5 (Most significant defect grade)

Justification

According to the Asset Management Plan, this section of pipelines has a high consequence of failure and was included in the list of high priority lines to be rehabilitated. The pipeline had capacity issues during wet weather. It is directly upstream of the Bay & Scenic pump station. This pipeline is located within 200 feet of a body of water and replacement will satisfy the requirements of the River Watch Settlement Agreement. There are plans by the City to slurry seal this road in 2022 from Ocean to 8th Avenue. Consequence of failure - high potential spill volume and environmental impact due to location near the ocean shoreline.

Asset Risk Management Strategy

Capital Improvement Risk Plan Rehabilitation/Replacement
 Maintenance Risk Mgmt
 Non Asset Risk Mgmt

Funding Source

Primary Capital Budget Secondary n/a

Budget Impact/Other

	Prior Yr.	21-22	22-23	23-24	24-25	25-26	26-27	Total
Labor		1,000,000						\$ 1,000,000
Engineering		200,000						\$ 200,000
Parts & Supplies								\$ -
Chemicals								\$ -
Utility								\$ -
Other								\$ -
Total		\$ 1,200,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,200,000

3 **FY 2021-22 Budget**
 Carmel Area Wastewater District

Contact: Lather
 Area Sewer Lines
 Asset Type: N/A
 Avg Useful Life: 40 years
 Est Residual Life: 5 years
 % Consumed Life: 95
 Category: Maintenance
 Urgency: 3 = Important
 Carry Forward: Yes

Project Name: Pescadero Creek Area Pipe Rehab
 Dept.: Collections
 10 yr. Cap Projection: \$ 1,700,000.00
 CY Budget \$ 450,000.00
 GL Account:

Asset Description

This asset is approximately 2,500 feet of 6" pipe on Pescadero that runs from Manhole N609 near 2nd Avenue and along the slope above Pescadero Creek to Lincoln Street. These segments of pipe have been in service for over 100 years and may need to be routed to Lincoln Avenue with ejector pumps set up at each home. This pipeline is within 200 feet of Pescadero Creek and it's replacement is in compliance with the River Watch agreement.

Year Built: 1950s
 Rehabilitation Date (Extending life of Asset): n/a
 Rehab Life Extension: 40
 Asset Condition Rating: PACP = 5 (Most significant defect grade)

Justification

According to the Asset Management Plan, this section of pipelines has a moderately high likelihood of failure and was included in the list of high priority lines to be rehabilitated. The pipeline is located along the backyards of homes and uphill of the Pescadero Creek. A study of the sewer alternatives was completed by MNS Engineers. It is anticipated that it will take a year to obtain the permits for this work and to complete outreach to moneowners regarding the need for ejector pump systems as part of the pipeline relocation. Likelihood of failure -moderately high due to possible structural failuere, maintenance blockages, and capacity related SSOs. Consequence of failure is environmental - the high potential of sewage spilling into Pescadero Creek.

Asset Risk Management Strategy

Capital Improvement Risk Plan Rehabilitation/Replacement
 Maintenance Risk Mgmt Predictive & Preventative
 Non Asset Risk Mgmt

Funding Source

Primary Capital Budget Secondary n/a

Budget Impact/Other		Prior Yr.	21-22	22-23	23-24	24-25	25-26	26-27	Total
Labor				\$ 1,250,000					\$ 1,250,000
Engineering			450,000						\$ 450,000
Parts & Supplies									\$ -
Chemicals									\$ -
Utility									\$ -
Other									\$ -
Total			\$ 450,000	\$ 1,250,000	\$ -	\$ -	\$ -	\$ -	\$ 1,700,000

4 **FY 2021-22 Budget**
Carmel Area Wastewater District

Contact: Lather
 Area Sewer Lines
 Asset Type: N/A
 Avg Useful Life: 10 years
 Est Residual Life:
 % Consumed Life:
 Category: Maintenance
 Urgency: 3 = Important
 Carry Forward: No

Project Name: Sewer Rehab-Mission & San Carlos From Ocean to 2nd
 Dept.: Collections
 10 yr. Cap Projection: \$ 962,500.00
 CY Budget \$ 250,000.00
 GL Account:

Asset Description

This asset is approximately 3,500 feet of 6" pipe on parallel streets of Mission and San Carlos from Ocean to 2nd. Reahabilitation of these pipelines is planned to be completed prior to planned paving work in 2024. Plan on pipe bursting \$275/ft = 700K

Year Built: 1950s
 Rehabilitation Date (Extending life of Asset): N/A
 Rehab Life Extension: 30
 Asset Condition Rating: 8 (Significant repairs)

Justification

According to the Asset Management Plan, this section of pipelines has a moderately high likelihood of failure and was included in the list of high priority lines to be rehabilitated. There are capacity issues with this line on 12th Avenue. Likelihood of failure - moderately high due to structural and capacity related SSOs. Consequence of failure - Potential Spill volume caused by structural failure

Asset Risk Management Strategy

Capital Improvement Risk: Plan Rehabilitation/Replacement
 Maintenance Risk Management:
 Non Asset Risk Management:

Funding Source

Primary Capital Budget Secondary n/a

Budget Impact/Other

	Prior Yr.	21-22	22-23	23-24	24-25	25-26	26-27	Total
Labor			712,500	-				\$ 712,500
Engineering		250,000						\$ 250,000
Parts & Supplies								\$ -
Chemicals								\$ -
Utility								\$ -
Other								\$ -
Total		\$ 250,000	\$ 712,500	\$ -	\$ -	\$ -	\$ -	\$ 962,500

5 **FY 2021-22 Budget**
Carmel Area Wastewater District

Contact: Lather
Area Sewer Lines
Asset Type: N/A
Avg Useful Life: 10 years
Est Residual Life: 1 year
% Consumed Life: 95
Category: Maintenance
Urgency: 3 = Important
Carry Forward: No

Project Name: Bay/Scenic PS Rehabilitation (Carryover)
Dept.: Collections
10 yr. Cap Projection: \$ 750,000.00
CY Budget \$ 250,000.00
GL Account:

Asset Description

Bay & Scenic pump station is currently serving more than 200 properties in the Carmel Point area and has been in service since the 1950's. It is an important asset to prevent sewage from spilling into the ocean.

Year Built: 1920s
Rehabilitation Date (Extending life of Asset): N/A
Rehab Life Extension: 40
Asset Condition Rating: 5 (Normal preventative maintenance, major corrective maintenance)

Justification

This pump station is located adjacent to the Pacific Ocean underneath a public roadway. Due to the existing topography, this pump station cannot be relocated or otherwise decommissioned. For several years staff has observed erosion and deterioration of the decorative Carmel stone facade that protects the pump station from ocean forces during high tides and storm surges. In 2008 the County performed hardscaping (shotcrete) of some of the banks adjacent to the pump station to protect the slopes and extend the life of the roadway. Since that time erosion of the sandstone protecting the pump station has continued and is becoming a concern to staff. Remodeling the pump station to locate pumps, motors, and SCADA panels within protected areas of the existing station will be included in the design. Further protection of the stone facade will be addressed in the future. Likelihood of failure - moderate due to structural issues Consequence of failure - Potential spills, Sea level rise, King tides

Asset Risk Management Strategy

Capital Improvement Risk: Plan Rehabilitation/Replacement
Maintenance Risk Management: Predictive & Preventative Maintenance
Non Asset Risk Management:

Funding Source

Primary Capital Budget Secondary n/a

Budget Impact/Other

	Prior Yr.	21-22	22-23	23-24	24-25	25-26	26-27	Total
Labor			500,000					\$ 500,000
Engineering		250,000						\$ 250,000
Parts & Supplies								\$ -
Chemicals								\$ -
Utility								\$ -
Other								\$ -
Total		\$ 250,000	\$ 500,000	\$ -	\$ -	\$ -	\$ -	\$ 750,000

6 **FY 2021-22 Budget**
Carmel Area Wastewater District

Contact: Lather
 Area Sewer Lines

Project Name: Manhole Rehabilitation (30-50 per year)
 Dept.: Collections
 10 yr. Cap Projection: \$ 900,000.00
 CY Budget \$ 150,000.00
 GL Account:

Asset Type: N/A
 Avg Useful Life: 40 years
 Est Residual Life: 5 years
 % Consumed Life: 95
 Category: Maintenance
 Urgency: 3 = Important
 Carry Forward: Yes

Asset Description

Selected brick and mortar manholes within the District that need to be rehabilitated based on visual inspections. Many are over 100 years old.

Year Built: 1940's
 Rehabilitation Date (Extending life of Asset): N/A
 Rehab Life Extension: 40
 Asset Condition Rating: 4 (Normal preventative maintenance, minor corrective maintenance)

Justification

Lining of damaged brick and mortar manholes will reduce exfiltration that results in leaking into the groundwater and infiltration that can result in sewer overflows. In addition, per the River Watch Settlement agreement, manholes are to be inspected and those in poor condition are required to be rehabilitated. Manholes will be replaced or lines as part of pipeline replacement work. Other manholes that are found to be in poor condition will be rehabilitated as part of this project. Likelihood of failure - moderate due to structural issues from damaged brick and mortar Consequence of failure - environmental, exfiltration due to leaking

Asset Risk Management Strategy

Capital Improvement Risk: Plan Rehabilitation/Replacement
 Maintenance Risk Management: Predictive & Preventative Maintenance
 Non Asset Risk Management:

Funding Source

Primary Capital Budget Secondary n/a

Budget Impact/Other

	Prior Yr.	21-22	22-23	23-24	24-25	25-26	26-27	Total
Labor		130,000	130,000	130,000	130,000	130,000	130,000	\$ 780,000
Engineering		20,000	20,000	20,000	20,000	20,000	20,000	\$ 120,000
Parts & Supplies								\$ -
Chemicals								\$ -
Utility								\$ -
Other								\$ -
Total		\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 900,000

7 **FY 2021-22 Budget**
Carmel Area Wastewater District

Contact: Lather
 Area Sewer Lines

Project Name: Sewer Repair Projects at Various Locations
 Dept.: Collections
 10 yr. Cap Projection: \$ 450,000.00
 CY Budget \$ 75,000.00
 GL Account:

Asset Type: N/A
 Avg Useful Life: 40 years
 Est Residual Life: 5 years
 % Consumed Life:
 Category: Maintenance
 Urgency: 3 = Important
 Carry Forward: No

Asset Description

Based on the results of pipeline video work (CCTV) we plan to perform point repairs and pipe lining for segments that are otherwise in good condition and do not have capacity issues. This will be less expensive than full rehabilitation and will satisfy the intent of the River Watch Settlement Agreement.

Year Built: various
 Rehabilitation Date (Extending life of Asset): N/A
 Rehab Life Extension: 40
 Asset Condition Rating: PACP = 5 (Most significant defect grade)

Justification

Many of the sewer lines within the District can be improved with spot repairs rather than complete replacement. Pipes with condition ratings of 5 can be quickly rehabilitated less expensively using these methods and will produce results that will satisfy the River Watch Settlement agreement. Grouping the point repairs into one project will improve the bidding environments and overall cost to do the work. Likelihood of failure - moderate due to structural issues with sections of the line and maintenance blockages Consequence of failure - Potential spill volume, environmental impact, emergency response

Asset Risk Management Strategy

Capital Improvement Risk: Plan Rehabilitation/Replacement
 Maintenance Risk Management:
 Non Asset Risk Management:

Funding Source

Primary Capital Budget Secondary n/a

Budget Impact/Other

	Prior Yr.	21-22	22-23	23-24	24-25	25-26	26-27	Total
Labor		75,000	75,000	75,000	75,000	75,000	75,000	\$ 450,000
Engineering								\$ -
Parts & Supplies								\$ -
Chemicals								\$ -
Utility								\$ -
Other								\$ -
Total		\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 450,000

8 **FY 2021-22 Budget**
Carmel Area Wastewater District

Contact: Lather
Area Sewer Lines
Asset Type: N/A
Avg Useful Life: 40 years
Est Residual Life: 5 years
% Consumed Life: 95
Category: Maintenance
Urgency: 3 = Important
Carry Forward: Yes

Project Name: Carmel Woods Sewer Rehab
Dept.: Collections
10 yr. Cap Projection: \$ 1,890,000.00
CY Budget \$ -
GL Account:

Asset Description

This asset is approximately 8,000 feet of 6" pipe in the Carmel Woods Subdivision. These segments of pipe have been in service for over 100 years. This area is within 200 feet of Pescadero Creek and it's replacement is in compliance with the River Watch agreement.

Year Built: 1920's
Rehabilitation Date (Extending life of Asset): N/A
Rehab Life Extension: 50
Asset Condition Rating: 5 (Normal preventative maintenance, major corrective maintenance)

Justification

The pipe in this area is near Pescadero Creek and based on video inspection are in poor condition. These lines were identified in the Asset Management Plan as having a high likelihood of failure. The pipeline is not adjacent to the creek but portions are within 300 feet of the creek. Likelihood of failure - moderate due to structural issues with portions of the line and capacity failure. Consequence of failure - Potential spill volume and environmental impacts due to closeness to body of water.

Asset Risk Management Strategy

Capital Improvement Risk: Plan Rehabilitation/Replacement
Maintenance Risk Management: Predictive & Preventative Maintenance
Non Asset Risk Management:

Funding Source

Primary Capital Budget Secondary n/a

Budget Impact/Other

	Prior Yr.	21-22	22-23	23-24	24-25	25-26	26-27	Total
Labor				1500000	-			\$ 1,500,000
Engineering			\$390,000					\$ 390,000
Parts & Supplies								\$ -
Chemicals								\$ -
Utility								\$ -
Other								\$ -
Total		\$ -	\$ 390,000	\$ -	\$ -	\$ -	\$ -	\$ 1,890,000

10 **FY 2021-22 Budget**
Carmel Area Wastewater District

Contact: Lather

Area Sewer Lines

Asset Type: N/A

Avg Useful Life: 40 years

Est Residual Life: 5 years

% Consumed Life: 0

Category: Maintenance

Urgency: 3 = Important

Carry Forward: No

Project Name: Sewer Rehab - Lincoln Ave. from 1st to 10th
 Dept.: Collections
 10 yr. Cap Projection: \$ 1,250,000.00
 CY Budget \$ -
 GL Account:

Asset Description

This asset is approximately 4,000 feet of 6" pipe on Lincoln that runs from 4th to 10th Avenues. These segments of pipe have been in service for over 100 years.

Year Built: 1920s

Rehabilitation Date (Extending life of Asset): N/A

Rehab Life Extension: 40

Asset Condition Rating: PACP = 5 (Most significant defect grade)

Justification

According to the Asset Management Plan, this section of pipelines has a high consequence of failure and was included in the list of high priority lines to be rehabilitated. We are planning the work to be completed prior to the City's plan to slurry seal these road segments in 2024. Likelihood of failure - moderate due to capacity issues. Consequence of failure - Potential spill volume

Asset Risk Management Strategy

Capital Improvement Risk: Plan Rehabilitation/Replacement

Maintenance Risk Management: Predictive & Preventative Maintenance

Non Asset Risk Management:

Funding Source

Primary Capital Budget Secondary n/a

Budget Impact/Other

	Prior Yr.	21-22	22-23	23-24	24-25	25-26	26-27	Total
Labor				1,000,000				\$ 1,000,000
Engineering			250,000					\$ 250,000
Parts & Supplies								\$ -
Chemicals								\$ -
Utility								\$ -
Other								\$ -
Total		\$ -	\$ 250,000	\$ 1,000,000	\$ -	\$ -	\$ -	\$ 1,250,000

11 **FY 2021-22 Budget**
Carmel Area Wastewater District

Contact: Lather

Area Sewer Lines

Asset Type: N/A

Avg Useful Life: 40 years

Est Residual Life: 40 years

% Consumed Life: 0

Category: Maintenance

Urgency: 5 = Future

Carry Forward: Yes

Project Name: Dewatering Pit at Treatment Plant (30% Treatment)

Dept.: Collections

10 yr. Cap Projection: \$ 70,000.00

CY Budget \$ -

GL Account:

Asset Description

Collection dewatering pit is a needed to dewater debris that has been collected in the Vacon vacuum truck. While Collections is the primary user of this, the Treatment plant has used this area in the past also. Once the debris has been dumped into the pit, drains will carry the liquid to the headworks to be properly disposed of. Currently the District uses a depression in the ground to place the debris and the water is removed through evaporation or seepage into the soil.

Year Built: N/A

Rehabilitation Date (Extending life of Asset): N/A

Rehab Life Extension: N/A

Asset Condition Rating: N/A

Justification

Dumping Collection waste in the ground is not environmentally sound. Building a dewatering pit will enable us to reclaim the liquid portion and the solid portion can be put in solid waste container.

Asset Risk Management Strategy

Capital Improvement Risk: Plan Rehabilitation/Replacement

Maintenance Risk Management: Predictive & Preventative Maintenance

Non Asset Risk Management:

Funding Source

Primary Capital Budget Secondary n/a

Budget Impact/Other

	Prior Yr.	21-22	22-23	23-24	24-25	25-26	26-27	Total
Labor			70,000					\$ 70,000
Engineering								\$ -
Parts & Supplies								\$ -
Chemicals								\$ -
Utility								\$ -
Other								\$ -
Total		\$ -	\$ 70,000	\$ -	\$ -	\$ -	\$ -	\$ 70,000

12 **FY 2021-22 Budget**
Carmel Area Wastewater District

Contact: Lather
Area Sewer Lines
Asset Type: N/A
Avg Useful Life: 40 years
Est Residual Life: 1 year
% Consumed Life: 95
Category: Maintenance
Urgency: 3 = Important
Carry Forward: No

Project Name: Sewer Rahab - Dolores from 4th to 10th
Dept.: Collections
10 yr. Cap Projection: \$ 1,114,000.00
CY Budget \$ -
GL Account:

Asset Description

This asset is approximately 3,000 feet of 6" pipe on Dolores that runs from 4th Avenue to 10th. These segments of pipe have been in service for over 100 years.
Year Built: 1950s
Rehabilitation Date (Extending life of Asset): N/A
Rehab Life Extension: 40
Asset Condition Rating: 5 (Normal preventative maintenance, major corrective maintenance)

Justification

According to the Asset Management Plan, these sections of pipelines have a moderately high likelihood of failure and were included in the list of high priority lines to be rehabilitated. According to the Capacity Study, sections of these pipelines also have capacity issues. In the downtown area there are structural issues with the pipeline. Likelihood of failure - moderate due to structural and capacity Consequence of failure - Potential spill volume and environmental

Asset Risk Management Strategy

Capital Improvement Risk: Plan Rehabilitation/Replacement
Maintenance Risk Management: Predictive & Preventative Maintenance
Non Asset Risk Management:

Funding Source

Primary Capital Budget Secondary n/a

Budget Impact/Other

	Prior Yr.	21-22	22-23	23-24	24-25	25-26	26-27	Total
Labor					864,000			\$ 864,000
Engineering				250,000				\$ 250,000
Parts & Supplies								\$ -
Chemicals								\$ -
Utility								\$ -
Other								\$ -
Total		\$ -	\$ -	\$ 250,000	\$ 864,000	\$ -	\$ -	\$ 1,114,000

13 **FY 2021-22 Budget**
Carmel Area Wastewater District

Contact: Lather
Area Sewer Lines

Project Name: Electrical Upgrades at Hacienda PS
Dept.: Collections
10 yr. Cap Projection: \$ 140,000.00
CY Budget \$ -
GL Account:

Asset Type: N/A
Avg Useful Life: 40 years
Est Residual Life:
% Consumed Life: 100
Category: Maintenance
Urgency: 3 = Important
Carry Forward: Yes

Asset Description

The generator and automatic power transfer switch and the motor control panel at the Hacienda pump station. In the event that the utility power supply goes out, the generator supplies electricity and the transfer switch is responsible for switching power from the PG&E service to the generator (and vice versa) when power goes out and is then restored. This keeps staff from having to drive to the pump station to turn on the generator during power outages and prevents damage to the pump station due to both power sources being energized at the same time. The station requires 240 volt AC, 60 Hz, 100 Amp, 25 kW, 3 phase power.

Year Built: 1950s
Rehabilitation Date (Extending life of Asset): N/A
Rehab Life Extension: 40
Asset Condition Rating: 5 (Normal preventative maintenance, major corrective maintenance)

Justification

The generator, automatic transfer switch, and motor control panel are 25 years old and at the end of their service life. Although still functional, it is recommended they are replaced prior to failure. The generator has been in service for many years and is requiring much more maintenance than in prior years. The block heater has been plagued with issues, the exhaust is worn through the muffler. It is not a quiet generator and can disturb the surrounding neighbors. Newer automatic transfer switch's (ATS) have the capability of switching over in the case of a "brown out", which is the loss of one but not all phases of supplied electricity. The generator currently in service is unable to distinguish this difference and therefore will allow the pumps to run without adequate power which in turn could damage them. The motor control panel is old and designed for pump system equipment that is no longer active at this station.

Asset Risk Management Strategy

Capital Improvement Risk: Plan Rehabilitation/Replacement
Maintenance Risk Management:
Non Asset Risk Management:

Funding Source

Primary Capital Budget Secondary n/a

Budget Impact/Other

	Prior Yr.	21-22	22-23	23-24	24-25	25-26	26-27	Total
Labor				140,000				\$ 140,000
Engineering								\$ -
Parts & Supplies								\$ -
Chemicals								\$ -
Utility								\$ -
Other								\$ -
Total		\$ -	\$ -	\$ 140,000	\$ -	\$ -	\$ -	\$ 140,000

14 **FY 2021-22 Budget**
Carmel Area Wastewater District

Contact: Lather

Area Sewer Lines

Asset Type: N/A

Avg Useful Life: 40 years

Est Residual Life:

% Consumed Life:

Category: Maintenance

Urgency: 3 = Important

Carry Forward: No

Project Name: Monte Verde PS and Sewer rehab-South of Santa Lucia

Dept.: Collections

10 yr. Cap Projection: \$ 1,750,000.00

CY Budget \$ -

GL Account:

Asset Description

Replace 6 inch VCP pipe with 8 inchPVC or HDPE pipe in the vicinity of Monte Verde South of Santa Lucia. Update pump station as needed. This area is within 20 feet of the Ocean and it's replacement is in compliance with the River Watch Settlement Agreement.

Year Built: 1940s

Rehabilitation Date (Extending life of Asset): N/A

Rehab Life Extension: 40

Asset Condition Rating: 4 (Normal preventative maintenance, minor corrective maintenance)

Justification

Many of the sewer pipelines in this area have been found to have segments with wet weather capacity issues and moderate to severe structural defects. This area is prone to flooding and is adjacent to the Carmel River. Most of the pipes were constructed in the late 1940's and are past their expected life span. Likelihood of failure - moderate due to capacity related SSOs Consequence of failure - Potential spill volume, environmental impact in flood plain adkacemt to the river.

Asset Risk Management Strategy

Capital Improvement Risk:

Plan Rehabilitation/Replacement

Maintenance Risk Management:

Predictive & Preventative Maintenance

Non Asset Risk Management:

Funding Source

Primary Capital Budget Secondary n/a

Budget Impact/Other

	Prior Yr.	21-22	23-24	24-25	25-26	25-26	26-27	27-28	28-29	Total
Labor					1,500,000					\$ 1,500,000
Engineering				250,000						\$ 250,000
Parts & Supplies										\$ -
Chemicals										\$ -
Utility										\$ -
Other										\$ -
Total		\$ -	\$ 250,000	\$ 1,500,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,750,000

15 **FY 2021-22 Budget**
Carmel Area Wastewater District

Contact: Lather
 Area Sewer Lines

Project Name: Sewer Rehab -11th Street from Junipero to Rio Road
 Dept.: Collections
 10 yr. Cap Projection: \$ 1,250,000.00
 CY Budget \$ -
 GL Account:

Asset Type: N/A
 Avg Useful Life: 40 years
 Est Residual Life: 5 years
 % Consumed Life: 95
 Category: Maintenance
 Urgency: 3 = Important
 Carry Forward: Yes

Asset Description

The asset is approximately 3,000 feet of 6" VCP pipe on 11th Avenue that runs through backyard easements above Mission Trail Nature Preserve to Rio Road across the street from the Mission

Year Built: 1940s
 Rehabilitation Date (Extending life of Asset): N/A
 Rehab Life Extension: 40
 Asset Condition Rating: 4 (Normal preventative maintenance, minor corrective maintenance)

Justification

The pipes have severe capacity issues during wet weather and moderate to severe structural defects. These segments of pipe have been in service for over seventy years. At the Rio Road end of the line the system is 200 ft from water. The City plans to cape seal 11th in 20206. Likelihood of failure - Moderate structural and capacity related SSOs Consequence of failure - Moderate potential spill volume and environmental impact.

Asset Risk Management Strategy

Capital Improvement Risk: Plan Rehabilitation/Replacement
 Maintenance Risk Management: Predictive & Preventative Maintenance
 Non Asset Risk Management:

Funding Source

Primary Capital Budget Secondary n/a

Budget Impact/Other

	Prior Yr.	21-22	24-25	25-26	26-27	27-28	28-29	29-30	30-31	Total
Labor				1,000,000				-		\$ 1,000,000
Engineering			250,000							\$ 250,000
Parts & Supplies										\$ -
Chemicals										\$ -
Utility										\$ -
Other										\$ -
Total		\$ -	\$ 250,000	\$ 1,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,250,000

17 **FY 2021-22 Budget**
Carmel Area Wastewater District

Contact: Lather

Area Sewer Lines

Asset Type: N/A

Avg Useful Life: 40 years

Est Residual Life: 10 years

% Consumed Life: 95

Category: Maintenance

Urgency: 3 = Important

Carry Forward: Yes

Project Name: Sewer Rehab-Santa Rita and Guadalupe btw Ocean & Serra
 Dept.: Collections
 10 yr. Cap Projection: \$ 1,978,000.00
 CY Budget \$ -
 GL Account:

Asset Description

This asset is approximately 6,000 feet of 6" pipe on Santa Rita and on Guadalupe from Ocean Street to Serra. These segments of pipe have been in service for over 100 years.

Year Built: 1920s

Rehabilitation Date (Extending life of Asset): n/a

Rehab Life Extension: 40

Asset Condition Rating: 5 (Normal preventative maintenance, major corrective maintenance)

Justification

According to the Asset Management Plan, these sections have a moderate likelihood of failure and were included in the list of priority lines to be rehabilitated. This work is planned for completion 10 years after the City plans to cap seal these roads. Likelihood of failure - Moderate capacity related SSOs Consequence of failure - Potential spill volume and environmental impact.

Asset Risk Management Strategy

Capital Improvement Risk: Plan Rehabilitation/Replacement

Maintenance Risk Management: Predictive & Preventative Maintenance

Non Asset Risk Management:

Funding Source

Primary Capital Budget Secondary n/a

Budget Impact/Other

	Prior Yr.	21-22	22-23	24-25	25-26	28-29	29-30	30-31	Total
Labor						1,728,000			\$ 1,728,000
Engineering					250,000				\$ 250,000
Parts & Supplies									\$ -
Chemicals									\$ -
Utility									\$ -
Other									\$ -
Total		\$ -	\$ -	\$ -	\$ 250,000	\$ 1,728,000	\$ -	\$ -	\$ 1,978,000

18 **FY 2021-22 Budget**
Carmel Area Wastewater District

Contact: Lather
Area Sewer Lines

Project Name: Sewer Rehab- Camino Real from 4th to Walker
Dept.: Collections
10 yr. Cap Projection: \$ 1,705,200.00
CY Budget \$ -
GL Account:

Asset Type: N/A
Avg Useful Life: 40 years
Est Residual Life: 5 years
% Consumed Life: 95
Category: Maintenance
Urgency: 3 = Important
Carry Forward: Yes

Asset Description

This asset is approximately 5,000 feet of 6" pipe on Camino Real that runs from 4th to Walker Avenue. These segments have been in service for over 100 years.

Year Built: 1920's
Rehabilitation Date (Extending life of Asset): N/A
Rehab Life Extension: 40
Asset Condition Rating: 5 (Normal preventative maintenance, major corrective maintenance)

Justification

According to the Asset Management Plan, this section of pipelines has a moderate likelihood of failure and was included in the list of high priority lines to be rehabilitated. Likelihood of failure - Moderate structural and capacity issues in sections of this line. Consequence of failure - Potential spill volume and Environmental impact

Asset Risk Management Strategy

Capital Improvement Risk Plan Rehabilitation/Replacement
Maintenance Risk Mgmt Predictive & Preventative
Non Asset Risk Mgmt

Funding Source

Primary Capital Budget Secondary n/a

Budget Impact/Other

	Prior Yr.	21-22	22-23	23-24	26-27	27-28	28-29	Total
Labor						\$ 1,555,200		\$ 1,555,200
Engineering					\$150,000			\$ 150,000
Parts & Supplies								\$ -
Chemicals								\$ -
Utility								\$ -
Other								\$ -
Total		\$ -	\$ -	\$ -	\$ 150,000	\$ 1,555,200	\$ -	\$ 1,705,200

19 **FY 2021-22 Budget**
Carmel Area Wastewater District

Contact: Lather
 Area Sewer Lines

Project Name: Mission Fields Sewer Rehab
 Dept.: Collections
 10 yr. Cap Projection: \$ 1,500,000.00
 CY Budget \$ -
 GL Account:

Asset Type: N/A
 Avg Useful Life: 40 years
 Est Residual Life: 10 years
 % Consumed Life: 95
 Category: Maintenance
 Urgency: 3 = Important
 Carry Forward: No

Asset Description

This asset approximately 4,000 feet of 6" pipe in the Mission Fields subdivision. These segments of pipe have been in service for over 60 years.

Year Built: 1950's

Rehabilitation Date (Extending life of Asset): N/A

Rehab Life Extension: N/A

Asset Condition Rating: 5 (Normal preventative maintenance, major corrective maintenance)

Justification

According to the Asset Management Plan, this section has a moderate likelihood of failure and was included in the list of priority lines to be rehabilitated. The neighborhood is adjacent to the Carmel River so this would meet the terms of the River Watch Settlement agreement. Likelihood of failure - moderate structural and capacity related SSOs for sections of this line Consequence of Failure - Potential spill volume and Environmental issues due to location next to river

Asset Risk Management Strategy

Capital Improvement Risk Plan Rehabilitation/Replacement

Maintenance Risk Mgmt Predictive & Preventative

Non Asset Risk Mgmt

Funding Source

Primary Capital Budget Secondary n/a

Budget Impact/Other

	Prior Yr.	21-22	22-23	23-24	24-25	27-28	28-29	29-30	30-31	Total
Labor							\$ 1,200,000			\$ 1,200,000
Engineering						\$300,000				\$300,000
Parts & Supplies										\$ -
Chemicals										\$ -
Utility										\$ -
Other										\$ -
Total		\$ -	\$ -	\$ -	\$ -	\$ 300,000	\$ 1,200,000	\$ -	\$ -	\$ 1,500,000

20 **FY 2021-22 Budget**
 Carmel Area Wastewater District

Contact: Lather

Area Sewer Lines

Asset Type: N/A

Avg Useful Life: 40 years

Est Residual Life: 5 years

% Consumed Life: 95

Category: Maintenance

Urgency: 3 = Important

Carry Forward: Yes

Project Name: Sewer Rehab- Pico between 1st & Cabrillo
 Dept.: Collections
 yr. Cap Projection: \$ 950,000.00
 CY Budget \$ -
 GL Account:

Asset Description

This asset is approximately 4,000 feet of 6" pipe on Scenic that runs from Ocean Street to Bay. These segments of pipe have been in service for over 70 years

Year Built: 1950s

Rehabilitation Date (Extending life of Asset): n/a

Rehab Life Extension: n/a

Asset Condition Rating: 5 (Normal preventative maintenance, major corrective maintenance)

Justification

According to the Asset Management Plan, this section of pipelines has capacity issues and in some blocks structural issues. It does not have a high overall rating which is why it has been deferred until 20-30. Likelihood of failure - moderate structural and capacity issues Consequence of failure - Potential spill volume

Asset Risk Management Strategy

Capital Improvement Risk Plan Rehabilitation/Replacement

Maintenance Risk Mgmt Predictive & Preventative

Non Asset Risk Mgmt

Funding Source

Primary Capital Budget Secondary n/a

Budget Impact/Other

	Prior Yr.	21-22	22-23	23-24	24-25	28-29	29-30	30-31	33-34	Total
Labor							700,000			\$ 700,000
Engineering						250,000				\$ 250,000
Parts & Supplies										\$ -
Chemicals										\$ -
Utility										\$ -
Other										\$ -
Total		\$ -	\$ -	\$ -	\$ -	\$ 250,000	\$ 700,000	\$ -	\$ -	\$ 950,000

21 **FY 2021-22 Budget**
Carmel Area Wastewater District

Contact: Lather
Area Sewer Lines
Asset Type: N/A
Avg Useful Life: 40 years
Est Residual Life: 10 years
% Consumed Life: 90
Category: Maintenance
Urgency: 3 = Important
Carry Forward: Yes

Project Name: Calle La Cruz PS Relocation
Dept.: Collections
10 yr. Cap Projection: \$ 1,000,000.00
CY Budget \$ -
GL Account:

Asset Description

Calle la Cruz Pump Station sends sewage from the west end of the District to the Treatment Plant. Approximately 33K gallons per day are pumped during dry weather. The pump station is 65 years old. The pump station is located off of Calle la Cruz and adjacent to the Carmel Lagoon.

Year Built: 1960s
Rehabilitation Date (Extending life of Asset): N/A
Rehab Life Extension: 50
Asset Condition Rating: 5 (Normal preventative maintenance, major corrective maintenance)

Justification

This pump station risks inundation by the Carmel Lagoon due to changes in the river configuration. In order to prepare for sea level rise and other factors, it is recommended to relocate this pump station uphill and across the access road from it's existing footprint. The work will need to be completed after the Carmel River Free project. Likelihood of failure - Sea Level Rise Consequence of failure - potential spill and environmental impact due to sea level rise.

Asset Risk Management Strategy

Capital Improvement Risk Plan Rehabilitation/Replacement
Maintenance Risk Mgmt Predictive & Preventative
Non Asset Risk Mgmt

Funding Source

Primary Capital Reserves Secondary n/a

Budget Impact/Other

	Prior Yr.	21-22	22-23	23-24	24-25	25-26	28-29	29-30	30-31	Unscheduled	Total
Labor								1,000,000			\$ 1,000,000
Engineering							500,000				\$ -
Parts & Supplies											\$ -
Chemicals											\$ -
Utility											\$ -
Other											\$ -
Total		\$ -	\$ -	\$ -	\$ -	\$ -	\$ 500,000	\$ 1,000,000	\$ -	\$ -	\$ 1,000,000

22 **FY 2021-22 Budget**
Carmel Area Wastewater District

Project Name: Hacienda Area Sewer Rehab
 Dept.: Collections
 10 yr. Cap Projection: \$ 1,450,000.00
 CY Budget \$ -
 GL Account:

Contact: Lather
 Area Sewer Lines
 Asset Type: N/A
 Avg Useful Life: 40 years
 Est Residual Life: 10 years
 % Consumed Life: 95
 Category: Maintenance
 Urgency: 3 = Important
 Carry Forward: Yes

Asset Description

This asset is approximatley 4,000 feet of 6" pipe in the Hacienda Carmel subdivision

Year Built: 1960s
 Rehabilitation Date (Extending life of Asset): N/A
 Rehab Life Extension: 40
 Asset Condition Rating: 5 (Normal preventative maintenance, major corrective maintenance)

Justification

This pipeline was found to need replacement through video inspections. It is over 50 years old and in the vicinity of the Carmel River. Likelihood of failure - medium structural and capacity issues Consequences of failure -- potential spill and environmental. This pipeline is in the flood plain and at medium risk of flooding.

Asset Risk Management Strategy

Capital Improvement Risk Plan Rehabilitation/Replacement
 Maintenance Risk Mgmt
 Non Asset Risk Mgmt

Funding Source

Primary Capital Reserves Secondary

Budget Impact/Other

	Prior Yr.	21-22	22-23	23-24	24-25	29-30	30-31	Unscheduled	Total
Labor							\$1,200,000	-	\$ 1,200,000
Engineering						\$250,000			\$ 250,000
Parts & Supplies									\$ -
Chemicals									\$ -
Utility									\$ -
Other									\$ -
Total		\$ -	\$ -	\$ -	\$ -	\$250,000	\$1,200,000	\$ -	\$ 1,450,000

23 **FY 2021-22 Budget**
Carmel Area Wastewater District

Project Name: Carmel Meadows Collection System Rehab
 Dept.: Collections
 5 yr. Cap Projection: \$ 1,250,000.00
 CY Budget \$ -
 GL Account:

Contact: Lather
 Area: Sewer Lines
 Asset Type: N/A
 Avg Useful Life: 40 years
 Est Residual Life: 5 years
 % Consumed Life: 95
 Category: Maintenance
 Urgency: 3 = Important
 Carry Forward: Yes

Asset Description

County of Monterey plans to construct drainage improvements above the existing 6" diameter CAWD pipeline.

Year Built: N/A
 Rehabilitation Date (Extending life of Asset): N/A
 Rehab Life Extension: N/A
 Asset Condition Rating: N/A

Justification

This asset is approximately 3,000 feet of 6" pipe in the Carmel Meadows subdivision. These segments of pipe have been in service for over 50 years and are currently medium risk.

Asset Risk Management Strategy

Capital Improvement Risk Plan Rehabilitation/Replacement
 Maintenance Risk Mgmt
 Non Asset Risk Mgmt

Funding Source

Primary Capital Reserves
 70% Collections
 30% Treatment

Budget Impact/Other

	Prior Yr.	21-22	22-23	23-24	24-25	25-26	29-30	30-31	Total
Labor								1,000,000	\$ 1,000,000
Engineering							\$250,000		\$250,000
Parts & Supplies									\$ -
Chemicals									\$ -
Utility									\$ -
Other									\$ -
Total		\$ -	\$ -	\$ -	\$ -	\$ -	\$ 250,000	\$ 1,000,000	\$ 1,250,000

24 **FY 2021-22 Budget**
Carmel Area Wastewater District

Contact: Lather
 Area: Sewer Lines
 Asset Type: N/A
 Avg Useful Life: 40 years
 Est Residual Life: 5 years
 % Consumed Life: 95
 Category: Maintenance
 Urgency: 3 = Important
 Carry Forward: Yes

Project Name: Carmel Knolls Area Sewer Rehab
 Dept.: Collections
 10 yr. Cap Projection: \$ 1,250,000.00
 CY Budget \$ -
 GL Account:

Asset Description

This asset is approximately 4,000 feet of 6" pipe on Carmel Knolls Drive to the east of Hatton Canyon. These segments of pipe have been in service for over 70 years.

Year Built: 1950s
 Rehabilitation Date (Extending life of Asset): N/A
 Rehab Life Extension: 40
 Asset Condition Rating: 5 (Normal preventative maintenance, major corrective maintenance)

Justification

According to the Asset Management Plan, this section of pipelines has a high consequence of failure and is included in the list of high priority lines to be rehabilitated. Information on this line will be more complete once the system has been CCTV'd. There are medium roots present. The Consequence of failure is high because Hatton is downstream.

Capital Improvement Risk Plan Rehabilitation/Replacement

Maintenance Risk Mgmt
 Non Asset Risk Mgmt

Funding Source

Primary Capital Reserves

Budget Impact/Other

	Prior Yr.	21-22	22-23	23-24	30-31	31-32	32-33	Unscheduled	Total
Labor						\$ 1,000,000		-	\$1,000,000
Engineering					\$250,000				\$ 250,000
Parts & Supplies									\$ -
Chemicals									\$ -
Utility									\$ -
Other									\$ -
Total		\$ -	\$ -	\$ -	\$ 250,000	\$ 1,000,000	\$ -	\$ -	\$1,250,000

25 **FY 2021-22 Budget**
Carmel Area Wastewater District

Contact: Lather
Area Sewer Lines

Project Name: Upsize lower Rancho Canada Trunkline
Dept.: Collections
10 yr. Cap Projection: \$ 410,000.00
CY Budget \$ -
GL Account:

Asset Type: N/A
Avg Useful Life: 40 years
Est Residual Life: 5 years
% Consumed Life: 95
Category: Maintenance
Urgency: 3 = Important
Carry Forward: No

Asset Description

This project will relocate an existing sewer trunk line that serves the eastern most portion of the District and is located adjacent to the proposed County Park at Rancho Canada. The trunk line is 12" diameter truss pipe material that was installed in the early 1970s. One of the golf courses was sold to a subdivision developer and the other golf course has become part of the Monterey Regional Park System. This is the portion where the subdivision is planned to be constructed.

Year Built: N/A
Rehabilitation Date (Extending life of Asset): N/A
Rehab Life Extension: N/A
Asset Condition Rating: N/A

Justification

The developer will install the line, we are asking it be upsized to 15" and will be responsible for the additional sizing. If more of Carmel Valley is annexed into our system, we benefit from this upgrade now.

Asset Risk Management Strategy

Capital Improvement Risk: Plan Rehabilitation/Replacement
Maintenance Risk Management:
Non Asset Risk Management:

Funding Source

Primary Capital Reserves Secondary

Budget Impact/Other

1400000

	Prior Yr.	21-22	22-23	23-24	24-25	25-26	Unscheduled	Total
Labor							410,000	\$ 410,000
Engineering								\$ -
Parts & Supplies								\$ -
Chemicals								\$ -
Utility								\$ -
Other								\$ -
Total		\$ -	\$ -	\$ -	\$ -	\$ -	\$ 410,000	\$ 410,000

26

FY 2021-22 Budget
Carmel Area Wastewater District

Contact: Lather

Area Sewer Lines

Asset Type: Collections Gravity

Avg Useful Life: 50 years

Est Residual Life: 1 year

% Consumed Life: 100%

Category: Capital Improvement

Urgency: 2 = Very Important

Carry Forward: Yes

Project Name: Upper Rancho Canada Pipe Relocation (Carryover)

Dept.: Collections

10 yr. Cap Projection: \$ 1,916,488

CY Budget \$ 1,760,000

GL Account:

Asset Description

This project will relocate an existing sewer trunkline that serves the eastern most portion of the District and is located within the proposed Regional Park at Rancho Canada. The trunkline varies in width from 12 inch to 8 inch an is Truss pipe material that was installed in the early 1970's. It is planned to convert one of the golf courses to a subdivision of Single Family Dwellings (SFD's) and donated the other golf course land to Monterey Regional Park System.

Year Built: 1970

Rehabilitation Date (Extending life of Asset): 2022

Rehab Life Extension: 50

Asset Condition Rating: Capacity issues - 5

Justification

The current alignment of the trunkline followed a farm road that no longer exists. The manholes are difficult to access and some have been covered by structures and soil. Staff has approached the Regional Park District with plans to realign the pipeline to more accessible locations that will be incorporated into the future park design. In addition, our capacity analysis of the trunkline indicates that currently it is undersized for wet weather capacity. The project will include roughly 1,900 ft. of pipe replacement and 6 manholes. A repayment formula for new connections will be developed as part of this project.

Asset Risk Management Strategy

Capital Improvement Risk: Plan Rehabilitation/Replacement

Maintenance Risk Management:

Non Asset Risk Management:

Funding Source

Primary Capital Reserves Secondary

Budget Impact/Other

	Prior Yr.	22-23	23-24	24-25	25-26	26-27	Unscheduled	Total
Labor		\$ 1,760,000						\$ 1,760,000
Engineering	\$156,488							\$ 156,488
Parts & Supplies								\$ -
Chemicals								\$ -
Utility								\$ -
Other								\$ -
Total		\$ 1,760,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,916,488

Capital Budget
Treatment & Disposal
Capital Purchases

1 **FY 2021-22 Budget**
Carmel Area Wastewater District

Contact: Waggoner
Area: Misc Structures
Asset Type: Instrumentation
Avg Useful Life: 10 years
Est Residual Life: 1 year
% Consumed Life: 90
Category: Capital Equipment
Urgency: 3 = Important
Carry Forward: Yes

Project Name: Lab Muffle Furnace
Dept: Treatment
Total Cost: \$ 13,500
CY Budget \$ 13,500
GL Account:

Asset Description

The Laboratory Muffle Furnace used for CAWD Operations Process Control Analysis for Volatile Percent on solids from the digester, primary solids, DAF and Belt Press.

Year Built: 2011
Rehabilitation Date (Extending life of Asset): 2019
Rehab Life Extension: 3
Asset Condition Rating: Fair/Poor

Justification

The muffle furnace needs repairs on the relay electronics that control the ramping up of temperature to 500C and relay that maintains the temperature. The body frame has some corrosion eating up the frame. The unit on one occasion was on fire in the electronic board and had a loud noise when it occurred. The laboratory has been able to still order parts for the unit.

Asset Risk Management Strategy

Capital Improvement Risk Plan Rehabilitation/Replacement
Maintenance Risk Management Corrective Maintenance
Non Asset Risk Management Strategic Changes to Level of Service

Funding Source

Primary CAWD 50% Secondary Reclamation 50%

Budget Impact/Other

	Prior Yr	21-22	22-23	23-24	24-25	25-26	Unscheduled	Total
Labor								
Engineering							\$	-
Parts & Supplies		12,700					\$	12,700
Chemicals							\$	-
Utility							\$	-
Other		800					\$	800
Total		\$ 13,500	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 13,500

2 **FY 2021-22 Budget**
Carmel Area Wastewater District

Contact: Waggoner
Area: Misc Structures
Asset Type: Support Equipment
Avg Useful Life: 10 years
Est Residual Life: 1 year
% Consumed Life: 97
Category: Capital Equipment
Urgency: 2 = Very Important
Carry Forward: Yes

Project Name: Laboratory Ion Chromatograph
Dept: Reclamation
Total Cost: \$ 150,000
CY Budget \$ -
GL Account:

Asset Description

The Ion Chromatograph (IC) system is a multi-use equipment used for the Pebble Beach Reclamation samples and CAWD MF/RO and Tertiary water. The IC analyzes the Cation and Anion ions and Iron and Manganese in the water samples collected. The IC is used weekly for MF/RO Blend and Reclaim Line samples and on a monthly schedule PBCSD collects water samples at the golf courses and well samples. The data is used by the PBCSD and golf course superintendents for irrigation. The replacement item requested is for the Cation and Iron and Manganese analysis.

Year Built: 2009
Rehabilitation Date (Extending life of Asset): N/A
Rehab Life Extension: N/A
Asset Condition Rating: Rehab unlikely

Justification

The Dionex IC unit is no longer serviceable by manufacture service technicians and parts are limited to what is available no new parts are being made. The unit has been placed on the obsolescence list by the manufacture since 2018. The purchase is for the Cation and T-metal analysis. The anion analysis will be run on a different instrument already being used.

Asset Risk Management Strategy

Capital Improvement Risk Plan Rehabilitation/Replacement
Maintenance Risk Management Corrective Maintenance
Non Asset Risk Management Strategic Changes to Level of Service

Funding Source

	Primary	CAWD 10%	Secondary	Reclamation 90%				
Budget Impact/Other	Prior Yr	21-22	22-23	23-24	24-25	25-26	Unscheduled	Total
Labor								
Engineering							\$	-
Parts & Supplies			\$ 145,000				\$	145,000
Chemicals							\$	-
Utility							\$	-
Other			\$ 5,000				\$	5,000
Total		\$ -	\$ 150,000	\$ -	\$ -	\$ -	\$ -	\$ 150,000

3 **FY 2021-22 Budget**
Carmel Area Wastewater District

Contact: Waggoner
Area: Misc Structures
Asset Type: Support Equipment
Avg Useful Life: 15 years
Est Residual Life: 10 years
% Consumed Life: 33
Category: Capital Equipment
Urgency: 5 = Future
Carry Forward: No

Project Name: TOC Analyzer
Dept: Treatment
Total Cost: \$ 35,000
CY Budget \$ -
GL Account:

Asset Description

The Total Organic Carbon Analyzer (TOC) is currently used for process control analysis. The results are used by the Operations staff to correlate to the Biochemical Oxygen Demand (BOD) analysis. The lab has been working side by side analysis (TOC and BOD) with the all the plant samples to calculate a factor between the two values. The plan is for the TOC data to be used in replacing the traditional BOD result for reporting.

Year Built: 2015
Rehabilitation Date (Extending life of Asset): N/A
Rehab Life Extension: N/A
Asset Condition Rating: excellent

Justification

The manufacture, Shimadzu, typically provides preventative maintenance services for a piece of equipment for 10-15 years then deeming the instrument obsolescent at that time. The manufacture will stop providing service and parts may still be available until there are no more parts to order.

Asset Risk Management Strategy

Capital Improvement Risk Plan Rehabilitation/Replacement
Maintenance Risk Management Predictive & Preventative Maintenance
Non Asset Risk Management Strategic Changes to Level of Service

Funding Source

Primary CAWD 50% Secondary Reclamation 50%

Budget Impact/Other

	Prior Yr	21-22	22-23	23-24	24-25	25-26	Unscheduled	Total
Labor								
Engineering								\$ -
Parts & Supplies					32,375			\$ 32,375
Chemicals								\$ -
Utility								\$ -
Other					2,625			\$ 2,625
Total		\$ -	\$ -	\$ -	\$ 35,000	\$ -	\$ -	\$ 35,000

4 **FY 2021-22 Budget**
Carmel Area Wastewater District

Contact: Waggoner
Area: Misc Structures
Asset Type: Support Equipment
Avg Useful Life: 20 years
Est Residual Life: 1 year
% Consumed Life: 98
Category: Capital Equipment
Urgency: 3 = Important
Carry Forward: Yes

Project Name: Laboratory Autoclave
Dept: Treatment
Total Cost: \$ 32,000
CY Budget \$ -
GL Account:

Asset Description

The autoclave is used for sterilizing bacteriological media used for microbiological analysis of the final effluent, tertiary effluent and ocean receiving samples if needed. The unit is also used to sterilize used positive tests material to be able to discard to the trash or dispose in the drain.

Year Built: 1993
Rehabilitation Date (Extending life of Asset): N/A
Rehab Life Extension: N/A
Asset Condition Rating: Rehab unlikely

Justification

Lab staff has been able to keep autoclave operational by changing gaskets so that the unit can maintain the correct sterilization temperature and psi. The unit has corrosion building along the base and may not be repairable.

Asset Risk Management Strategy

Capital Improvement Risk Plan Rehabilitation/Replacement
Maintenance Risk Management Predictive & Preventative Maintenance
Non Asset Risk Management Strategic Changes to Level of Service

Funding Source

Primary CAWD 50% Secondary Reclamation 50%

Budget Impact/Other

	Prior Yr	21-22	22-23	23-24	24-25	25-26	Unscheduled	Total
Labor							\$	16,000
Engineering							\$	-
Parts & Supplies					16,000		\$	16,000
Chemicals							\$	-
Utility							\$	-
Other							\$	-
Total		\$ -	\$ -	\$ -	\$ 16,000	\$ -	\$ -	\$ 32,000

5 **FY 2021-22 Budget**
Carmel Area Wastewater District

Contact: Waggoner
Area: DeWatering Bldg
Asset Type: Process Equip (Gas)
Avg Useful Life: 15 years
Est Residual Life: 10 years
% Consumed Life: 33
Category: Capital Equipment
Urgency: 5 = Future
Carry Forward: Yes

Project Name: Dewatering Poly Blend Unit M60-P1AA
Dept: Treatment
Total Cost: \$ 28,000
CY Budget \$ -
GL Account:

Asset Description

Polymer mixing and injection unit that mixes and adds a coagulant to the flow stream of anerobic digested sludge prior to the dewatering devices. Either the Screwpress or the belt press to enhance liquid separation.

Year Built: 2016
Rehabilitation Date (Extending life of Asset): N/A
Rehab Life Extension: 5
Asset Condition Rating: Good

Justification

The equipment's age is such that the vendor may no longer support or sell/stock replacement parts for the UGSI Polyblend unit in the future. This model was purchased in the Phase 1 project staff continues to update all polymer mixing systems to be the same so as to limit the amount of spare parts in inventory.

Asset Risk Management Strategy

Capital Improvement Risk Plan Rehabilitation/Replacement
Maintenance Risk Management Predictive & Preventative Maintenance
Non Asset Risk Management Strategic Changes to Level of Service

Funding Source

	Primary	CAWD 100%		Secondary	Capital Budget			
Budget Impact/Other	Prior Yr	21-22	22-23	23-24	24-25	25-26	Unscheduled	Total
Labor							\$ 2,000	\$ 2,000
Engineering							\$ -	\$ -
Parts & Supplies							\$ 24,000	\$ 24,000
Chemicals							\$ -	\$ -
Utility							\$ -	\$ -
Other							\$ 2,000	\$ 2,000
Total		\$ -	\$ -	\$ -	\$ -	\$ -	\$ 28,000	\$ 28,000

6 **FY 2021-22 Budget**
Carmel Area Wastewater District

Contact: Waggoner
Area: Misc Structures
Asset Type: Support Equipment
Avg Useful Life: 15 years
Est Residual Life: 10 years
% Consumed Life: 33%
Category: Capital Equipment
Urgency: 5 = Future
Carry Forward: Yes

Project Name: Laboratory Dishwashers
Dept: Treatment
Total Cost: \$ 30,000
CY Budget \$ -
GL Account:

Asset Description

The laboratory uses two dishwasher configured for different bottle washing uses. One dishwasher is used for glassware of BOD bottles, beakers and flasks that go through a washing cycle of hot water, soap wash, rinse -tap and DI water, and acid wash. The second dishwasher is used as a universal wash that larger items can be washed and the sample bottles used for sample collection.

Year Built: 2016
Rehabilitation Date (Extending life of Asset): N/A
Rehab Life Extension: N/A
Asset Condition Rating: Good

Justification

This is listed as "Unscheduled", the dishwashers are currently working well - no time frame when to replace.

Asset Risk Management Strategy

Capital Improvement Risk Plan Rehabilitation/Replacement
Maintenance Risk Management Predictive & Preventative Maintenance
Non Asset Risk Management Strategic Changes to Level of Service

Funding Source

	Primary	CAWD 50%	Secondary	Reclamation 50%			
Budget Impact/Other	Prior Yr	21-22	22-23	23-24	24-25	25-26	Unscheduled Total
Labor							
Engineering							\$ 27,675 \$ 27,675
Parts & Supplies							\$ -
Chemicals							\$ -
Utility							\$ -
Other							\$ 2,325 \$ 2,325
Total		\$ -	\$ -	\$ -	\$ -	\$ -	\$ 30,000 \$ 30,000

7 **FY 2021-22 Budget**
Carmel Area Wastewater District

Contact: Waggoner
Area: Misc Structures
Asset Type: Office Equip
Avg Useful Life: 20 years
Est Residual Life: 15 years
% Consumed Life: 25%
Category: Capital Equipment
Urgency: 5 = Future
Carry Forward: Yes

Project Name: ATL Laboratory Information Management System (LIMS)
Dept: Treatment
Total Cost: \$ 38,790
CY Budget \$ -
GL Account:

Asset Description

The Accelerated Technology Laboratory (ATL) Laboratory Information Management System (LIMS) is used for laboratory data management. All the laboratory data (NPDES and process control) is entered into the LIMS and able to generate reports, and queries from all the different projects and analysis tests.

Year Built: 2014
Rehabilitation Date (Extending life of Asset): N/A
Rehab Life Extension: N/A
Asset Condition Rating: N/A

Justification

This is entered into the "Unscheduled" due to uncertainty of when ATL will update the software current version being used. ATL works from the Microsoft programs and when Microsoft makes changes to the operating system some of the ATL features will not work. The ATL representative could not give me any updates on what Microsoft will upgrade. The new version of LIMS are built from different modules that the customer would like to have.

Asset Risk Management Strategy

Capital Improvement Risk Plan Rehabilitation/Replacement
Maintenance Risk Management Predictive & Preventative Maintenance
Non Asset Risk Management Strategic Changes to Level of Service

Funding Source

Primary Capital Budget Secondary n/a

Budget Impact/Other

	Prior Yr	21-22	22-23	23-24	24-25	25-26	Unscheduled	Total
Labor								\$ -
Engineering								\$ -
Parts & Supplies							\$ 36,000	\$ 36,000
Chemicals								\$ -
Utility								\$ -
Other							\$ 2,790	\$ 2,790
Total		\$ -	\$ -	\$ -	\$ -	\$ -	\$ 38,790	\$ 38,790

Capital Budget
– Treatment & Disposal
Capital Improvement Projects

1 FY 2021-22 Budget
Carmel Area Wastewater District

Project Name: Cart Charging In Building #35
 Dept: Treatment
 Total Cost: \$ 50,000
 CY Budget \$ 25,000
 GL Account:

Contact: Foley
 Area: Misc Structures
 Asset Type: Support Equipment
 Avg Useful Life: 20 years
 Est Residual Life: 20 years
 % Consumed Life \$ -
 Category: Capital Improvement
 Urgency: 3 = Important
 Carry Forward: Yes

Asset Description

Electric Cart charging area at the Old Chemical Storage Building (Building Number 35).

Year Built: 2021
 Rehabilitation Date: n/a
 Rehab Life Extension: n/a
 Asset Condition Rating: Good

Justification

Currently there is no central location to charge the electric utility carts and golf carts or a place to park the work bicycles that plant staff use daily that is out of the elements. These vehicles are stored overnight throughout the treatment plant and exposed to the elements. Staff is planning to create a charging station at building number 35. This would include charging stations for the electric utility carts and storage for the plant's work bicycles.

Asset Risk Management Strategy

Capital Improvement Risk Plan Rehabilitation/Replacement
 Maintenance Risk Mgmt Predictive & Preventative Maintenance
 Non Asset Risk Mgmt Take Asset out of Service

Funding Source

Primary Capital Improvement Secondary n/a

Budget Impact/Other

	Prior Yr	21-22	22-23	23-24	24-25	25-26	26-27	Total
Labor	14,000	14,000					\$	14,000
Engineering	2,000	4,000					\$	4,000
Parts & Supplies	7,000	7,000					\$	7,000
Chemicals							\$	-
Utility							\$	-
Other	2,000						\$	-
Total	\$ 25,000	\$ 25,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 25,000

2 FY 2021-22 Budget
Carmel Area Wastewater District

Contact: Treanor
Area: Yard Piping
Asset Type: Instrumentation
Avg Useful Life: 20 years
Est Residual Life:
% Consumed Life
Category: Capital Improvement
Urgency: 3 = Important
Carry Forward: No

Project Name: Groundwater Elevation Monitoring Sensor
Dept: Treatment
Total Cost: \$ 25,000
CY Budget \$ 25,000
GL Account:

Asset Description

A level sensor to record real time groundwater data at the WWTP for use in monitoring Sea Level Rise and Coastal Flooding Hazards. The level sensor would be installed in an existing groundwater monitoring well at the WWTP adjacent to the Carmel River. The level sensor would be connected to the CAWD SCADA system so that online data can be stored and analyzed. The program would be automated to take readings in real time and eliminate the chance of human error.

Year Built: n/a
Rehabilitation Date: n/a
Rehab Life Extension: n/a
Asset Condition Rating: n/a

Justification

The California Coastal Commission has required that CAWD monitor Coastal Hazards such as flooding at the WWTP to determine if Sea Level Rise is increasing the hazards at the WWTP. The data from this level sensor can provide useful insights into potential changes in flood hazards. The majority of the cost is to run a conduit below ground 100 feet to the nearest building and then running above ground conduit through the building to the PLC. Total project cost includes trenching, laying conduit, repaving, running conduit into and through a building and pulling wire. Additionally there is programming cost for SCADA.

Asset Risk Management Strategy

Capital Improvement Risk
Maintenance Risk Mgmt
Non Asset Risk Mgmt Strategic Changes to Level of Service

Funding Source

Primary Capital Improvement Secondary n/a

Budget Impact/Other

	Prior Yr	21-22	22-23	23-24	24-25	25-26	26-27	Total
Labor		10,000					\$	10,000
Engineering							\$	-
Parts & Supplies		15,000					\$	15,000
Chemicals							\$	-
Utility							\$	-
Other							\$	-
Total	\$ -	\$ 25,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 25,000

3 FY 2021-22 Budget
Carmel Area Wastewater District

Project Name: Demonstration of Huber Strain Press
 Dept: Treatment
 Total Cost: \$ 17,250
 CY Budget \$ -
 GL Account:

Contact: Waggoner
 Area: Digesters
 Asset Type: Support Equipment
 Avg Useful Life: 1 year
 Est Residual Life:
 % Consumed Life
 Category: Capital Improvement
 Urgency: 5 = Future
 Carry Forward: No

Asset Description
 Press/screening unit designed to clean sludge of hard plastic and other harmful material from the headworks or food waste deliveries that is injected into the anaerobic digester.

Year Built: n/a
 Rehabilitation Date: n/a
 Rehab Life Extension: n/a
 Asset Condition Rating: n/a

Justification
 Staff will evaluate various options designed to remove hard and soft plastic from plugging the screens on the screwpress and preventing sharp items from cutting or damaging the belts on the belt press. Staff has all ready experienced having nails, plastics, and other harmful material that has created operational issues with the screw press which required extra staff time to clean the screens more often than normally needed or having to use the belt press with the fear of ruining the belts due to punctures or a tear . Funds will be used to perform any demonstration or pilot projects. Once the evaluation is complete plant staff will determine if this dewatering pretreatment unit for digested sludge is cost effective for the return of investment.

Asset Risk Management Strategy
 Capital Improvement Risk
 Maintenance Risk Mgmt
 Non Asset Risk Mgmt

Funding Source
 Primary Capital Improvement Secondary n/a

Budget Impact/Other		Prior Yr	21-22	22-23	23-24	24-25	25-26	Unscheduled	Total
Labor								6,000 \$	6,000
Engineering								3,500 \$	3,500
Parts & Supplies								250 \$	250
Chemicals								\$	-
Utility								\$	-
Other								7,500 \$	7,500
Total			\$ -	\$ -	\$ -	\$ -	\$ -	17,250 \$	17,250

**Capital Budget
Treatment & Disposal
Long Term Capital Plan**

**CARMEL AREA WASTEWATER DISTRICT TREATMENT PLANT
LONG TERM CAPITAL PROJECTS - FY 2021/22 - 2035/36**

Item #	Project Number	PROJECT	Estimated Prior Spent Thru 20/21	21/22	22/23	23/24	24/25	25/26	26/27	27/28	28/29	29/30	30/31	31/32	32/33	33/34	34/35	35/36	Unscheduled	Total	
WWTP - Elec/Mech Rehab & Sludge Holding Tank Replacement Project																					
1	18-01	WWTP Elec/Mech Rehab & Sludge Holding Tank Replace Design (4% Reclamation)	\$906,000	\$10,000																\$10,000	
1	18-01	WWTP Elec/Mech Rehab & Sludge Holding Tank Replace Project Construction (4% Reclamation)	\$0	\$4,300,000	\$4,300,000															\$8,600,000	
1	18-01	WWTP Elec/Mech Rehab & Sludge Holding Tank Project SCADA Programming	\$0	\$75,000	\$75,000															\$150,000	
1	18-01	WWTP Elec/Mech Rehab & Sludge Holding Const Mgmt and ESDC (4% Reclamation)	\$0	\$450,000	\$450,000															\$900,000	
1	18-01	WWTP Elec/Mech Rehab & Sludge Holding Project O&M Manual	\$0			\$50,000														\$50,000	
PLANNED PROJECTS																					
2	19-21	Carmel River FREE Mitigation Project (Funded by Grants/County, See Below)*	\$0	\$0	\$0	\$0														\$0	
3	19-01	Critical Process Minor Onsite Flood Adaptations (30% Reclamation)	\$21,788	\$50,000																\$50,000	
4		Cathodic Protection Testing and Maintenance (rollover)		\$30,000		\$100,000					\$30,000					\$30,000				\$190,000	
5	18-11	Microturbine Integration Project	\$45,000	\$150,000																\$150,000	
6		Chlorine Contact Channel Pipe Gallery Pipe Coating		\$75,000																\$75,000	
7	19-18	Perimeter Fencing	\$3,000	\$200,000																\$200,000	
8	18-28	WWTP Perimeter Tree Planting	\$27,000	\$60,000	\$75,000	\$75,000								\$25,000						\$235,000	
9		Plant Landscaping	\$20,000		\$150,000															\$150,000	
10		Lunch Room MCC Replace with Panelboard (Collection 6%)			\$140,000															\$140,000	
11		Main Potable Water and Gas Main Replacement (5.5% Collections)			\$100,000	\$150,000														\$250,000	
12		Replace Older Turbule Blower				\$530,000														\$530,000	
13		Roofing Repairs				\$100,000														\$100,000	
14		Inventory Storage Containers				\$175,000														\$175,000	
15		Plant Paving and Vault Lids				\$50,000	\$200,000													\$250,000	
16		Digester No. 1 - Rehabilitation				\$150,000	\$760,000													\$910,000	
17		Influent Pump Station Wet Well Repairs					\$150,000													\$150,000	
18		Operations Building HVAC and Plumbing Systems Repairs					\$155,000													\$155,000	
19		Staff Office Trailer Replacements					\$250,000													\$250,000	
20		Plant Bridge Retrofit Project			\$150,000	\$150,000	\$200,000	\$800,000												\$1,300,000	
21		RAS Pump/Piping Rehab						\$75,000												\$75,000	
22		Septage Waste Receiving Station						\$150,000	\$850,000											\$1,000,000	
23		Lagoon Crossing Rehabilitation							\$500,000											\$500,000	
24		Ocean Outfall Rehabilitation										\$1,000,000								\$1,000,000	
25		Next Generation PLC/SCADA Upgrades Phase 1														\$1,000,000				\$1,000,000	
26		Sea Level Rise Flood Mitigation																	Unknown	Unknown	
PROCESS AREA REHABILITATION AND MAINTENANCE PROJECTS																					
27		Misc. Yard Piping Rehab and Maintenance Projects							\$90,000	\$90,000	\$90,000	\$90,000	\$90,000	\$90,000	\$90,000	\$90,000	\$90,000	\$90,000	\$90,000	\$900,000	
28		Influent/Headworks/Primary Rehab and Maintenance Projects							\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$1,000,000	
29		EQ/Blowers/Aeration/Secondary Rehab and Maintenance Projects (Partial Reclamation)							\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$2,000,000	
30		Chlorination/Dechlorination/Effluent Rehab and Maintenance Projects (Partial Reclamation)							\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$1,000,000	
31		DAFT/Digestion/Dewatering Rehab and Maintenance Projects (Partial Reclamation)							\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$1,000,000	
PROJECTS CLOSED OUT PRIOR YEAR																					
	18-08	Standby Power Reliability Project	\$364,045																	\$0	
	18-10	Aeration Basin Improvements	\$127,000																	\$0	
		TREATMENT & DISPOSAL TOTAL	\$1,513,833	\$5,400,000	\$5,440,000	\$1,530,000	\$1,715,000	\$1,025,000	\$1,940,000	\$590,000	\$620,000	\$1,590,000	\$590,000	\$615,000	\$590,000	\$1,620,000	\$590,000	\$590,000	\$0	\$24,445,000	
		ESTIMATED RECLAMATION SHARE (1)	\$36,240	\$193,000	\$2,000			\$0	\$60,000	\$60,000	\$60,000	\$60,000	\$60,000	\$60,000	\$60,000	\$60,000	\$60,000	\$60,000	\$60,000	\$795,000	
		ESTIMATED PBCSD SHARE	\$492,039	\$1,733,931	\$1,806,225	\$509,490	\$571,095	\$341,325	\$626,040	\$176,490	\$186,480	\$509,490	\$176,490	\$184,815	\$176,490	\$519,480	\$176,490	\$176,490	\$176,490	\$0	\$7,875,450
		ESTIMATED CAWD COST	\$985,555	\$3,473,069	\$3,631,775	\$1,020,510	\$1,143,905	\$683,675	\$1,253,960	\$353,510	\$373,520	\$1,020,510	\$353,510	\$370,185	\$353,510	\$1,040,520	\$353,510	\$353,510	\$0	\$15,774,550	
		*ANTICIPATED GRANT/COUNTY FUNDING	\$750,000	\$1,000,000	\$2,300,000	\$1,300,000														\$4,600,000	
		(1) PBCSD to pay 1/3 of costs after Reclamation and or Collections portion is deducted, unless otherwise noted.																			
TECHNICAL STUDIES (EXPENSED TO O&M - SHOWN HERE FOR PLANNING PURPOSES)																					
32		Coastal Hazards Monitoring Plan	\$0	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000			\$1,050,000	
33		Coastal Hazards Response Plan	\$0	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000			\$1,400,000	
34		Miscellaneous Technical Studies	\$0	\$125,000	\$125,000	\$125,000	\$125,000	\$125,000	\$125,000	\$125,000	\$125,000	\$125,000	\$125,000	\$125,000	\$125,000	\$125,000	\$125,000			\$1,750,000	
		TOTAL TECHNICAL STUDIES	\$0	\$300,000	\$300,000	\$300,000	\$300,000	\$300,000	\$300,000	\$300,000	\$300,000	\$300,000	\$300,000	\$300,000	\$300,000	\$300,000	\$300,000	\$0	\$0	\$4,200,000	

1 **FY 2019-20 Budget**
Carmel Area Wastewater District

Contact: Treanor
Area Various
Asset Type: Various
Avg Useful Life: Various
Est Residual Life: Various
% Consumed Life: N/A
Category: Capital Improvement
Urgency: 3 = Important
Carry Forward: No

Project Name: **WWTP - Elec/Mech Rehab & Sludge Holding Tank Replacement Project**

Dept.: Treatment

5 yr. Cap Projection: \$ 9,710,000

CY Budget \$ 4,835,000

Project Description

This project is a multi-area project at the WWTP aimed at improving reliability of equipment in the Influent Pump Station, Headworks, 3W/Chlorine Analyzer Building, Effluent Building and Sludge Storage Tank. Most of the work involves replacing aged equipment electrical and mechanical work in existing buildings.

Influent Building - Replacement of existing Motor Control Center (MCC) and electrical/controls equipment. Replacement of 1 Influent pump with 2 smaller pumps.

Headworks Building - Replacement of existing Motor Control Center (MCC) and electrical/controls equipment. Replacement of existing auger screen with articulating rake screens. Replacement of existing grit tank collector mechanism in kind.

3W/Chlorine Analyzer Building - Replacement of existing Motor Control Center (MCC) and electrical/controls equipment.

Effluent Building - Replacement of existing Motor Control Center (MCC) and electrical/controls equipment. Replacement of motors on existing Effluent Pumps.

Sludge Holding Tank - Demolition of three old digesters/sludge holding tanks and replacement with one steel sludge holding tank. Work in this area includes piping demolition for piping associated with old tanks.

Year Built: 1930s, 1950s, 1970s, 1980s

Rehabilitation Date (Extending life of Asset): Various

Rehab Life Extension: Various

Asset Condition Rating: Various

Justification

This project was developed to mitigate business risk based on Kennedy/Jenks Phase 2 asset management risk assessment. The project is highly focused on electrical systems that are well past their useful life and are critical to operations. The sludge holding tank work is to address the fact that the current sludge holding tank was built in the 1930s and is past its useful life. Three existing sludge tanks that no longer meet seismic code will be removed and one new tank will be installed.

Reclamation Share is for the Lab standby power feeder and for the electrical work associated with the brine effluent pump in the Effluent Building.

Risk Management Strategy

Capital Improvement Strategy: Plant Rehabilitation/Replacement

Maintenance Strategy: Corrective Maintenance

Non Asset Strategy:

Funding Source

Primary Capital Budget Secondary
4% Reclamation

Budget Impact/Other

	Estimated Cumulative Thru FY20-21	21-22	22-23	23-24	24-25	25-26	Total
Labor		\$ 2,400,000	\$ 1,900,000			\$	4,300,000
Engineering	\$ 906,000	\$ 460,000	\$ 450,000	\$ 50,000			\$ 960,000
Parts & Supplies		\$ 1,900,000	\$ 2,400,000				\$ 4,300,000
Chemicals						\$	-
Utility						\$	-
Other		\$ 75,000	\$ 75,000				\$ 150,000
						\$	-
Total	\$ 906,000	\$ 4,835,000	\$ 4,825,000	\$ 50,000	\$ -	\$ -	\$ 9,710,000

2 FY 2019-20 Budget
Carmel Area Wastewater District

Contact: Treanor

Area Outfall

Asset Type: Structure

Avg Useful Life: Over 50 years

Est Residual Life: N/A

% Consumed Life: N/A

Category: CEQA Mitigation

Urgency: 3 = Important

Carry Forward: No

Project Name: **Carmel River FREE Mitigation Project (Funded by Grants/County, See Below)***

Dept.: Treatment

5 yr. Cap Projection: \$0

CY Budget \$0

Project Description

Project to underground CAWD pipelines under the lagoon to mitigate impacts from the Monterey County flood control project (Carmel River FREE). The project will be financed as part of the Carmel River FREE Project. Currently the grant from the Coastal Conservancy is paying all CAWD labor costs during the engineering/environmental/permitting stage.

Year Built: Various

Rehabilitation Date (Extending life of Asset): N/A

Rehab Life Extension: N/A

Asset Condition Rating: N/A

Justification

Required mitigation for the Monterey County flood control project (Carmel River FREE).

Risk Management Strategy

Capital Improvement Strategy: CEQA Mitigation

Maintenance Strategy:

Non Asset Strategy:

Funding Source

Primary Monterey County - FEMA/OES Grant Secondary Capital Reserves

Budget Impact/Other

	Estimated Cumulative Thru FY20-21	21-22	22-23	23-24	24-25	25-26	Total
Labor	\$0	\$0	\$0	\$0		\$	-
Engineering	\$0	\$0	\$0	\$0		\$	-
Parts & Supplies	\$0	\$0	\$0	\$0		\$	-
Chemicals	\$0	\$0	\$0	\$0		\$	-
Utility	\$0	\$0	\$0	\$0		\$	-
Other	\$0	\$0	\$0	\$0		\$	-
Total	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

3 **FY 2019-20 Budget**
 Carmel Area Wastewater District

Contact: Treanor
 Area Multiple

Project Name: **Critical Process Minor Onsite Flood Adaptations (30% Reclamation)**

Dept.: Treatment

5 yr. Cap Projection: \$ 50,000

CY Budget \$ 50,000

Asset Type: Various
 Avg Useful Life: Various
 Est Residual Life: Various
 % Consumed Life: Various
 Category: Capital Improvement
 Urgency: 3 = Important
 Carry Forward: No

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 likelihood of inundation is low and the impact short term, it would be prudent to mitigate any possible impacts of flooding on the treatment process. The areas that could be further adapted to avoid flooding inundation are:

Secondary Effluent Diversion Structure Hatches - The Secondary Effluent Diversion Structure (SED) was built by the Reclamation project and the hatch is very close to being below the 100-year flood plain and with increased flooding due to climate change could allow water to inflow into the treatment process which could lead to backups. The hatch would be water proofed to keep inflow of water into the treatment system minimized during possible 100-year flooding.

Chlorine Contact Channel Hatches - The Chlorine Contact Channel access openings are very close to being below the 100-year flood plain and with increased flooding due to climate change could allow water to inflow into the treatment process which could lead to backups. The openings would be water proofed to keep inflow of water into the treatment system during possible 100-year flooding.

Year Built: 1970s, 1980s, 2018

Rehabilitation Date (Extending life of Asset): N/A

Rehab Life Extension: N/A

Asset Condition Rating: 2

Justification

The above vulnerabilities were identified during the development of the CAWD Sea Level Rise Study. The likelihood of failure due to flooding is low probability, however the efforts to make the above adaptations is minimal and will help mitigate possible issues during flooding.

Reclamation Share is for the work to flood proof the Secondary Effluent Diversion Structure Hatches.

Risk Management Strategy

Capital Improvement Strategy: Plant Rehabilitation/Replacement

Maintenance Strategy: Corrective Maintenance

Non Asset Strategy:

Funding Source

Primary Capital Budget Secondary 30% Reclamation

Budget Impact/Other

	Estimated Cumulative Thru FY20-21	21-22	22-23	23-24	24-25	25-26	Total
Labor	\$	20,000				\$	20,000
Engineering						\$	-
Parts & Supplies	\$	30,000				\$	30,000
Chemicals						\$	-
Utility						\$	-
Other						\$	-
Total	\$	- \$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ 50,000

4 FY 2019-20 Budget
Carmel Area Wastewater District

Contact: Treanor
Area Yard Piping
Asset Type: Pipe (Process Buried)
Avg Useful Life: Over 50 years
Est Residual Life: 25 years
% Consumed Life: 50%
Category: Maintenance
Urgency: 3 = Important
Carry Forward: No

Project Name: **Cathodic Protection Testing and Maintenance (rollover)**

Dept.: Treatment

5 yr. Cap Projection: \$ 130,000

CY Budget \$ 30,000

Project Description

Cathodic protection is used to protect the Outfall Pipe, and Influent Piping. It is a technique used to control the corrosion of a metal surface by making it the cathode of an electrochemical cell. The District will continue to test the Cathodic protection systems as necessary to maintain knowledge of the condition of the critical underground process piping.

Year Built: 1970s, 1980s, 1990s

Rehabilitation Date (Extending life of Asset):

Rehab Life Extension:

Asset Condition Rating: Unknown

Justification

Underground process piping is difficult to assess due to the fact that it is buried and not visible. Maintaining the cathodic protection system helps to mitigate the chances of failure due to corrosion. Testing the cathodic protection system allows staff to understand how corrosion may be effecting buried infrastructure. Testing the cathodic protection system provides some information that is useful, but it doesn't provide all information needed to determine the condition of buried piping.

Risk Management Strategy

Capital Improvement Strategy:

Maintenance Strategy: Preventative Maintenance

Non Asset Strategy:

Funding Source

Primary Capital Budget Secondary

Budget Impact/Other

	Estimated Cumulative Thru FY20-21	21-22	22-23	23-24	24-25	25-26	Total
Labor			\$ 20,000			\$ 20,000	\$ 20,000
Engineering	\$ 30,000		\$ 50,000		\$ -	\$ -	\$ 80,000
Parts & Supplies			\$ 30,000			\$ -	\$ 30,000
Chemicals						\$ -	\$ -
Utility						\$ -	\$ -
Other						\$ -	\$ -
Total	\$ -	\$ 30,000	\$ -	\$ 100,000	\$ -	\$ -	\$ 130,000

5 FY 2019-20 Budget
Carmel Area Wastewater District

Contact: Treanor
Area Digester Control Bldg.
Asset Type: Process Equip (Gas)
Avg Useful Life: 20 years
Est Residual Life: 5 years
% Consumed Life: 70%
Category: Maintenance
Urgency: 4 = Less Important
Carry Forward: No

Project Name: **Microturbine Integration Project**

Dept.: Treatment

5 yr. Cap Projection: \$ 150,000

CY Budget \$ 150,000

Project Description

Additional Upgrades to the Microturbine system to integrate the new 65 kW turbine. Upgrades would include repairs and enhancements to the existing gas conditioning system and 30 kW microturbine exhaust. The 30 kW is being run to fail. The project will also look at adding high pressure storage to maximize gas usage during gas production spikes and other ways to maximize microturbine capacity. One option being considered to maximize microturbine production is to add natural gas blending into the digester gas.

Year Built: 2010s

Rehabilitation Date (Extending life of Asset): N/A

Rehab Life Extension: N/A

Asset Condition Rating: 6

Justification

Over the past year the Microturbines and Gas Conditioning System has been undergoing modifications including a new chiller system and a new gas compressor. A new SCADA control program was also added recently. The system is now on its way to producing more electricity than ever before. Further work is needed to fully utilize the capacity of these turbines for electricity generation (rehab gas conditioning system).

Risk Management Strategy

Capital Improvement Strategy: Plant Rehabilitation/Replacement

Maintenance Strategy: Corrective Maintenance

Non Asset Strategy:

Funding Source

Primary Capital Budget Secondary

Budget Impact/Other

	Estimated Cumulative Thru FY20-21	21-22	22-23	23-24	24-25	25-26	Total
Labor	\$	25,000				\$	25,000
Engineering	\$ 45,000	\$ 25,000				\$	25,000
Parts & Supplies	\$	100,000				\$	100,000
Chemicals						\$	-
Utility						\$	-
Other						\$	-
Total	\$ 45,000	\$ 150,000	\$ -	\$ -	\$ -	\$ -	\$ 150,000

6 FY 2019-20 Budget
Carmel Area Wastewater District

Contact: Treanor
 Area Chlor/Dechlor Bldg.
 Asset Type: Pipe (Process Exposed)
 Avg Useful Life: Over 50 years
 Est Residual Life: 40 years
 % Consumed Life: 25%
 Category: Maintenance
 Urgency: 3 = Important
 Carry Forward: No

Project Name: **Chlorine Contact Channel Pipe Gallery Pipe Coating**
 Dept.: Treatment
 5 yr. Cap Projection: \$ 75,000
 CY Budget \$ 75,000

Project Description
 Chlorine Contact Channel Pipe Gallery Piping is welded steel and subject to external corrosion in certain locations that are damp or subject to galvanic corrosion. This project would involve recoating of the piping to mitigate external pinhole corrosion.

Year Built: 1980s
 Rehabilitation Date (Extending life of Asset): N/A
 Rehab Life Extension: N/A
 Asset Condition Rating: Various

Justification
 The Chlorine Contact Channel piping conveys all of the secondary treated water to the chlorination process. Failure of this piping would result in emergency repairs having to be done and potential permit violations.

Risk Management Strategy
 Capital Improvement Strategy:
 Maintenance Strategy: Preventative Maintenance
 Non Asset Strategy:

Funding Source

Primary Capital Budget Secondary

Budget Impact/Other

	Estimated Cumulative Thru FY20-21	21-22	22-23	23-24	24-25	25-26	Total
Labor	\$ 35,000					\$ 35,000	\$ 35,000
Engineering						\$ -	\$ -
Parts & Supplies	\$ 40,000					\$ 40,000	\$ 40,000
Chemicals						\$ -	\$ -
Utility						\$ -	\$ -
Other						\$ -	\$ -
Total	\$ -	\$ 75,000	\$ -	\$ -	\$ -	\$ -	\$ 75,000

7 **FY 2019-20 Budget**
Carmel Area Wastewater District

Contact: Treanor
Area Misc. Structures
Asset Type: Structure
Avg Useful Life: 40 years
Est Residual Life: 0 years
% Consumed Life: 100%
Category: Maintenance
Urgency: 4 = Less Important
Carry Forward: No

Project Name: **Perimeter Fencing**
Dept.: Treatment
5 yr. Cap Projection: \$ 200,000
CY Budget \$ 200,000

Project Description

Fencing around the Treatment Plant facility has deteriorated and should be replaced. Replacement of fencing around Treatment Plant with 8' chain link.

Year Built: 1970s
Rehabilitation Date (Extending life of Asset): N/A
Rehab Life Extension: N/A
Asset Condition Rating: 8

Justification

This work is necessary to maintain security of the WWTP site.

Risk Management Strategy

Capital Improvement Strategy:
Maintenance Strategy: Corrective Maintenance
Non Asset Strategy:

Funding Source

Primary Capital Budget Secondary

Budget Impact/Other

	Estimated Cumulative Thru FY20-21	21-22	22-23	23-24	24-25	25-26	Total
Labor	\$ 50,000					\$ 50,000	\$ 50,000
Engineering						\$ -	\$ -
Parts & Supplies	\$ 3,000	\$ 150,000				\$ 150,000	\$ 150,000
Chemicals						\$ -	\$ -
Utility						\$ -	\$ -
Other						\$ -	\$ -
Total	\$ 3,000	\$ 200,000	\$ -	\$ -	\$ -	\$ -	\$ 200,000

8 **FY 2019-20 Budget**
 Carmel Area Wastewater District

Contact: Treanor
 Area

Project Name: **WWTP Perimeter Tree Planting**

Dept.: Treatment

5 yr. Cap Projection: \$ 210,000

CY Budget \$ 60,000

Asset Type: N/A
 Avg Useful Life: N/A
 Est Residual Life: N/A
 % Consumed Life: N/A
 Category: Capital Improvement
 Urgency: 4 = Less Important
 Carry Forward: No

Project Description

Further planning and potential start of implementation of planting new native trees around perimeter of plant in anticipation for potential removal of eucalyptus some day.

Year Built: 1970s

Rehabilitation Date (Extending life of Asset): N/A

Rehab Life Extension: N/A

Asset Condition Rating: N/A

Justification

The trees surrounding the treatment plant are 40 years old. There is a need to have a long term plan for these trees which could include replacement with native species over the next 20 years to provide an environmental benefit to the surrounding area. Staff currently has a maintenance schedule for trimming the existing eucalyptus which is a costly activity due to the number of trees and the height. Further study is needed to determine best course of action and some early implementation may be warranted. Planning is for salt tolerant trees.

Risk Management Strategy

Capital Improvement Strategy: Plant Rehabilitation/Replacement

Maintenance Strategy:

Non Asset Strategy:

Funding Source

Primary Capital Budget Secondary

Budget Impact/Other

	Estimated Cumulative Thru FY20-21	21-22	22-23	23-24	24-25	25-26	Total
Labor	\$ 60,000	\$ 75,000	\$ 75,000			\$ 210,000	
Engineering						\$ -	
Parts & Supplies						\$ -	
Chemicals						\$ -	
Utility						\$ -	
Other - Consulting	\$ 27,000					\$ -	
Total	\$ 27,000	\$ 60,000	\$ 75,000	\$ 75,000	\$ -	\$ -	\$ 210,000

9 FY 2019-20 Budget
Carmel Area Wastewater District

Contact: Treanor
Area WWTP
Asset Type: Landscaping
Avg Useful Life: 40 years
Est Residual Life: 0 years
% Consumed Life: 100%
Category: Capital Improvement
Urgency: 4 = Less Important
Carry Forward: No

Project Name: **Plant Landscaping**
Dept.: Treatment
5 yr. Cap Projection: \$ 150,000
CY Budget \$ -

Project Description

The front entrance area to the Treatment Plant is not landscaped. The entrance to the WWTP could benefit from aesthetic improvements. CAWD gets many visitors who go on tours and it is desirable to provide a positive impression visually at the front of the WWTP. This would be accomplished by improving the landscaping at the front part of the plant where visitors enter.

Year Built: N/A
Rehabilitation Date (Extending life of Asset): N/A
Rehab Life Extension: N/A
Asset Condition Rating: 8

Justification

Show pride of ownership of the WWTP and increase the positive impression to visitors of the WWTP.

Risk Management Strategy

Capital Improvement Strategy: Plant Rehabilitation/Replacement
Maintenance Strategy:
Non Asset Strategy:

Funding Source

Primary Capital Budget Secondary

Budget Impact/Other

	Estimated Cumulative Thru FY20-21	21-22	22-23	23-24	24-25	25-26	Total
Labor		\$	150,000			\$	150,000
Engineering	\$20,000					\$	-
Parts & Supplies						\$	-
Chemicals						\$	-
Utility						\$	-
Other						\$	-
Total	\$ 20,000	\$ -	\$ 150,000	\$ -	\$ -	\$ -	\$ 150,000

10 **FY 2019-20 Budget**
 Carmel Area Wastewater District

Contact: Treanor
 Area Misc. Structures
 Asset Type: Electrical
 Avg Useful Life: 25 years
 Est Residual Life: 1 year
 % Consumed Life: 100%
 Category: Maintenance
 Urgency: 3 = Important
 Carry Forward: No

Project Name: **Lunch Room MCC Replace with Panelboard (Collection 6%)**
 Dept.: Treatment
 5 yr. Cap Projection: \$ 140,000
 CY Budget \$ -

Project Description

The Lunch Room MCC is a remnant of when this building used to be used for chlorine feed and also as a lab. Now this building is a lunch room and doesn't need 480V power. This project would replace the existing 480V MCC in the lunch room with a 120V panelboard more suitable for this building.

Year Built: 1950s
 Rehabilitation Date (Extending life of Asset): N/A
 Rehab Life Extension: N/A
 Asset Condition Rating: 8

Justification

The existing MCC is past its useful life and no longer appropriate as electrical equipment for this building.

Risk Management Strategy

Capital Improvement Strategy:
 Maintenance Strategy: Preventative Maintenance
 Non Asset Strategy:

Funding Source

Primary Capital Budget Secondary

Budget Impact/Other

	Estimated Cumulative Thru FY20-21	21-22	22-23	23-24	24-25	25-26	Total
Labor		\$	30,000			\$	30,000
Engineering		\$	20,000			\$	20,000
Parts & Supplies		\$	90,000			\$	90,000
Chemicals						\$	-
Utility						\$	-
Other						\$	-
Total	\$	-	\$ 140,000	\$	-	\$	140,000

11 FY 2019-20 Budget
 Carmel Area Wastewater District

Contact: Treanor
 Area Yard Piping

Project Name: **Main Potable Water and Gas Main Replacement (5.5% Collections)**
 Dept.: Treatment
 5 yr. Cap Projection: \$ 250,000
 CY Budget \$ -

Asset Type: Pipe (Misc.)
 Avg Useful Life: Over 50 years
 Est Residual Life: Unknown
 % Consumed Life: Unknown
 Category: Maintenance
 Urgency: 4 = Less Important
 Carry Forward: No

Project Description
 The potable water and natural gas feed into the plant currently go through the existing under river encasement. The condition of these pipelines are unknown. Schedule 80 PVC piping is not to current code.

Year Built: 1980s
 Rehabilitation Date (Extending life of Asset): N/A
 Rehab Life Extension: N/A
 Asset Condition Rating: Unknown

Justification
 The potable water and natural gas utility lines entering the plant are critical to the day to day operations at the WWTP and CAWD is budgeting to potentially install new lines.

Risk Management Strategy
 Capital Improvement Strategy: Plant Rehabilitation/Replacement
 Maintenance Strategy:
 Non Asset Strategy:

Funding Source

Primary Capital Budget Secondary

Budget Impact/Other

	Estimated Cumulative Thru FY20-21	21-22	22-23	23-24	24-25	25-26	Total
Labor			\$	100,000		\$	100,000
Engineering		\$	100,000			\$	100,000
Parts & Supplies			\$	50,000		\$	50,000
Chemicals						\$	-
Utility						\$	-
Other						\$	-
Total	\$ -	\$ -	\$ 100,000	\$ 150,000	\$ -	\$ -	\$ 250,000

12 **FY 2019-20 Budget**
 Carmel Area Wastewater District

Contact: Treanor

Area Blower Bldg.

Asset Type: Process Equip (Gas)

Avg Useful Life: 30 years

Est Residual Life: 10 years

% Consumed Life: 66%

Category: Maintenance

Urgency: 4 = Less Important

Carry Forward: No

Project Name: **Replace Older Turblex Blower**

Dept.: Treatment

5 yr. Cap Projection: \$ 530,000

CY Budget \$ -

Project Description

Continuous air supply is a critical component for aeration processes within wastewater treatment. A reliable low pressure blower system with full redundancy is essential to provide continuous operation of the critical aeration process. This project will include evaluating installation of a smaller blower, or replacement of the Lamson blower that was installed in the 1970's.

Year Built: 1972, 1992

Rehabilitation Date (Extending life of Asset):

Rehab Life Extension:

Asset Condition Rating: 5 Moderate Deterioration

Justification

Two blowers are required to provide redundancy for the aeration process. The new turblex blower was installed in 2017 and is currently the lead blower. The old turblex blower will have been in service 25 years in 22/23 and may need to be replaced since it will be at its average useful life. If it is determined that energy savings could benefit the District during low flow periods, a smaller blower may be proposed.

Risk Management Strategy

Capital Improvement Strategy:

Maintenance Strategy: Preventative Maintenance

Non Asset Strategy:

Funding Source

Primary Capital Budget Secondary

Budget Impact/Other

	Estimated Cumulative Thru FY20-21	21-22	22-23	23-24	24-25	25-26	Total
Labor				\$ 100,000		\$	100,000
Engineering						\$	-
Parts & Supplies			\$	430,000		\$	430,000
Chemicals						\$	-
Utility						\$	-
Other						\$	-
Total	\$ -	\$ -	\$ -	\$ 530,000	\$ -	\$ -	\$ 530,000

13 FY 2019-20 Budget
Carmel Area Wastewater District

Contact: Treanor
Area Various
Asset Type: Structure
Avg Useful Life: 25 years
Est Residual Life: 1 year
% Consumed Life: 40%
Category: Maintenance
Urgency: 3 = Important
Carry Forward: No

Project Name: **Roofing Repairs**
Dept.: Treatment
yr. Cap Projection: \$ 100,000
CY Budget \$ -

Project Description

The Operations Building, Influent Building, and the Headworks control room have concrete roofs with an asphaltic built up roofing system common to commercial buildings. The asphaltic roof system can degrade over time which allows rainwater to leak onto the concrete roof which is not water tight. The concrete structure of the roof will not need to be repaired, just the water barrier on top.

Year Built: 1990

Rehabilitation Date (Extending life of Asset):

Rehab Life Extension:

Asset Condition Rating: 5 Moderate Deterioration

Justification

During the rainy season water can leak through an old asphaltic roof system resulting in potential water intrusion into buildings with equipment and personnel. Maintaining water tight roofs avoids any damage to equipment or safety issues created by pooling water indoors.

Risk Management Strategy

Capital Improvement Strategy:

Maintenance Strategy: Predictive & Preventative Maintenance

Non Asset Strategy:

Funding Source

Primary Capital Budget Secondary

Budget Impact/Other

	Estimated Cumulative Thru FY20-21	21-22	22-23	23-24	24-25	25-26	Total
Labor				\$ 50,000		\$	50,000
Engineering						\$	-
Parts & Supplies			\$ 50,000			\$	50,000
Chemicals						\$	-
Utility						\$	-
Other						\$	-
						\$	-
Total	\$ -	\$ -	\$ -	\$ 100,000	\$ -	\$ -	\$ 100,000

14 FY 2019-20 Budget
Carmel Area Wastewater District

Contact: Treanor
Area Misc. Structures
Asset Type: N/A
Avg Useful Life: 40 years
Est Residual Life: 40 years
% Consumed Life: N/A
Category: Capital Equipment
Urgency: 3 = Important
Carry Forward: No

Project Name: **Inventory Storage Containers**
Dept.: Treatment
5 yr. Cap Projection: \$ 175,000
CY Budget \$ -

Project Description
The operations and maintenance department requires storage onsite for inventory. Recently various storage containers have been used and located around the plant for onsite storage. This project would include improvements to existing sea container storage system for better organization of inventory and better access.

Year Built: N/A
Rehabilitation Date (Extending life of Asset):
Rehab Life Extension:
Asset Condition Rating: N/A

Justification
The sea containers that are currently used for storage of inventory are located at the back of the plant and are inefficient to use because they are located far from the rest of the maintenance and inventory storage areas. This project is intended to improve efficiency of maintenance work by centralizing inventory storage in a central sea container area. The project will include design to withstand flooding.

Risk Management Strategy
Capital Improvement Strategy: Plant Rehabilitation/Replacement
Maintenance Strategy:
Non Asset Strategy:

Funding Source

Primary	Capital Budget	Secondary
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Budget Impact/Other

	Estimated Cumulative Thru FY20-21	21-22	22-23	23-24	24-25	25-26	Total
Labor						\$	-
Engineering			\$	175,000		\$	175,000
Parts & Supplies						\$	-
Chemicals						\$	-
Utility						\$	-
Other						\$	-
Total	\$ -	\$ -	\$ -	\$ 175,000	\$ -	\$ -	\$ 175,000

15 FY 2019-20 Budget
Carmel Area Wastewater District

Contact: Treanor
Area Misc. Structures

Project Name: **Plant Paving and Vault Lids**

Asset Type: Various

Dept.: Treatment

Avg Useful Life: Various

5 yr. Cap Projection: \$ 250,000

Est Residual Life: Various

CY Budget \$ -

% Consumed Life: Various

Category: Maintenance

Urgency: 4 = Less Important

Carry Forward: No

Project Description

Repaving inside the treatment plant grounds. Replacement of failing vault lids in various locations.

Year Built: Various

Rehabilitation Date (Extending life of Asset):

Rehab Life Extension:

Asset Condition Rating: Various

Justification

The WWTP paved areas are used for vehicle and equipment movement around the plant, pavement needs to be maintained to provide for safe and efficient movement around the WWTP. There are numerous vault lids in paved and unpaved areas that have broken hinges and therefore are unsafe to open and close to do inspections and operations work.

Risk Management Strategy

Capital Improvement Strategy:

Maintenance Strategy: Corrective Maintenance

Non Asset Strategy:

Funding Source

Primary Capital Budget Secondary

Budget Impact/Other

	Estimated Cumulative Thru FY20-21	21-22	22-23	23-24	24-25	25-26	Total
Labor				\$ 100,000		\$ 100,000	\$ 100,000
Engineering				\$50,000		\$ 50,000	\$ 50,000
Parts & Supplies				\$ 100,000		\$ 100,000	\$ 100,000
Chemicals						\$ -	\$ -
Utility						\$ -	\$ -
Other						\$ -	\$ -
Total	\$ -	\$ -	\$ -	\$ 50,000	\$ 200,000	\$ -	\$ 250,000

16 FY 2019-20 Budget
Carmel Area Wastewater District

Contact: Treanor

Area Digesters

Asset Type: Process Equip (Solid)

Avg Useful Life: Over 50 years

Est Residual Life: 25 years

% Consumed Life: 40%

Category: Maintenance

Urgency: 3 = Important

Carry Forward: No

Project Name: **Digester No. 1 - Rehabilitation**

Dept.: Treatment

5 yr. Cap Projection: \$ 910,000

CY Budget \$ -

Project Description

Digester #1 is one of two digesters which serve the treatment plant. This tank is essential to providing digestion process redundancy. This digester needs maintenance to the cover and the walls. After the Digester has been cleaned it will be inspected to determine the extent of interior repairs that are necessary.

Year Built: 1972

Rehabilitation Date (Extending life of Asset): N/A

Rehab Life Extension: N/A

Asset Condition Rating: 7 Significant Deterioration

Justification

The Digester tanks are critical for stabilization of sludge before dewatering to meet Class B biosolids disposal regulations. CAWD has two functional primary digesters that are intended for long term service. The two tanks are necessary for redundancy so treatment can be maintained during maintenance of one digester. Digester 1 needs repairs to concrete walls and to the steel cover to keep this tank in good condition.

Risk Management Strategy

Capital Improvement Strategy: Plant Rehabilitation/Replacement

Maintenance Strategy: Preventative Maintenance

Non Asset Strategy:

Funding Source

Primary

Capital Budget

Secondary

Budget Impact/Other

	Estimated Cumulative Thru FY20-21	21-22	22-23	23-24	24-25	25-26	Total
Labor					\$ 250,000	\$	250,000
Engineering			\$	150,000	\$	100,000	250,000
Parts & Supplies					\$	410,000	410,000
Chemicals						\$	-
Utility						\$	-
Other						\$	-
Total	\$ -	\$ -	\$ -	\$ 150,000	\$ 760,000	\$ -	\$ 910,000

17 FY 2019-20 Budget
Carmel Area Wastewater District

Contact: Treanor
 Area Influent Building

Project Name: **Influent Pump Station Wet Well Repairs**

Dept.: Treatment

yr. Cap Projection: \$ 150,000

CY Budget \$ -

Asset Type: Structure
 Avg Useful Life: Over 50 years
 Est Residual Life: 30 years
 % Consumed Life: 40%
 Category: Maintenance
 Urgency: 3 = Important
 Carry Forward: No

Project Description

The influent wet well provides storage during pumping of plant influent to the Headworks. The wet well is subject to corrosive conditions which degrade concrete over time and if left unchecked the corrosion can extend into the rebar which is much more expensive to repair than the outer concrete layer.

Year Built: 1982

Rehabilitation Date (Extending life of Asset):

Rehab Life Extension:

Asset Condition Rating: 5 Moderate Deterioration

Justification

The influent wet well is a critical component of the conveyance of the raw wastewater to the treatment system. Repairing the concrete (method will likely be coating) as a preventative maintenance activity avoids degradation of reinforcing steel which would be much more costly to repair and damaging to the structural integrity. This wet well was identified in the asset management risk evaluations as being a candidate for repairs in the near term due to Consequence of Failure and Probability of Failure.

Risk Management Strategy

Capital Improvement Strategy:

Maintenance Strategy: Preventative Maintenance

Non Asset Strategy:

Funding Source

Primary Capital Budget Secondary

Budget Impact/Other

	Estimated Cumulative Thru FY20-21	21-22	22-23	23-24	24-25	25-26	Total
Labor				\$ 50,000		\$ 50,000	\$ 50,000
Engineering				\$ 50,000		\$ 50,000	\$ 50,000
Parts & Supplies				\$ 50,000		\$ 50,000	\$ 50,000
Chemicals						\$ -	\$ -
Utility						\$ -	\$ -
Other						\$ -	\$ -
Total	\$ -	\$ -	\$ -	\$ -	\$ 150,000	\$ -	\$ 150,000

18 **FY 2019-20 Budget**
 Carmel Area Wastewater District

Contact: Treanor
 Area Ops Bldg.
 Asset Type: Building Mechanical
 Avg Useful Life: 25 years
 Est Residual Life: 5 years
 % Consumed Life: 80%
 Category: Maintenance
 Urgency: 3 = Important
 Carry Forward: No

Project Name: **Operations Building HVAC and Plumbing Systems Repairs**
 Dept.: Treatment
 5 yr. Cap Projection: \$ 155,000
 CY Budget \$ -

Project Description

The Operations Building provides staff work area with workstations for operators, contains a conference room that is used frequently, houses the main computer and SCADA servers for the treatment plant, and houses the main electrical switchgear. The HVAC system will need to be replaced for this building including heating and air conditioning, and the louvers in the switchgear room need to be replaced to keep salt air out of the electrical room. Also, the basement plumbing needs to be renovated.

Year Built: 1972
 Rehabilitation Date (Extending life of Asset): N/A
 Rehab Life Extension: N/A
 Asset Condition Rating: 7 Significant Deterioration

Justification

The Operations Building houses several critical systems of the WWTP including the main electrical switchgear and the main computer and SCADA servers. Keeping the air quality in the building cool and dry will extend the life of these expensive assets. Improving the HVAC systems in this building will improve the indoor air quality and will keep the switchgear and SCADA equipment in good condition.

Risk Management Strategy

Capital Improvement Strategy:
 Maintenance Strategy: Corrective Maintenance
 Non Asset Strategy:

Funding Source

Primary Capital Budget Secondary

Budget Impact/Other

	Estimated Cumulative Thru FY20-21	21-22	22-23	23-24	24-25	25-26	Total
Labor				\$	50,000	\$	50,000
Engineering				\$	15,000	\$	15,000
Parts & Supplies				\$	90,000	\$	90,000
Chemicals						\$	-
Utility						\$	-
Other						\$	-
Total	\$ -	\$ -	\$ -	\$ -	\$ 155,000	\$ -	\$ 155,000

19 FY 2019-20 Budget
Carmel Area Wastewater District

Contact: Treanor
Area Misc. Structures

Project Name: Staff Office Trailer Replacements

Dept.: Treatment
5 yr. Cap Projection: \$ 250,000
CY Budget \$ -

Asset Type: Structure
Avg Useful Life: 25 years
Est Residual Life: 5 years
% Consumed Life: 80%
Category: Capital Equipment
Urgency: 5 = Future
Carry Forward: No

Project Description

Staff currently use four mobile trailers for office space at the WWTP. It is anticipated that in about 8 to 10 years these trailers will need to be replaced or undergo extensive repairs due to age.

Year Purchased: 1999, 2009, 2013, 2019 Note: the trailers were not purchased as "New"
Rehabilitation Date (Extending life of Asset): N/A
Rehab Life Extension: N/A
Asset Condition Rating: 5 Moderate Deterioration

Justification

About 7 staff members at the WWTP use office trailers as their daily workspace. These trailers are critical for these staff to do their work and so they need to be maintained or replaced. Conceptually, the intent is to use some type of prefabricated building that could be modular in nature (i.e. mobile home trailers, shipping container buildings, or other types of prefab buildings). CAWD would still need to do site work to prep the area for the new buildings (utilities, grading, stairs, etc.).

Risk Management Strategy

Capital Improvement Strategy: Plant Rehabilitation/Replacement
Maintenance Strategy: Corrective Maintenance
Non Asset Strategy:

Funding Source

Primary Capital Budget Secondary

Budget Impact/Other

	Estimated Cumulative Thru FY20-21	21-22	22-23	23-24	24-25	25-26	Total
Labor					\$ 100,000	\$	100,000
Engineering					\$ 50,000	\$	50,000
Parts & Supplies					\$ 100,000	\$	100,000
Chemicals						\$	-
Utility						\$	-
Other						\$	-
Total	\$ -	\$ -	\$ -	\$ -	\$ 250,000	\$ -	\$ 250,000

20 FY 2019-20 Budget
Carmel Area Wastewater District

Contact: Treanor

Area N/A

Asset Type: Structure

Avg Useful Life: Over 50 years

Est Residual Life: 15 years

% Consumed Life: 75%

Category: Maintenance

Urgency: 5 = Future

Carry Forward: No

Project Name: **Plant Bridge Retrofit Project**

Dept.: Treatment

5 yr. Cap Projection: \$ 1,300,000

CY Budget \$ -

Project Description

CAWD owns a pedestrian bridge over the Carmel River that continues to be a valuable asset for staff to access the North side of the river where CAWD maintains our natural gas service and also main trunk system lines. The fact that the bridge is intact after almost 90 years of service with essentially no maintenance is an indication of the quality of the construction. However, the bridge was evaluated by a structural design firm in 2011 and was found to have deficiencies during a large seismic event and vulnerable if it is hit by a large tree during an extreme flood event. If this structure could be rehabilitated it could potentially be used in the future as a pedestrian bridge for potential future coastal scenic walking trails connecting the State Park to Carmel-by-the-Sea.

Year Built: 1930s

Rehabilitation Date (Extending life of Asset):

Rehab Life Extension:

Asset Condition Rating: 7 Significant Deterioration

Justification

The bridge over the river is currently of value to the District in terms of access to assets on the North side of the river and also for access to the WWTP from the North if the plant access road is flooded. Maintaining this bridge is possible. Also, there may be value to the community in the future for coastal trails.

Risk Management Strategy

Capital Improvement Strategy:

Maintenance Strategy: Corrective Maintenance

Non Asset Strategy:

Funding Source

Primary Capital Budget Secondary

Budget Impact/Other

	Estimated Cumulative Thru FY20-21	21-22	22-23	23-24	24-25	25-26	Total
Labor					\$ 350,000	\$ -	-
Engineering			\$150,000	\$150,000	\$ 200,000	\$ 100,000	\$ 500,000
Parts & Supplies					\$ 350,000	\$ -	-
Chemicals						\$ -	-
Utility						\$ -	-
Other						\$ -	-
Total	\$ -	\$ -	\$ 150,000	\$ 150,000	\$ 200,000	\$ 800,000	\$ 1,300,000

21 FY 2019-20 Budget
Carmel Area Wastewater District

Contact: Treanor

Area RAS Pump Bldg.

Asset Type: Pipe (Process Exposed)

Avg Useful Life: Various

Est Residual Life: Various

% Consumed Life: Various

Category: Maintenance

Urgency: 4 = Less Important

Carry Forward: No

Project Name: **RAS Pump/Piping Rehab**

Dept.: Treatment

5 yr. Cap Projection: \$ 75,000

CY Budget \$ -

Project Description

The RAS Pump and Piping in the basement of the RAS building are currently abandoned after the Phase 1 project installed two new pumps. One pump and some piping were kept in case CAWD wanted to add redundancy to the RAS Pumping system. This project would rehabilitate a small amount of piping and connect the old pump to the new MCC to serve as a backup RAS pump.

Year Built: Various

Rehabilitation Date (Extending life of Asset): N/A

Rehab Life Extension: N/A

Asset Condition Rating: 6

Justification

RAS pumping is critical to the secondary process. A small investment in rehabilitation of the old pump would provide additional redundancy.

Risk Management Strategy

Capital Improvement Strategy: Plant Rehabilitation/Replacement

Maintenance Strategy: Corrective Maintenance

Non Asset Strategy:

Funding Source

Primary Capital Budget Secondary

Budget Impact/Other

	Estimated Cumulative Thru FY20-21	21-22	22-23	23-24	24-25	25-26	Total
Labor					\$	40,000	\$ 40,000
Engineering					\$	15,000	\$ 15,000
Parts & Supplies					\$	20,000	\$ 20,000
Chemicals						\$	-
Utility						\$	-
Other						\$	-
Total	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 75,000	\$ 75,000

22 FY 2019-20 Budget
Carmel Area Wastewater District

Contact: Treanor
Area Misc. Structures
Asset Type: Various
Avg Useful Life: Various
Est Residual Life: N/A
% Consumed Life: N/A
Category: Capital Improvement
Urgency: 5 = Future
Carry Forward: No

Project Name: **Septage Waste Receiving Station**
Dept.: Treatment
5 yr. Cap Projection: \$ 100,000
CY Budget \$ -

Project Description
Construction of a new Wet Waste/Septage receiving station to be located adjacent to the new Digester. Station would be able to receive up to 10,000gal/day (2 tankers of ~ 5,000 gal size) of material and would be injected directly into the Digester to avoid increasing the biological load on the aeration system.

Year Built: N/A
Rehabilitation Date (Extending life of Asset): N/A
Rehab Life Extension: N/A
Asset Condition Rating: N/A

Justification
Preliminary design of a septage receiving facility was conducted by Kennedy/Jenks Consultants and it was concluded that the construction of this facility would pay for itself in revenue in about 10 years. Staff feels that this service would be a good source of revenue and will benefit local septic haulers in that they wouldn't have to drive as far to dispose of the waste. Adding a septage receiving facility is not critical to the operation of the treatment plant or to improving reliability. The existing grease receiving station can be utilized for food waste but not for septage. This project can be re-evaluated every couple of years to see if there is merit or desire for CAWD to provide septage receiving.

Risk Management Strategy
Capital Improvement Strategy: N/A
Maintenance Strategy: N/A
Non Asset Strategy: N/A

Funding Source
Primary Capital Budget Secondary

Budget Impact/Other

	Estimated Cumulative Thru FY20-21	21-22	22-23	23-24	24-25	25-26	Total
Labor					\$	40,000	\$ 40,000
Engineering					\$	15,000	\$ 15,000
Parts & Supplies					\$	45,000	\$ 45,000
Chemicals						\$	-
Utility						\$	-
Other						\$	-
Total	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 100,000	\$ 100,000

23 FY 2019-20 Budget
 Carmel Area Wastewater District

Contact: Treanor
 Area Outfall
 Asset Type: Various
 Avg Useful Life: Various
 Est Residual Life: Various
 % Consumed Life: Various
 Category: Maintenance
 Urgency: 5 = Future
 Carry Forward: No

Project Name: **Lagoon Crossing Rehabilitation**

Dept.: Treatment

5 yr. Cap Projection: \$ -

CY Budget \$ -

Project Description

Potential rehabilitation of Lagoon Crossing Structure to maintain condition. Project may include driving a new set of piles in the lagoon to maintain the existing structure.

Year Built: Various

Rehabilitation Date (Extending life of Asset): 2019

Rehab Life Extension: N/A

Asset Condition Rating: 4

Justification

The Outfall Pipeline and Calle La Cruz Forcemain are in acceptable condition. Rehabilitation may be needed in the future and may include driving new piles.

Risk Management Strategy

Capital Improvement Strategy:

Maintenance Strategy: Preventative Maintenance

Non Asset Strategy:

Funding Source

Primary Capital Budget Secondary

Budget Impact/Other

	26-27	Total
Labor \$	200,000	\$ 200,000
Engineering \$	50,000	\$ 50,000
Parts & Supplies \$	250,000	\$ 250,000
Chemicals	\$	-
Utility	\$	-
Other	\$	-
	\$	-
Total	\$ 500,000	\$ 500,000

24 FY 2019-20 Budget
 Carmel Area Wastewater District

Contact: Treanor
 Area Outfall
 Asset Type: Structure
 Avg Useful Life: Over 50 years
 Est Residual Life: 20 years
 % Consumed Life: 60%
 Category: Maintenance
 Urgency: 5 = Future
 Carry Forward: No

Project Name: **Ocean Outfall Rehabilitation**
 Dept.: Treatment
 Cap Projection: \$ -
 CY Budget \$ -

Project Description

The outfall pipeline was installed in the 1970s and has experienced a break only one time - in 2007. That break in the pipeline cost \$647,504 to repair. The cause of the break remains unknown. Repair to the WWTP outfall in the event annual inspections reveal a defect or emergency repair as a result of storm damage. This item is being scheduled for 29/30 but the actual timeframe will depend on ongoing inspections of the outfall. Underwater inspections this past year found no defects.

Year Built: 1970

Rehabilitation Date (Extending life of Asset):

Rehab Life Extension:

Asset Condition Rating: 2

Justification

The ocean outfall is a critical asset to the NPDES permit as the diffusion in the outfall is required by the permit to meet the initial dilution requirements. The design of the outfall appears to be very good in that it is bedded on the granite shelf and the ocean-facing side is concrete encased for protection.

Risk Management Strategy

Capital Improvement Strategy:

Maintenance Strategy: Corrective Maintenance

Non Asset Strategy:

Funding Source

Primary Capital Budget Secondary

Budget Impact/Other

	29-30	Total
Labor	\$ 300,000	\$ 300,000
Engineering	\$ 200,000	\$ 200,000
Parts & Supplies	\$ 500,000	\$ 500,000
Chemicals	\$ -	\$ -
Utility	\$ -	\$ -
Other	\$ -	\$ -
	\$ -	\$ -
Total	\$ 1,000,000	\$ 1,000,000

25 **FY 2019-20 Budget**
 Carmel Area Wastewater District

Contact: Treanor
 Area Various
 Asset Type: SCADA
 Avg Useful Life: 15 years
 Est Residual Life: 15 years
 % Consumed Life: 0%
 Category: Maintenance
 Urgency: 5 = Future
 Carry Forward: No

Project Name: **Next Generation PLC/SCADA Upgrades Phase 1**
 Dept.: Treatment
 5 yr. Cap Projection: \$ -
 CY Budget \$ -

Project Description

Upgrades to PLC and SCADA equipment to keep up with obsolescence of technology. Most likely PLC equipment and SCADA software currently installed will be obsolete in 15 years with newer technology providing better service.

Year Built: 1972
 Rehabilitation Date (Extending life of Asset): 2019
 Rehab Life Extension: 25
 Asset Condition Rating: 2

Justification

SCADA software and PLC equipment are critical to the monitoring and operation of the WWTP. These assets can fail and the availability of replacement parts is a driver for replacement as technology changes.

Risk Management Strategy

Capital Improvement Strategy: Plant Rehabilitation/Replacement
 Maintenance Strategy: Predictive & Preventative Maintenance
 Non Asset Strategy:

Funding Source

Primary Capital Budget Secondary

Budget Impact/Other

		33-34	Total
Labor	\$	350,000	\$ 350,000
Engineering	\$	200,000	\$ 200,000
Parts & Supplies	\$	450,000	\$ 450,000
Chemicals	\$		-
Utility	\$		-
Other	\$		-
	\$		-
Total	\$	1,000,000	\$ 1,000,000

26 FY 2019-20 Budget
 Carmel Area Wastewater District

Contact: Treanor
 Area WWTP
 Asset Type: Various
 Avg Useful Life: 50 years
 Est Residual Life: Various
 % Consumed Life: Various
 Category: Capital Improvement
 Urgency: 5 = Future
 Carry Forward: No

Project Name: **Sea Level Rise Flood Mitigation**
 Dept.: Treatment
 Cap Projection: \$ -
 CY Budget \$ -

Project Description

Some future work to mitigate impacts of climate change. CAWD completed a sea level rise study in 2018 that indicates that the treatment plant will be vulnerable to increased riverine flooding resulting from climate change. The plant has been designed to operate during floods, however if the base flood elevation increases above the current level of protection then improvements would need to be made to mitigate higher flood levels.

Year Built: 1970s - 2010s
 Rehabilitation Date (Extending life of Asset):
 Rehab Life Extension:
 Asset Condition Rating: 2

Justification

Increased riverine flood levels onsite in future extreme sea level rise scenarios could cause NPDES permit violations.

Risk Management Strategy

Capital Improvement Strategy: Plant Rehabilitation/Replacement
 Maintenance Strategy: Predictive & Preventative Maintenance
 Non Asset Strategy:

Funding Source

Primary Capital Budget Secondary

Budget Impact/Other

	Unknown	Total
Labor	\$ -	-
Engineering	\$ -	-
Parts & Supplies	\$ -	-
Chemicals	\$ -	-
Utility	\$ -	-
Other	\$ -	-
	\$ -	-
Total	<u>Unknown</u>	<u>Unknown</u>

27 **FY 2019-20 Budget**
 Carmel Area Wastewater District

Contact: Treanor
 Area Various
 Asset Type: Pipe (Process Buried)
 Avg Useful Life: Over 50 years
 Est Residual Life: Various
 % Consumed Life: Various
 Category: Maintenance
 Urgency: 3 = Important
 Carry Forward: No

Project Name: **Misc. Yard Piping Rehab and Maintenance Projects**
 Dept.: Treatment
 5 yr. Cap Projection: \$ -
 CY Budget \$ -

Project Description

After inspections of select buried piping segments that have a high consequence of failure, it may be found that the buried pipeline should be rehabilitated. An allowance is estimated for rehabilitation of buried piping in the WWTP.

Buried piping with a high consequence of failure and selected for possible rehabilitation include:

#1 Water Distribution Piping, #3 Water Distribution Piping, Natural Gas Piping, Influent Piping, Secondary Clarifier #1 Effluent Piping, Piping between the Headworks and Primary Clarifiers

Year Built: Various
 Rehabilitation Date (Extending life of Asset): Various
 Rehab Life Extension: 30
 Asset Condition Rating: 5 Moderate Deterioration

Justification

Piping level of service to carry fluids, gas or chemicals without leaks or breaks. Leaks and breaks should be proactively mitigated to avoid spills to the environment.

Failure Modes Addressed:

1. Lack of proactive failure mitigation and condition assessment of buried piping.
2. The condition of buried piping is unknown however due to the prevalent corrosion that can occur in wastewater process piping it is likely that condition issues exist in some buried piping.

Risk Management Strategy

Capital Improvement Strategy: Plant Rehabilitation/Replacement
 Maintenance Strategy: Corrective Maintenance
 Non Asset Strategy:

Funding Source

Primary Capital Budget Secondary

Budget Impact/Other

	26-27	27-28	28-29	29-30	30-31	Total
Labor	\$45,000	\$45,000	\$45,000	\$45,000	\$45,000	\$ 225,000
Engineering					\$	-
Parts & Supplies	\$45,000	\$45,000	\$45,000	\$45,000	\$45,000	\$ 225,000
Chemicals					\$	-
Utility					\$	-
Other					\$	-
					\$	-
Total	\$ 90,000	\$ 90,000	\$ 90,000	\$ 90,000	\$ 90,000	\$ 450,000

28 FY 2019-20 Budget
Carmel Area Wastewater District

Contact: Treanor
Area Various
Asset Type: Various
Avg Useful Life: Various
Est Residual Life: Various
% Consumed Life: Various
Category: Maintenance
Urgency: 3 = Important
Carry Forward: No

Project Name: **Influent/Headworks/Primary Rehab and Maintenance Projects**

Dept.: Treatment

5 yr. Cap Projection: \$ -

CY Budget \$ -

Project Description

The Influent/Headwork/Primary provides removal provides influent conveyance of wastewater and removal of settleable solids. To maintain these facilities in good condition will require future investment in rehabilitation and maintenance activities. The exact work is not known at this time. The budget for this maintenance project work is a small percentage of the replacement cost of these assets as developed in the asset management work.

Year Built: Various

Rehabilitation Date (Extending life of Asset): Various

Rehab Life Extension: Various

Asset Condition Rating: Various

Justification

Exact project work is not known at this time. Investment in maintenance activities to address condition issues will keep existing infrastructure from degrading and requiring major replacement work.

Risk Management Strategy

Capital Improvement Strategy: Plant Rehabilitation/Replacement

Maintenance Strategy: Predictive & Preventative Maintenance

Non Asset Strategy:

Funding Source

Primary Capital Budget Secondary

Budget Impact/Other

	26-27	27-28	28-29	29-30	30-31	Total
Labor	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$ 250,000
Engineering					\$	-
Parts & Supplies	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$ 250,000
Chemicals					\$	-
Utility					\$	-
Other					\$	-
					\$	-
Total	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 500,000

29 FY 2019-20 Budget
Carmel Area Wastewater District

Contact: Treanor
Area Various
Asset Type: Various
Avg Useful Life: Various
Est Residual Life: Various
% Consumed Life: Various
Category: Maintenance
Urgency: 3 = Important
Carry Forward: No

Project Name: **EQ/Blowers/Aeration/Secondary Rehab and Maintenance Projects (Partial Reclamation)**
Dept.: Treatment
5 yr. Cap Projection: \$ -
CY Budget \$ -

Project Description

The Blowers/Aeration/Secondary processes provide removal of Biological Oxygen Demand and light settleable solids. To maintain these facilities in good condition will require future investment in rehabilitation and maintenance activities. The exact work is not known at this time. The budget for this maintenance project work is a small percentage of the replacement cost of these assets as developed in the asset management work.

Year Built: Various
Rehabilitation Date (Extending life of Asset): Various
Rehab Life Extension: Various
Asset Condition Rating: Various

Justification

Exact project work is not known at this time. Investment in maintenance activities to address condition issues will keep existing infrastructure from degrading and requiring major replacement work.

Reclamation share of work will be dependent on whether portion of work is for the benefit of reclamation production. The Equalization (EQ) system and the nitrification optimization systems which are in this area are associated with Reclamation.

Risk Management Strategy

Capital Improvement Strategy: Plant Rehabilitation/Replacement
Maintenance Strategy: Predictive & Preventative Maintenance
Non Asset Strategy:

Funding Source

Primary Capital Budget Secondary

Budget Impact/Other

	26-27	27-28	28-29	29-30	30-31	Total
Labor	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$ 500,000
Engineering					\$	-
Parts & Supplies	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$ 500,000
Chemicals					\$	-
Utility					\$	-
Other					\$	-
					\$	-
Total	\$ 200,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ 1,000,000

30 FY 2019-20 Budget
Carmel Area Wastewater District

Contact: Treanor
Area: Various
Asset Type: Various
Avg Useful Life: Various
Est Residual Life: Various
% Consumed Life: Various
Category: Maintenance
Urgency: 3 = Important
Carry Forward: No

Project Name: **Chlorination/Dechlorination/Effluent Rehab and Maintenance Projects (Partial Reclamation)**
Dept.: Treatment
5 yr. Cap Projection: \$ -
CY Budget \$ -
GL Account:

Project Description

The Chlorination/Dechlorination/Effluent processes provide disinfection and chlorine residual prior to the Reclamation Microfilters and provide inactivation of viruses and bacteria removal prior to discharge to the environment or to the Reclamation Project. To maintain these facilities in good condition will require future investment in rehabilitation and maintenance activities. The exact work is not known at this time. The budget for this maintenance project work is a small percentage of the replacement cost of these assets as developed in the asset management work.

Year Built: Various
Rehabilitation Date (Extending life of Asset): Various
Rehab Life Extension: Various
Asset Condition Rating: Various

Justification

Exact project work is not known at this time. Investment in maintenance activities to address condition issues will keep existing infrastructure from degrading and requiring major replacement work.

Reclamation share of work will be dependent on whether portion of work is for the benefit of reclamation production. The chlorination systems are interconnected between the Secondary Plant and Reclamation.

Risk Management Strategy

Capital Improvement Strategy: Plant Rehabilitation/Replacement
Maintenance Strategy: Predictive & Preventative Maintenance
Non Asset Strategy:

Funding Source

Primary Capital Budget Secondary

Budget Impact/Other

	26-27	27-28	28-29	29-30	30-31	Total
Labor	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$ 250,000
Engineering						\$ -
Parts & Supplies	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$ 250,000
Chemicals						\$ -
Utility						\$ -
Other						\$ -
Total	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 500,000

31 FY 2019-20 Budget
Carmel Area Wastewater District

Contact: Treanor
Area Various
Asset Type: Various
Avg Useful Life: Various
Est Residual Life: Various
% Consumed Life: Various
Category: Maintenance
Urgency: 3 = Important
Carry Forward: No

Project Name: **DAFT/Digestion/Dewatering Rehab and Maintenance Projects (Partial Reclamation)**

Dept.: Treatment

5 yr. Cap Projection: \$ -

CY Budget \$ -

Project Description

The DAFT/Digestion/Dewatering systems provide treatment of sludge and waste streams and removal of solids from the treatment plant. To maintain these facilities in good condition will require future investment in rehabilitation and maintenance activities. The exact work is not known at this time. The budget for this maintenance project work is a small percentage of the replacement cost of these assets as developed in the asset management work.

Year Built: Various

Rehabilitation Date (Extending life of Asset): Various

Rehab Life Extension: Various

Asset Condition Rating: Various

Justification

Exact project work is not known at this time. Investment in maintenance activities to address condition issues will keep existing infrastructure from degrading and requiring major replacement work.

Reclamation share of work will be dependent on whether portion of work is for the benefit of reclamation production. The DAFT system is used by the Reclamation Project for treatment of MF Backwash and membrane cleaning waste.

Risk Management Strategy

Capital Improvement Strategy: Plant Rehabilitation/Replacement

Maintenance Strategy: Predictive & Preventative Maintenance

Non Asset Strategy:

Funding Source

Primary Capital Budget Secondary

Budget Impact/Other

	26-27	27-28	28-29	29-30	30-31	Total
Labor	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$ 250,000
Engineering					\$	-
Parts & Supplies	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$ 250,000
Chemicals					\$	-
Utility					\$	-
Other					\$	-
					\$	-
Total	\$ -	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 500,000

32 FY 2019-20 Budget
Carmel Area Wastewater District

Contact: Treanor
Area WWTP
Asset Type: N/A
Avg Useful Life: N/A
Est Residual Life: N/A
% Consumed Life: N/A
Category: Study
Urgency: 3 = Important
Carry Forward: No

Project Name: **Coastal Hazards Monitoring Plan**
Dept.: Treatment
5 yr. Cap Projection: See O&M Budget
CY Budget See O&M Budget

Project Description

Pending Coastal Commission Direction - The Coastal Hazards Monitoring Plan shall establish the framework and parameters for: 1) regularly monitoring flood and other coastal hazards at the Plant and management responses, 2) identifying how those hazards are impacting and affecting the operations of the Plant, 3) identifying changes necessary to allow continued appropriate and required functioning of the Plant, 4) identifying flood/hazard "triggers" to establish when actions need to be pursued in response to specific flood/hazard events, and 5) evaluating how area and regional projects regarding flood control projects proposed in the vicinity of the WWTP will impact the plant.

Year Built: N/A
Rehabilitation Date (Extending life of Asset): N/A
Rehab Life Extension: N/A
Asset Condition Rating: N/A

Justification

This work is being proposed by the California Coastal Commission as part of Coastal Development Permitting

Risk Management Strategy

Capital Improvement Strategy:
Maintenance Strategy:
Non Asset Strategy: Strategic Changes to Level of Service

Funding Source

Primary Capital Budget Secondary

Budget Impact/Other

	Estimated Cumulative Thru FY20-21	21-22	22-23	23-24	24-25	25-26	Total
Labor						\$	-
Engineering		\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$ 375,000
Parts & Supplies						\$	-
Chemicals						\$	-
Utility						\$	-
Other						\$	-
Total	\$ -	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 375,000

33 FY 2019-20 Budget
 Carmel Area Wastewater District

Contact: Treanor
 Area WWTP
 Asset Type: N/A
 Avg Useful Life: N/A
 Est Residual Life: N/A
 % Consumed Life: N/A
 Category: Study
 Urgency: 3 = Important
 Carry Forward: No

Project Name: **Coastal Hazards Response Plan**
 Dept.: Treatment
 5 yr. Cap Projection: See O&M Budget
 CY Budget See O&M Budget

Project Description
 Per Coastal Commission - A response plan shall build upon the sea level rise work already completed, and the coastal hazards monitoring. This study shall compare the costs and benefits of maintaining the WWTP in its current location vs relocating the treatment facilities and look at alternatives for relocation.

Year Built: N/A
 Rehabilitation Date (Extending life of Asset): N/A
 Rehab Life Extension: N/A
 Asset Condition Rating: N/A

Justification
 This work is being proposed by the California Coastal Commission as part of Coastal Development Permitting

Risk Management Strategy
 Capital Improvement Strategy:
 Maintenance Strategy:
 Non Asset Strategy: Strategic Changes to Level of Service

Funding Source
 Primary Capital Budget Secondary

Budget Impact/Other

	Estimated Cumulative Thru FY20-21	21-22	22-23	23-24	24-25	25-26	Total
Labor						\$	-
Engineering		\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$ 500,000
Parts & Supplies						\$	-
Chemicals						\$	-
Utility						\$	-
Other						\$	-
Total	\$ -	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 500,000

34 **FY 2019-20 Budget**
 Carmel Area Wastewater District

Contact: Treanor
 Area WWTP
 Asset Type: N/A
 Avg Useful Life: N/A
 Est Residual Life: N/A
 % Consumed Life: N/A
 Category: Study
 Urgency: 3 = Important
 Carry Forward: No

Project Name: **Miscellaneous Technical Studies**
 Dept.: Treatment
 5 yr. Cap Projection: See O&M Budget
 CY Budget See O&M Budget

Project Description

Technical studies as may be necessary to evaluate technical issues or opportunities at the WWTP.

Year Built: N/A
 Rehabilitation Date (Extending life of Asset): N/A
 Rehab Life Extension: N/A
 Asset Condition Rating: N/A

Justification

Being prepared for opportunities or issue mitigations by advance study/review will allow CAWD to be proactive in management and operation of the WWTP.

Risk Management Strategy

Capital Improvement Strategy:
 Maintenance Strategy:
 Non Asset Strategy: Strategic Changes to Level of Service

Funding Source

Primary Capital Budget Secondary

Budget Impact/Other

	Estimated Cumulative Thru FY20-21	21-22	22-23	23-24	24-25	25-26	Total
Labor						\$	-
Engineering		\$125,000	\$125,000	\$125,000	\$125,000	\$125,000	\$ 625,000
Parts & Supplies						\$	-
Chemicals						\$	-
Utility						\$	-
Other						\$	-
Total	\$ -	\$ 125,000	\$ 125,000	\$ 125,000	\$ 125,000	\$ 125,000	\$ 625,000

**Capital Budget
Administration Dept.**

1 **FY 2021-22 Budget**
 Carmel Area Wastewater District

Contact: Foley
 Area Administration
 Asset Type: N/A
 Avg Useful Life: 20 years
 Est Residual Life: 0
 % Consumed Life: 100
 Category: Maintenance
 Urgency: 3 = Important
 Carry Forward: No

Project Name: Admin Parking Lot Lighting
 Dept.: Admin
 5 yr. Cap Projection: \$ 22,400
 CY Budget \$ -
 GL Account:

Asset Description

Replace 14 parking lot bollard lights with new LED bollards.

Year Built: 1990
 Rehabilitation Date (Extending life of Asset): N/A
 Rehab Life Extension: N/A
 Asset Condition Rating: 10

Justification

The existing lights are deteriorating and require replacement. LED screw in lamps have been installed but only last less than 2 years because the original design was meant for incandescent. The bollards have previously been reconditioned and glass replaced to obtain the maximum life. Staff will apply for a PG&E rebate if eligible before purchasing lights and also present the available options for review.

Asset Risk Management Strategy

Capital Improvement Risk:
 Maintenance Risk Management: Corrective Maintenance
 Non Asset Risk Management:

Funding Source

Primary	Capital Budget	Secondary							Total
Budget Impact/Other	Prior Yr.	21-22	22-23	23-24	24-25	25-26	26-27		
Labor			11,200					\$ 11,200	
Engineering								\$ -	
Parts & Supplies			11,200					\$ 11,200	
Chemicals								\$ -	
Utility								\$ -	
Other								\$ -	
Total		\$ -	\$ 22,400	\$ -	\$ -	\$ -	\$ -	\$ 22,400	

2 **FY 2021-22 Budget**
 Carmel Area Wastewater District

Contact: Lather
 Area Administration
 Asset Type: N/A
 Avg Useful Life: 10 years
 Est Residual Life: 1
 % Consumed Life:
 Category: Maintenance
 Urgency: 3 = Important
 Carry Forward: No

Project Name: Access Control and Security Cameras
 Dept.: Admin
 5 yr. Cap Projection: \$ 19,291
 CY Budget \$ 19,291
 GL Account:

Asset Description

Network security camera for the lobby and admin parking lot. Door access controller and 3 card readers that would allow staff to control access through access control cards and switch to the front door, side entrance and lobby interior door. Includes 10 year cloud recording license and 10 hardware warranty.

Year Built: N/A
 Rehabilitation Date (Extending life of Asset): N/A
 Rehab Life Extension: N/A
 Asset Condition Rating: 1

Justification

There currently is no security monitoring at the admin site. The current setup requires staff to physically visit the site if an alarm is triggered. The new lobby interior doors include an electronic lock so this access control system will enable control of the lock.

Asset Risk Management Strategy

Capital Improvement Risk:
 Maintenance Risk Management:
 Non Asset Risk Management: Strategic Changes to Level of Service

Funding Source

Primary		Secondary							Total
Budget Impact/Other	Prior Yr.	21-22	22-23	23-24	24-25	25-26	26-27		
Labor		5,000						\$ 5,000	
Engineering								\$ -	
Parts & Supplies		14,291						\$ 14,291	
Chemicals								\$ -	
Utility								\$ -	
Other								\$ -	
Total		\$ 19,291	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 19,291	

3 FY 2021-22 Budget
Carmel Area Wastewater District

Contact: Lather
Area Administration

Project Name: Admin Roof
Dept.: Admin
5 yr. Cap Projection: \$ 70,000
CY Budget \$ -
GL Account:

Asset Type: N/A
Avg Useful Life: 30 years
Est Residual Life: 1
% Consumed Life: 95
Category: Maintenance
Urgency: 3 = Important
Carry Forward: No

Asset Description

The roof at the Admin offices is composite shingle. The average lifespan of asphalt shingles ranges from 20 to 40 years.

Year Built: N/A
Rehabilitation Date (Extending life of Asset): 1990
Rehab Life Extension: N/A
Asset Condition Rating: 4

Justification

The roof will be 32 years old in 2022. While we will continue to monitor its condition, it is estimated that it will be ready for replacement in 2022. At this time the plan is to replace with like roofing.

Asset Risk Management Strategy

Capital Improvement Risk:
Maintenance Risk Management: Predictive & Preventative Maintenance
Non Asset Risk Management:

Funding Source

	Primary	Capital Budget		Secondary					
Budget Impact/Other	Prior Yr.	21-22	22-23	23-24	24-25	25-26	Unscheduled	Total	
Labor				\$	-		\$	-	
Engineering							\$	-	
Parts & Supplies							\$	-	
Chemicals							\$	-	
Utility							\$	-	
Other			70,000				\$	70,000	
Total		\$ -	\$ 70,000	\$ -	\$ -	\$ -	\$ -	\$ 70,000	

4 FY 2021-22 Budget
Carmel Area Wastewater District

Contact: Barringer
 Area Administration

Project Name: Codification / Administrative Code
 Dept.: Admin
 5 yr. Cap Projection: \$ 50,000
 CY Budget \$ 25,000
 GL Account:

Asset Type: N/A
 Avg Useful Life: 50 years
 Est Residual Life:
 % Consumed Life:
 Category: Maintenance
 Urgency: 3 = Important
 Carry Forward: No

Asset Description

Currently the majority of District administrative policies are held in individual Resolutions and Ordinances. There is no consolidated "Administrative Code" manual.

Year Built: N/A
 Rehabilitation Date (Extending life of Asset): 1990
 Rehab Life Extension: N/A
 Asset Condition Rating: 4

Justification

This project will consolidate all District policies into one document or Administrative Code. It will make it easier and clearer for staff and any outside agency or member of the public to examine District policies in one location.

Asset Risk Management Strategy

Capital Improvement Risk:
 Maintenance Risk Management:
 Non Asset Risk Management: Regulatory Project

Funding Source

	Primary	Capital Budget		Secondary					
Budget Impact/Other	Prior Yr.	21-22	22-23	23-24	24-25	25-26	Unscheduled	Total	
Labor							\$	-	
Engineering							\$	-	
Parts & Supplies							\$	-	
Chemicals							\$	-	
Utility							\$	-	
Other	\$	25,000	\$ 25,000				\$	50,000	
Total	\$	25,000	\$ 25,000	\$ -	\$ -	\$ -	\$ -	\$ 50,000	

5 FY 2021-22 Budget
Carmel Area Wastewater District

Contact: Lather
 Area Administration

Project Name: Front Porch Settling - repairs
 Dept.: Admin
 5 yr. Cap Projection: \$ 35,000
 CY Budget \$ -
 GL Account:

Asset Type: N/A
 Avg Useful Life: 50 years
 Est Residual Life:
 % Consumed Life:
 Category: Maintenance
 Urgency: 3 = Important
 Carry Forward: No

Asset Description

The concrete front porch to the Admin Building has settled approximately 1-2 inches since it was initially poured in 1990. Settlement is likely due to improper/non existant footings/foundations under the steps.

Year Built: N/A
 Rehabilitation Date (Extending life of Asset): 1990
 Rehab Life Extension: N/A
 Asset Condition Rating: 4

Justification

The options to solve this problem include: (1) Rip out and build new, (2) Dig underneath and jack it up a bit above where it belongs, pour a new footer below, and then set it back down, and (2) Leave it as is and build something new over the top of it that makes it "disappear". Mudjacking, also referred to as slabjacking, concrete raising or pressure grouting, is the process of raising concrete slabs by hydraulically pumping a grout mixture mixed with cement under the concrete slab. This procedure may provide a solution to the settling experienced on the building front porch. The District will invite contractors experienced in these techniques to the site for analysis of which method will provide the best results.

Asset Risk Management Strategy

Capital Improvement Risk:
 Maintenance Risk Management: Predictive & Preventative Maintenance
 Non Asset Risk Management:

Funding Source

	Primary	Capital Budget					Secondary		
Budget Impact/Other	Prior Yr.	21-22	22-23	23-24	24-25	25-26	Unscheduled	Total	
Labor							\$	-	
Engineering							\$	-	
Parts & Supplies							\$	-	
Chemicals							\$	-	
Utility							\$	-	
Other							35,000	\$ 35,000	
Total		\$ -	\$ -	\$ -	\$ -	\$ -	\$ 35,000	\$ 35,000	

6 **FY 2021-22 Budget**
 Carmel Area Wastewater District

Contact: Lather
 Area Administration

Project Name: Replace Administrative Office Carpeting
 Dept.: Admin
 5 yr. Cap Projection: \$ 27,000
 CY Budget \$ -
 GL Account:

Asset Type: Administration
 Avg Useful Life: 20 years
 Est Residual Life: 0
 % Consumed Life: 100
 Category: Maintenance
 Urgency: 5 = Future
 Carry Forward: No

Asset Description

It is anticipated that the Administration office building carpeting, which has never been replaced, will need to be replaced within the next 5 years. 500 square yards at \$45/yd. To prolong the carpet life, staff proposes to include a maintenance item to professionally clean the carpets every six months. The proposed carpet replacement will remain an unscheduled expense and be re-evaluated each year.

Year Built: 1990
 Rehabilitation Date (Extending life of Asset): N/A
 Rehab Life Extension: N/A
 Asset Condition Rating: 5 Moderate Deterioration

Justification

The carpeting has been cleaned many times over the years but is showing its age. General recommendation for commercial carpeting is ten year lifespan.

Asset Risk Management Strategy

Capital Improvement Risk:
 Maintenance Risk Management: Predictive & Preventative Maintenance
 Non Asset Risk Management:

Funding Source

	Primary	Capital Budget					Secondary		
Budget Impact/Other	Prior Yr.	21-22	22-23	23-24	24-25	25-26	Unscheduled	Total	
Labor							\$	-	
Engineering							\$	-	
Parts & Supplies							\$	-	
Chemicals							\$	-	
Utility							\$	-	
Other							27,000	\$ 27,000	
Total		\$ -	\$ -	\$ -	\$ -	\$ -	27,000	\$ 27,000	

7

FY 2021-22 Budget
Carmel Area Wastewater District

Contact: Lather
Area Administration

Project Name: Interior Painting
Dept.: Admin
5 yr. Cap Projection: \$ 25,000
CY Budget -
GL Account:

Asset Type: N/A
Avg Useful Life: 20 years
Est Residual Life: 0
% Consumed Life: 100
Category: Maintenance
Urgency: 3 = Important
Carry Forward: No

Asset Description

The District has not had the interior building walls painted since 1990. There has been some "touch up" work over the years, but we've reached the point where there are repairs that need to be done (i.e. cracks, separation at corners, chipping, etc.) and then the entire office repainted. Base boards in the main hallway were painted in 2016 as part of floor tile project. We would like to keep the "teal" wallpaper in entry and boardroom intact.

Year Built: 1990
Rehabilitation Date (Extending life of Asset): N/A
Rehab Life Extension: N/A
Asset Condition Rating: 5 Moderate Deterioration

Justification

Normal wear and tear on the building over past 30 years - it is generally recommended in trade to repaint interior every 5-7 years

Asset Risk Management Strategy

Capital Improvement Risk:
Maintenance Risk Management: Preventative Maintenance
Non Asset Risk Management:

Funding Source

Primary Capital Budget Secondary

Budget Impact/Other

	Prior Yr.	21-22	22-23	23-24	24-25	25-26	Unscheduled	Total
Labor							\$	-
Engineering							\$	-
Parts & Supplies							\$	-
Chemicals							\$	-
Utility							\$	-
Other							25,000	\$ 25,000
Total		\$ -	\$ -	\$ -	\$ -	\$ -	25,000	\$ 25,000

8 FY 2021-22 Budget
Carmel Area Wastewater District

Contact: Lather
 Area Administration

Project Name: Update bathrooms - new tile & paint
 Dept.: Admin
 5 yr. Cap Projection: \$ 25,000
 CY Budget \$ -
 GL Account:

Asset Type: N/A
 Avg Useful Life: 10 years
 Est Residual Life: 0
 % Consumed Life: 100
 Category: Maintenance
 Urgency: 3 = Important
 Carry Forward: No

Asset Description

The bathrooms in the Admin Offices were tiled and painted in 1990 when the building was completed. After 28 years it is time to update the paint and tile.

Year Built: N/A
 Rehabilitation Date (Extending life of Asset): 2009
 Rehab Life Extension: N/A
 Asset Condition Rating: 4

Justification

Bathrooms appear dated - when interior walls are painted, the restroom should also be done. Tile should extend up walls for splash purposes.
 Note: There is some tile remaining from main Admin lobby area that may be useable for the bathrooms.

Asset Risk Management Strategy

Capital Improvement Risk:
 Maintenance Risk Management: Predictive & Preventative Maintenance
 Non Asset Risk Management:

Funding Source

Budget Impact/Other	Primary		Capital Budget					Secondary	
	Prior Yr.	21-22	22-23	23-24	24-25	25-26	Unscheduled	Total	
Labor							\$	-	
Engineering							\$	-	
Parts & Supplies							\$	-	
Chemicals							\$	-	
Utility							\$	-	
Other							25,000	\$ 25,000	
Total		\$ -	\$ -	\$ -	\$ -	\$ -	\$ 25,000	\$ 25,000	

9 FY 2021-22 Budget
Carmel Area Wastewater District

Contact: Lather
 Area Administration

Project Name: Replace Administrative Office Furnaces
 Dept.: Admin
 5 yr. Cap Projection: \$ 6,500
 CY Budget \$ -
 GL Account:

Asset Type: N/A
 Avg Useful Life: 10 years
 Est Residual Life:
 % Consumed Life:
 Category: Maintenance
 Urgency: 3 = Important
 Carry Forward: No

Asset Description

It is anticipated that the Administrative Office building furnaces will need to be replaced at some future date. There are a total of three furnaces in the building. We have had intermittent repairs to the system and replaced one unit in Jan 2009.

Year Built: N/A
 Rehabilitation Date (Extending life of Asset): 1990
 Rehab Life Extension: N/A
 Asset Condition Rating: 4

Justification

Because the furnaces are relatively easy to repair/replace we will continue to handle these on a run-to-fail basis.

Asset Risk Management Strategy

Capital Improvement Risk:
 Maintenance Risk Management: Predictive & Preventative Maintenance
 Non Asset Risk Management:

Funding Source

Primary Capital Budget Secondary

Budget Impact/Other

	Prior Yr.	21-22	22-23	23-24	24-25	25-26	Unscheduled	Total
Labor							\$	-
Engineering							\$	-
Parts & Supplies							\$	-
Chemicals							\$	-
Utility							\$	-
Other							6,500	\$ 6,500
Total		\$ -	\$ -	\$ -	\$ -	\$ -	6,500	\$ 6,500

a **FY 2021-22 Budget**
 Carmel Area Wastewater District

Contact: Buikema
 Area Administration

Project Name: Admin Copy Machine/Scanner/Fax
 Dept.: Admin
 5 yr. Cap Projection: \$ 10,500
 CY Budget \$ -
 GL Account:

Asset Type: Office Equip
 Avg Useful Life: 10 years
 Est Residual Life: 0
 % Consumed Life: 100
 Category: Maintenance
 Urgency: 3 = Important
 Carry Forward: No

Asset Description

The current machine was purchased in 2019 for \$7,865. The technician advises that the typical lifespan is 5-7 years. Budget assumes a 4% increase per year from 2019 or a 26-30% cost increase in total and the inclusion of a pedestal with additional paper drawers to accommodate regular, legal, and ledger paper.

Year Built: N/A
 Rehabilitation Date (Extending life of Asset): N/A
 Rehab Life Extension: N/A
 Asset Condition Rating: 3 Minor Defects Only

Justification

The Admin copy machine receives considerable use every working day and is a critical piece of office equipment. While technology will certainly continue to change, based on current average usage we are planning for its replacement with an equivalent machine. This machine carries the largest load of copy and print volume for the District and is the conduit between copy/scan/fax/email of documents in Admin. The usage on this machine is heavy due to printing of board packets and other admin material. Staff must have the ability to print/scan/fax from the Admin Office to ensure continued work flow without interruption.

Asset Risk Management Strategy

Capital Improvement Risk:
 Maintenance Risk Management: Predictive & Preventative Maintenance
 Non Asset Risk Management:

Funding Source

Primary Capital Budget Secondary

Budget Impact/Other

	Prior Yr.	21-22	22-23	23-24	24-25	25-26	Unscheduled	Total
Labor							\$	-
Engineering							\$	-
Parts & Supplies							\$	-
Chemicals							\$	-
Utility							\$	-
Other						10,500	\$	10,500
Total		\$ -	\$ -	\$ -	\$ -	\$ 10,500	\$ -	\$ 10,500

b **FY 2021-22 Budget**
 Cannel Area Wastewater District

Contact: Lather
 Area Administration

Project Name: Server Replacement
 Dept.: Admin
 5 yr. Cap Projection: \$ 7,000
 CY Budget \$ -
 GL Account:

Asset Type: N/A
 Avg Useful Life: 5 years
 Est Residual Life: 4 years
 % Consumed Life: 20%
 Category: Maintenance
 Urgency: 3 = Important
 Carry Forward: No

Asset Description

Dell Optiplex server located in Admin was installed in 2017. It functions as the email server and data server for Admin offices.

Year Built: N/A
 Rehabilitation Date (Extending life of Asset): N/A
 Rehab Life Extension: N/A
 Asset Condition Rating: 4

Justification

This server was replaced in 2017. We replace servers on a rotating five year basis to ensure reliability and ability to keep up with technology. The older servers become, the less value they produce on the efficiency level. Stretching out the lifespan would mean an increase in business risk as we rely on hardware that is unsupported or that cannot be fixed in a timely manner. There is also a greater chance of losing sensitive data or that the Admin Office ends up offline for an extended period. Because Admin employees spend at least 6 hrs/day on a computer reliability is critical.

Asset Risk Management Strategy

Capital Improvement Risk: Plan Rehabilitation/Replacement
 Maintenance Risk Management: Predictive & Preventative Maintenance
 Non Asset Risk Management:

Funding Source

	Primary	Capital Budget		Secondary					
Budget Impact/Other	Prior Yr.	21-22	22-23	23-24	24-25	25-26	Unscheduled	Total	
Labor							\$	-	
Engineering							\$	-	
Parts & Supplies							\$	-	
Chemicals							\$	-	
Utility							\$	-	
Other			7,000				\$	7,000	
Total		\$ -	\$ 7,000	\$ -	\$ -	\$ -	\$ -	\$ 7,000	

C FY 2021-22 Budget
Carmel Area Wastewater District

Contact: Lather
 Area Administration

Project Name: General Manager's Sedan
 Dept.: Admin
 5 yr. Cap Projection: \$ 38,000
 CY Budget \$ -
 GL Account:

Asset Type: N/A
 Avg Useful Life: 10 years
 Est Residual Life: 8 yrs
 % Consumed Life: 20%
 Category: Maintenance
 Urgency: 3 = Important
 Carry Forward: No

Asset Description

The current vehicle (Hyundai Santa Fe) was purchased in 2016 and has 13,428 miles on the odometer. We estimate this car will last over 100,000 miles. Replacement is estimated after 10+ years.

Year Built: N/A
 Rehabilitation Date (Extending life of Asset): N/A
 Rehab Life Extension: N/A
 Asset Condition Rating: 4

Justification

This vehicle is used by all staff for daily business meetings, conferences, and training. While it is predominately used by Administration staff, it is available to plant staff or the Board for travel to conferences/training. The ability to handle up to four large adults comfortably makes this vehicle quite useful.

Asset Risk Management Strategy

Capital Improvement Risk: Plan Rehabilitation/Replacement
 Maintenance Risk Management: Predictive & Preventative Maintenance
 Non Asset Risk Management:

Funding Source

Primary Capital Budget Secondary

Budget Impact/Other

	Prior Yr.	21-22	22-23	23-24	24-25	25-26	Unscheduled	Total
Labor							\$	-
Engineering							\$	-
Parts & Supplies							38,000	\$ 38,000
Chemicals							\$	-
Utility							\$	-
Other							\$	-
Total		\$ -	\$ -	\$ -	\$ -	\$ -	38,000	\$ 38,000

Budget Maps

Carmel Area Wastewater District - Service Area with Parcels

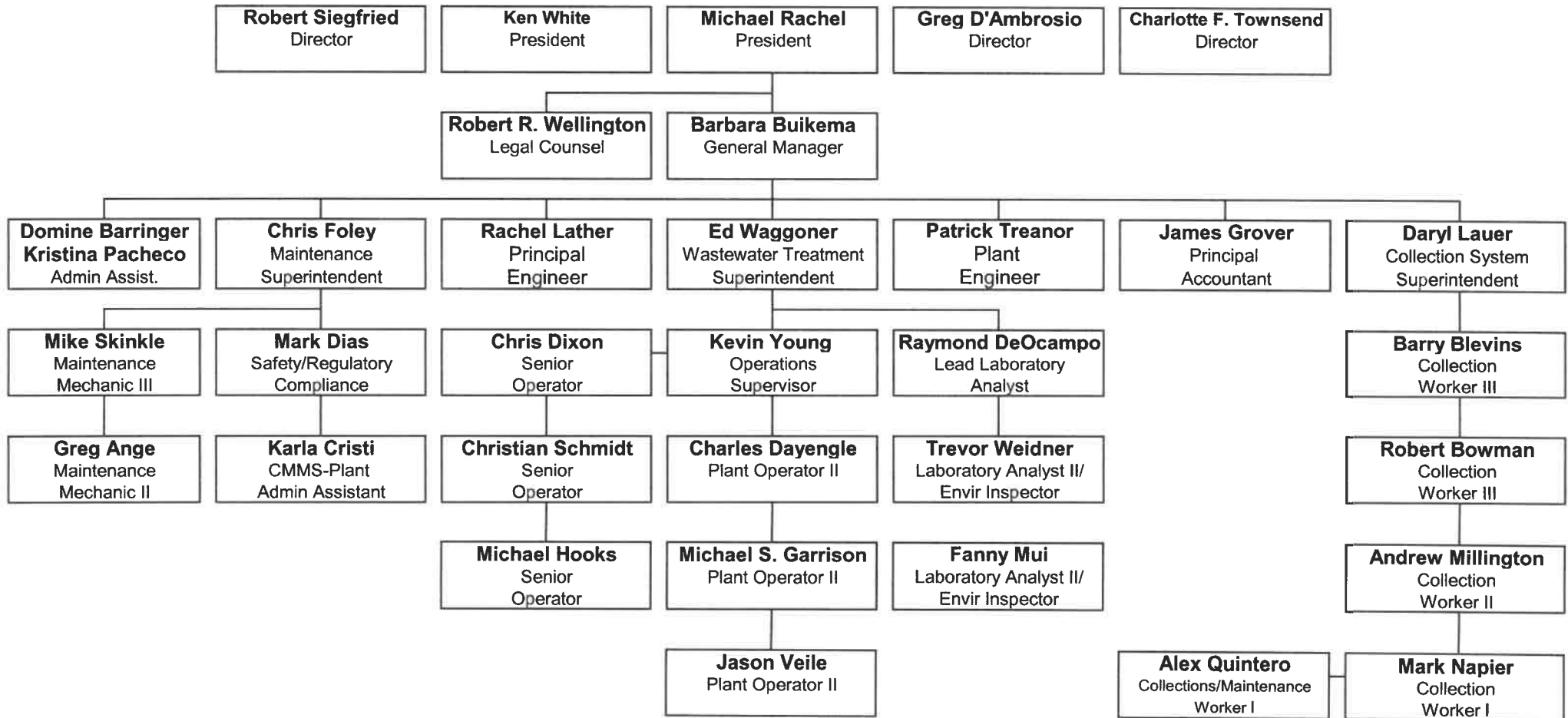


Organizational Chart

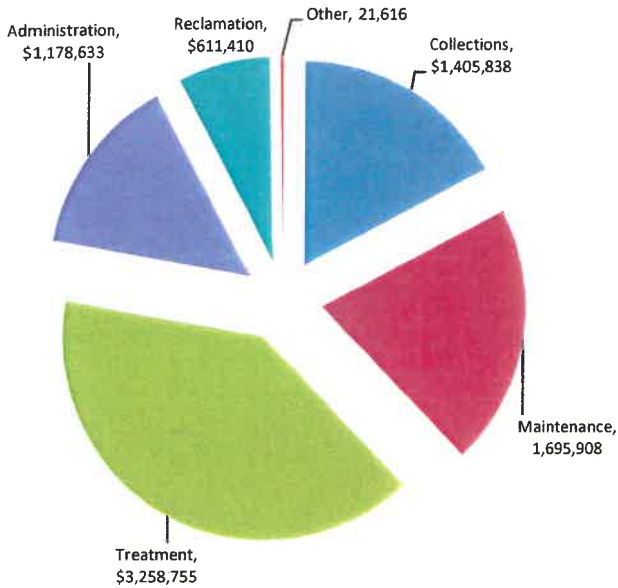
CARMEL AREA WASTEWATER DISTRICT

ORGANIZATION CHART

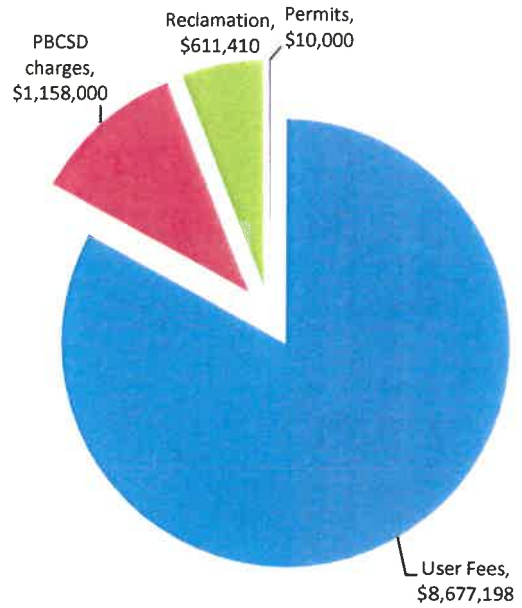
January 2021



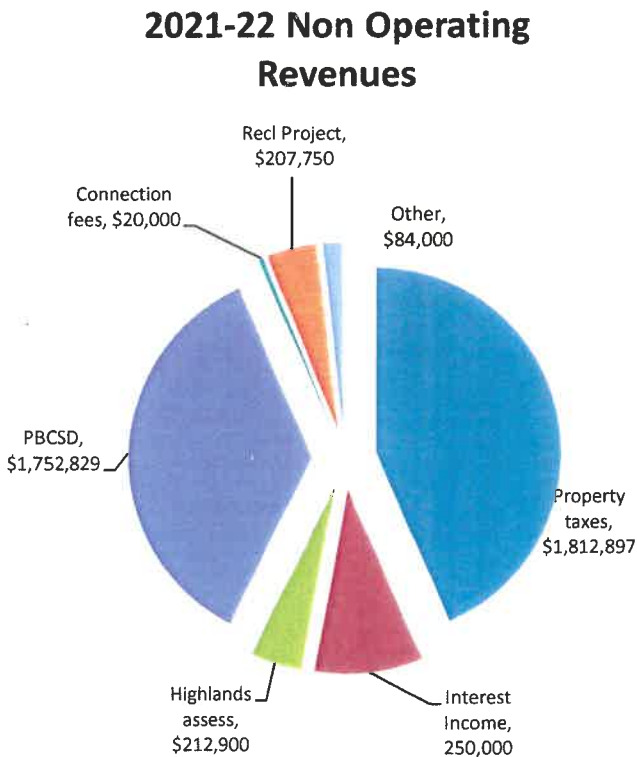
Budget Graphs



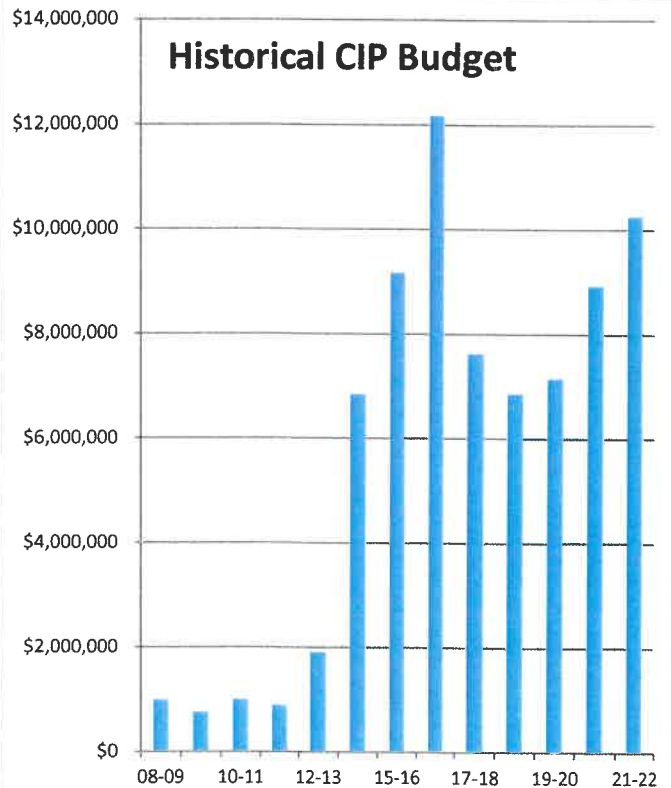
2021-22 Operating Expense Budget



2021-22 Operating Revenues

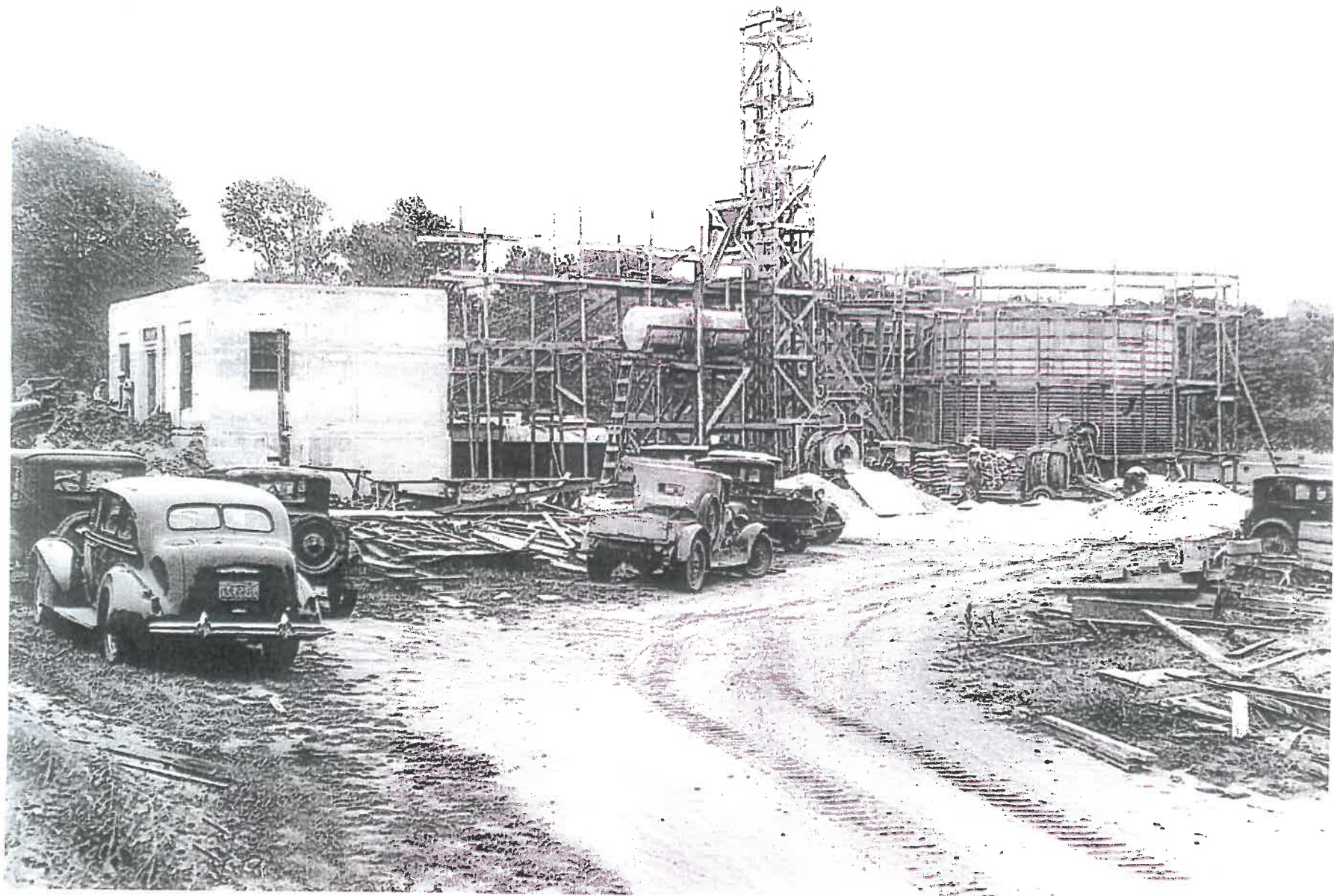


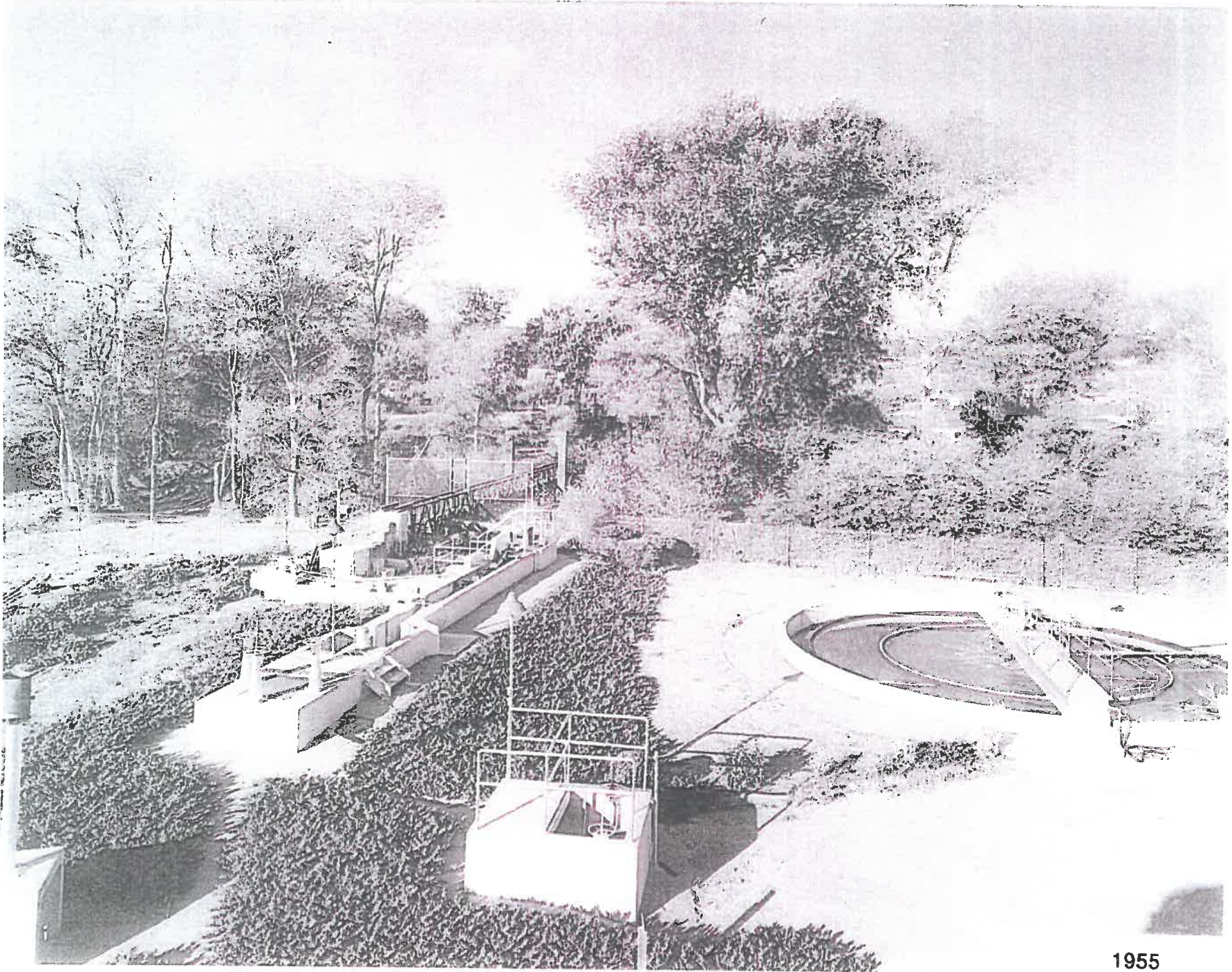
2021-22 Non Operating Revenues

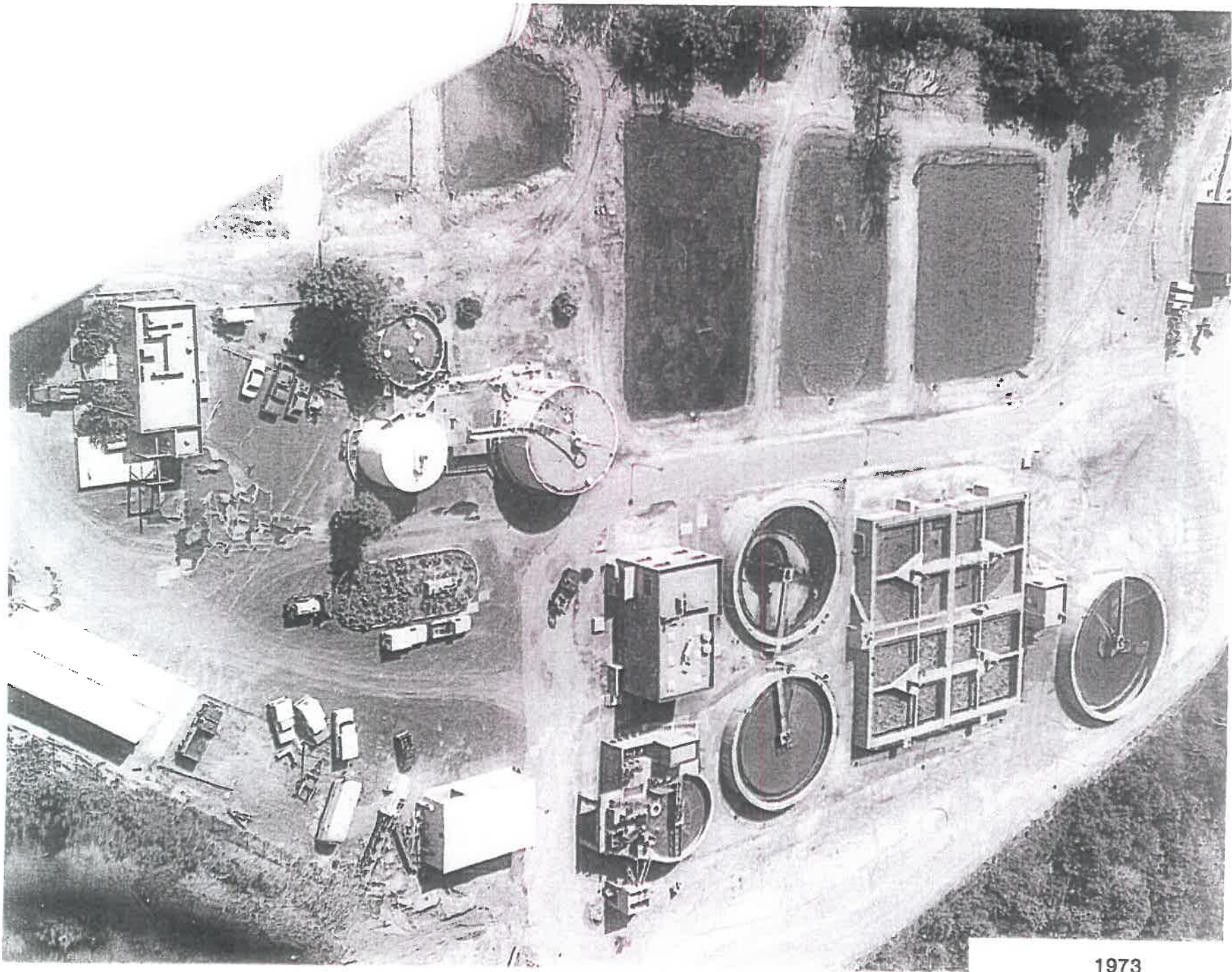


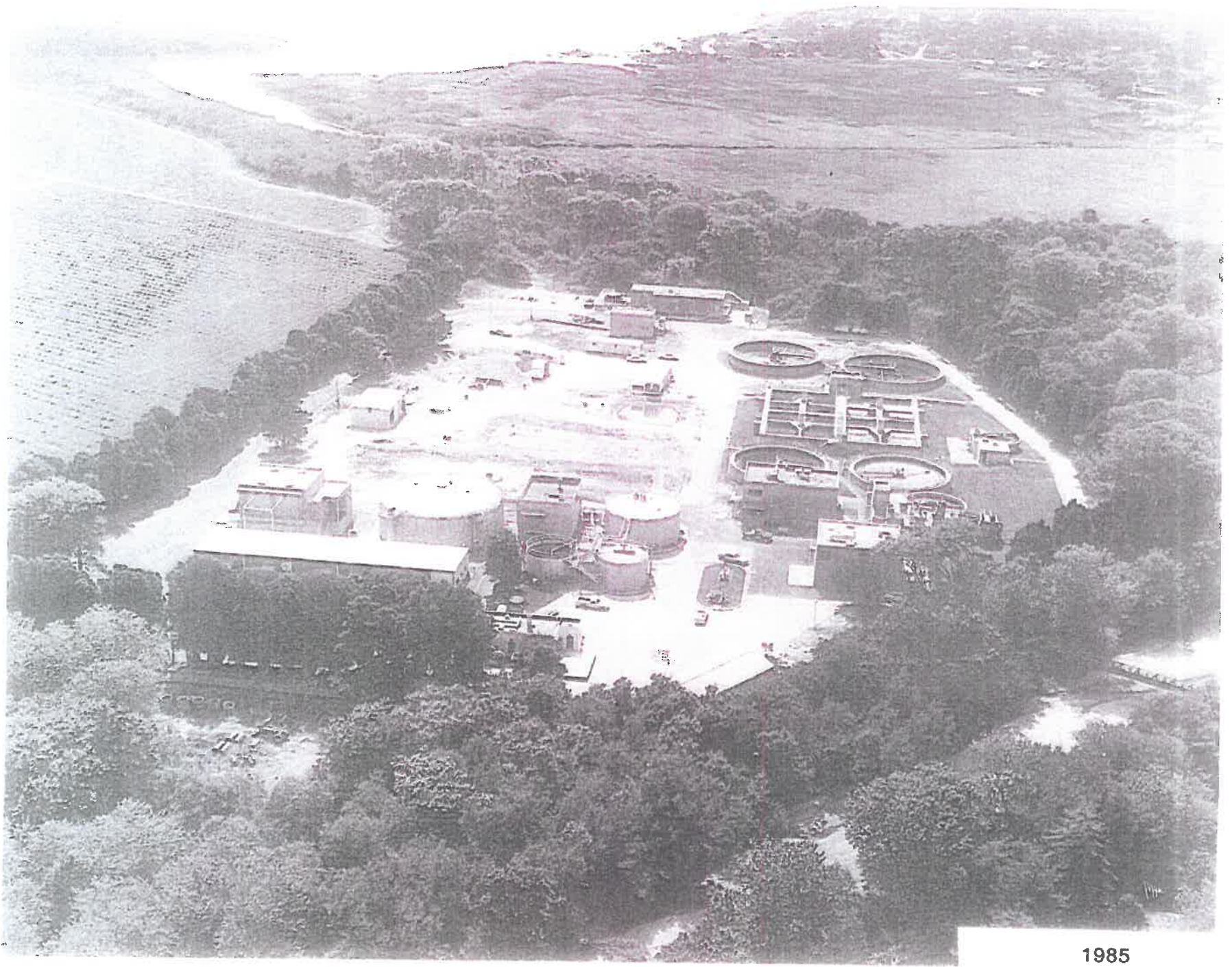
Historical CIP Budget

Historical Photographs

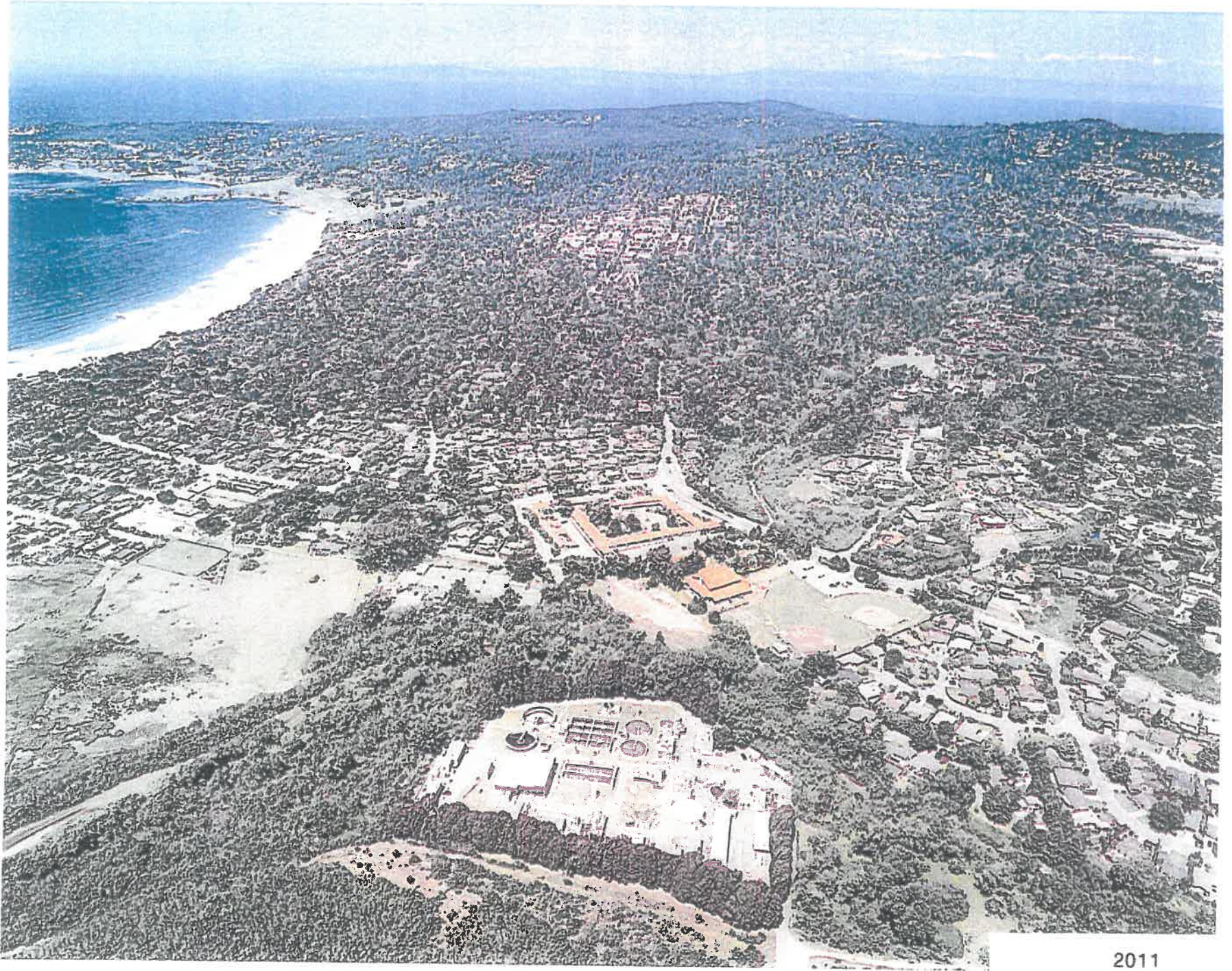


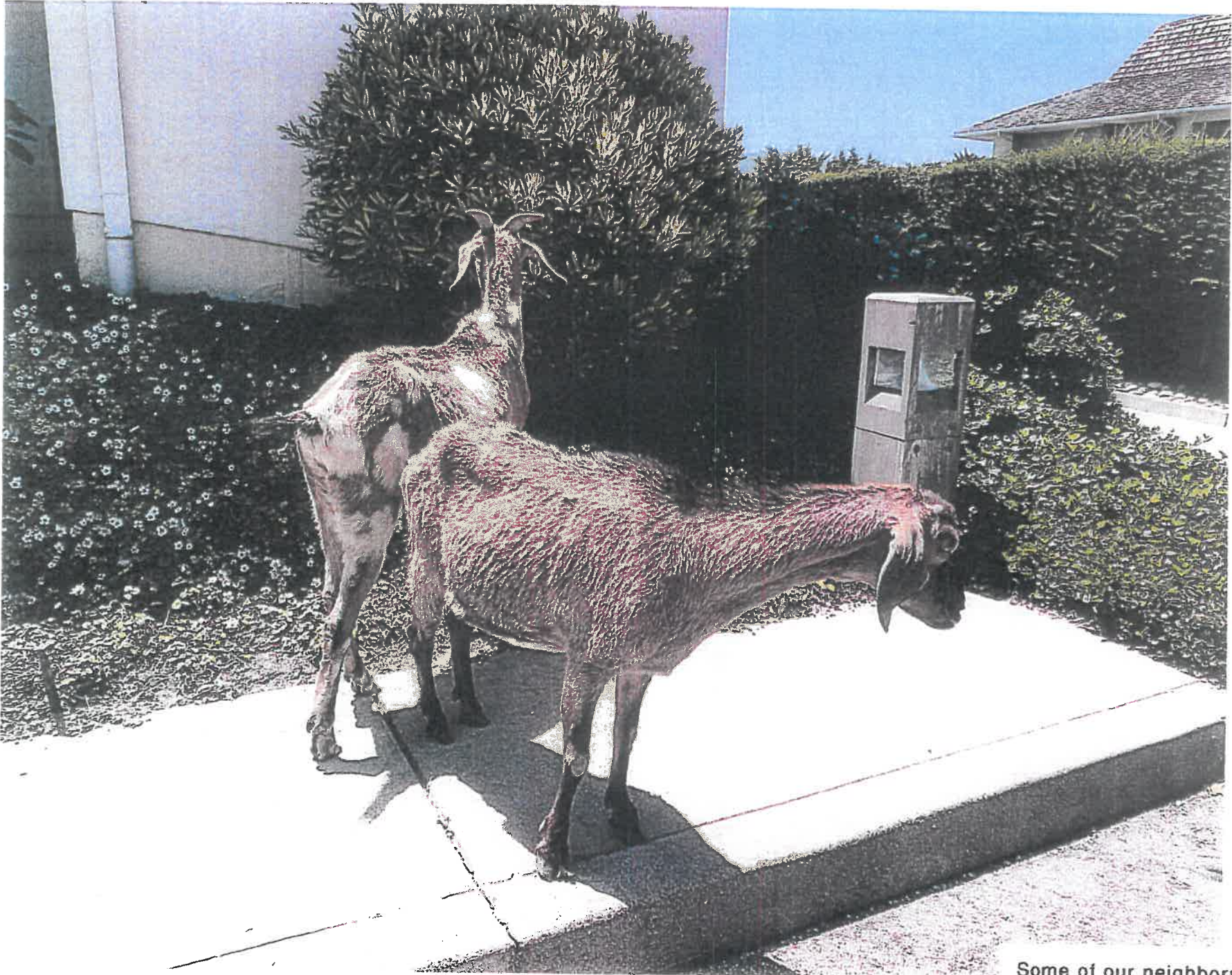












Some of our neighbors!



Technical Terms

Technical Terms

Account – A record of a business transaction.

Accounting System – The structure of records and procedures that discovers, records, classifies, summarizes, and reports information on the financial position and results of operations of the District as a governmental entity.

Accrual Basis – The recognition of a revenue or expense in a fiscal year even though the actual cash may not be received or paid until the following year.

Adoption – Formal action by the Board of Directors. The adoption of the budget sets the financial framework for subsequent fiscal year(s).

Agency Treatment Charges – Revenues derived from long-term contracts with other entities to whom the District provides sewage treatment, such as Pebble Beach Community Services District and California State Parks at Point Lobos.

Allocation of Expenses – The manner in which revenues and expenses are accounted for in the different service functions of the District. For example: sewage collection, treatment and disposal. This function is further divided into Operations and Maintenance (O&M), Capital Purchases, and Capital Improvement Program (CIP).

Amortization – The spreading out of capital expenses for intangible assets over a specific period of time (usually over the asset's useful life) for accounting purposes.

Amortization is similar to depreciation, which is used for tangible assets, and to depletion, which is used with natural resources.

Assets – Resources owned by the District

Asset Management – Maintaining a desired level of service for optimal asset performance at the lowest life-cycle cost. Lowest life-cycle cost refers to the best appropriate cost for rehabilitating, repairing or replacing an asset.

Authorized Positions – Number of staff positions authorized for the fiscal year.

Average Dry Weather Flow – The average non-storm flow over 24 hours during the dry months of the year (May through September). It is composed of the average sewage flow and the average dry weather inflow and infiltration.

Biochemical Oxygen Demand – the amount of dissolved oxygen needed (i.e. demanded) by aerobic biological organisms to break down organic material present in in a given water sample at certain temperature over a specific time period. BOD is used as a gauge of the effectiveness of wastewater treatment plants.

Biosolids – Sludge residual from the treatment process.

Budget – The District's financial plan for a given period of time, which includes revenues, expense, and other expenditures that provide funding for services provided to

District customers. It contains an Operating Budget and a Capital Budget.

- Operating Budget – The financial plan for non-capital revenues and expenses.
- Capital Budget – The financial plan of capital expenditures, part of the long-range plan.

Capital Assets – Assets owned by the District that have a useful life of more than 1 year and a cost of over \$10,000. Capital assets include land, buildings, machinery, equipment, and major improvements and rehabilitation that extend the useful life of an asset by 1 year or more.

Capital Improvement Program (CIP) – Accounts for revenues, capital contributions, and repayments, and allocates designated resources for capital improvements such as construction, purchase of new facilities and equipment, or major reconstruction of existing infrastructure.

Clean Water Act (CWA) – The primary federal law in the United States governing water pollution. Its objective is to restore and maintain the chemical, physical, and biological integrity of the nation’s waters by preventing point and non point pollution sources, providing assistance to publicly owned treatment works for the improvement of wastewater treatment, and maintaining the integrity of wetlands.

Cogeneration – Production of energy as a result of utilizing the by-products of the solids treatment process.

Computerized Maintenance Management System (CMMS) – A software package that is used for inventory control, procurement management, fixed asset condition assessment and maintenance repair management. The District uses a CMMS product called MainSaver.

Contingency – Reserves included in each fiscal year budget as an allowance for unanticipated expenses.

Connection Fees – Governed by Ordinance No. 85-2. Connection fees represent one-time contributions of resources to the District, imposed on all new connections to the District. The intent of these fees is to recover the capacity cost of sewer facilities within the existing system.

Cost of Living Adjustment (COLA) – An increase in wage compensation to offset the adverse conditions of inflation on salaries, or a provision for price increases based on the historical index of general inflation. Labor negotiation adjustments are based on the Consumer Price Index-Wage Earners San Francisco-Oakland Bay Area (CPI-W) for the period of December of the preceding year through December of the current year.

Depreciation – Loss in asset value over the useful life of a capital asset as a result of wear, deterioration, or obsolescence.

District Service Charges – Revenues received from customers for sewer services, under Ordinance No. 2015-01.

Effluent – Treated wastewater.

Enterprise Fund – Accounts for operations and business activities in a manner similar to

a private business, where the intent is that the costs of providing services to the general public are recovered primarily through user fees.

Fiscal Year (FY) – a 12-month financial measurement period between July 1 and June 30.

Fund – A fiscal accounting entity with a self-balancing set of accounts recording cash and other financial resource, liabilities and equity. Funds are segregated based on specific services or objectives in accordance with special regulations, restrictions, or limitations.

Grants – Contributions by other governmental entities or organizations to provide funding for a specific project.

Interest Income – Revenues received by the District from investments.

Lift Station – facilities to move wastewater from lower to higher elevation.

Long-Range Plan – The District maintains a long-range Construction Plan. It details planned projects by cost and target year. During each budget cycle, the planned projects for the next 2 years are moved into the budget document and the Board approves necessary funds for their implementation. The plan forecasts both capital project requirements and long-term needs for major repairs and maintenance of the sewer system.

Net Position – The difference between assets plus deferred outflow of resources, and liabilities plus deferred inflow of resources.

Non-operating – Enterprise fund revenues or expenses that are not a result of its primary service activities.

National Pollutant Discharge Elimination System (NPDES) – Introduced in 1972, it is a permit system for regulating point sources of pollution. Point sources may not discharge pollutants to surface waters without a permit from the NPDES system. The system is managed by the United States Environmental Protection Agency (EPA) in partnership with state environmental agencies.

Operating Expenses – Costs incurred by the District in the course of service to customers.

Operating Revenues – Funds received by the District through its normal business operations.

Operation & Maintenance (O&M) – Accounts for revenues and expenses related to the day-to-day operations of sewer services.

Ordinance – A local law set forth by the Board of Directors.

Other or Miscellaneous – Revenues or expenses aggregated on the financial statements for accountability purposes.

Overhead Rates – The purpose of overhead rates is to recover the cost of benefits, non-productive time, and other resources, such as administration and engineering services.

Overhead Recovery – Revenues from the application of overhead rates to actual staff salaries, for time spent on projects and

assignments in renewal and replacement and capital improvement projects.

Permits and Inspection Fees – Fees imposed to cover the cost of issuing sewer permits, inspecting sewer work, and maintaining permanent District records. Those fees are governed by Ordinance No. 85-1.

Proposition 218 – Passed by California voters on November 5, 1996 with effective date of July 1, 1997, it requires local governments to obtain the approval of property owners in a local ballot measure before levying a new or increased tax assessment of those property owners. In 2006, the California Supreme Court ruled that Proposition 218 applies to local water, recycling and sewer charges.

Renewal and Replacement (R&R) – Accounts for revenues and expenses associated with repairs on maintenance of collections and treatment facilities or equipment.

Resolution – A special or temporary order of the Board of Directors. A resolution requires less formality than a statute or ordinance.

Revenues – Income received by providing services, or from investment or other sources.

Sewer Rates – Fees paid by customers for sewer services. The District utilizes a rate model that was designed by the State Water Resources Board and includes components for biochemical oxygen demand (BOD), suspended solids (SS) and flow.

Suspended Solids – Refers to small solid particles which remain in suspension in water as a colloid or due to the motion of the water. It is used as one indicator of water quality.

