Budget Committee (final): March 17, 2014
Prelim Budget Board Meeting: March 27, 2014
Final Budget Board Meeting: June 26, 2014

Carmel Area Wastewater District
Budget
2014-15

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Carmel Area Wastewater District

2014-15

Board of Directors

Ken White	Board President
Gregory D'Ambrosio	Director (Budget Committee)
Suzanne Paboojian	Director
Robert Siegfried	Director (Budget Committee)
Charlotte F. Townsend	Director

Management Staff

Barbara Buikema	General Manager
Robert Wellington	Legal Counsel
James Pinkevich	Wastewater Treatment Superintendent
Daryl Lauer	Collection System Superintendent
Drew Lander	Principal Engineer
James Grover	Principal Accountant
Dotty Hall	Administrative Services Coordinator

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
2014-15

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Message from the General Manager

June 26, 2014

Honorable President and Members of the Board of Directors:

Enclosed is the Fiscal Year 2014-15 Budget. This budget reflects the realities of operating during a period of continued change at Carmel Area Wastewater District (CAWD). It also reflects our full commitment to serving existing and future generations of Carmelites in the most efficient manner possible, while protecting both the public health and the environment.

We are moving forward with our efforts to rehabilitate the Treatment Plant. Two years ago we started to develop our long term 15 year capital plan. Last year we initiated a contract with Kennedy Jenks Consulting Engineers for design of the first phase of our long term plan. That first phase is well underway; the engineering plans are at nearly 60% design. We plan to go out to bid in late fall/early winter and award a contract in the early part of 2015. If we keep on schedule, and we have every intention of doing our best to make sure that we do, we expect to begin construction at the end of this budget year.

The first phase of plant rehabilitation will include the following functional areas:

- Electrical System Improvements
- RAS Pump Piping
- Thickener Replacement Pre-Design
- Digester Firm Capacity Improvements
- #1 Water Improvements
- #3 Water Improvements
- Dewatering Improvements
- Standby and Main Power Reliability Improvements
- Standby Blower Replacement and Blower Energy Efficiency Improvements
- Hypochlorite and Sodium Bisulfite Improvements
- Storm Water Improvements

The Treatment plant is also undergoing a significant amount of maintenance and repair work that is done in-house by staff. The siloxane system was taken apart, painted, and the filter media changed out to ensure the microturbines continue running at peak performance. The plant staff oversaw a pilot project with a screw press for biosolids dewatering. And the staff undertook the beginning steps to rehabilitate and redesign the Administration building with the upper floor remodel underway as a new hub for SCADA access and a staff meeting room.

The Collection System is also undergoing a substantial amount of rehabilitation. We recently completed video of the remainder of our system and will now start to build a quantifiable long term capital plan for the system. A large defect was discovered in the Calle la Cruz force main that crosses the Carmel Lagoon – temporary repairs were put in place and a more permanent repair is now underway for engineering design. The Carmel Meadows pipeline is also under design to repair and replace the above ground trestles that carry it across the hillside. The Calle la Cruz pump station was successfully coated and rehabilitated and now staff is turning its efforts towards District manholes – an excellent candidate for coating technology to extend service life.

Operationally we continue to work on the CAWD "Team" – our Employee Survey administered in 2013 confirmed that we've made significant strides and that staff is considerably happier and more motivated than compared with the recent past.

It has not slowed down here at CAWD. In addition to capital rehabilitation as indicated, the past year has been one of considerable change and achievement. While we have a relatively new staff in both Treatment and Collections – they are eager and ambitious. At CAWD we tell our staff that there are no promotions based on longevity, rather we promote based on skill. We think that's the right approach to take. We've maintained the same staffing levels for many years but as we moved forward in our rehabilitation plans we came to the conclusion that we needed a Maintenance Supervisor. The job had been integrated into the Plant Superintendent function, but had grown to the point it merited a full-time position. It is not easy to find and hire the right person sometimes, but it ultimately only takes one good candidate. We believe we found that one great candidate with the addition of Mr. Ralph Stevens to our staff. Mr. Stevens comes to us with 35 years of wastewater experience and what appears to be every skill set that we can think of when it comes to maintenance and construction of a treatment facility.

Although we have many new members of our team we're very proud of the work all of them do. After several years of not being actively involved in the Monterey Bay Chapter of the California Water Environment Association (CWEA), this year our Collections crew applied for the Monterey Bay Collection System of the Year award. We're thrilled to announce that we won! Our crew and the best collection system practices they have implemented took us up to the podium at the CWEA awards dinner. It was a superb affirmation of a job well done.
Going forward we anticipate being fully engaged in the actions of other regulatory agencies in the Carmel Lagoon. The area is a critical habitat to steelhead trout and red-legged frogs. But it is also surrounded by development (primarily residential) and CAWD. We are literally sitting in the middle of the lagoon. We've been referred to as an "island". That is very much incorrect – we have operated at our current location for over 100 years and have seen many changes in the area, we try to be a good neighbor and a good steward of the environment. However, we also have a job to do, and we must protect the public interest in the infrastructure located at the mouth of the river. We have a significant interest in the County's proposed Ecologic Protection Barrier and their plan to stop breaching the lagoon sand bar. Although the Treatment Plant is located in a flood hazard area, it has been designed and is operated to withstand temporary flood events. During all past flood events the facility has survived and continued to operate without interruption. If the County discontinues breaching the lagoon a potential public health, safety and welfare issue could result as the lagoon may fill and flood the facilities every year, thereby preventing our operations. Your Board of Directors and District staff are working diligently to protect CAWD and to ensure that we continue to provide the uninterrupted service our ratepayers deserve.

Our NPDES permit was successfully presented to the Regional Water Quality Control Board the end of May 2014 and approved without dissent. This effort was a concerted "team" approach between Administration, Operations, and the Lab – at times it was onerous, at times challenging – but in the end successful. One thing we have learned from this process is that the data acquisition and analysis phase of the permitting process is complex and all-encompassing. Thinking towards the future we've started implementation of a Laboratory Information System to aid us in keeping, gathering, and analyzing data more quickly and efficiently. Our Lab Supervisor says this project has been on his wish list for twenty years!

Along with numerous operational changes in both Treatment and Collections we've managed to continue supplying reclaimed water to the golf courses in Del Monte Forest without interruption. We've been running the Reclamation facilities continuously for two years now without the normal winter break we normally enjoy for maintenance activities. No doubt, this is what a drought looks like – wastewater is so valuable that we simply cannot afford to shut down and lose any flow. All flow coming into the plant is precious to us now.

We've taken great care to restrain spending wherever possible in our Operating Budget. The two largest cost centers are certainly Salary and Benefits and Electrical power. As indicated, we are looking at all opportunities to make the plant more efficient and are confident that our upgrade efforts will show results immediately. On the topic of Salary and Benefits, we completed a Parity Study in the fall of 2013 and found that in some job categories our salaries are not competitive – we will make adjustments where necessary. We are also negotiating a two year contract with our employees. Your Board is committed to paying our employees a fair and competitive salary and to managing costs. Rest assured it is not always an easy balance to maintain.

Perhaps one of the biggest areas of concern to our staff is the future of their health care benefits. This is a topic that has been plastered on all the various new media formats – and with good reason. There are days when we feel like we're standing in quicksand. We have been informed by our carrier, Blue Shield that the benefits we have now will no longer be available December 2014. They have yet to tell us what will be available for their small group clients. One of the things our recent Parity Study showed was that CAWD has done an excellent job in containing health care costs when compared to other agencies. We have been extremely creative in utilizing Health Savings accounts, Flexible Savings account, and Cafeteria type benefits. Because of the uncertainty in health care we've negotiated with our employees to maintain their current health care package and re-open negotiations in October-November 2014 when we have some notion of what the market for small groups will be.

We've broken down the Capital Budget into three sections. First, the Long Term Capital Plan addresses major upgrades and rehabilitation necessary to improve the reliability of aging infrastructure and rehabilitate older technologies. The engineering estimates indicate that we need to spend approximately $30 million over the next 15 years. We've engaged the Engineering firm of Kennedy/Jenks Consultants from San Francisco to design and aid us in making our way through the rehabilitation process. Second, the CIP addresses predictive and preventative maintenance issues that are generally handled in-house by our staff. We estimate that we need to spend approximately $750K per year at the Treatment facility and $700K per year on our Collection System. Finally, the Capital Purchases budget addresses the replacement of worn-out equipment or need for additional new equipment. The budget for capital purchases is generally the smallest of the three sections and folds into the total budget estimate for preventative/predictive maintenance at both the Treatment facility and Collection System.

The good news is that we're in fairly good shape financially to meet that goal. Because of our contract with Pebble Beach Community Services District, CAWD ratepayers are responsible for 2/3 of a treatment plant capital – or an estimated $20 million. We have $14 million in reserves

ready to spend on capital – they are the result of good planning and mean that we're more than half way to our goal. We are front-loading out long term planning because we believe that there are some critical reliability issues we must address first. These include replacing much of the electrical backbone of the facility (estimated $8M) and constructing a new digester (estimated $5M). Those two projects, along with some other work easily put us halfway through our $30M plan. It goes without saying that the pace of the work will slow down after the initial five year plan.

Planning out our reserves strategy not only mean that we're able to get to work immediately with our planned capital improvements, but also that we have the time to plan carefully and consider all options necessary to finish the job. Financing the remainder of our $30 million plan has required that the District make some difficult decisions – and I would like to recognize the efforts of the Budget/Personnel Committee, staff and the entire Board who over the course of the past year have offered their counsel and made those hard decisions.

To keep the District on a solid long term financial path, we are now in the 3rd year of our plan to "gently" build the cost of capital recovery into the rate model. We want to minimize any rate shock to our constituents but we also want to be prepared. To that end, we are including an additional $250K in the model above the proposed O&M budget. Our O&M budget is projected to increase 3.29% this year without the cost of capital. We believe we've done an exceptional job managing and keeping our operating costs streamlined. Adding in the cost of capital recovery will bring the residential rate (far and away our largest customer category) increase to a total of 10.97%.

No one likes rate increases. I live in this community along with every member on the Board and I believe we're all sensitive to the impact a rate increase can have on our constituents. But, we also recognize that CAWD has been in existence for 106 years and we all want to hand off a well maintained operation to the next generation, while doing all that we can to protect the beautiful area 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. Your elected Board believes that debt for the next generation of Carmelites and the surrounding areas is not the appropriate legacy for the future. There are significant advantages to all who live and work here in protecting the investment we have in our treatment facility:

- Rehabilitation will help us improve reliability to avoid spills and regulatory non-compliance.
- Upgrading now will help to better protect the environment. New technologies are more "green" and we're continually striving to think of ways we can be more self-sufficient energy-wise and help protect the beautiful area we all live in and enjoy.

- New equipment will help improve plant safety which goes directly to the bottom line.

- We can take advantage of historically low construction costs right now – we've got the reserves in hand so that we're ready.

- Upgrading our equipment will help us save energy. Just as you purchase new energy saver appliances for your home – we can do something very similar by upgrading our industrial sized equipment.

- Rehabilitate/Replace will help us maintain our current treatment plant capacity with the Regional Water Quality Control Board.

- Maintaining our secondary plant is crucial towards maintaining the recycled water facility that provides reclaimed water to the Del Monte Forest golf courses. Those golf courses use 100% reclaimed water – made courtesy of CAWD. The reclamation plant provides a significant environmental benefit to the entire local community by reducing groundwater draw.

- A local sewage treatment facility allows the District to serve the specific needs of local ratepayers. District ratepayers have a direct and significant voice in District goals.

- Upgrading our infrastructure improves the community. Most of us don't think about wastewater because of the dedicated people in the background that do their job every day, to make sure the public health and environment is protected. We want to keep it that way.

We are deeply committed towards making CAWD the most efficient and effect District possible. To that end the Board has delivered a set of goals to staff for the upcoming year.

I. Capital Improvement Program
   a. The Board strategy is to implement improvements necessary to turn CAWD into a "gold standard" for small treatment facilities in California.
   b. Commit to improvements that protect the environment and pave the way toward energy self-sufficiency.

II. Fiscal Year Achievements
   a. The Board strategy is to not take on any new debt but to implement incremental increases in user rates to support the capital plan.
   b. An emphasis on holding the line on operational costs.
   c. Develop creative ways to stay within staffing levels and manage benefit costs.

III. Employee Relations
   a. Establish innovative leadership and encourage staff to excel.
   b. Develop staff members that are sought out for their expertise.

IV. Safety
   a. Continuing emphasis on worker safety – our goal is that safety is second nature.
   b. Develop District wide program – it is currently segmented by Department, we'd like to bring it all under one umbrella.

In the coming year we know that we will focus even more on plant reliability. We fully expect to be successful in bidding our plant rehabilitation project and look forward to beginning construction. As we move into 2014-15 we will continue to make an effort at uncovering potential grant opportunities to help fund our facility rehabilitation plan. Nonetheless, we feel that we are still on the right track to fully funding our long term capital plan on a pay-as-you-go basis.

As we move forward we remain committed to ensuring we meet our permit guidelines and reduce sewer overflows in ways that are cost effective as well as protective of the public health and the environment. 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.

I would like to thank the Budget Committee for their comments and input at various meetings to refine and clarify areas of the budget. My expectation for Fiscal Year 2014-15 is that it will be an extremely busy and productive year for rehabilitating our facility 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,

B. Buikema

Barbara Buikema
General Manager

Carmel Area Wastewater District

Budget Summary

2014-15

Description	2012-13 Actual	2012-13 Budget	2012-13 % of Budget	Estimated 2013-14 Actual	Estimated 2013-14 Budget	Estimated 2013-14 % of Budget	Proposed 2014-15 Budget	% Chg. Prior Yr. Budget	Projected 2015-16 Budget	% Chg. Prior Yr. Budget
Beginning Fund Balance	19,567,397	17,329,385		21,702,591	19,260,000		22,230,948		18,648,120	
Operating Revenues	5,863,614	5,549,491	105.66%	6,106,422	6,105,551	100.01%	6,716,616	10.01%	7,216,281	7.44%
	5,863,614	**5,549,491**	105.66%	**6,106,422**	**6,105,551**	100.01%	**6,716,616**	10.01%	**7,216,281**	7.44%
Op Expend. (less deprec.)										
Collection	723,602	788,842	91.73%	911,650	1,045,655	87.18%	919,599	-12.06%	943,641	2.61%
Treatment	2,819,219	3,070,498	91.82%	3,029,290	3,142,045	96.41%	3,422,498	8.93%	3,510,426	2.57%
Administration	1,076,019	1,099,358	97.88%	1,040,963	1,115,625	93.31%	1,151,151	3.18%	1,156,132	0.43%
Reclamation Project	471,670	448,150	105.25%	522,359	481,422	108.50%	516,945	7.38%	527,010	1.95%
Total Operating Exp	**5,090,510**	**5,406,848**	94.15%	**5,504,261**	**5,784,747**	95.15%	**6,010,193**	3.90%	**6,137,209**	2.11%
Operating Gain/(Loss) (exclusive of depreciation)	773,104	142,643	541.99%	602,161	320,804	187.70%	706,423	120.20%	1,079,073	52.75%
Depreciation Expense	2,444,295	2,471,500	98.90%	2,555,060	2,555,100	100.00%	2,555,100	0.00%	2,555,100	0.00%
Amortization Expense	4,858	4,860	99.97%	4,860	4,860	100.00%	4,860	0.00%	4,860	0.00%
Operating Gain/(Loss)	**(1,676,049)**	**(2,333,717)**	71.82%	**(1,957,759)**	**(2,239,156)**	87.43%	**(1,853,537)**	-17.22%	**(1,480,887)**	-20.10%
Non Operating Revenues	2,087,931	2,172,850	96.09%	1,959,268	4,266,310	45.92%	5,121,068	20.04%	3,895,531	-23.93%
Non Operating Expend.	248,446	253,552	97.99%	257,252	257,252	100.00%	224,809	-12.61%	215,563	-4.11%
Net Income/(Loss)	**163,436**	**(414,419)**	-39.44%	**(255,743)**	**1,769,902**	-14.45%	**3,042,722**	71.91%	**2,199,081**	-27.73%
Capital Budget										
Equipment Purchases										
Administration	40,391	10,000	403.91%	12,000	25,000	48.00%	0	-100.00%	$0	n/a
Collections	30,587	72,500	42.19%	15,000	55,000	27.27%	230,000	318.18%	180,000	-21.74%
Treatment	99,355	181,100	54.86%	26,501	163,000	16.26%	332,500	103.99%	248,000	-25.41%
Capital Improvement Projects										
Administration		23,000	0.00%	0	0	n/a	0	n/a	0	n/a
Collections	201,161	705,000	28.53%	293,408	701,979	41.80%	857,510	22.16%	335,000	-60.93%
Treatment	276,989	931,601	29.73%	54,740	1,971,459	2.78%	2,071,500	5.07%	1,270,000	-38.69%
Treatment Long Term Capital	0	0	n/a	130,002	3,940,000	3.30%	5,694,000	44.52%	4,452,000	-21.81%
Total Capital Budget	**648,483**	**1,923,201**	33.72%	**531,650**	**6,856,438**	7.75%	**9,185,510**	33.97%	**6,485,000**	-29.40%
Ending Fund Balance	**21,531,503**	**17,468,125**	123.26%	**23,475,117**	**16,733,424**	140.29%	**18,648,120**	11.44%	**16,922,161**	-9.26%

Carmel Area Wastewater District

Revenue Budget

2014-15

Description	2012-13			Estimated 2013-14			Proposed 2014-15 Budget	% Chg. Prior Yr. Budget	Projected 2015-16 Budget	% Chg. Prior Yr. Budget
	Actual	Budget	% of Budget	Actual	Budget	% of Budget				
OPERATING REVENUES										
Sewer service fees - residents	4,288,462	4,096,341	104.69%	4,620,000	4,619,129	100.02%	5,194,671	12.46%	5,584,271	7.50%
Treatment fees - PBCSD	1,097,706	1,000,000	109.77%	1,000,000	1,000,000	100.00%	1,000,000	0.00%	1,100,000	10.00%
Reclamation Project O & M reimbursement	471,671	448,150	105.25%	481,422	481,422	100.00%	516,945	7.38%	527,010	1.95%
Permits & inspection fees	5,775	5,000	115.50%	5,000	5,000	100.00%	5,000	0.00%	5,000	0.00%
Total Operating	5,863,614	5,549,491	105.66%	6,106,422	6,105,551	100.01%	6,716,616	10.01%	7,216,281	7.44%
NON OPERATING REVENUES										
Property tax revenue	1,569,277	1,415,000	110.90%	1,436,300	1,436,225	100.01%	1,457,768	1.50%	1,479,635	1.50%
Interest Income	77,982	70,000	111.40%	69,700	70,000	99.57%	70,000	0.00%	70,000	0.00%
Highlands Inn assessment revenue	232,082	227,338	102.09%	230,838	230,838	100.00%	216,938	-6.02%	215,563	-0.63%
Reimbursement from PBCSD for 1/3 secondary treatment plant improv.	63,354	390,012	16.24%	135,000	1,775,062	7.61%	2,396,417	35.00%	1,932,333	-19.37%
Plant Connection fees	18,525	10,000	185.25%	11,020	5,000	220.40%	5,000	0.00%	5,000	0.00%
Reclamation Project reimbursement	23,614	60,500	n/a	35,000	749,185	4.67%	974,945	30.13%	193,000	-80.20%
Other	107,931	0	n/a	41,410	0	n/a	0	n/a	0	n/a
Gain/Loss on Investments	(4,833)	0	n/a		0	n/a	0	n/a	0	n/a
Total Non Operating	2,087,931	2,172,850	96.09%	1,959,268	4,266,310	45.92%	**5,121,068**	20.04%	**3,895,531**	-23.93%
TOTAL REVENUES	**7,951,545**	**7,722,341**	102.97%	**8,065,690**	**10,371,861**	77.77%	**11,837,684**	14.13%	**11,111,812**	-6.13%

Carmel Area Wastewater District
Non-Operating Expenses Budget
2014-15

Description	2012-13			Estimated 2013-14			Proposed 2014-15 Budget	% Chg. Prior Yr. Budget	Projected 2015-16 Budget	% Chg. Prior Yr. Budget
	Actual	Budget	% of Budget	Actual	Budget	% of Budget				
NON OPERATING EXPENSES										
Debt Service - Principal	120,000	120,000	100.00%	135,000	135,000	100.00%	125,000	-7.41%	130,000	4.00%
Debt Service - Interest	102,338	102,338	100.00%	95,838	95,838	100.00%	89,338	-6.78%	82,963	-7.14%
Bond Fees	2,494	2,600	95.92%	2,800	2,800	100.00%	2,600	-7.14%	2,600	0.00%
Lease (ion chromatograph) - Principal	21,162	21,162	100.00%	22,438	22,438	100.00%	7,776	-65.34%	0	-100.00%
Lease - Interest	2,452	2,452	100.00%	1,176	1,176	100.00%	95	-91.92%	0	-100.00%
TOTAL	**248,446**	**248,552**	99.96%	**257,252**	**257,252**	100.00%	**224,809**	-12.61%	**215,563**	-4.11%

Note:

1. Highlands Bond is charged to project participants annually on property tax statements in addition to annual user fees
2. Siemens lease for ion chromatograph is fully reimbursed by Reclamation Project

Carmel Area Wastewater District

Consolidated Operating Expense Summary Budget 2014-15

Description	2012-13 Actual	2012-13 Budget	2012-13 % of Budget	Estimated 2013-14 Actual	Estimated 2013-14 Budget	Estimated 2013-14 % of Budget	Proposed 2014-15 Budget	% Chg. Prior Yr. Budget	Projected 2015-16 Budget	% Chg. Prior Yr. Budget
Salaries	1,844,707	1,876,838	98.29%	1,797,650	1,899,415	94.64%	2,028,049	6.77%	2,114,469	4.26%
Payroll Taxes	156,719	140,965	111.18%	139,875	144,245	96.97%	151,635	5.12%	157,270	3.72%
Employee Benefits	932,856	917,071	101.72%	942,580	1,010,362	93.29%	859,879	-14.89%	886,677	3.12%
Directors Fees	17,475	21,600	80.90%	21,000	21,600	97.22%	24,100	11.57%	24,700	2.49%
Gen'l Liability/Prop Ins.	124,207	92,925	133.66%	93,750	90,370	103.74%	96,505	6.79%	100,820	4.47%
Trucks & Autos	47,891	32,280	148.36%	65,965	67,795	97.30%	80,385	18.57%	71,155	-11.48%
Office Supplies & Svc.	64,337	26,700	240.96%	51,545	51,925	99.27%	64,875	24.94%	55,400	-14.61%
Total Operating Supplies	212,796	247,740	85.90%	253,050	276,590	91.49%	285,050	3.06%	285,650	0.21%
Safety Supplies	24,047	20,525	117.16%	37,190	26,355	141.11%	32,960	25.06%	29,613	-10.15%
Contractual Services	273,585	439,635	62.23%	410,875	569,950	72.09%	544,775	-4.42%	570,340	4.69%
Engineering Fees	223,168	175,000	127.52%	210,000	210,000	100.00%	220,000	4.76%	210,000	-4.55%
Audit/Financial Expense	19,000	21,000	90.48%	19,000	21,500	88.37%	21,500	0.00%	21,500	0.00%
Attorney Fees	37,876	35,000	108.22%	34,500	35,500	97.18%	42,000	18.31%	42,000	0.00%
Maint & Repairs	190,861	352,200	54.19%	448,990	381,900	117.57%	523,900	37.18%	501,500	-4.28%
Utilities	190,613	285,455	66.78%	252,500	242,615	104.07%	256,615	5.77%	268,944	4.80%
Telephone	24,570	23,965	102.52%	32,620	27,650	117.97%	36,250	31.10%	37,265	2.80%
Travel & Meetings	58,576	78,110	74.99%	53,530	73,300	73.03%	79,300	8.19%	78,300	-1.26%
Membership/Subscrip.	22,085	16,575	133.24%	24,575	20,970	117.19%	27,950	33.29%	27,950	0.00%
Other Expense	153,471	155,115	98.94%	92,710	131,283	70.62%	117,521	-10.48%	126,647	7.77%
CAWD Subtotal	4,618,840	4,958,699	93.15%	4,981,906	5,303,325	93.94%	5,493,248	3.58%	5,610,199	2.13%
Reclamation Project	471,670	448,150	105.25%	522,359	481,422	108.50%	516,945	7.38%	527,010	1.95%
Final Subtotal	5,090,510	5,406,849	94.15%	5,504,264	5,784,747	95.15%	6,010,193	3.90%	6,137,209	2.11%
Depreciation	2,444,295	2,471,500	98.90%	2,555,060	2,555,100	100.00%	2,555,100	0.00%	2,555,100	0.00%
Amortization	4,858	4,860	99.97%	4,860	4,860	100.00%	4,860	0.00%	4,860	0.00%
Total Operating Expense	**$7,539,663**	**$7,883,209**	95.64%	**$8,064,184**	**$8,344,707**	96.64%	**$8,570,153**	2.70%	**$8,697,169**	1.48%

Carmel Area Wastewater District
Consolidated Departmental Detail
2014-15 Operating Expense Budget

Description	2012-13 Actual	2012-13 Budget	2012-13 % of Budget	Estimated 2013-14 Actual	Estimated 2013-14 Budget	Estimated 2013-14 % of Budget	Proposed 2014-15 Budget	% Chg. Prior Yr. Budget	Projected 2015-16 Budget	% Chg. Prior Yr. Budget
Salaries	1,779,561	2,050,138	86.80%	1,702,875	2,076,215	82.02%	2,192,169	5.58%	2,283,589	4.17%
Salaries - Overtime	26,110	77,200	33.82%	54,980	77,200	71.22%	77,200	0.00%	77,200	0.00%
Salaries - Standby	39,036	39,000	100.09%	39,795	39,000	102.04%	43,680	12.00%	43,680	0.00%
Allocation to MF\RO Operations	0	(289,500)	0.00%	0	(293,000)	0.00%	(285,000)	n/a	(290,000)	n/a
Total Salaries	**1,844,707**	**1,876,838**	98.29%	**1,797,650**	**1,899,415**	94.64%	**2,028,049**	6.77%	**2,114,469**	4.26%
Payroll Taxes	156,719	163,110	96.08%	139,875	166,665	83.93%	151,635	-9.02%	157,270	3.72%
Allocation to Reclamation	0	(22,145)	0.00%	0	(22,420)	0.00%	0	-100.00%	0	n/a
Total Payroll Taxes	**156,719**	**140,965**	111.18%	**139,875**	**144,245**	96.97%	**151,635**	5.12%	**157,270**	3.72%
Employee Benefits:										
Workers Compensation	15,041	54,275	27.71%	67,940	70,480	96.40%	70,240	-0.34%	72,523	3.25%
Retirement Plan - CalPERS	284,514	299,190	95.09%	291,105	306,467	94.99%	291,389	-4.92%	291,592	0.07%
Pension Contribution - SAM	330,549	332,640	99.37%	321,935	332,640	96.78%	216,415	-34.94%	216,415	0.00%
Medical Insurance - Premium	205,478	218,153	94.19%	255,520	280,335	91.15%	293,260	4.61%	315,258	7.50%
Medical Claims/HSA	36,402	26,000	140.01%	37,760	36,000	n/a	30,375	n/a	32,655	n/a
Medical Acct Fees	(2,784)	9,320	-29.88%	0	6,095	0.00%	1,220	n/a	1,220	0.00%
Life Insurance	7,258	6,650	109.14%	7,205	7,330	98.30%	7,455	1.71%	7,505	0.67%
Dental Claims	41,276	43,500	94.89%	34,160	44,000	77.64%	38,000	-13.64%	38,195	0.51%
Vision Insurance	6,999	7,245	96.60%	7,195	7,365	97.70%	7,475	1.49%	7,520	0.60%
Unemployment Insurance	0	0	n/a	0	0	n/a	0	n/a	0	n/a
Long Term Disability Ins.	16,815	18,040	93.21%	19,255	18,650	103.24%	18,540	-0.59%	19,620	5.82%
Employee Assistance Program	3,825	3,900	98.08%	4,560	4,185	108.96%	3,955	-5.50%	4,110	3.92%
PEHP	138,425	20,760	666.79%	24,840	20,895	118.88%	22,455	7.47%	23,465	4.50%
Tuition Reimbursement	0	0	n/a	0	0	n/a	5,000	n/a	5,000	0.00%
Allocate to Reclamation	(150,942)	(122,602)	123.12%	(128,895)	(124,080)	103.88%	(145,900)	17.59%	(148,400)	1.71%
Total Employee Benefits	**932,856**	**917,071**	101.72%	**942,580**	**1,010,362**	93.29%	**859,879**	-14.89%	**886,677**	3.12%
Directors Fees										
Regular Board Meetings	8,250	8,800	93.75%	8,800	8,800	100.00%	8,800	0.00%	8,800	0.00%
Special Board Meetings	2,550	3,200	79.69%	2,600	2,600	100.00%	5,700	119.23%	5,700	0.00%
CASA - Directors fees	300	750	40.00%	1,050	1,050	100.00%	750	-28.57%	1,350	80.00%
PBCSD - Directors fees	1,400	1,750	80.00%	1,750	1,750	100.00%	1,750	0.00%	1,750	0.00%
Committee Meetings	650	800	81.25%	800	800	100.00%	800	0.00%	800	0.00%
Water Reuse Mtgs	0	300	0.00%	0	600	0.00%	300	-50.00%	300	0.00%
Director's Dental Claims	4,325	6,000	72.09%	6,000	6,000	100.00%	6,000	0.00%	6,000	0.00%
Total Directors Fees	**17,475**	**21,600**	80.90%	**21,000**	**21,600**	97.22%	**24,100**	11.57%	**24,700**	2.49%
Insurance										
Property Insurance	22,250	19,650	113.23%	18,785	20,570	91.32%	21,780	5.88%	23,165	6.36%
General Liability	95,407	66,725	142.98%	68,315	63,150	108.18%	68,075	7.80%	71,005	4.30%
Errors & Ommissions	4,800	4,800	100.00%	4,800	4,800	100.00%	4,800	0.00%	4,800	0.00%
Commercial Crime Policy	1,750	1,750	100.00%	1,850	1,850	100.00%	1,850	n/a	1,850	0.00%
Total Insurance	**124,207**	**92,925**	133.66%	**93,750**	**90,370**	103.74%	**96,505**	6.79%	**100,820**	4.47%
Trucks & Autos										
Gasoline	10,095	9,620	104.94%	13,135	12,375	106.14%	13,800	11.52%	13,535	-1.92%
Diesel	15,503	11,200	138.42%	20,150	23,650	85.20%	23,250	-1.69%	22,790	-1.98%
Oil & Grease	342	420	81.31%	2,565	420	610.71%	2,475	489.29%	2,520	1.83%
Tires, Batteries, Service	4,939	2,400	205.79%	9,125	10,400	87.74%	8,000	-23.08%	8,000	0.00%
Repair Parts	10,857	6,000	180.95%	18,200	18,300	99.45%	18,550	1.37%	18,550	0.00%
Paint, Coolant, Cleaner	0	350	0.00%	505	350	144.29%	300	-14.29%	300	0.00%
Tools	4,724	450	1049.71%	595	450	132.22%	11,000	2344.44%	2,400	-78.18%
Medical Exams - Drivers	0	400	0.00%	440	550	80.00%	500	-9.09%	500	0.00%
Radio Servicing	92	0	n/a	0	0	n/a	0	n/a	0	n/a
Waste Oil Disposal	0	100	0.00%	0	100	0.00%	100	0.00%	100	0.00%
Smog Check - Vehicles	300	690	43.48%	320	550	58.18%	550	0.00%	600	9.09%

Carmel Area Wastewater District
Consolidated Departmental Detail
2014-15 Operating Expense Budget

Description	2012-13 Actual	2012-13 Budget	2012-13 % of Budget	Estimated 2013-14 Actual	Estimated 2013-14 Budget	Estimated 2013-14 % of Budget	Proposed 2014-15 Budget	% Chg. Prior Yr. Budget	Projected 2015-16 Budget	% Chg. Prior Yr. Budget
DMV fees	0	0	n/a	40	0	n/a	50	n/a	50	0.00%
DATCO Drug Testing	644	650	99.03%	705	650	108.46%	1,020	56.92%	1,020	0.00%
Cleaning/Detailing	397	0	n/a	185	0	n/a	790	n/a	790	0.00%
Total Trucks & Autos	**47,891**	**32,280**	148.36%	**65,965**	**67,795**	97.30%	**80,385**	18.57%	**71,155**	-11.48%
Office Supplies & Service										
Postage	2,853	2,100	135.86%	2,500	2,850	87.72%	2,500	-12.28%	2,500	0.00%
Duplicating Supplies	280	0	n/a	495	150	n/a	600	n/a	600	n/a
Stationery & Printing	1,876	3,500	53.60%	3,200	3,525	90.78%	4,025	14.18%	4,050	0.62%
Data Processing Supplies	38,104	12,800	297.69%	38,500	28,400	135.56%	49,300	73.59%	39,000	-20.89%
Other Office Supplies	13,768	5,800	237.38%	6,850	9,200	74.46%	5,450	-40.76%	6,250	14.68%
Data Processing Repairs	7,456	2,500	298.24%	0	7,800	0.00%	3,000	-61.54%	3,000	0.00%
Total Office Supplies & Svc.	**64,337**	**26,700**	240.96%	**51,545**	**51,925**	99.27%	**64,875**	24.94%	**55,400**	-14.61%
Operating Supplies										
Chemicals	116,603	145,500	80.14%	140,000	151,500	92.41%	140,000	-7.59%	145,000	3.57%
Lubricants & Packing	3,776	1,575	239.78%	1,565	1,575	99.37%	7,500	376.19%	7,750	3.33%
Microturbine Supplies	0	3,400	0.00%	3,400	3,400	100.00%	3,400	n/a	3,600	5.88%
Electrical Supplies	4,169	10,100	41.28%	5,050	10,100	50.00%	10,000	-0.99%	10,000	0.00%
Laboratory Supplies	13,163	23,600	55.78%	23,000	23,600	97.46%	25,600	8.47%	26,400	3.13%
Paint	191	12,250	1.56%	6,200	12,275	50.51%	12,150	-1.02%	12,650	4.12%
Janitorial Supplies	371	1,200	30.93%	950	1,200	79.17%	1,100	-8.33%	1,100	0.00%
Standby Generator Fuel	0	1,000	0.00%	500	1,000	50.00%	4,800	n/a	4,800	0.00%
Personnel Supplies	14,030	10,550	132.98%	10,900	13,200	82.58%	12,200	-7.58%	12,450	2.05%
Hand Tools	12,336	11,000	112.14%	11,750	12,800	91.80%	14,400	12.50%	10,000	-30.56%
Welding Supplies	462	390	118.44%	235	440	53.41%	400	-9.09%	400	0.00%
General Operating Supplies	46,056	25,475	180.79%	47,800	44,300	107.90%	51,300	15.80%	49,300	-3.90%
Safety & Training	1,639	1,500	109.26%	1,500	1,000	150.00%	2,000	100.00%	2,000	0.00%
Source Control	0	200	0.00%	200	200	100.00%	200	0.00%	200	0.00%
Total Operating Supplies	**212,796**	**247,740**	85.90%	**253,050**	**276,590**	91.49%	**285,050**	3.06%	**285,650**	0.21%
Safety										
First Aid Supplies	1,545	2,000	77.23%	3,600	2,050	175.61%	1,500	-26.83%	1,500	0.00%
Safety Supplies/Emerg Response	8,584	5,000	171.68%	18,000	8,040	223.88%	3,465	-56.90%	1,100	-68.25%
Uniforms/Boots/Gear	12,964	11,875	109.17%	14,215	14,615	97.26%	15,625	6.91%	16,153	3.38%
Emergency Response Supplies	0	0	n/a	0	0	n/a	3,955	n/a	3,885	-1.77%
Safety Training	0	0	n/a	0	0	n/a	6,865	n/a	5,425	-20.98%
Fire Extinguisher Service	954	1,650	57.82%	1,375	1,650	83.33%	1,550	-6.06%	1,550	0.00%
Total Safety Expenses	**24,047**	**20,525**	117.16%	**37,190**	**26,355**	141.11%	**32,960**	25.06%	**29,613**	-10.15%
Contractual Services										
Sludge Haul/Disposal	86,735	91,000	95.31%	104,000	102,670	101.30%	102,670	0.00%	102,670	0.00%
Alarm System	1,270	2,650	47.92%	1,850	2,700	68.52%	2,650	-1.85%	2,700	1.89%
Pest Control	0	0	n/a	575	0	n/a	1,200	n/a	1,200	0.00%
Power Signal-CSD Standby	1,087	1,165	93.32%	1,200	1,300	92.31%	1,200	-7.69%	1,200	0.00%
Contractual Services	0	5,000	0.00%	56,000	105,000	53.33%	52,800	-49.71%	86,000	62.88%
Instrumentation Services	0	6,250	0.00%	6,200	6,250	99.20%	6,250	0.00%	6,250	0.00%
Grit & Screening Disposal	7,831	7,700	101.70%	6,600	7,700	85.71%	8,000	3.90%	8,250	3.13%
Laboratory Analysis	28,581	24,000	119.09%	28,000	30,000	93.33%	30,000	0.00%	30,000	0.00%
Calibration	400	1,100	36.36%	1,000	1,100	90.91%	1,000	-9.09%	1,000	0.00%
Radio Service	1,958	0	n/a	0	0	n/a	0	n/a	0	n/a
Equipment Rental	0	0	n/a	9,700	0	n/a	7,000	n/a	7,000	0.00%
Pager Service	474	540	87.78%	220	540	40.74%	0	-100.00%	0	n/a
Janitorial Service	7,120	7,900	90.13%	7,900	7,900	100.00%	9,900	25.32%	9,900	0.00%
Copier Service	5,567	4,130	134.79%	5,130	5,100	100.59%	5,100	0.00%	5,100	0.00%
Plant Rehabilitation	0	100,000	0.00%	0	100,000	0.00%	100,000	0.00%	100,000	0.00%
Ocean Monitoring Program	12,096	23,000	52.59%	16,100	23,000	70.00%	23,000	0.00%	23,000	0.00%
Landscape Maintenance	10,667	11,500	92.76%	5,750	22,000	26.14%	19,000	-13.64%	18,500	-2.63%

Carmel Area Wastewater District
Consolidated Departmental Detail
2014-15 Operating Expense Budget

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Accounting Services	3,600	3,600	100.00%	3,600	3,800	94.74%	13,800	263.16%	3,800	-72.46%
Hazardous Waste Disposal	583	2,500	23.33%	2,000	2,400	83.33%	1,000	-58.33%	2,000	100.00%
Underground Service Alert	269	300	89.52%	320	325	98.46%	350	7.69%	350	0.00%
Postage Meter Service	192	195	98.40%	195	195	100.00%	195	0.00%	195	0.00%
Payroll Processing	6,334	5,500	115.16%	6,350	6,350	100.00%	6,350	0.00%	6,350	0.00%
Network Administration	43,176	57,320	75.32%	63,485	58,500	108.52%	78,935	34.93%	79,500	0.72%
Data Processing Svcs.-County	19,680	17,500	112.46%	18,000	18,000	100.00%	18,000	0.00%	18,000	0.00%
Actuarial Service	14,550	12,500	116.40%	12,600	17,000	74.12%	17,000	0.00%	17,000	0.00%
Post Office Box Rental	124	125	99.20%	200	125	160.00%	125	0.00%	125	0.00%
Boiler Service	0	1,000	0.00%	500	1,000	50.00%	1,000	0.00%	1,000	0.00%
Hoist Certification	960	1,000	96.00%	600	1,000	60.00%	1,000	0.00%	1,000	0.00%
Pump Station Monitoring	2,432	2,100	115.80%	2,435	2,435	100.00%	2,500	2.67%	2,500	0.00%
Other Special Studies	1,590	27,000	5.89%	19,800	20,000	99.00%	20,000	0.00%	20,000	0.00%
Fleet Management	3,079	9,250	33.29%	2,950	9,750	30.26%	750	-92.31%	1,750	n/a
Microturbine Service	13,231	13,810	95.81%	27,615	13,810	199.96%	14,000	1.38%	14,000	0.00%
Total Contractual Services	**273,585**	**439,635**	62.23%	**410,875**	**569,950**	72.09%	**544,775**	-4.42%	**570,340**	4.69%
Engineering Fees										
Consulting Fees	223,168	175,000	127.52%	210,000	210,000	100.00%	220,000	n/a	210,000	-4.55%
Audit/Financial Expense	19,000	21,000	90.48%	19,000	21,500	88.37%	21,500	0.00%	21,500	0.00%
Attorney Fees										
District Counsel	36,108	34,000	106.20%	34,500	34,500	100.00%	41,000	18.84%	41,000	0.00%
CASA Conference Attendence	1,768	1,000	176.80%	0	1,000	0.00%	1,000	0.00%	1,000	0.00%
Total Attorney Fees	**37,876**	**35,000**	108.22%	**34,500**	**35,500**	97.18%	**42,000**	18.31%	**42,000**	0.00%
Repairs & Maintenance										
General Repairs	116,541	286,050	40.74%	218,475	266,450	81.99%	332,500	24.79%	328,000	-1.35%
Microturbine R & M	4,033	2,000	201.65%	2,000	2,500	80.00%	5,000	100.00%	5,000	n/a
Pump Station Equipment	147	2,100	7.01%	1,900	2,000	95.00%	8,000	300.00%	2,000	-75.00%
Collection Line Repairs	1,051	7,500	14.02%	56,000	57,500	97.39%	30,000	-47.83%	30,000	0.00%
Pump Station Repairs	6,542	11,300	57.90%	10,250	10,200	100.49%	11,400	11.76%	1,900	-83.33%
Manhole Repairs	0	3,000	0.00%	1,000	3,000	33.33%	9,500	216.67%	3,000	-68.42%
Easement Cleaning	4,750	0	n/a	0	0	n/a	5,000	n/a	5,000	0.00%
Electric Motors	6,258	3,000	208.59%	1,900	3,000	63.33%	6,000	100.00%	6,000	0.00%
Centrifugal Pumps	95	500	18.93%	6,805	500	1361.00%	1,000	100.00%	1,000	0.00%
Prog. Cav. Pumps	0	1,000	0.00%	900	1,000	90.00%	2,000	100.00%	2,000	0.00%
Standby Generator	1,391	2,000	69.57%	28,715	2,000	1435.75%	4,000	100.00%	4,000	0.00%
Control Panels	1,988	3,000	66.27%	3,000	3,000	100.00%	6,000	100.00%	6,000	0.00%
Instruments	515	3,000	17.16%	3,000	3,000	100.00%	6,000	100.00%	6,000	0.00%
Boiler Repairs	3,662	1,000	366.15%	420	1,000	42.00%	2,000	100.00%	2,000	0.00%
Lab Equipment	608	1,500	40.53%	12,220	1,500	814.67%	3,000	100.00%	7,100	136.67%
Headworks - Primary	6,799	3,500	194.26%	6,650	3,500	190.00%	7,000	100.00%	7,000	0.00%
IPS/EPS/DAF	1,263	3,250	38.86%	3,200	3,250	98.46%	6,500	100.00%	6,500	0.00%
Chlorine/Dechlorinator	3,949	9,000	43.88%	14,200	9,000	157.78%	10,000	11.11%	10,000	0.00%
Dewatering/DIG	6,324	1,000	632.42%	315	1,000	31.50%	2,000	100.00%	2,000	0.00%
Plant Pumps	1,888	4,000	47.19%	70,690	4,000	1767.25%	8,000	100.00%	8,000	0.00%
Aeration - Secondary	14,036	4,500	311.90%	7,350	4,500	163.34%	9,000	100.00%	9,000	0.00%
Demolition	9,022	0	n/a	0	0	n/a	50,000	n/a	50,000	0.00%
Total Maint & Repairs	**190,861**	**352,200**	54.19%	**448,990**	**381,900**	117.57%	**523,900**	37.18%	**501,500**	-4.28%
Utilities										
Electricity	168,672	252,815	66.72%	218,230	215,150	101.43%	225,120	4.63%	234,679	4.25%
Gas	16,808	26,240	64.05%	27,645	20,745	133.26%	21,515	3.71%	22,300	3.65%
Water	4,604	5,350	86.06%	5,925	5,650	104.87%	8,930	58.05%	10,890	21.95%
Trash Service	529	1,050	50.40%	700	1,070	65.42%	1,050	-1.87%	1,075	2.38%
Total Utilities	**190,613**	**285,455**	66.78%	**252,500**	**242,615**	104.07%	**256,615**	5.77%	**268,944**	4.80%

Carmel Area Wastewater District
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2014-15 Operating Expense Budget

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Telephone										
Fixed Costs	9,835	8,935	110.08%	13,640	12,600	108.25%	15,500	23.02%	15,600	0.65%
Long Distance	540	950	56.86%	1,060	1,150	92.17%	650	-43.48%	775	19.23%
Signal Equipment	3,210	4,000	80.25%	3,885	3,300	117.73%	4,500	36.36%	4,600	2.22%
Direct Line to Plant	800	850	94.11%	200	400	50.00%	600	50.00%	600	0.00%
Interplant Lines	1,085	0	n/a	0	0	n/a	0	n/a	0	n/a
Repair to Lines	150	1,000	15.00%	1,000	1,000	100.00%	1,000	n/a	1,000	0.00%
Emergency Computer Lines	172	200	86.23%	0	200	0.00%	200	0.00%	200	0.00%
Cellular Phones	8,777	8,030	109.30%	11,170	9,000	124.11%	11,800	31.11%	12,490	5.85%
Online Services	0	0	n/a	1,665	0	n/a	2,000	n/a	2,000	n/a
Total Telephone	**24,570**	**23,965**	102.52%	**32,620**	**27,650**	117.97%	**36,250**	31.10%	**37,265**	2.80%
Travel & Meetings										
Employee Training	30,477	54,780	55.64%	37,500	48,500	77.32%	52,000	7.22%	51,000	-1.92%
Conferences	25,387	22,630	112.18%	12,040	23,100	52.12%	25,500	10.39%	25,500	0.00%
Business Meetings	2,647	500	529.37%	3,990	1,500	266.00%	1,600	6.67%	1,600	0.00%
Auto Mileage	65	200	32.65%	0	200	0.00%	200	0.00%	200	0.00%
Total Travel & Meetings	**58,576**	**78,110**	74.99%	**53,530**	**73,300**	73.03%	**79,300**	8.19%	**78,300**	-1.26%
Membership/Subscriptions										
Memberships	17,696	12,815	138.09%	20,180	16,410	122.97%	22,040	34.31%	22,040	0.00%
Subscriptions	1,247	1,360	91.72%	1,250	1,360	91.91%	1,950	43.38%	1,950	0.00%
Employee Certification	3,141	2,400	130.88%	3,145	3,200	98.28%	3,960	23.75%	3,960	0.00%
Total Membership/Subscrip.	**22,085**	**16,575**	133.24%	**24,575**	**20,970**	117.19%	**27,950**	33.29%	**27,950**	0.00%
Other Expenses										
MUAPCD Permits	6,241	17,960	n/a	4,455	4,550	97.91%	4,600	1.10%	4,600	-1.09%
Environmental Health Permit	2,420	2,065	117.19%	1,890	2,200	85.91%	2,200	0.00%	2,200	0.00%
Underground Storage Permit	0	0	n/a	0	0	n/a	0	n/a	0	n/a
SWRCB Permits	0	2,435		1,520	1,550		2,000		2,000	
Treatment Plant Permits	57,253	32,340	177.03%	16,020	26,500	60.45%	26,500	0.00%	26,500	0.00%
Lab Registration Fees	2,359	2,900	81.34%	2,385	2,400	99.38%	2,400	0.00%	2,400	0.00%
Other Regulatory Fees	0	0	n/a	0	0	n/a	0	n/a	0	n/a
LAFCo Administration	0	11,815	0.00%	11,335	11,333	100.02%	13,031	14.98%	13,292	-13.03%
Legal Notices	138	3,500	3.94%	1,850	3,500	52.86%	3,500	0.00%	3,600	0.00%
Rate Payer Claims	0	2,000	0.00%	0	2,000	0.00%	2,000	0.00%	2,100	0.00%
Employee Awards Program	2,968	3,000	98.94%	3,050	3,250	93.85%	3,250	0.00%	3,300	0.00%
Recruitment	40,997	19,000	215.78%	2,490	10,000	24.90%	5,000	-50.00%	5,000	100.00%
CAWD Newsletter	23,484	23,100	101.66%	24,000	24,000	100.00%	24,600	2.50%	25,215	-2.44%
Miscellaneous Expense	17,610	35,000	50.31%	23,715	40,000	59.29%	27,000	-32.50%	35,000	48.15%
Employee Incentive/Motivation	0	0	n/a	0	0	n/a	1,440	n/a	1,440	0.00%
Total Other Expense	**153,471**	**155,115**	98.94%	**92,710**	**131,283**	70.62%	**117,521**	-10.48%	**126,647**	7.77%
CAWD Subtotal	**$4,618,840**	**$4,958,699**	93.15%	**$4,981,906**	**$5,303,325**	93.94%	**$5,493,248**	3.58%	**$5,610,199**	2.13%
Reclamation Project	471,670	448,150	105.25%	522,359	481,422	108.50%	516,945	7.38%	527,010	1.95%
Final Subtotal	5,090,510	5,406,849	94.15%	5,504,264	5,784,747	95.15%	6,010,193	3.90%	6,137,209	2.11%
Depreciation Expense	2,444,295	2,471,500	98.90%	2,555,060	2,555,100	100.00%	2,555,100	0.00%	2,555,100	0.00%
Amortization Expense	4,858	4,860	99.97%	4,860	4,860	100.00%	4,860	0.00%	4,860	0.00%
Total Operating Expense	**7,539,663**	**7,883,209**	95.64%	**8,064,184**	**8,344,707**	96.64%	**8,570,153**	2.70%	**8,697,169**	1.48%

Carmel Area Wastewater District
Collections Department: 2014 - 2015 Operating Expense Budget

Description	Acct	2012-13 Actual	2012-13 Budget	2012-13 % of Budget	Estimated 2013-14 Actual	Estimated 2013-14 Budget	Estimated 2013-14 % of Budget	Proposed 2014-15 Budget	% Chg. Prior Yr. Budget	Projected 2015-16 Budget	% Chg. Prior Yr. Budget
Salaries	5010	301,899	353,167	85.48%	315,810	355,815	88.76%	341,765	-3.95%	357,010	4.46%
Salaries - Overtime	5020	1,648	7,200	22.88%	12,580	7,200	174.72%	7,200	0.00%	7,200	0.00%
Salaries - Standby	5030	13,000	13,000	100.00%	13,795	13,000	106.12%	14,560	12.00%	14,560	0.00%
Total Salaries		**316,547**	**373,367**	84.78%	**342,185**	**376,015**	91.00%	**363,525**	-3.32%	**378,770**	4.19%
Payroll Taxes	5150	26,478	28,500	92.91%	26,180	28,850	90.74%	27,810	-3.61%	28,975	4.19%
Employee Benefits:											
Workers Compensation	5164	2,825	11,875	23.79%	18,065	11,525	156.74%	11,300	-1.95%	11,075	-1.99%
Retirement Plan - CalPERS	5.62	47,851	52,430	91.27%	40,555	52,475	77.28%	43,950	-16.25%	45,095	2.61%
Pension Contribution - SAM	5.63	54,492	59,160	92.11%	62,635	59,160	105.87%	32,680	-44.76%	32,680	0.00%
Medical Insurance - Premium	5165	50,828	50,125	101.40%	50,020	72,585	68.91%	59,175	-18.47%	63,615	7.50%
Medical Claims/HSA	5166	403	0	n/a	4,310	5,000	n/a	3,900	-22.00%	4,195	7.56%
Medical Acct Fees	5167	(324)	900	-35.94%	0	420	0.00%	420	0.00%	420	0.00%
Life Insurance	5168	1,393	1,400	99.51%	1,755	1,530	114.72%	1,655	8.17%	1,705	3.00%
Dental Insurance/Claims	5173	5,278	12,000	43.98%	5,660	11,500	49.22%	6,500	-43.48%	6,695	3.00%
Vision Insurance	5174	1,357	1,510	89.86%	1,495	1,590	94.05%	1,495	-5.97%	1,540	3.00%
HSA Contribution	5175	0	0	n/a	1,500	0	n/a	0	n/a	0	n/a
FSA Contribution	5177	3,301	0	n/a	370	0	n/a	0	n/a	0	n/a
Unemployment Insurance	5178	0	0	n/a	0	0	n/a	0	n/a	0	n/a
Long Term Disability Ins.	5176	2,785	3,260	85.43%	2,855	3,220	88.67%	3,250	0.93%	3,350	3.06%
Employee Assistance Program	5180	873	900	97.00%	1,375	875	157.13%	825	-5.71%	825	0.00%
PEHP	5169	26,058	3,600	723.85%	4,455	3,670	121.38%	3,420	-6.81%	3,670	7.31%
Tuition Reimbursement		0	0	n/a	0	0	n/a	0	n/a	0	n/a
Total Employee Benefits		**197,120**	**197,160**	99.98%	**195,050**	**223,550**	87.25%	**168,570**	-24.59%	**174,864**	3.73%
Property/Liability Insurance											
Property Insurance	5210	6,250	6,250	100.00%	6,410	5,830	109.95%	7,040	20.75%	7,740	9.94%
General Liability	5210	18,453	12,375	149.11%	11,780	13,615	86.52%	11,540	-15.24%	12,690	9.97%
Total Insurance		**24,703**	**18,625**	132.63%	**18,190**	**19,445**	93.55%	**18,580**	-4.45%	**20,430**	9.96%
Trucks & Autos											
Gasoline	5310	5,375	6,800	79.04%	8,500	9,450	89.95%	9,000	-4.76%	8,700	-3.33%
Diesel	5311	15,296	10,000	152.96%	18,900	22,400	84.38%	22,000	-1.79%	21,500	-2.27%
Oil & Grease	5315	112	220	50.78%	1,700	220	772.73%	1,000	354.55%	1,000	0.00%
Tires, Batteries, Service	5320	3,643	2,000	182.16%	8,500	9,700	87.63%	6,900	-28.87%	6,900	0.00%
Repair Parts	5322	4,339	3,500	123.97%	14,200	14,250	99.65%	14,500	1.75%	14,500	0.00%
Paint, Coolant, Cleaner	5324	0	350	0.00%	300	350	85.71%	300	-14.29%	300	0.00%
Tools	5326	4,724	200	2361.86%	475	200	237.50%	6,000	2900.00%	400	-93.33%
Medical Exams/First Aid	5330	0	400	0.00%	440	550	80.00%	500	-9.09%	500	0.00%
Waste Oil Disposal	5334	0	100	0.00%	0	100	0.00%	100	0.00%	100	0.00%
Smog Check - Vehicles	5336	150	450	33.33%	170	350	48.57%	300	-14.29%	350	16.67%
DMV fees	5337	0	0	n/a	40	0	n/a	50	n/a	50	n/a
DATCO Drug Testing	5338	644	650	99.03%	650	650	100.00%	970	49.23%	970	0.00%

Carmel Area Wastewater District
Collections Department: 2014 - 2015 Operating Expense Budget

Description	Acct	2012-13 Actual	2012-13 Budget	2012-13 % of Budget	Estimated 2013-14 Actual	Estimated 2013-14 Budget	Estimated 2013-14 % of Budget	Proposed 2014-15 Budget	% Chg. Prior Yr. Budget	Projected 2015-16 Budget	% Chg. Prior Yr. Budget
Cleaning & detailing	5339	0	0	n/a	55	0	n/a	240	n/a	240	n/a
Total Trucks & Autos		**34,281**	**24,670**	138.96%	**53,930**	**58,220**	92.63%	**61,860**	6.25%	**55,510**	-10.27%
Office Supplies & Service											
Postage	5341	0	100	0.00%	50	100	50.00%	0	-100.00%	0	n/a
Duplicating Supplies	5342	0	0	n/a	105	0	n/a	200	n/a	200	0.00%
Stationery & Printing	5343	155	300	51.75%	300	325	92.31%	425	30.77%	450	5.88%
Data Processing Supplies	5344	2,865	2,000	143.26%	7,500	7,400	101.35%	7,500	1.35%	7,500	0.00%
General Office Supplies	5345	3,394	600	565.73%	800	700	114.29%	700	0.00%	1,000	42.86%
Data Processing Repairs	5346	616	0	n/a	0	300	n/a	500	66.67%	500	0.00%
Data Processing software	5347	88	0	n/a	0	0	n/a	0	n/a	0	n/a
Total Office Supplies & Svc.		**7,119**	**3,000**	237.29%	**8,755**	**8,825**	99.21%	**9,325**	5.67%	**9,650**	3.49%
Operating Supplies											
Chemicals	5351	5	0	n/a	11,500	12,500	92.00%	0	n/a	0	n/a
Lubricants & Packing	5352	0	75	0.00%	65	75	86.67%	0	-100.00%	0	n/a
Electrical Supplies	5353	0	100	0.00%	50	100	50.00%	0	-100.00%	0	n/a
Paint	5355	191	250	76.25%	200	275	72.73%	150	-45.45%	150	0.00%
Janitorial Supplies	5357	0	300	0.00%	150	300	50.00%	100	-66.67%	100	0.00%
Personnel Supplies	5359	2,769	2,100	131.86%	2,500	2,500	100.00%	3,000	20.00%	3,250	8.33%
Hand Tools	5361	342	500	68.47%	750	500	150.00%	5,900	1080.00%	1,500	-74.58%
Welding Supplies	5363	0	40	0.00%	35	40	87.50%	0	-100.00%	0	n/a
General Operating Supplies	5365	20,843	15,000	138.95%	19,500	22,000	88.64%	26,000	18.18%	24,000	-7.69%
Safety & Training	5367	1,639	1,500	109.26%	1,500	1,000	150.00%	2,000	100.00%	2,000	0.00%
Total Operating Supplies		**25,789**	**19,865**	129.82%	**36,250**	**39,290**	92.26%	**37,150**	-5.45%	**31,000**	-16.55%
Safety											
First Aid Supplies	5356	190	200	95.24%	150	250	60.00%	200	-20.00%	200	0.00%
Fire Extinguisher Service	5415	238	500	47.60%	275	500	55.00%	400	-20.00%	400	0.00%
First Aid/Medical Services	5422	0	700	n/a	600	700	85.71%	300	-57.14%	300	0.00%
Laundry	5660	3,404	4,200	81.05%	4,000	4,400	90.91%	5,100	15.91%	5,253	3.00%
Total Safety Supplies/Svcs		**3,833**	**5,600**	68.44%	**5,025**	**5,850**	85.90%	**6,000**	2.56%	**6,153**	2.55%
Contractual Services											
Power Signal-CSD Standby	5403	1,087	1,165	93.32%	1,200	1,300	92.31%	1,200	-7.69%	1,200	0.00%
Contractual Services	5406	0	5,000	0.00%	56,000	105,000	53.33%	52,800	-49.71%	86,000	62.88%
Grit & Screening Disposal	5407	0	200	0.00%	100	200	50.00%	0	-100.00%	0	n/a
Calibration	5411	0	100	n/a	0	100	n/a	0	n/a	0	n/a
Radio Servicing	5413	1,958	0	n/a	0	0	n/a	0	n/a	0	n/a
Pager Service	5420	158	190	83.15%	20	190	10.53%	0	-100.00%	0	n/a
Network Administration	5423	11,126	10,000	111.26%	6,985	7,000	99.79%	13,000	85.71%	13,000	0.00%
Hazardous Waste Disposal	5430	0	500	0.00%	0	400	0.00%	0	-100.00%	0	n/a
Underground Service Alert	5432	269	300	89.52%	320	325	98.46%	350	7.69%	350	0.00%
Pump Station Monitoring	5405	2,432	2,100	115.80%	2,435	2,435	100.00%	2,500	2.67%	2,500	0.00%
Fleet Management	5412	2,317	8,000	28.97%	2,350	8,000	29.38%	0	-100.00%	0	n/a

Carmel Area Wastewater District
Collections Department: 2014 - 2015 Operating Expense Budget

Description	Acct	2012-13 Actual	2012-13 Budget	2012-13 % of Budget	Estimated 2013-14 Actual	Estimated 2013-14 Budget	Estimated 2013-14 % of Budget	Proposed 2014-15 Budget	% Chg. Prior Yr. Budget	Projected 2015-16 Budget	% Chg. Prior Yr. Budget
Total Contractual Services		**19,347**	**27,555**	70.21%	**69,410**	**124,950**	55.55%	**69,850**	-44.10%	**103,050**	47.53%
Engineering Fees											
Consulting Fees	5440	0	25,000	n/a	35,000	35,000	n/a	35,000	0.00%	35,000	0.00%
Total Engineering Fees		**0**	**25,000**	n/a	**35,000**	**35,000**	n/a	**35,000**	0.00%	**35,000**	0.00%
Attorney Fees											
Legal Fees	5450	0	0	n/a	0	0	n/a	0	n/a	0	n/a
Total Attorney Fees		**0**	**0**	n/a	**0**	**0**	n/a	**0**	n/a	**0**	n/a
Repairs & Maintenance											
Easement clearing	5560	4,750	0	n/a	0	0	n/a	5,000	n/a	5,000	n/a
Pump Station Equipment	5561	147	2,100	7.01%	1,900	2,000	95.00%	8,000	300.00%	2,000	-75.00%
Collection Line Repairs	5562	1,051	7,500	14.02%	56,000	57,500	97.39%	30,000	-47.83%	30,000	0.00%
Manhole Repairs	5563	0	3,000	0.00%	1,000	3,000	33.33%	9,500	216.67%	3,000	-68.42%
Other Repairs	5564	2,528	750	n/a	550	1,500	n/a	2,500	66.67%	2,000	-20.00%
Pump Station Repairs:											
Monte Verde & 16th	5566	0	200	0.00%	200	200	100.00%	300	50.00%	300	0.00%
Scenic & 8th	5567	263	300	87.82%	300	400	75.00%	300	-25.00%	300	0.00%
Bay & Scenic	5568	0	200	0.00%	0	200	0.00%	9,800	4800.00%	300	-96.94%
Hacienda Carmel	5569	5,576	2,300	242.42%	1,000	1,000	100.00%	300	-70.00%	300	0.00%
Calle La Cruz	5570	450	300	149.99%	4,750	400	1187.50%	300	-25.00%	300	0.00%
Highlands	5572	253	8,000	3.16%	4,000	8,000	50.00%	400	-95.00%	400	0.00%
Total Maint & Repairs		**15,019**	**24,650**	60.93%	**69,700**	**74,200**	93.94%	**66,400**	-10.51%	**43,900**	-33.89%
Utilities											
Electricity											
8th Ave	5611	1,080	1,600	67.47%	1,250	1,200	104.17%	1,400	16.67%	1,472	5.14%
Bay & Scenic	5612	1,753	1,425	123.02%	2,400	1,900	126.32%	2,200	15.79%	2,310	5.00%
Monte Verde & 16th	5613	1,486	1,100	135.11%	2,000	1,500	133.33%	2,000	33.33%	2,102	5.10%
Calle La Cruz	5614	3,137	3,480	90.14%	3,800	3,800	100.00%	3,900	2.63%	4,095	5.00%
Hacienda	5616	1,104	980	112.65%	1,500	1,500	100.00%	1,550	3.33%	1,630	5.13%
Highlands	5617	8,752	6,480	135.06%	10,700	9,000	118.89%	10,000	11.11%	10,500	5.00%
Total Electricity		**17,312**	**15,065**	114.91%	**21,650**	**18,900**	114.55%	**21,050**	11.38%	**22,109**	5.03%
Gas-	5620	375	520	72.19%	370	570	64.91%	570	0.00%	570	0.00%
Propane	5621	41	650	6.33%	475	675	70.37%	650	-3.70%	650	0.00%
Water											
8th Ave	5631	158	175	90.18%	200	200	100.00%	220	10.00%	240	9.09%
Bay & Scenic	5632	170	175	97.01%	200	200	100.00%	220	10.00%	240	9.09%
Monte Verde & 16th	5633	159	175	90.89%	200	200	100.00%	220	10.00%	240	9.09%
Calle La Cruz	5634	225	175	128.78%	200	200	100.00%	220	10.00%	240	9.09%
Highlands	5635	293	255	114.93%	275	275	100.00%	300	9.09%	330	10.00%
Total Water		**1,005**	**955**	105.24%	**1,075**	**1,075**	100.00%	**1,180**	9.77%	**1,290**	9.32%

Carmel Area Wastewater District
Collections Department: 2014 - 2015 Operating Expense Budget

Description	Acct	2012-13 Actual	2012-13 Budget	2012-13 % of Budget	Estimated 2013-14 Actual	Estimated 2013-14 Budget	Estimated 2013-14 % of Budget	Proposed 2014-15 Budget	% Chg. Prior Yr. Budget	Projected 2015-16 Budget	% Chg. Prior Yr. Budget
Garbage	5430	0	**500**	0.00%	0	**500**	0.00%	**400**	-20.00%	**400**	0.00%
Telephone- No Increase											
Fixed Costs	5641	1,441	600	240.20%	2,500	800	312.50%	2,500	212.50%	2,000	-20.00%
Long Distance	5642	27	100	27.39%	100	100	100.00%	0	-100.00%	0	n/a
Signal Equipment	5643	3,210	4,000	80.25%	3,200	3,300	96.97%	3,400	3.03%	3,400	0.00%
Cellular Phones	5650	1,980	1,600	123.73%	3,300	1,600	206.25%	3,450	115.63%	3,590	4.06%
Total Telephone		**6,658**	**6,300**	105.69%	**9,100**	**5,800**	156.90%	**9,350**	61.21%	**8,990**	-3.85%
Total Utilities		**25,392**	**23,990**	105.84%	**32,670**	**27,520**	118.71%	**33,200**	20.64%	**34,009**	2.44%
Travel & Meetings											
Employee Training	5671	7,594	3,780	200.91%	10,000	10,000	100.00%	10,000	0.00%	10,000	0.00%
Conferences	5672	3,153	3,780	83.41%	3,000	3,600	83.33%	6,000	66.67%	6,000	0.00%
Business meetings	5673	153	0	n/a	275	0	n/a	100	n/a	100	n/a
Total Travel & Meetings		**10,900**	**7,560**	144.18%	**13,275**	**13,600**	97.61%	**16,100**	18.38%	**16,100**	0.00%
Membership/Subscriptions											
Memberships - WEF	5711	290	750	38.67%	400	520	76.92%	300	-42.31%	300	0.00%
Employee Certification	5712	475	400	118.75%	570	600	95.00%	460	-23.33%	460	0.00%
Maint. Superintendent Assoc.	5715	60	60	100.00%	0	60	0.00%	0	-100.00%	0	n/a
C.W.E.A. Membership	5718	140	160	n/a	150	160	93.75%	670	318.75%	670	0.00%
Water Environment Federation	5719	228	0	n/a	250	0	n/a	0	n/a	0	n/a
Total Membership/Subscrip.		**1,193**	**1,370**	87.08%	**1,370**	**1,340**	102.24%	**1,430**	6.72%	**1,430**	0.00%
Other Expenses											
SWRCB Permits	5850	0	2,435	0.00%	1,520	1,550	98.06%	2,000	29.03%	2,000	0.00%
MUAPCD Permits	5850	3,841	2,495	153.95%	2,450	2,450	100.00%	2,500	2.04%	2,500	0.00%
Recruitment/HR Consulting	5860	12,041	3,000	n/a	690	5,000	13.80%	0	-100.00%	0	n/a
Employee Incentive/Motivation		0	0	n/a	0	0	n/a	300	n/a	300	0.00%
Total Other Expense		**15,882**	**7,930**	200.28%	**4,660**	**9,000**	51.78%	**4,800**	-46.67%	**4,800**	0.00%
Subtotal Operating Expense		**$723,602**	**$788,842**	91.73%	**$911,650**	**$1,045,655**	87.18%	**$919,599**	-12.06%	**$943,641**	2.61%
Depreciation Expense	5900	310,771	325,000	95.62%	325,000	325,000	100.00%	325,000	0.00%	325,000	0.00%
Total Operating Expense		**1,034,373**	**1,113,842**	92.87%	**1,236,650**	**1,370,655**	90.22%	**1,244,599**	-9.20%	**1,268,641**	1.93%

Carmel Area Wastewater District
Treatment and Disposal: 2014-15
Operating Expense Budget

Description	Acct	2012-13 Actual	2012-13 Budget	2012-13 % of Budget	Estimated 2013-14 Actual	Estimated 2013-14 Budget	Estimated 2013-14 % of Budget	Proposed 2014-15 Budget	% Chg. Prior Yr. Budget	Projected 2015-16 Budget	% Chg. Prior Yr Budget
Salaries	6010	984,041	1,225,997	80.26%	964,930	1,268,045	76.10%	1,373,950	8.35%	1,428,645	3.98%
Salaries - Overtime	6020	24,463	70,000	34.95%	42,400	70,000	60.57%	70,000	0.00%	70,000	0.00%
Salaries - Standby	6030	26,036	26,000	100.14%	26,000	26,000	100.00%	29,120	12.00%	29,120	0.00%
Allocation to MF\RO Operations			(281,750)			(285,000)	0.00%	(285,000)	0.00%	(290,000)	1.75%
Total Salaries		**1,034,539**	**1,040,247**	99.45%	**1,033,330**	**1,079,045**	95.76%	**1,188,070**	10.10%	**1,237,765**	4.18%
Payroll Taxes	6150	96,420	100,540	95.90%	81,400	103,210	78.87%	90,755	-12.07%	94,205	3.80%
Allocation to Reclamation			(21,553)	0.00%		(21,805)	0.00%		-100.00%		n/a
Total Payroll Taxes		**96,420**	**78,987**	122.07%	**81,400**	**81,405**	99.99%	**90,755**	11.49%	**94,205**	3.80%
Employee Benefits:											
Workers Compensation	6161	8,733	33,400	26.15%	38,445	46,030	83.52%	44,125	-4.14%	45,892	4.00%
Retirement Plan - CalPERS	6162	168,707	180,525	93.45%	182,600	186,060	98.14%	184,123	-1.04%	182,760	-0.74%
Pension Contribution - SAM	6163	210,192	194,160	108.26%	186,800	194,160	96.21%	136,895	-29.49%	136,895	0.00%
Medical Insurance - Premium	6165	109,735	119,536	91.80%	156,600	156,600	100.00%	178,770	14.16%	192,180	7.50%
Medical Claims/HSA/FSA	6166	26,580	26,000	102.23%	26,580	26,000	102.23%	20,475	-21.25%	22,010	7.50%
Medical Acct Fees	6167	(2,461)	2,700	-91.15%	0	1,175	0.00%	800	-31.91%	800	0.00%
Life Insurance	6168	4,540	4,150	109.41%	4,250	4,580	92.79%	4,580	0.00%	4,580	0.00%
Dental Insurance/Claims	6172	22,879	23,000	99.47%	19,800	23,000	86.09%	23,000	0.00%	23,000	0.00%
Vision Insurance	6174	4,311	4,525	95.27%	4,500	4,560	98.68%	4,785	4.93%	4,785	0.00%
Unemployment Insurance	6178	0	0	n/a	0	0	n/a	0	n/a	0	n/a
Long Term Disability	6176	10,477	11,380	92.06%	12,400	11,450	108.30%	11,370	-0.70%	11,900	4.66%
Employee Assistance Program	6180	2,079	2,100	99.00%	2,395	2,435	98.36%	2,470	1.44%	2,595	5.06%
PEHP	6169	62,922	12,580	500.17%	16,000	12,840	124.61%	14,200	10.59%	14,745	3.84%
Tuition Reimbursement		0	0	n/a	0	0	n/a	0	n/a	0	n/a
Allocate to Reclamation	6199	(144,949)	(119,322)	121.48%	(120,695)	(120,695)	100.00%	(142,500)	18.07%	(145,000)	1.75%
Total Employee Benefits		**483,745**	**494,734**	97.78%	**529,675**	**548,195**	96.62%	**483,093**	-11.88%	**497,141**	2.91%
Property/Liability Insurance											
Property Insurance	6210	15,000	12,400	120.97%	11,275	13,640	82.66%	13,640	0.00%	14,325	5.02%
General Liability	6210	56,291	39,950	140.90%	35,535	35,535	100.00%	35,535	0.00%	37,315	5.01%
Total Insurance		**71,291**	**52,350**	136.18%	**46,810**	**49,175**	95.19%	**49,175**	0.00%	**51,640**	5.01%
Trucks & Autos											
Gasoline	6310	4,355	2,620	166.21%	4,435	2,725	162.75%	4,600	68.81%	4,635	0.76%
Diesel	6311	207	1,200	17.25%	1,250	1,250	100.00%	1,250	0.00%	1,290	3.16%
Oil & Grease	6315	230	200	114.90%	865	200	432.50%	1,475	637.50%	1,520	3.07%
Tires, Batteries, Service	6320	1,296	300	431.88%	600	600	100.00%	1,000	66.67%	1,000	0.00%

Carmel Area Wastewater District
Treatment and Disposal: 2014-15
Operating Expense Budget

Description	Acct	2012-13 Actual	2012-13 Budget	2012-13 % of Budget	Estimated 2013-14 Actual	Estimated 2013-14 Budget	Estimated 2013-14 % of Budget	Proposed 2014-15 Budget	% Chg. Prior Yr. Budget	Projected 2015-16 Budget	% Chg. Prior Yr Budget
Repair Parts	6322	6,518	2,500	260.72%	4,000	4,000	100.00%	4,000	0.00%	4,000	0.00%
Paint, Coolant, Cleaner	6324	0	0	n/a	205	0	n/a	0	n/a	0	n/a
Tools	6326	0	250	0.00%	120	250	48.00%	5,000	1900.00%	2,000	-60.00%
Medical Exams - Drivers	6330	0	0	n/a	0	0	n/a	0	n/a	0	n/a
Radio Servicing	6332	92	0	n/a	0	0	n/a	0	n/a	0	n/a
Smog Check - Vehicles	6336	150	200	75.00%	150	200	75.00%	250	25.00%	250	0.00%
DATCO Drug Testing	6338	0	0	n/a	55	0	n/a	50	n/a	50	0.00%
Cleaning & detailing	6339	326	0	n/a	100	0	n/a	500	n/a	500	0.00%
Total Trucks & Autos		**13,173**	**7,270**	181.20%	**11,780**	**9,225**	127.70%	**18,125**	96.48%	**15,245**	-15.89%
Office Supplies & Service											
Postage	6341	451	500	90.21%	200	250	80.00%	500	100.00%	500	0.00%
Copier Supplies	6342	0	0		190	0	n/a	200	n/a	200	0.00%
Stationery & Printing	6343	183	200	91.31%	500	200	250.00%	600	200.00%	600	0.00%
Data Processing Supplies	6344	11,575	4,800	241.14%	21,500	15,000	143.33%	25,300	68.67%	24,000	-5.14%
Other Office Supplies	6345	5,078	2,700	188.06%	3,500	6,000	58.33%	2,000	-66.67%	2,500	25.00%
Data Processing Repairs	6346	6,752	2,500	270.08%	0	7,500	0.00%	2,500	-66.67%	2,500	0.00%
Total Office Supplies & Svc.		**24,038**	**10,700**	224.66%	**25,890**	**28,950**	89.43%	**31,100**	7.43%	**30,300**	-2.57%
Operating Supplies											
Chemicals	6351	116,599	145,500	80.14%	128,500	139,000	92.45%	140,000	0.72%	145,000	3.57%
Seals & Packing	6352	3,776	1,500	251.77%	1,500	1,500	100.00%	7,500	400.00%	7,750	3.33%
Microturbine parts/supplies	6360	0	3,400	0.00%	3,400	3,400	100.00%	3,400	0.00%	3,600	5.88%
Electrical Supplies	6353	4,169	10,000	41.69%	5,000	10,000	50.00%	10,000	0.00%	10,000	0.00%
Laboratory Supplies	6354	13,163	23,600	55.78%	23,000	23,600	97.46%	25,600	8.47%	26,400	3.13%
Fluids/Paint/Cleaner	6355	0	12,000	0.00%	6,000	12,000	50.00%	12,000	0.00%	12,500	4.17%
Janitorial Supplies	6357	131	500	26.23%	500	500	100.00%	600	20.00%	600	0.00%
Standby Generator Fuel	6358	0	1,000	0.00%	500	1,000	50.00%	4,800	380.00%	4,800	0.00%
Personnel Supplies	6359	9,944	7,750	128.31%	7,000	10,000	70.00%	8,500	-15.00%	8,500	0.00%
Tools	6361	11,993	10,500	114.22%	11,000	12,300	89.43%	8,500	-30.89%	8,500	0.00%
Welding Supplies	6363	462	350	131.97%	200	400	50.00%	400	0.00%	400	0.00%
General Operating Supplies	6365	25,042	10,250	244.31%	28,300	22,000	128.64%	25,000	13.64%	25,000	0.00%
Source Control	6369	0	200	0.00%	200	200	100.00%	200	0.00%	200	0.00%
Total Operating Supplies		**185,280**	**226,550**	81.78%	**215,100**	**235,900**	91.18%	**246,500**	4.49%	**253,250**	2.74%
Safety											
First Aid Supplies	6356	57	600	9.50%	2,000	600	333.33%	500	-16.67%	500	0.00%
Safety Supplies/Emerg Response	6367	8,584	5,000	171.68%	18,000	8,040	223.88%	3,465	-56.90%	1,100	-68.25%
Uniforms/Boots/Gear	6660	9,560	7,675	124.56%	10,215	10,215	100.00%	10,525	3.03%	10,900	3.56%

Carmel Area Wastewater District
Treatment and Disposal: 2014-15
Operating Expense Budget

Description	Acct	2012-13 Actual	2012-13 Budget	2012-13 % of Budget	Estimated 2013-14 Actual	Estimated 2013-14 Budget	Estimated 2013-14 % of Budget	Proposed 2014-15 Budget	% Chg. Prior Yr. Budget	Projected 2015-16 Budget	% Chg. Prior Yr Budget
Emergency Response Supplies	6368	0	0	n/a	0	0	n/a	3,955	n/a	3,885	-1.77%
Safety Training	6370	0	0	n/a	0	0	n/a	6,865	n/a	5,425	-20.98%
Fire Extinguisher Service	6415	680	1,000	68.00%	1,000	1,000	100.00%	1,000	0.00%	1,000	0.00%
First Aid/Medical Services	6422	1,297	500	259.44%	850	500	170.00%	500	0.00%	500	0.00%
Total Safety Expenses		**20,178**	**14,775**	136.57%	**32,065**	**20,355**	157.53%	**26,810**	31.71%	**23,310**	-13.05%
Contractual Services											
Sludge Haul/Disposal	6401	86,735	91,000	95.31%	104,000	102,670	101.30%	102,670	0.00%	102,670	0.00%
Alarm System	6403	123	1,450	8.48%	650	1,500	43.33%	1,450	-3.33%	1,500	3.45%
Pest Control	6404	0	0	n/a	575	0	n/a	1,200	n/a	1,200	0.00%
Instrumentation Services	6405	0	6,250	0.00%	6,200	6,250	99.20%	6,250	0.00%	6,250	0.00%
Grit & Screening Disposal	6407	7,831	7,500	104.41%	6,500	7,500	86.67%	8,000	6.67%	8,250	3.13%
Laboratory Analysis	6409	28,581	24,000	119.09%	28,000	30,000	93.33%	30,000	0.00%	30,000	0.00%
Calibration	6411	400	1,000	40.00%	1,000	1,000	100.00%	1,000	0.00%	1,000	0.00%
Equip rent - generator	6416	0	0	n/a	9,700	0	n/a	7,000	n/a	7,000	0.00%
Pager Service	6420	316	350	90.29%	200	350	57.14%	0	-100.00%	0	n/a
Network Adminstration	6423	13,436	26,000	51.68%	32,000	26,000	123.08%	40,435	55.52%	41,000	1.40%
Janitorial Service	6424	5,040	5,400	93.33%	5,400	5,400	100.00%	6,600	22.22%	6,600	0.00%
Plant Safety Officer	6424	1,590	0	n/a	800	0	n/a	0	n/a	0	n/a
Copier Service	6426	871	1,600	54.44%	1,250	1,600	78.13%	1,600	0.00%	1,600	0.00%
Plant Rehabilitation	6427	0	100,000	0.00%	0	100,000	0.00%	100,000	0.00%	100,000	0.00%
Ocean Monitoring Program	6429	12,096	23,000	52.59%	16,100	23,000	70.00%	23,000	0.00%	23,000	0.00%
Landscape Maintenance	6430	9,023	10,000	90.23%	4,250	20,000	21.25%	15,000	-25.00%	16,000	6.67%
Hazard/Green Waste Disposal	6432	583	2,000	29.16%	2,000	2,000	100.00%	1,000	-50.00%	2,000	100.00%
Boiler Servicing	6436	0	1,000	0.00%	500	1,000	50.00%	1,000	0.00%	1,000	0.00%
Hoist Certification	6437	960	1,000	96.00%	600	1,000	60.00%	1,000	0.00%	1,000	0.00%
Fleet Maintenance	6412	0	1,000	0.00%	0	1,000	0.00%	0	-100.00%	1,000	n/a
Microturbine Service	6435	13,231	13,810	95.81%	27,615	13,810	199.96%	14,000	1.38%	14,000	0.00%
Total Contractual Services		**180,816**	**316,360**	57.16%	**247,340**	**344,080**	71.88%	**361,205**	4.98%	**365,070**	1.07%
Engineering Fees											
Consulting Fees	6441	223,168	135,000	165.31%	150,000	150,000	100.00%	150,000	0.00%	150,000	0.00%
Total Engineering Fees		**223,168**	**135,000**	165.31%	**150,000**	**150,000**	100.00%	**150,000**	0.00%	**150,000**	0.00%
Attorney Fees											
Legal Fees	6450	7,511	4,000	187.78%	4,500	4,500	100.00%	6,000	33.33%	6,000	0.00%
Total Attorney Fees		**7,511**	**4,000**	187.78%	**4,500**	**4,500**	100.00%	**6,000**	33.33%	**6,000**	0.00%

Carmel Area Wastewater District
Treatment and Disposal: 2014-15
Operating Expense Budget

Description	Acct	2012-13 Actual	2012-13 Budget	2012-13 % of Budget	Estimated 2013-14 Actual	Estimated 2013-14 Budget	Estimated 2013-14 % of Budget	Proposed 2014-15 Budget	% Chg. Prior Yr. Budget	Projected 2015-16 Budget	% Chg. Prior Yr Budget
Repairs & Maintenance											
General Repairs	6511	112,780	285,000	39.57%	195,000	250,000	78.00%	325,000	30.00%	325,000	0.00%
Electric Motors	6512	6,258	3,000	208.59%	1,900	3,000	63.33%	6,000	100.00%	6,000	0.00%
Microturbine R & M	6520	4,033	2,000	201.65%	2,000	2,500	80.00%	5,000	100.00%	5,000	0.00%
Centrifugal Pumps	6530	95	500	18.93%	6,805	500	1361.00%	1,000	100.00%	1,000	0.00%
Prog. Cav. Pumps	6532	0	1,000	0.00%	900	1,000	90.00%	2,000	100.00%	2,000	0.00%
Standby Generator	6536	1,391	2,000	69.57%	28,715	2,000	1435.75%	4,000	100.00%	4,000	0.00%
Control Panels	6513	1,988	3,000	66.27%	3,000	3,000	100.00%	6,000	100.00%	6,000	0.00%
Instruments	6514	515	3,000	17.16%	3,000	3,000	100.00%	6,000	100.00%	6,000	0.00%
Boiler Repairs	6538	3,662	1,000	366.15%	420	1,000	42.00%	2,000	100.00%	2,000	0.00%
Lab Equipment	6515	608	1,500	40.53%	12,220	1,500	814.67%	3,000	100.00%	7,100	136.67%
Headworks - Primary	6540	6,799	3,500	194.26%	6,650	3,500	190.00%	7,000	100.00%	7,000	0.00%
IPS/EPS/DAF	6516	1,263	3,250	38.86%	3,200	3,250	98.46%	6,500	100.00%	6,500	0.00%
Chlorine/Dechlorinator	6517	3,949	9,000	43.88%	14,200	9,000	157.78%	10,000	11.11%	10,000	0.00%
Dewatering/DIG	6518	6,324	1,000	632.42%	315	1,000	31.50%	2,000	100.00%	2,000	0.00%
Plant Pumps	6519	1,888	4,000	47.19%	70,690	4,000	1767.25%	8,000	100.00%	8,000	0.00%
Aeration - Secondary	6525	14,036	4,500	311.90%	7,350	4,500	163.34%	9,000	100.00%	9,000	0.00%
Demolition	6555	9,022	0	n/a	0	0	n/a	50,000	n/a	50,000	0.00%
Total Maint & Repairs		**174,610**	**327,250**	53.36%	**356,365**	**292,750**	121.73%	**452,500**	54.57%	**456,600**	0.91%
Utilities											
Electricity	6640	142,854	233,000	61.31%	187,180	187,180	100.00%	194,670	4.00%	203,000	4.28%
less Secondary Costs attributable to Recl									n/a		n/a
Gas	6620	14,533	23,220	62.59%	25,000	17,590	142.13%	18,295	4.01%	19,000	3.86%
Co-Gen	6621	4,807	1,500	320.44%	4,800	5,000	96.00%	5,200	4.00%	5,200	0.00%
Water	6630	2,563	3,145	81.50%	3,250	3,145	103.34%	6,000	90.78%	7,500	25.00%
Total Utilities		**164,757**	**260,865**	63.16%	**220,230**	**212,915**	103.44%	**224,165**	5.28%	**234,700**	4.70%
Telephone											
Fixed Costs	6641	3,343	4,885	68.43%	4,140	5,000	82.80%	6,000	20.00%	6,500	8.33%
Long Distance	6642	490	750	65.36%	800	950	84.21%	500	-47.37%	600	20.00%
Direct Line to Plant	6644	400	400	99.99%	200	400	50.00%	400	0.00%	400	0.00%
Interplant Lines	6645	1,085	0	n/a	0	0	n/a	0	n/a	0	n/a
Repair to Lines	6646	150	1,000	15.00%	1,000	1,000	100.00%	1,000	0.00%	1,000	0.00%
Computer Emergency Lines	6647	172	200	86.23%	0	200	0.00%	200	0.00%	200	0.00%
Cellular Phones	6648	5,323	5,430	98.03%	5,800	6,000	96.67%	6,500	8.33%	7,000	7.69%
Online Services	6649	0	0	n/a	1,665	0	n/a	2,000	n/a	2,000	0.00%
Fire alarm	6650	0	0	n/a	685	0	n/a	1,100	n/a	1,200	9.09%
Total Telephone		**10,963**	**12,665**	86.56%	**14,290**	**13,550**	105.46%	**17,700**	30.63%	**18,900**	6.78%

Carmel Area Wastewater District
Treatment and Disposal: 2014-15
Operating Expense Budget

Description	Acct	2012-13 Actual	2012-13 Budget	2012-13 % of Budget	Estimated 2013-14 Actual	Estimated 2013-14 Budget	Estimated 2013-14 % of Budget	Proposed 2014-15 Budget	% Chg. Prior Yr. Budget	Projected 2015-16 Budget	% Chg. Prior Yr Budget
Travel & Meetings											
Employee Training	6671	18,987	26,000	73.03%	26,000	26,000	100.00%	29,500	13.46%	28,500	-3.39%
Conferences	6672	12,517	3,500	357.63%	4,980	3,500	142.29%	3,500	0%	3,500	0.00%
Business meetings	6673	108	0	n/a	715	0	n/a	0	n/a	0	n/a
Total Travel & Meetings		**31,611**	**29,500**	107.16%	**31,695**	**29,500**	107.44%	**33,000**	11.86%	**32,000**	-3.03%
Membership/Subscriptions											
Memberships	6711	552	1,775	31.10%	475	1,000	47.50%	1,000	0.00%	1,000	0.00%
Employee Certification	6712	2,666	2,000	133.30%	2,575	2,600	99.04%	3,500	34.62%	3,500	0.00%
Subscriptions/Publications	6173	0	700	0.00%	0	700	0.00%	700	0.00%	700	0.00%
Total Membership/Subscrip.		**3,218**	**4,475**	71.91%	**3,050**	**4,300**	70.93%	**5,200**	20.93%	**5,200**	0.00%
Other Expenses											
Environmental Health Permit	6803	2,420	2,065	117.19%	1,890	2,200	85.91%	2,200	0.00%	2,200	0.00%
Underground Storage Permit	6810	0	0	n/a	0	0	n/a	0	n/a	0	n/a
Air Pollution Control Permit	6820	2,400	15,465	15.52%	2,005	2,100	95.48%	2,100	0.00%	2,100	0.00%
Treatment Plant Permits	6830	57,253	32,340	177.03%	16,020	26,500	60.45%	26,500	0.00%	26,500	0.00%
Lab Registration Fees	6840	2,359	2,900	81.34%	2,385	2,400	99.38%	2,400	0.00%	2,400	0.00%
Other Regulatory Fees	6850	0	0	n/a	0	0	n/a	0	n/a	0	n/a
Recruitment	6860	14,324	2,000	716.20%	1,800	5,000	36.00%	5,000	0.00%	5,000	0.00%
Mobile Office Rent	6870	15,145	0	n/a	1,670	0	n/a	0	n/a	0	n/a
Employee Incentive/Motivation		0	0	n/a	0	0	n/a	900	n/a	900	0.00%
Total Other Expense		**93,901**	**54,770**	171.45%	**25,770**	**38,200**	67.46%	**39,100**	2.36%	**39,100**	0.00%
Subtotal Operating Expense		**2,819,219**	**3,070,498**	91.82%	**3,029,290**	**3,142,045**	96.41%	**3,422,498**	8.93%	**3,510,426**	2.57%
Depreciation Expense	6900	2,105,133	2,116,500	99.46%	2,200,000	2,200,000	100.00%	2,200,000	0.00%	2,200,000	0.00%
Total Operating Expense		**4,924,352**	**5,186,998**	94.94%	**5,229,290**	**5,342,045**	97.89%	**5,622,498**	5.25%	**5,710,426**	1.56%

Carmel Area Wastewater District
Administration: 2013-2014 Operating Expense Budget

Description	Acct	2012-13 Actual	2012-13 Budget	2012-13 % of Budget	Estimated 2013-14 Actual	Estimated 2013-14 Budget	Estimated 2013-14 % of Budget	Proposed 2014-15 Budget	% Chg. Prior Yr. Budget	Projected 2015-16 Budget	% Chg. Prior Yr Budget
Salaries	7010	493,621	446,134	110.64%	422,135	426,595	98.95%	476,454	11.69%	497,934	4.51%
Temp Employee			24,840	0.00%		25,760	0.00%		-100.00%		
Allocate to Reclamation O&M			(7,750)	0.00%		(8,000)	0.00%		-100.00%		
Allocate to Reclamation Phase II											
Total Salaries		**493,621**	**463,224**	106.56%	**422,135**	**444,355**	95.00%	**476,454**	7.22%	**497,934**	4.51%
Payroll Taxes	7150	33,821	34,070	99.27%	32,295	34,605	93.32%	33,070	-4.44%	34,090	3.08%
Allocate to Reclamation			(592)	0.00%		(615)	0.00%		-100.00%		
Total Payroll Taxes		**33,821**	**33,477**	101.03%	**32,292**	**33,990**	95.00%	**33,070**	-2.71%	**34,090**	3.08%
Employee Benefits:											
Workers Compensation	7161	3,484	9,000	38.71%	11,430	12,925	88.43%	14,815	14.62%	15,556	5.00%
Retirement Plan - CalPERS	7162	67,956	66,235	102.60%	67,950	67,932	100.03%	63,316	-6.80%	63,737	0.66%
Pension Contribution - SAM	7163	65,865	79,320	83.04%	72,500	79,320	91.40%	46,840	-40.95%	46,840	0.00%
Medical Insurance - Premium	7164	44,916	48,492	92.62%	48,900	51,150	95.60%	55,315	8.14%	59,464	7.50%
Other Medical (i.e. FSA, HSA, flu, etc	7175	6,118	0	n/a	5,000	5,000	100.00%	6,000	20.00%	6,450	7.50%
Medical Acct Fees		0	5,720	n/a		4,500	n/a	0	-100.00%	0	n/a
Life Insurance	7168	1,325	1,100	120.42%	1,200	1,220	98.36%	1,220	0.00%	1,220	0.00%
Dental Insurance/Claims	7.72	13,119	8,500	154.35%	8,700	9,500	91.58%	8,500	-10.53%	8,500	0.00%
Vision Insurance	7.74	1,331	1,210	109.98%	1,200	1,215	98.77%	1,195	-1.65%	1,195	0.00%
Long Term Disability Insurance	7176	3,554	3,400	104.52%	4,000	3,980	100.50%	3,920	-1.51%	4,370	11.48%
Employee Assistance Program	7180	873	900	97.00%	790	875	90.29%	660	-24.57%	690	4.55%
PEHP	7169	49,445	4,580	1079.58%	4,385	4,385	100.00%	4,835	10.26%	5,050	4.45%
Tuition Reimbursement		0	0	n/a	0	0	n/a	5,000	n/a	5,000	0.00%
Allocate to Reclamation	7199	(5,993)	(3,280)	182.72%	(8,200)	(3,385)	242.25%	(3,400)	0.44%	(3,400)	0.00%
Total Employee Benefits		**251,991**	**225,177**	111.91%	**217,855**	**238,617**	91.30%	**208,216**	-12.74%	**214,671**	3.10%
Directors Fees											
Regular Board Meetings	7201	8,250	8,800	93.75%	8,800	8,800	100.00%	8,800	0.00%	8,800	0.00%
Special Board Meetings	7202	2,550	3,200	79.69%	2,600	2,600	100.00%	5,700	119.23%	5,700	0.00%
CASA - Directors fees	7203	300	750	40.00%	1,050	1,050	100.00%	750	-28.57%	1,350	80.00%
PBCSD - Directors fees	7206	1,400	1,750	80.00%	1,750	1,750	100.00%	1,750	0.00%	1,750	0.00%
Committee Meetings	7208	650	800	81.25%	800	800	100.00%	800	0.00%	800	0.00%
Water Reuse Mtgs		0	300	0.00%	0	600	0.00%	300	-50.00%	300	0.00%
Director's Dental Claims	7209	4,325	6,000	72.09%	6,000	6,000	100.00%	6,000	0.00%	6,000	0.00%
Total Directors Fees		**17,475**	**21,600**	80.90%	**21,000**	**21,600**	97.22%	**24,100**	11.57%	**24,700**	2.49%
Property/Liability Insurance											
Property Insurance	7210	1,000	1,000	100.00%	1,100	1,100	100.00%	1,100	0.00%	1,100	0.00%
General Liability	7210	20,663	14,400	143.49%	21,000	14,000	150.00%	21,000	50.00%	21,000	0.00%
Errors & Ommissions	7210	4,800	4,800	100.00%	4,800	4,800	100.00%	4,800	0.00%	4,800	0.00%
Commerical Crime Policy	7210	1,750	1,750	100.00%	1,850	1,850	100.00%	1,850	0.00%	1,850	0.00%

Carmel Area Wastewater District
Administration: 2013-2014 Operating Expense Budget

Description	Acct	2012-13 Actual	2012-13 Budget	2012-13 % of Budget	Estimated 2013-14 Actual	Estimated 2013-14 Budget	Estimated 2013-14 % of Budget	Proposed 2014-15 Budget	% Chg. Prior Yr. Budget	Projected 2015-16 Budget	% Chg. Prior Yr Budget
Total Insurance		**28,213**	**21,950**	128.53%	**28,750**	**21,750**	132.18%	**28,750**	32.18%	**28,750**	0.00%
Trucks & Autos											
Gasoline	7310	366	200	182.92%	200	200	100.00%	200	0.00%	200	0.00%
Oil & Grease	7315	0	0	n/a	0	0	n/a	0	n/a	0	n/a
Tires, Batteries, Service	7320	0	100	0.00%	25	100	25.00%	100	0.00%	100	0.00%
Repair Parts	7324	0	0	n/a	0	50	n/a	50	n/a	50	0.00%
Smog Check - Vehicles	7336	0	40	n/a	0	0	n/a	0	n/a	0	n/a
Cleaning & Detailing	7339	71	0	n/a	30	0	n/a	50	n/a	50	0.00%
Total Trucks & Autos		**437**	**340**	128.44%	**255**	**350**	72.86%	**400**	14.29%	**400**	0.00%
Office Supplies & Service											
Postage	7341	2,402	1,500	160.13%	2,250	2,500	90.00%	2,000	-20.00%	2,000	0.00%
Duplicating Supplies	7342	280	0	n/a	200	150	n/a	200	n/a	200	0.00%
Stationery & Printing	7343	1,538	3,000	51.27%	2,400	3,000	80.00%	3,000	0.00%	3,000	0.00%
Data Processing Supplies	7344	23,664	6,000	394.40%	9,500	6,000	158.33%	16,500	175.00%	7,500	-54.55%
Other Office Supplies	7345	5,296	2,500	211.84%	2,550	2,500	102.00%	2,750	10.00%	2,750	0.00%
Total Office Supplies & Svc.		**33,180**	**13,000**	255.23%	**16,900**	**14,150**	119.43%	**24,450**	72.79%	**15,450**	-36.81%
Operating Supplies											
Janitorial Supplies	7357	240	400	59.99%	300	400	75.00%	400	0.00%	400	0.00%
Personnel Supplies	7359	1,317	700	188.13%	1,400	700	200.00%	700	0.00%	700	0.00%
General Operating Supplies	7365	171	225	75.92%	0	300	0.00%	300	0.00%	300	0.00%
Total Operating Supplies		**1,728**	**1,325**	130.39%	**1,700**	**1,400**	121.43%	**1,400**	0.00%	**1,400**	0.00%
Contractual Services											
Alarm System	7403	1,147	1,200	95.58%	1,200	1,200	100.00%	1,200	0.00%	1,200	0.00%
Postage Meter Service	7413	192	195	98.40%	195	195	100.00%	195	0.00%	195	0.00%
Fire Extinguisher Service	7415	36	150	24.00%	100	150	66.67%	150	0.00%	150	0.00%
Payroll Processing	7421	6,334	5,500	115.16%	6,350	6,350	100.00%	6,350	0.00%	6,350	0.00%
Network Administration	7422	18,614	21,320	87.31%	24,500	25,500	96.08%	25,500	0.00%	25,500	0.00%
Data processing - County	7423	19,680	17,500	112.46%	18,000	18,000	100.00%	18,000	0.00%	18,000	0.00%
Janitorial Service	7424	2,080	2,500	83.20%	2,500	2,500	100.00%	3,300	32.00%	3,300	0.00%
Copier/Fax Service	7426	4,696	2,530	185.61%	3,880	3,500	110.86%	3,500	0.00%	3,500	0.00%
Actuarial Service	7429	14,550	12,500	116.40%	12,600	17,000	74.12%	17,000	0.00%	17,000	0.00%
Landscape Maintenance	7430	1,644	1,500	109.60%	1,500	2,000	75.00%	4,000	100.00%	2,500	-37.50%
Accounting Services	7432	3,600	3,600	100.00%	3,600	3,800	94.74%	13,800	263.16%	3,800	-72.46%
Post Office Box Rental	7433	124	125	99.20%	200	125	160.00%	125	0.00%	125	0.00%
Other Special Studies/Services	7435	0	27,000	0.00%	19,000	20,000	95.00%	20,000	0.00%	20,000	0.00%
Fleet Maintenance	7412	762	250	304.80%	600	750	80.00%	750	0.00%	750	0.00%
Total Contractual Services		**73,459**	**95,870**	76.62%	**94,225**	**101,070**	93.23%	**113,870**	12.66%	**102,370**	-10.10%
Audit/Financial Expense	7445	19,000	21,000	90.48%	19,000	21,500	88.37%	21,500	0.00%	21,500	0.00%

Carmel Area Wastewater District
Administration: 2013-2014 Operating Expense Budget

Description	Acct	2012-13 Actual	2012-13 Budget	2012-13 % of Budget	Estimated 2013-14 Actual	Estimated 2013-14 Budget	Estimated 2013-14 % of Budget	Proposed 2014-15 Budget	% Chg. Prior Yr. Budget	Projected 2015-16 Budget	% Chg. Prior Yr Budget
Engineering Fees	7441	0	15,000	0.00%	25,000	25,000	0.00%	35,000	0.00%	25,000	-28.57%
Attorney Fees											
District Counsel	7451	28,597	30,000	95.32%	30,000	30,000	100.00%	35,000	16.67%	35,000	0.00%
CASA Conference Attendance	7452	1,768	1,000	176.80%	0	1,000	0.00%	1,000	0.00%	1,000	0.00%
Total Attorney Fees		**30,365**	**31,000**	97.95%	**30,000**	**31,000**	96.77%	**36,000**	16.13%	**36,000**	0.00%
Repairs & Maintenance	7511	1,233	300	410.88%	22,925	14,950	153.35%	5,000	-66.56%	1,000	-80.00%
Utilities											
Electricity	7610	3,700	3,250	113.84%	4,600	4,070	113.02%	4,200	3.19%	4,370	4.05%
Gas	7620	1,858	1,850	100.44%	1,800	1,910	94.24%	2,000	4.71%	2,080	4.00%
Water	7630	1,036	1,250	82.87%	1,600	1,430	111.89%	1,750	22.38%	2,100	20.00%
Refuse Collection	7632	529	550	96.21%	700	570	122.81%	650	14.04%	675	3.85%
Total Utilities		**7,123**	**6,900**	103.23%	**8,700**	**7,980**	109.02%	**8,600**	7.77%	**9,225**	7.27%
Telephone											
Fixed Costs	7641	5,051	3,450	146.41%	7,000	6,800	102.94%	7,000	2.94%	7,100	1.43%
Long Distance	7642	23	100	22.57%	160	100	160.00%	150	50.00%	175	16.67%
Direct Line to Plant	7644	400	450	88.88%	0	0	n/a	200	n/a	200	0.00%
Cellular Phones	7648	1,474	1,000	147.42%	2,070	1,400	147.86%	1,850	32.14%	1,900	2.70%
Total Telephone		**6,948**	**5,000**	138.96%	**9,230**	**8,300**	111.20%	**9,200**	10.84%	**9,375**	1.90%
Laundry	7661	0	0	n/a	0	0	n/a	0	n/a	0	n/a
Travel & Meetings											
Employee Training	7671	3,896	25,000	15.58%	1,500	12,500	12.00%	12,500	0.00%	12,500	0.00%
Conferences	7672	9,717	15,350	63.30%	4,060	16,000	25.38%	16,000	0.00%	16,000	0.00%
Business Meetings - Tri Tac	7673	2,387	500	477.31%	3,000	1,500	200.00%	1,500	0.00%	1,500	0.00%
Auto Mileage	7675	65	200	32.65%	0	200	0.00%	200	0.00%	200	0.00%
Total Travel & Meetings		**16,065**	**41,050**	39.13%	**8,560**	**30,200**	28.34%	**30,200**	0.00%	**30,200**	0.00%
Membership/Subscriptions											
Memberships											
CASA	7711	8,000	8,600	93.02%	12,480	8,600	145.12%	12,600	46.51%	12,600	0.00%
Water Environ. Federation	7712	220	285	77.19%	230	285	80.70%	285	0.00%	285	0.00%
Govt. Finance Officers Assn.	7719	310	170	182.35%	150	170	88.24%	170	0.00%	170	0.00%
WateReuse Association	7715	696	630	110.40%	700	630	111.11%	700	11.11%	700	0.00%
National Notary Assn	7717	40	45	88.89%	0	45	0.00%	45	0.00%	45	0.00%
Other - CSDA	7710	3,940	400	985.00%	2,240	5,000	44.80%	3,000	-40.00%	3,000	0.00%
ASCE	7714	169	0	n/a	0	0	n/a	170	n/a	170	0.00%
Mty Bay Employment Relations	7723	2,962	0	n/a	3,105	0	n/a	3,100	n/a	3,100	0.00%

Carmel Area Wastewater District
Administration: 2013-2014 Operating Expense Budget

Description	Acct	2012-13 Actual	2012-13 Budget	2012-13 % of Budget	Estimated 2013-14 Actual	Estimated 2013-14 Budget	Estimated 2013-14 % of Budget	Proposed 2014-15 Budget	% Chg. Prior Yr. Budget	Projected 2015-16 Budget	% Chg. Prior Yr Budget
Misc Membership	7726	150	0	n/a	0	0	n/a	0	n/a	0	n/a
Subscriptions/Publications	7725	1,187	600	197.89%	1,250	600	208.33%	1,250	108.33%	1,250	0.00%
Total Membership/Subscrip.		**17,674**	**10,730**	164.71%	**20,155**	**15,330**	131.47%	**21,320**	39.07%	**21,320**	0.00%
Other Expenses											
LAFCO Admin Fee	7812	0	11,815	0.00%	11,335	11,333	100.02%	13,031	14.98%	13,292	2.00%
Legal Notices	7831	138	3,500	3.94%	1,850	3,500	52.86%	3,500	0.00%	3,600	2.86%
Rate Payer Claims	7820		2,000	0.00%	0	2,000	0.00%	2,000	0.00%	2,100	5.00%
Employee Awards Program	7835	2,968	3,000	98.94%	3,050	3,250	93.85%	3,250	0.00%	3,300	1.54%
Recruitment	7860	14,632	14,000	n/a	0	0	n/a	0	n/a	0	n/a
CAWD Newsletter	7865	23,484	23,100	101.66%	24,000	24,000	100.00%	24,600	2.50%	25,215	2.50%
Miscellaneous Expense	7851	2,465	35,000	7.04%	22,045	40,000	55.11%	27,000	-32.50%	35,000	29.63%
Employee Incentive/Motivation		0	0	n/a	0	0	n/a	240	n/a	240	0.00%
Total Other Expense		**43,688**	**92,415**	47.27%	**62,280**	**84,083**	74.07%	**73,621**	-12.44%	**82,747**	12.40%
Subtotal Operating Expense		**1,076,019**	**1,099,358**	97.88%	**1,040,963**	**1,115,625**	93.31%	**1,151,151**	3.18%	**1,156,132**	0.43%
Depreciation Expense	7900	28,390	30,000	94.63%	30,060	30,100	99.87%	30,100	0.00%	30,100	0.00%
Amortization Expense	7910	4,858	4,860	99.97%	4,860	4,860	100.00%	4,860	0.00%	4,860	0.00%
Total Operating Expense		**1,109,267**	**1,134,218**	97.80%	**1,075,883**	**1,150,585**	93.51%	**1,186,111**	3.09%	**1,191,092**	0.42%

Carmel Area Wastewater District

CAWD/PBCSD Reclamation Project

2014-15 Budget

Description	2012-13 Actual	2012-13 Budget	2012-13 % of Budget	Estimated 2013-14 Actual	Estimated 2013-14 Budget	Estimated 2013-14 % of Budget	Proposed 2014-15 Budget	% Chg. Prior Yr. Budget	Projected 2015-16 Budget	% Chg. Prior Yr Budget
Plant Salaries, Benefits & OH										
Plant Superintendent	6,602	20,000	33.01%	14,290	2,500	571.60%	6,000	140.00%	6,120	2.00%
Laboratory Supervisor	22,173	25,600	86.61%	25,600	23,500	108.94%	26,000	10.64%	26,520	2.00%
Laboratory Technician	69,290	59,800	115.87%	76,775	68,200	112.57%	76,000	11.44%	77,520	2.00%
Plant Operators	174,718	148,250	117.85%	168,025	179,800	93.45%	175,000	-2.67%	178,500	2.00%
Maintenance Mechanics	6,963	10,300	67.60%	19,070	6,000	317.84%	10,000	66.67%	10,200	2.00%
Differential	17,476	17,800	98.18%	14,945	18,400	81.22%	17,000	-7.61%	17,340	2.00%
Payroll Taxes, Benefits, & OH	146,225	140,875	103.80%	159,353	149,200	106.80%	155,000	3.89%	158,100	2.00%
subtotal	**443,446**	**422,625**	104.93%	**478,058**	**447,600**	106.80%	**465,000**	103.89%	**474,300**	2.00%
Administrative Salaries										
General Manager	1,969	750	262.50%	2,630	1,030	255.30%	1,030	0.00%	1,030	0.00%
Project Accountant	9,776	6,000	162.94%	14,800	10,720	138.06%	12,500	16.60%	12,750	2.00%
Engineering	241	500	48.19%	2,120	590	359.24%	12,000	1933.90%	12,240	2.00%
Admin. Svcs/Scanner	0	500	0.00%	1,110	2,275	48.81%	1,100	-51.65%	1,120	1.82%
Payroll Taxes, Benefits, & OH	5,993	3,875	154.66%	10,330	7,307	141.37%	13,315	82.22%	13,570	1.92%
subtotal	**17,979**	**11,625**	154.66%	**30,990**	**21,922**	141.36%	**39,945**	182.21%	**40,710**	1.92%
Directors Fees	1,000	900	111.11%	600	900	66.67%	1,000	11.11%	1,000	0.00%
Operating Supplies/Services	9,122	12,000	76.02%	10,496	10,000	104.96%	10,000	0.00%	10,000	0.00%
Repairs & Maintenance	123	1,000	12.29%	2,215	1,000	221.54%	1,000	0.00%	1,000	0.00%
Total Reimbursable Reclamation Project Expenditures	**471,670**	**448,150**	105.25%	**522,359**	**481,422**	108.50%	**516,945**	7.38%	**527,010**	1.95%

Carmel Area Wastewater District
Capital Budget Summary 2014-15

	ITEM	ALLOCATION					Totals
		Admin	Collection	Treatment	PBCSD	Recla-mation	
1	**CIP Projects for Administration**	$0					$0
2	**CIP Projects for Collection System**		$857,510				$857,510
3	**CIP Projects for Treatment & Disposal**			$1,224,500	$612,250	$234,750	$2,071,500
4	**CIP Long Term Capital Plan for Treatment & Disposal**			$3,360,667	$1,680,333	$653,000	$5,694,000
	Total CIP	$0	$857,510	$4,585,167	$2,292,583	$887,750	$8,623,010
	Capital Outlay Items						
1	Replace Unit #15 CCTV Van		$230,000				$230,000
2	Replace Maintenance truck (1990 Dodge 3/4 ton pickup)			$43,336	$21,665		$65,000
3	Primary Collector Drive replacement			$42,002	$20,998		$63,000
4	Secondary Collector Drive replacement			$42,002	$20,998		$63,000
5	Total Organic Carbon Analyzer (*Reclamation 50%*)			$14,000	$7,000	$21,000	$42,000
6	Forklift			$26,001	$12,999		$39,000
7	Pimary Clarifier Samplers & Installation			$17,334	$8,666		$26,000
8	Handrail repair/replacement			$16,668	$8,333		$25,000
9	Redundant effluet wet well ultra sonic level indicator & SCADA tie in			$6,337	$3,164		$9,500
10							
	Total Capital Outlay	$0	$230,000	$207,679	$103,821	$21,000	$562,500
	Total CIP & Capital Outlay 13-14	**$0**	**$1,087,510**	**$4,792,846**	**$2,396,404**	**$908,750**	**$9,185,510**

Carmel Area Wastewater District
Capital Budget Projected Summary 2015-16

	ITEM	ALLOCATION					Totals
		Admin	Collection	Treatment	PBCSD	Recla-mation	
1	**CIP Projects for Administration**	$0					$0
2	**CIP Projects for Collection System**		$335,000				$335,000
3	**CIP Projects for Treatment & Disposal**			$833,333	$416,667	$20,000	$1,270,000
4	**CIP Long Term Capital Plan for Treatment & Disposal**			$2,866,000	$1,433,000	$153,000	$4,452,000
	Total CIP	$0	$335,000	$3,699,333	$1,849,667	$173,000	$6,057,000
	Capital Outlay Items						
1	Replace Unit #5 Ford Hydro-Cleaning truck		$180,000				$180,000
2	Primary Collector Drive replacement			$42,021	$20,979		$63,000
3	Secondary Collector Drive replacement			$42,021	$20,979		$63,000
4	Handrail repair/replacement			$13,340	$6,660		$20,000
5	Grit Collector Drive Unit replacement			$49,358	$24,642		$74,000
6	Ops - Portable Pump (2)			$18,676	$9,324		$28,000
7							
	Total Capital Outlay	$0	$180,000	$165,416	$82,584	$0	$428,001
	Total CIP & Capital Outlay 14-15	**$0**	**$515,000**	**$3,864,749**	**$1,932,251**	**$173,000**	**$6,485,001**

CARMEL AREA WASTEWATER DISTRICT ADMINISTRATION DEPT

CAPITAL IMPROVEMENT PROJECTS AND PURCHASES FY 2014/15 - 2018/19

	ITEM	14/15	15/16	16/17	17/18	18/19	Unscheduled
	CAPITAL PROJECTS						
1	Exterior Painting				$16,000		
2	Network Virtual Server Project				$30,000		
3	Replace Administrative Office Carpeting						$15,000
4	Replace Administrative Office Furnaces						$6,500
5	Tile Entryway at Admin Office						$6,000
	CAPITAL PURCHASES						
1	Server Replacement				$7,000		
2	General Manager's Sedan						$30,000
3							
	TOTALS	$0	$0	$0	$53,000		$57,500

FY 2014-15 Budget
Carmel Area Wastewater District

Project Name: **Exterior Painting**
Dept: Admin
Total Cost: $ 16,000
CY Budget $ -
Account: 7511

Contact: Lander
Type: Administration
Useful Life: 15 years
Category: Maintenance
Urgency: 3 = Important
Carry Forwa No

Description:

The District had the outside of its administrative office painted in 2001 and was advised by the contractor at that time to repaint every 12 years. The work done in 2001 was after a 16 year period. After a thorough inspection of the exterior staff concludes that the exterior stucco walls are in good shape and could last for another couple years. The same inspection also revealed that much of the exposed wood portions of the structure are in need of painting this year to prevent pest intrusion and to restore water resistance. Those maintenance concerns will be addressed this year.

Justification:

The exposed wood portions were painted in 2013-14. The exterior stucco should be painted after 15-16 years to ensure the building is sufficiently protected.

	Prior	14-15	15-16	16-17	17-18	18-19	19-20	Total
Expenditures:					$ 16,000			$ 16,000

Funding Source:

O&M Budget - user fee revenue

Budget Impact/Other:

Budget Items	14-15	15-16	16-17	17-18	18-19	19-20	Total
Labor							$ -
Parts & Supplies							$ -
Chemicals							$ -
Utility							$ -
Other - Contract				$ 16,000			$ 16,000
Total	$ -	$ -	$ -	$ 16,000	$ -	$ -	$ 16,000

FY 2014-15 Budget
Carmel Area Wastewater District

Project Name: **Network Virtual Server Replacement**
Dept: Admin
Total Cost: $ 30,000
CY Budget $ -
Account: 2735

Contact: Buikema
Type: Administration
Useful Life: 5 years
Category: Capital Improvement
Urgency: 3 = Important
Carry Forwa No

Description:

Server improvements are needed to keep pace with the ever improving technology. Virtualization and virtual servers are a way of getting more than one server into a single piece of physical hardware. This project was implemented this year and it is anticipated that server upgrades will be required within a 5 year period. The server installed this year has been operating without any issues. A considerable reduction in physical space needed to house the servers has been realized already. The benefits most visible to the District by this continued implementation are:

1) reduced number of servers means less electricity used and less cooling requirements,
2) improved backup and recovery
3) improved connectivity, and
4) improved performance metric

Justification:

Expected life span of servers 5 years - routine replacement
Current equipment installed in 2012-13

	Prior	14-15	15-16	16-17	17-18	18-19	19-20	Total
Expenditures:					$ 30,000			$ 30,000

Funding Source:

Capital Reserves

Budget Impact/Other:

Budget Items	14-15	15-16	16-17	17-18	18-19	19-20	Total
Labor							$ -
Parts & Supplies							$ -
Chemicals							$ -
Utility							$ -
Other - Equipment				$ 30,000			$ 30,000
Total	$ -	$ -	$ -	$ 30,000	$ -	$ -	$ 30,000

FY 2014-15 Budget
Carmel Area Wastewater District

Project Name: **Replace Administrative Office Carpeting**
Dept: Admin
Total Cost: $ 15,000
CY Budget $ -
Account: 2760

Contact: Lander
Type: CIP
Useful Life: 20 years
Category: Capital Improvement
Urgency: 5 = Future
Carry Forwa No

Description:

It is anticipated that the administrative office building carpeting, which has never been replaced will need to be replaced within the next 5 years. 308 square yards at $30/SY. To prolong the carpet life staff proposes to include a maintenance item to replace the high traffic area (entryway) with tile/carpet squares. The proposed carpet replacement will remain an unscheduled expense for

Justification:

Original carpet from 1990 building construction and is showing obvious signs of wear.

	Prior	14-15	15-16	16-17	17-18	18-19	Unscheduled	Total
Expenditures:							$ 15,000	$ 15,000

Funding Source:

Capital Reserves

Budget Impact/Other:

Budget Items	14-15	15-16	16-17	17-18	18-19	Unscheduled	Total
Labor							$ -
Parts & Supplies							$ -
Chemicals							$ -
Utility							$ -
Other - Contract service						$ 15,000	$ 15,000
Total	$ -	$ -	$ -	$ -	$ -	$ 15,000	$ 15,000

FY 2014-15 Budget
Carmel Area Wastewater District

Project Name: **Replace Administrative Office Furnaces**
Dept: Admin
Total Cost: $ 6,500
CY Budget $ -
Account: 7511

Contact: Lander
Type: CIP
Useful Life: 15 years
Category: Capital Improvement
Urgency: 5 = Future
Carry Forwa No

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.

Justification:

The furnaces are being allowed to "run to fail". We have the ability to replace the furnaces on relatively short notice and would make an effort to repair first and then replace as required.

	Prior	14-15	15-16	16-17	17-18	18-19	Unscheduled	Total
Expenditures:							$ 6,500	$ 6,500

Funding Source:

Capital Reserves

Budget Impact/Other:

Budget Items	14-15	15-16	16-17	17-18	18-19	Uscheduled	Total
Labor							$ -
Parts & Supplies							$ -
Chemicals							$ -
Utility							$ -
Other - equip/service						$ 6,500	$ 6,500
Total	$ -	$ -	$ -	$ -	$ -	$ 6,500	$ 6,500

FY 2014-15 Budget
Carmel Area Wastewater District

Project Name: **Tile Entryway at Admin Offices**
Dept: Admin
Total Cost: $ 6,000
CY Budget $ -
Account: 7511

Contact: Lander
Type: CIP
Useful Life: 15 years
Category: Capital Improvement
Urgency: 5 = Future
Carry Forwa No

Description:

The Administrative Offices entryway area shows the most wear from foot traffic. Typically plumbers and contruction workers will come into the front desk area to obtain a permit,wearing their work boots. Staff feels that tiling the front office area would be a solution making it easier to keep clean and will wear well over a longer period of time (an alternative may be carpet tiles). Staff will investigate potential solutions prior to taking any action.

The carpet was installed when the building was constructed.

Justification:

The carpet, particularly in the entry area is worn and in need of replacement. The carpet it will be impossible to match due to its age. Staff feels that replacing only the entryway carpet may be the more cost effective solution.

	Prior	14-15	15-16	16-17	17-18	18-19	Unscheduled	Total
Expenditures:							$ 6,000	$ 6,000

Funding Source:

Capital Reserves

Budget Impact/Other:

Budget Items	14-15	15-16	16-17	17-18	18-19	Unscheduled	Total
Labor							$ -
Parts & Supplies							$ -
Chemicals							$ -
Utility							$ -
Other						$ 6,000	
Total	$ -	$ -	$ -	$ -	$ -	$ 6,000	$ -

FY 2014-15 Budget
Carmel Area Wastewater District

Project Name: **Server Replacement**
Dept: Admin
Total Cost: $ 7,000
CY Budget $ -
Account: 2735

Contact: Buikema
Type: Computers
Useful Life: 5 years
Category: Capital Equipment
Urgency: 3 = Important
Carry Forwa No

Description:

Assuming no changes in technology, the existing mail server will be five years old in 2017/18 and should be replaced. This estimate is for hardware and installation.

Justification:

Replaced in 2013-14 the server has a five year life span and is routinely replaced.

	Prior	14-15	15-16	16-17	17-18	18-19	19-20	Total
Expenditures:					$ 7,000			$ 7,000

Funding Source:

Capital Reserves

Budget Impact/Other:

Budget Items	14-15	15-16	16-17	17-18	18-19	19-20	Total
Labor							$ -
Parts & Supplies							$ -
Chemicals							$ -
Utility							$ -
Other - Equipment				$ 7,000			$ 7,000
Total	$ -	$ -	$ -	$ 7,000	$ -	$ -	$ 7,000

FY 2014-15 Budget
Carmel Area Wastewater District

Project Name: **General Manager's Sedan**
Dept: Admin
Total Cost: $ 30,000
CY Budget $ -
Account: 2720

Contact:
Type:
Useful Life: 10 years
Category: Capital Equipment
Urgency: 5 = Future
Carry Forwa No

Description:

The current vehicle was purchase in 2004 and has less than 60,000 miles on the odometer. We estimate this car will last over 100,000 miles, replacement is estimated at minimum by the end of this decade.

Note: The battery was replaced under warranty at roughly 4.5 years. Because the battery is an expensive item (~$10K); our plan is to purchase a new vehicle at that time.

Justification:

This vehicle is used by Admin staff to attend meetings as necessary. In addition plant and collection system staff use the vehicle to attend conferences rather than use their own vehicles or a District truck. This vehicle is safe and reliable -- and in good shape both externally and mechanically. We will continue to monitor its performance and when it reaches its tipping point (i.e. repairs > value of vehicle) we will move it from the "Unscheduled" budget column and purchase a new sedan-type vehicle for the District's use.

	Prior	14-15	15-16	16-17	17-18	18-19	Unscheduled	Total
Expenditures:							$ 30,000	$ 30,000

Funding Source:

Capital Reserves

Budget Impact/Other:

Budget Items	14-15	15-16	16-17	17-18	18-19	Unscheduled	Total
Labor							$ -
Parts & Supplies							$ -
Chemicals							$ -
Utility							$ -
Other - Auto						$ 30,000	$ 30,000
Total	$ -	$ -	$ -	$ -	$ -	$ 30,000	$ 30,000

CARMEL AREA WASTEWATER DISTRICT COLLECTION DEPT
CAPITAL IMPROVEMENT PROJECTS FY 2014/15 - 2018/19

	PROJECT	14/15	15/16	16/17	17/18	18/19	19/20	Unscheduled
1	Construction of new gravity sewer line for Carmel Meadows Gravity Easement	$470,510						
2	Capacity Assessment of Collection system - flow testing	$100,000						
3	Design and installation of new power service drop to Bay & Scenic	$90,000						
4	Spot Repair of 15 pipe defects annually	$75,000	$75,000	$75,000				
5	Bay & Scenic retaining wall	$50,000		$50,000	$400,000			
6	Design and construction plans for Calle La Cruz force main replacement	$30,000	$200,000					
7	Condition Assessment of Monte Verde and Bay & Scenic Pump Station 's Force Mains	$30,000						
8	Design and installation of H2S scrubber at Calle La Cruz pump station	$12,000	$60,000					
9	Remove & Replace 4000' of sewer pipe that is listed in ICOM as the worst condition (yet to be determined)			$750,000	$350,000	$500,000	$500,000	
10	Remove & Replace 5 Manholes annually that are listed in Manhole Condition Assessment				$50,000	$50,000	$50,000	
11	Relocate Calle la Cruz Pump Station							$700,000
12								
		$857,510	**$335,000**	**$875,000**	**$800,000**	**$550,000**	**$550,000**	**$700,000**

FY 2014-15 Budget
Carmel Area Wastewater District

Project Name: **Carmel Meadows Easement**
Dept: Collections
Total Cost: $ 525,857
CY Budget $ 470,510
Account: 2280

Contact: Lauer
Type: CIP
Useful Life: 50 years
Category: Capital Improvement
Urgency: 2 = Very Important
Carry Forwa No

Description:

Replacement of approximately 1000 ft of elevated, free standing ductile iron pipeline with a re-engineered constrained pipe design, engineered foundation improvements for support scaffolding, and new scaffolding to support the pipeline. The pipeline is located on a District easement, on what is now State Parks land and is adjacent to the South Fork of the Carmel Lagoon.

Justification:

The Collections Dept. staff noted that the number of staff hours required to avoid blockages and sewer line backup of the Carmel Meadows sewer line exceeds that of nearly all other lines in the Collections system. In prior budget allocations a number of $1,000,000 has been held over as an approximate cost for the replacement of this line. Due to the highly sensitive nature of location of the sewer line, staff has determined that the best management practice has been to assess the line, develop construction plan for replacement and then plan and budget accordingly. A condition assessment was performed by Kennedy/Jenks in 2013 which recognized any additional flow from the County's Hwy 1 Causeway Project could result in additional erosion in that ground portion has subsided over the years causing the pipe to bend and dip loosing its proper grade. Along with the supports the Ductile Iron Pipe (DIP) is bell and spigot style which is of great concern. In the event of more extreme hillside movement the pipes would come apart discharging sewage directly into the Carmel Lagoon. K/J recommended replacement of the manholes and replacement of the DIP with restrained joint DIP. Four alternatives for repair have been provided. Staff has reviewed the recommendations and have chosen recommentation #2, which is to replace portions of the line and the foundation supporting it. These improvements will effectively extend the useful service life of the pipeline to 35 years. The pipeline life will then be limited to those portions of the pipeline which will not be replaced at this time.

	Prior	14-15	15-16	16-17	17-18	18-19	19-20	Total
Expenditures:	$ 55,347	$ 470,510						$ 525,857

Funding Source:

Capital Reserves

Budget Impact/Other:

Budget Items	14-15	15-16	16-17	17-18	18-19	19-20	Total
Labor							$ -
Parts & Supplies							$ -
Chemicals							$ -
Utility							$ -
Other - Contract	$ 470,510						$ 470,510
Total	$ 470,510	$ -	$ -	$ -	$ -	$ -	$ 470,510

FY 2014-15 Budget

Carmel Area Wastewater District

Project Name: **Capacity Assessment of Collection System**
Dept: Collections
Total Cost: $ 100,000
CY Budget $ 100,000
Account:

Contact: Lauer
Type: CIP
Useful Life: 20 years
Category: Capital Improvement
Urgency: 3 = Important
Carry Forwa No

Description:

Capacity assessment of critical sewer lines in the District using flow meters to measure the capacity. This assessment will include the installation of flow meters at 10 critical locations throughout the District to measure depth of flow, velocity of flow and surcharging concerns. The installation will be provided by an outside service provider who provides equipment with continuous data collection. Data collection and service will be provided for 1 full year. The use of flow meters will give CAWD the data to properly assess the capacity of the District's sewer lines with relation to annual peak needs and storm events.

Justification:

Capacity assessment is an element of the District's SSMP. The last flow assessment was preformed in 1997 and was looking more for I&I rather that capacity. This assessment would be a year long look to see if the main trunk lines (identified by staff) have a sufficient capacity during dry weather as well as wet weather flows. The district has preformed a condition assessment of the sewer lines for structural failures, however staff has raised concerns in the past about collection pipes that visually appear to be operating near capacity. The placement of flow meters will allow staff to identify which areas in the system provide the highest flow volumes and assist staff in prioritizing where system repairs should be focused. This data collection will provide the District a level of insurance that the system is designed adequately for the required capacity. Flow testing will provide analytical assessment

	Prior	14-15	15-16	16-17	17-18	18-19	19-20	Total
Expenditures:		$100,000						$ 100,000

Funding Source:

Capital Reserves

Budget Impact/Other:

Budget Items	14-15	15-16	16-17	17-18	18-19	19-20	Total
Labor							$ -
Parts & Supplies							$ -
Chemicals							$ -
Utility							$ -
Other - Contract	$ 100,000						$ 100,000
Total	$ 100,000	$ -	$ -	$ -	$ -	$ -	$ 100,000

FY 2014-15 Budget
Carmel Area Wastewater District

Project Name: **New Power service for Bay & Scenic**
Dept: Collections
Total Cost: $ 90,000
CY Budget $ 90,000
Account: 2251

Contact: Lauer
Type: Pump Stations
Useful Life 50 years
Category: Capital Improvement
Urgency: 2 = Very Important
Carry Forv No

Description:

Replace existing power service drop to Bay & Scenic to meet PG&E standards. This will require approximately 600 ft of new conduit, 3 pull boxes, and new service drop installed by PG&E. The pump station will be put on standby power, while the existing line is removed and a new line is placed deeper in the roadway and installed in accordance with current PG&E standards. The District will then dedicate this service line to PG&E for future management and maintenance.

Justification:

In December of 2013 a contractor cut through the power service that feeds Bay & Scenic pump station. The conduit was only 6 inches under the asphalt and was not marked as part of a Utility Service Alert because PG&E confirmed that the conduit was never accepted into the PG&E system. In this case CAWD owns the service feed to the station. Since the conduit was not originally installed under PG&E direction and no documentation was available as to the installation, PG&E will not accept it. The installation of a new conduit and pull boxes to the pump station from the power pole at the proper depth according to the specifications from PG&E will allow them to take ownership of the service.

	Prior	14-15	15-16	16-17	17-18	18-19	19-20	Total
Expenditures:		$ 90,000						$ 90,000

Funding Source:

Capital Reserves

Budget Impact/Other:

Budget Items	14-15	15-16	16-17	17-18	18-19	19-20	Total
Labor							$ -
Parts & Supplies							$ -
Chemicals							$ -
Utility							$ -
Other - Contract	$ 90,000						$ 90,000
Total	$ 90,000	$ -	$ -	$ -	$ -	$ -	$ 90,000

FY 2014-15 Budget
Carmel Area Wastewater District

Project Name: **Spot Repairs**
Dept: Collections
Total Cost: $ 225,000
CY Budget $ 75,000
Account: 5562

Contact: Lauer
Type: CIP
Useful Life: 50 years
Category: Capital Improvement
Urgency: 3 = Important
Carry Forv No

Description:

Staff will utilize closed circuit tv (CCTV) footage of the system lines and other annual inspections to develop a list of pipes with localized damage or defect (i.e. hole, break) and request RFP's annually from local contractors for the repair of these lines. Staff anticipates approximately 15 repairs per year for the next 3 years. These repairs will be conducted on lines that are in otherwise good condition with a remaining life of 10 years or greater.

Justification:

CCTV footage has revealed that many portions of the Collections system piping is in good condition with blockages being caused by roots and localized damage to pipes that has occurred over the years by settlement or private plumbers. Replacing lines can be expensive. But with the implementation of the root foaming process each year many of the existing lines can remain fully functional and allow the District to extend their useful life simply by repairing the larger localized damage between pipe joints where roots or rocks have entered they system. The work will be contracted out primarily due to staffing constraints. Delaying the repair of the pipes (identified as critical) will only cause more costly repairs in the future. If the majority of repairs are completed over the next three years, staff can keep up and it will extend the system performance without the need of outside contracting.

	Prior	14-15	15-16	16-17	17-18	18-19	19-20	Total
Expenditures:		$75,000	$75,000	$75,000				$ 225,000

Funding Source:

Capital Reserves

Budget Impact/Other:

Budget Items	14-15	15-16	16-17	17-18	18-19	19-20	Total
Labor							$ -
Parts & Supplies							$ -
Chemicals							$ -
Utility							$ -
Other - Contract	$ 75,000	$ 75,000	$ 75,000				$ 225,000
Total	$ 75,000	$ 75,000	$ 75,000	$ -	$ -	$ -	$ 225,000

FY 2014-15 Budget

Carmel Area Wastewater District

Project Name: **Bay & Scenic Sea Wall**
Dept: Collections
Total Cost: $ 500,000
CY Budget $ 50,000
Account: 2221

Contact: Lauer
Type: CIP
Useful Life: 35 years
Category: Capital Improvement
Urgency: 3 = Important
Carry Forv No

Description:

This project will be accomplished in two parts in order to plan and accomplish structural improvements to extend the life of the Bay and Scenic pumps station. This year the design and environmental review is proposed and followed by environmental review in 16/17 and construction in 17/18.

Justification:

The Bay & Scenic pump station is a critical collections department asset serving more than 200 properties in the Carmel Point 7th addition neighborhood. The pump station is located immediately adjacent to the Pacific Ocean underneath the public roadway. Due to existing topography this pump station can not be relocated or otherwise decommissioned. For several years staff has observed erosion and deterioration of the decorative Carmel stone facade which protects the pump station from ocean forces during high tides and storm surges. In 2008 the County performed hardscaping (shot creating) of some of the banks to help protect the slopes and extend the life of the roadway. Since that time erosion of the sandstone has continued and is becoming a concern to staff. Since the pump station is in relatively good condition and has provided more than 50 years of continuous service staff recommends repairing the exterior wall and sand stone which is beginning to crack and fall off into the ocean. Due to the critical location of this pump station, all of the regulatory agencies with jurisdiction over the area (Coastal Commission, NMFS) and the anticipated expense to accomplish repairs, staff recommends the development of design plans to prolong the life of this asset and perform this maintenance within 4 years.

	Prior	14-15	15-16	16-17	17-18	18-19	19-20	Total
Expenditures:		$50,000		$50,000	$400,000			$ 500,000

Funding Source:

Capital Reserves

Budget Impact/Other:

Budget Items	14-15	15-16	16-17	17-18	18-19	19-20	Total
Labor							$ -
Parts & Supplies							$ -
Chemicals							$ -
Utility							$ -
Other - Contract	$ 50,000		$ 50,000	$400,000			$ 500,000
Total	$ 50,000	$ -	$ 50,000	$400,000	$ -	$ -	$ 500,000

FY 2014-15 Budget

Carmel Area Wastewater District

Project Name: **Replacement of Calle La Cruz Force Main**
Dept: Collections
Total Cost: $ 280,000
CY Budget $ 30,000
Account: 2280

Contact: Lauer
Type: CIP
Useful Life: 50 years
Category: Capital Improvement
Urgency: 1 = Critical
Carry Forv No

Description:

Design and construct a permanent 6" HDPE replacement force main to cross the Carmel Lagoon, from Calle La Cruz pump station to connect with the existing force main with approximately 400 feet of new piping. This project will "piggy back" on the Treatment Plant CIP for replacement of the 24" outfall. This project assumes that a replacement pipe cannot be placed on the existing crossing, that the existing crossing will need to be reconstructed and that the sewer force main will either be constructed to attach to a new aerial crossing, or that a new pipe will be placed underneath the lagoon in a joint trench with the new force main. For the purpose of this item Collections will assume the cost of only the design and construction of the line itself and not the construction of a new crossing structure or the cost of the excavation. Due to the complexity of the environmental review required for the work in the Lagoon it is not anticipated that construction will begin within the FY14-15.

Justification:

In August of 2013 staff discovered an emergency condition of imminent failure of the Calle La Cruz force main over the Carmel Lagoon. This prompted immediate action to replace 400ft of the existing line with a durable HDPE pipe laid above grade. The emergency repair was an unbudgeted expense for 2013. This year staff will utilize K/J engineers to develop the construction plans needed to permanently replace the temporary line. It is not anticipated that the line will require boring under the lagoon. If environmental concerns prohibit the more traditional pipe repair processes under consideration the costs of the construction portion will increase substantially.

	Prior	14-15	15-16	16-17	17-18	18-19	19-20	Total
Expenditures:	$ 50,000	$ 30,000	$ 200,000					$ 280,000

Funding Source:

Capital Reserves

Budget Impact/Other:

Budget Items	14-15	15-16	16-17	17-18	18-19	19-20	Total
Labor							$ -
Parts & Supplies							$ -
Chemicals							$ -
Utility							$ -
Other - Contract	$ 30,000	$ 200,000					$ 230,000
Total	$ 30,000	$ 200,000	$ -	$ -	$ -	$ -	$ 230,000

FY 2014-15 Budget
Carmel Area Wastewater District

Project Name: **Force Main Condition Assessment**
Dept: Collections
Total Cost: $ 30,000
CY Budget $ 30,000
Account: 5562

Contact: Lauer
Type: Pump Stations
Useful Lif 15 years
Category: Capital Improvement
Urgency: 2 = Very Important
Carry Forv Yes

Description:

Condition assessment of the force mains for Monte Verde and Bay & Scenic pump stations. An outside contractor will be employed to locate, excavate down and remove a portion of the 4" DIP. Up to two locations per pipe will be located. Staff will perform a condition assessment of the removed pipe by CCTV inspection by inserting the camera at each location and inspecting the line as far as the camera equipment will allow.

Justification:

The existing force mains have been in continuous use for more than 50 years with no prior visual inspection. The lines have worked well with little issue. However in November of 2013 the Bay and Scenic pump station's force main had a partial blockage causing high run times. This development uncovered a weakness in staff knowledge of these lines and their remaining useful life. The recently developed SSMP calls for a working knowledge of the condition of the force mains from all pump stations that are in CAWD service area. The distance of these force mains are of some concern because by-passing them in an emergency would be a large and very expensive project. This work is required to properly plan and budget for any repairs, and it will allow staff to avoid costly emergency repair work in the future.

	Prior	14-15	15-16	16-17	17-18	18-19	19-20	Total
Expenditures:		$30,000						$ 30,000

Funding Source:

There is $50,000 from previous years budget

Budget Impact/Other:

Budget Items	14-15	15-16	16-17	17-18	18-19	19-20	Total
Labor	$28,000						$ 28,000
Parts & Supplies	$2,000						$ 2,000
Chemicals							$ -
Utility							$ -
Other							
Total	$ 30,000	$ -	$ -	$ -	$ -	$ -	$ 30,000

FY 2014-15 Budget
Carmel Area Wastewater District

Project Name: **H2S scrubber for Calle La Cruz PS**
Dept: Collections
Total Cost: $ 72,000
CY Budget $ 12,000
Account: 2254

Contact: Lauer
Type: Pump Stations
Useful Lif 20 years
Category: Capital Improvement
Urgency: 2 = Very Important
Carry Forv No

Description:

Investigate, design and install process equipment to neutralize H2S gas concentration in the Calle La Cruz wet well. This H2S scrubber will be used to prevent deterioration of the Calle La Cruz pump station, piping, manholes and other District assests caused by H2S gasses. First year will be to perform appropriate testing and sampeling to adequately size the perminent equipement. The second year will be the installation of the equipment.

Justification:

Since the addition of the Highlands Pump Station forcemain into the Calle La Cruz wet well, staff has noted an increase in the deterioration of the wet well and supporting infrastructure do to H2S gas. The wet well had suffered considerably in the past few years casusing staff to rehabilitate the wet well in 2013 to provide the wetwell with improved resistance to the H2S gas. Recent inpsection of attached piping and manholes have indicated that the gas is damaging more than the wet well itself. Odor complaints have also occured in the past do to Hydrogen Sulfide. In order to remove the high concentration of H2S gasses at the pump station it is recommended that a ventilation system be installed to prevent the deterioration of the wet well and the surrounding infrastructure.

Expenditures:	$ 12,000	$ 60,000					$ 72,000

Funding Source:

Capital Reserves

Budget Impact/Other:

Budget Items	14-15	15-16	16-17	17-18	18-19	19-20	Total
Labor							$ -
Parts & Supplies							$ -
Chemicals							$ -
Utility							$ -
Other - Contract	$ 12,000	$ 60,000					$ 72,000
Total	$ 12,000	$ 60,000	$ -	$ -	$ -	$ -	$ 72,000

FY 2014-15 Budget
Carmel Area Wastewater District

Project Name: **Remove and Replace sewer lines**
Dept: Collections
Total Cost: $ 2,000,000
CY Budget $ -
Account: 2280

Contact: Lauer
Type: CIP
Useful Life: 50 years
Category: Capital Improvement
Urgency: 3 = Important
Carry Forwa No

Description:

Remove and replace 4000' of sewer line per year utilizing the sewer line rating system derived from video taken of the entire system and starting with the line segments in the worst shape. Grading of pipe defects will be based on the industry standard Pipeline Assessment and Certification Program (PACP) ranking system. As pipes are indentified staff will prepare RFP's and indentify qualified private contractors to perform this work. This work will not be performed by District staff due to the need for heavy equipment that the District does not own and the need for many additional employees to accomplish all tasks during construction.

Justification:

The condition assessment has been completed and the data is here for review. What was done is the complete assessment of all of CAWD's sewer lines using CCTV. This assessment was performed using the ICOM computer based management program. The first step was to perform a complete assessment using CCTV, this part is now complete. Now that we have the data the ICOM program rates all the sewer pipes using a severity index rating system 1-5 with 1 being a pipe that has no defects and is in good shape and 5 being a line segment with one or more structural defects. Using ICOM we can address the worst pipes in the district and maintain the lines with a rating of 3-4 using more frequent cleaning or root foaming to prolong there lifespan until lines that are in worst shape are repaired. By replacing 4000' a year for 10 years along with the spot repair program and a complete CCTV assessment again in 5 years we will be on track to the proper management of the collection system sewer lines.

Will include looking at manholes along the route and replacing if necessary.

	Prior	14-15	15-16	16-17	17-18	18-19	19-20	Total
Expenditures:				$ 750,000	$ 350,000	$ 500,000	$ 500,000	$ 2,100,000

Funding Source:

Capital Reserves

Budget Impact/Other:

Budget Items	14-15	15-16	16-17	17-18	18-19	19-20	Total
Labor							$ -
Parts & Supplies							$ -
Chemicals							$ -
Utility							$ -
Other			$ 750,000	$ 350,000	$ 500,000	$ 500,000	$ 2,000,000
Total	$ -	$ -	$ 750,000	$ 350,000	$ 500,000	$ 500,000	$ 2,000,000

FY 2014-15 Budget
Carmel Area Wastewater District

Project Name: **Remove and Replace Manholes**
Dept: Collections
Total Cost: $ 150,000
CY Budget $ -
Account: 2280

Contact: Lauer
Type: CIP
Useful Life: 50 years
Category: Capital Improvement
Urgency: 3 = Important
Carry Forwa No

Description:
Remove and replace 5 manholes annually. The manhole condition assessment will recommend which of the District's 1500 manholes should either be replaced or rehabilitated.

Justification:
The condition assessment of manholes will begin in late 2014 and take approximately two years to complete. It is recommended by staff to prepare for the replacement of an estimated 15 manholes that are nearing the end of their asset life.

	Prior	14-15	15-16	16-17	17-18	18-19	19-20	Total
Expenditures:					$ 50,000	$ 50,000	$ 50,000	$ 150,000

Funding Source:

Capital Reserves

Budget Impact/Other:

Budget Items	14-15	15-16	16-17	17-18	18-19	19-20	Total
Labor				$ 40,000	$ 40,000	$ 40,000	$ 120,000
Parts & Supplies				$ 10,000	$ 10,000	$ 10,000	$ 30,000
Chemicals							$ -
Utility							$ -
Other							
Total	$ -	$ -	$ -	$ 50,000	$ 50,000	$ 50,000	$ 150,000

FY 2014-15 Budget
Carmel Area Wastewater District

Project Name: **Relocation of the Calle La Cruz PS**
Dept: Collections
Total Cost: $ 700,000
CY Budget $ -
Account: 2224

Contact: Lauer
Type: Pump Stations
Useful Lif 50 years
Category: Capital Improvement
Urgency: 5 = Future
Carry Forv No

Description:
Design plans for the relocation of the Calle La Cruz pump station to higher ground due to concerns of flooding. The Hwy 1 Causeway Project has the potential to divert water to the lagoon area that could inundate the pump station.

Justification:
The pump station cannot operate for extended periods under flood conditions. When the County of Monterey builds the Lagoon wall and the planned flood causeway under the highway the level of the lagoon at flood stage will put the Calle La Cruz Pump Station in danger. The intent is to move the pump station to the west of the existing location and raise the structure. At that ime it will also be waterpoofed. The District owns sufficient land to move the pump station to the west corner of our parcel.

	Prior	14-15	15-16	16-17	17-18	18-19	Unscheduled	Total
Expenditures:							$ 700,000	$ 700,000

Funding Source:

Capital Reserves

Budget Impact/Other:

Budget Items	14-15	15-16	16-17	17-18	18-19	Unscheduled	Total
Labor							$ -
Parts & Supplies							$ -
Chemicals							$ -
Utility							$ -
Other						$ 700,000	$ 700,000
Total	$ -	$ -	$ -	$ -	$ -	$ 700,000	$ 700,000

CARMEL AREA WASTEWATER DISTRICT COLLECTION DEPT
CAPITAL PURCHASES FY 2014/15 - 2018/19

	PURCHASE ITEM	14/15	15/16	16/17	17/18	18/19	Unscheduled
1	Replace Unit #15 CCTV Van	$230,000					
2	Replace Unit #5 Ford Hydro-Cleaning truck		$180,000				
3	Replace Electrical Panel at 8th and Scenic PS			$35,000			
4	Replace Unit #6 Canyon round truck			$35,000			
5	Replace Pumps at Highlands PS				$40,000		
6	Replace Collection Superintendent Truck (2009)					$35,000	
7	Replace Pumps at Monte Verde PS					$19,340	
8	Replace Pumps at Bay & Scenic PS					$10,000	
9	Replace VacCon truck						$300,000
10	Replace Backhoe (Collection 75%, Operations 25%)						$75,000
11	Replace generator for Highlands						$50,000
	TOTALS						
		$230,000	**$180,000**	**$70,000**	**$40,000**	**$73,680**	**$425,000**

FY 2014-15 Budget
Carmel Area Wastewater District

Project Name: **CCTV Van**
Dept: Collections
Total Cost: $ 230,000
CY Budget $ 230,000
Account: 2720

Contact: Lauer
Type: Other
Useful Lif 15 years
Category: Capital Equipment
Urgency: 2 = Very Important
Carry Forv No

Description:

The purchase of a new Closed-circuit television van with GPS locator and compatible push camera. The van style that is recommended is a low-box with a walk through cab to the working area. The van will come complete with a operator room with computer and controls. The work area has a work bench to preform repairs and storage of equipment. This unit will include two tractors; one for small pipes and one steerable tractor that can be increased to inspect large pipes. The push camera will be integrated to provide video for lines that the tractors cannot access. A GPS gimbal will be integrated with the asset management program to provide the ability to get and retain exact location of Districts assets.

Sale of existing van is possible - there has been some interest expressed by City of Soledad

Justification:

The existing CCTV van is a 1995 model purchased used in 2005 with an upgrade of the tractor in 2012. Due to the van's age (19 years old) staff has had to address brake, steering and suspension problems throughout 2013 ultimately having to out-source inspections of the Districts assets. While staff has to be commended for performing 3/4 or 328,521 feet of inspections out of the 408,581 feet in the District, the outsourcing has proven to be costly at $1.25 per foot. The remaining 80,000 feet cost $100,223. Knowing this it would cost the District $510,726 to inspect all 408,581 feet of the District's pipe lines. Staff has completed the initial inspection and the condition assessment is almost complete, however as stated, as well as mandated by the District's SSMP the continual inspection of the District's assets must be re-evaluated on a 5 year rotation. This does not include the post inspection of a line segment that is involved in a SSO. Having a District owned CCTV van would cost far less than having to call on an outside contractor to respond on a emergency basis. The CCTV van is the single most important tool for gathering information for the condition assessment of CAWD's collection lines.

	Prior	14-15	15-16	16-17	17-18	18-19	19-20	Total
Expenditures:		$ 230,000						$ 230,000

Funding Source:

Capital Reserves

Budget Impact/Other:

Budget Items	14-15	15-16	16-17	17-18	18-19	19-20	Total
Labor							$ -
Parts & Supplies							$ -
Chemicals							$ -
Utility							$ -
Other - Equipment	$ 230,000						$ 230,000
Total	$ 230,000	$ -	$ -	$ -	$ -	$ -	$ 230,000

FY 2014-15 Budget
Carmel Area Wastewater District

Project Name: **Replace unit #5 Hydro-cleaning truck**
Dept: Collections
Total Cost: $ 180,000
CY Budget $ -
Account: 2720

Contact: Lauer
Type: CIP
Useful Life: 15 years
Category: Capital Equipment
Urgency: 3 = Important
Carry Forwa No

Description:

Replacement of the 1998 Ford hydro-cleaning truck.
Hydro-cleaning is a non-mechanical, non-destructive process that uses pressurized water to break up any in pipe obstruction.

Justification:

The Ford hydro-cleaning truck was purchased in 1998 and has been in service for 16 years. The truck has a 1600 gallon capacity and 600' of 1" hose used to clean large diameter sewer lines. It is also used to flush low flow sewer lines as well as an invaluable secondary cleaning truck to the VacCon. The Air Pollution Control Board indicated that the new Vehicle Emissions Regulations call for all vehicles to meet the smog regulations by 2015. The retrofit smog system for this vehicle would cost approximately $30,000 along with the maintenance up-keep of a vehicle that has 10,130 hours of service would only prolong the service life a couple of years. With the addition of a new hydro-cleaning truck this would give staff a vehicle with a smaller footprint than the VacCon allowing for cleaning in tight spaces. The VacCon holds 800 gallons of water to clean with, which means more driving time back to the Treatment Plant to refill water and in turn uses more fuel. The new cleaning truck would hold 1600 gallons, giving the crew the ability to clean twice as much before having to drive back to refill with water, thus saving on fuel.

	Prior	14-15	15-16	16-17	17-18	18-19	19-20	Total
Expenditures:			$ 180,000					$ 180,000

Funding Source:

Capital Reserves

Budget Impact/Other:

Budget Items	14-15	15-16	16-17	17-18	18-19	19-20	Total
Labor							$ -
Parts & Supplies							$ -
Chemicals							$ -
Utility							$ -
Other - Equipment		$ 180,000					$ 180,000
Total	$ -	$ 180,000	$ -	$ -	$ -	$ -	$ 180,000

FY 2014-15 Budget
Carmel Area Wastewater District

Project Name: **Electrical Panel at 8th & Scenic Pump Station**
Dept: Collections
Total Cost: $35,000
CY Budget $ -
Account: 2253

Contact: Lauer
Type: Pump Stations
Useful Life: 30 years
Category: Maintenance
Urgency: 3 = Important
Carry Forwa No

Description:
Replacement of the 30 year old electrical panel at 8th & Scenic Pump Station

Justification:
The current panel has been in service for over 30 years. Due to the ocean air and humidity this station has experienced corrosion to the breakers and switches. It is recommended to replace the current electrical panel with a Tesco control panel in order to remain uniform with all other pump stations.

	Prior	14-15	15-16	16-17	17-18	18-19	19-20	Total
Expenditures:				$35,000				$ 35,000

Funding Source:

Capital Reserves

Budget Impact/Other:

Budget Items	14-15	15-16	16-17	17-18	18-19	19-20	Total
Labor							$ -
Parts & Supplies			$35,000				$ 35,000
Chemicals							$ -
Utility							$ -
Other							
Total	$ -	$ -	$35,000	$ -	$ -	$ -	$ 35,000

FY 2014-15 Budget

Carmel Area Wastewater District

Project Name: **Replacement of Canyon Round truck**
Dept: Collections
Total Cost: $35,000
CY Budget $ -
Account: 2780

Contact: Lauer
Type: CIP
Useful Life: 15 years
Category: Capital Equipment
Urgency: 4 = Less Important
Carry Forwa No

Description:

Replacement of the 2001 Chevy 4x4 (Unit #6) which currently has 146,902 miles.

Justification:

This truck is used to tow the hand-rods when performing the task of checking the remote easements. Due to the high milege of this unit the maintenance cost's will escalate in order to keep this vehicle performing to standards. Staff recommends the replacement of the 2001 Chevy 4x4 with a comparable new truck.

	Prior	14-15	15-16	16-17	17-18	18-19	19-20	Total
Expenditures:				$35,000				$ 35,000

Funding Source:

Capital Reserves

Budget Impact/Other:

Budget Items	14-15	15-16	16-17	17-18	18-19	19-20	Total
Labor							$ -
Parts & Supplies							$ -
Chemicals							$ -
Utility							$ -
Other - Equipment			$35,000				$ 35,000
Total	$ -	$ -	$35,000	$ -	$ -	$ -	$ 35,000

FY 2014-15 Budget
Carmel Area Wastewater District

Project Name: **Pumps for Highlands Pump Station**
Dept: Collections
Total Cost: $40,000
CY Budget $ -
Account: 2258

Contact: Lauer
Type: Pump Stations
Useful Life: 25 years
Category: Capital Equipment
Urgency: 3 = Important
Carry Forwa No

Description:
Replace model 3152 Flygt pumps at Highlands pump station with the new model 3153 Flygt.

Justification:
The Flygt pump model 3152 was discontinued a few years ago. It is a recommendation by Flygt to switch to the new model 3153 high head pump. These pumps have been in service for over 10 years, but have several rebuilds on each one of them.

	Prior	14-15	15-16	16-17	17-18	18-19	19-20	Total
Expenditures:					$40,000			$ 40,000

Funding Source:

Capital Reserves

Budget Impact/Other:

Budget Items	14-15	15-16	16-17	17-18	18-19	19-20	Total
Labor							$ -
Parts & Supplies							$ -
Chemicals							$ -
Utility							$ -
Other - Equipment				$40,000			$ 40,000
Total	$ -	$ -	$ -	$40,000	$ -	$ -	$ 40,000

FY 2014-15 Budget

Carmel Area Wastewater District

Project Name: **Collection Superintendent Truck # 17**
Dept: Collections
Total Cost: $35,000
CY Budget $ -
Account: 2780

Contact: Lauer
Type: CIP
Useful Life 10 years
Category: Capital Equipment
Urgency: 4 = Less Important
Carry Forv No

Description:

Replace 2009 Chevy 4x4 currently used by the Collection Superintendent.

Justification:

The replacement of the 2009 Chevy 4X4 (unit #17) which currently has 53,398 miles on it. This truck is the Collection Superintendent's truck as well as the main vehicle for collection's staff to use for transportation to conferences and training.

	Prior	14-15	15-16	16-17	17-18	18-19	19-20	Total
Expenditures:						$35,000		$ 35,000

Funding Source:

Capital Reserves

Budget Impact/Other:

Budget Items	14-15	15-16	16-17	17-18	18-19	19-20	Total
Labor							$ -
Parts & Supplies							$ -
Chemicals							$ -
Utility							$ -
Other - Equipment					$35,000		$ 35,000
Total	$ -	$ -	$ -	$ -	$35,000	$ -	$ 35,000

FY 2014-15 Budget
Carmel Area Wastewater District

Project Name: **Monte Verde & 16th pump station**
Dept: Collections
Total Cost: $ 19,340
CY Budget $ -
Account: 2252

Contact: Lauer
Type: Pump Stations
Useful Life: 25 years
Category: Maintenance
Urgency: 4 = Less Important
Carry Forwa No

Description:
Replacement of existing Flygt model 3127 pumps at Monte Verde & 16th.

Justification:
These pumps will be nearing the end of their life span and it is recommended that they be replaced with the same model Flygt pump. In 2018-19 they will be nearly 20 years old and will not be as efficient as new pumps.

	Prior	14-15	15-16	16-17	17-18	18-19	19-20	Total
Expenditures:						$ 19,340		$ 19,340

Funding Source:

Capital Reserves

Budget Impact/Other:

Budget Items	14-15	15-16	16-17	17-18	18-19	19-20	Total
Labor							$ -
Parts & Supplies							$ -
Chemicals							$ -
Utility							$ -
Other - Equipment					$ 19,340		$ 19,340
Total	$ -	$ -	$ -	$ -	$ 19,340	$ -	$ 19,340

FY 2014-15 Budget

Carmel Area Wastewater District

Project Name: **Bay & Scenic Pump Station**
Dept: Collections
Total Cost: $ 10,000
CY Budget $ -
Account: 2251

Contact: Lauer
Type: CIP
Useful Life: 25 years
Category: Capital Equipment
Urgency: 4 = Less Important
Carry Forwa No

Description:

Replacement of existing Flygt model 3127 pumps at Bay & Scenic Pump Station

Justification:

These pumps will be nearing the end of their life span and it is recommended that we replace with the same model Flygt pump. In 2018-19 they will be almost 20 years old and will not be as efficient as new pumps.

	Prior	14-15	15-16	16-17	17-18	18-19	19-20	Total
Expenditures:						$ 10,000		$ 10,000

Funding Source:

Capital Reserves

Budget Impact/Other:

Budget Items	14-15	15-16	16-17	17-18	18-19	19-20	Total
Labor							$ -
Parts & Supplies							$ -
Chemicals							$ -
Utility							$ -
Other - Equipment					$ 10,000		$ 10,000
Total	$ -	$ -	$ -	$ -	$ 10,000	$ -	$ 10,000

FY 2014-15 Budget
Carmel Area Wastewater District

Project Name: **VacCon truck**
Dept: Collections
Total Cost: $300,000
CY Budget $ -
Account: 2720

Contact: Lauer
Type: Equipment
Useful Life: 10 years
Category: Capital Equipment
Urgency: 3 = Important
Carry Forwa No

Description:
Replace VacCon cleaning truck purchased in 2008.

Justification:
The VacCon was purchased in 2008 for $280K with an expected life span of 10-12 years. This vehicle is one of the primary tools used by Collections to manage the system. It is increasingly used by the Treatment Plant to do various jobs around the facility -- clean wet wells, sumps, trenching.

	Prior	14-15	15-16	16-17	17-18	18-19	Unscheduled	Total
Expenditures:							$ 300,000	$ 300,000

Funding Source:

Capital Reserves

Budget Impact/Other:

Budget Items	14-15	15-16	16-17	17-18	18-19	Unscheduled	Total
Labor							$ -
Parts & Supplies							$ -
Chemicals							$ -
Utility							$ -
Other - Equipment						$ 300,000	$ 300,000
Total	$ -	$ -	$ -	$ -	$ -	$ 300,000	$ 300,000

FY 2014-15 Budget
Carmel Area Wastewater District

Project Name: **John Deere Backhoe**
Dept: Collections
Total Cost: $ 75,000
CY Budget $ -
Account: 2720

Contact: Lauer
Type: CIP
Useful Life: 25 years
Category: Capital Equipment
Urgency: 5 = Future
Carry Forwa No

Description:

Replacement of the 1991 John Deere Backhoe. It has less than 1962 hours of operations on it. In 2013 the backhoe had a major service performed renewing the life span. We estimate the backhoe will last another 10 years which places its replacement somewhere at the end of this decade.

Justification:

Staff's recommendation is to use this piece of equipment until it has failed or to run-to-fail. The District recently completed a major service of the backhoe which should extend the life of this unit for some time. It is unknown at this time what year the replacement will take place. It is recommended to place funds for the replacement into unscheduled.

	Prior	14-15	15-16	16-17	17-18	18-19	Unscheduled	Total
Expenditures:							$ 75,000	$ 75,000

Funding Source:

Capital Reserves

Budget Impact/Other:

Budget Items	14-15	15-16	16-17	17-18	18-19	Unscheduled	Total
Labor							$ -
Parts & Supplies							$ -
Chemicals							$ -
Utility							$ -
Other - Equipment						$ 75,000	$ 75,000
Total	$ -	$ -	$ -	$ -	$ -	$ 75,000	$ 75,000

FY 2014-15 Budget

Carmel Area Wastewater District

Project Name: **Highlands Generator**
Dept: Collections
Total Cost: $ 50,000
CY Budget $ -
Account: 2258

Contact: Lauer
Type: CIP
Useful Life 10 years
Category: Capital Equipment
Urgency: 5 = Future
Carry Forv No

Description:

Purchase 480 Kw generator for Highlands Pump Station

Justification:

Because of its location the Highlands Pump station seems to be particularly vulnerable to power outages. In addition, the road to the Highlands can experience delays or be difficult to access. For these reasons staff would like to replace the generator currently at the pump station with a more robust and reliable model.

	Prior	14-15	15-16	16-17	17-18	18-19	Unscheduled	Total
Expenditures:							$ 50,000	$ 50,000

Funding Source:

Capital Reserves

Budget Impact/Other:

Budget Items	14-15	15-16	16-17	17-18	18-19	Unscheduled	Total
Labor							$ -
Parts & Supplies							$ -
Chemicals							$ -
Utility							$ -
Other - Equipment						$ 50,000	$ 50,000
Total	$ -	$ -	$ -	$ -	$ -	$ 50,000	$ 50,000

CARMEL AREA WASTEWATER DISTRICT COLLECTION DEPT
MAINTENANCE FY 2014/15 - 2018/19

	MAINTENANCE PROJECT	14/15	15/16	16/17	17/18	18/19	Unscheduled
1	Root Foaming	$52,800	$66,000	$66,000	$66,000	$66,000	
2	Pump Station Generator Evaluation	$15,000					
3	Repair or Replace ARV's for Highlands FM		$20,000				
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
	TOTALS	**$67,800**	**$86,000**	**$66,000**	**$66,000**	**$66,000**	**$0**

FY 2014-15 Budget

Carmel Area Wastewater District

Project Name: **Root Foaming**
Dept: Collections
Total Cost: $ 316,800
CY Budget $ 52,800
Account: 5564

Contact: Lauer
Type: Maintenance
Useful Life 10 years
Category: Maintenance
Urgency: 3 = Important
Carry Forv No

Description:

Root control of District's sewer mains using a foaming agent. Carmel's sewer system has historically had a problem with tree roots because of the forest setting that surrounds it. Root foaming is a cost effective method of managing those roots

The root foaming program will be integrated into ICOM as part of the Collection System preventative maintenance program.

Justification:

The condition assessment has shown that roots are the number one problem in the District's collection system.
Along with routine cleaning, root foaming will help combat our root problem and help reduce SSO due to roots.

	Prior	14-15	15-16	16-17	17-18	18-19	19-20	Total
Expenditures:		$ 52,800	$ 66,000	$ 66,000	$ 66,000	$ 66,000		$ 316,800

Funding Source:

O&M Budget - user fee revenue

Budget Impact/Other:

Budget Items	14-15	15-16	16-17	17-18	18-19	19-20	Total
Labor							$ -
Parts & Supplies							$ -
Chemicals	$ 52,800	$ 66,000	$ 66,000	$ 66,000	$ 66,000		$ 316,800
Utility							$ -
Other							
Total	$ 52,800	$ 66,000	$ 66,000	$ 66,000	$ 66,000	$ -	$ 316,800

FY 2014-15 Budget
Carmel Area Wastewater District

Project Name: **Generator Assessment**
Dept: Collections
Total Cost: $ 15,000
CY Budget $ 15,000
Account: 5572

Contact: Lauer
Type: CIP
Useful Lif 15 years
Category: Capital Improvement
Urgency: 3 = Important
Carry Forv No

Description:

Assessment of generator performance at pump stations. Although the generators at each pump station are turned on monthly to test that they are not subject to any sort of stress or load testing. Staff proposes that generators be evaluated to ensure they are performing appropriately.

Justification:

During power outages or stormy weather the pump stations depend on their generators to ensure continued performance. Evaluating each generator will ensure that the District pump stations continue to function during emergency situations and also allows us to better calculate lifespan of these assets.

	Prior	14-15	15-16	16-17	17-18	18-19	19-20	Total
Expenditures:		$ 15,000						$ 15,000

Funding Source:

Capital Reserves

Budget Impact/Other:

Budget Items	14-15	15-16	16-17	17-18	18-19	19-20	Total
Labor							$ -
Parts & Supplies							$ -
Chemicals							$ -
Utility							$ -
Other - Contract	$ 15,000						$ 15,000
Total	$ 15,000	$ -	$ -	$ -	$ -	$ -	$ 15,000

FY 2014-15 Budget

Carmel Area Wastewater District

Project Name: **Replacement of ARV's on Highlands FM**
Dept: Collections
Total Cost: $ 20,000
CY Budget $ -
Account: 5572

Contact: Lauer
Type: Pump Stations
Useful Life: 10 years
Category: Maintenance
Urgency: 3 = Important
Carry Forward:

Description:

Replacement of Air Release Valves on the Highlands force main.

Justification:

There are currently four different kinds of ARV that are on the FM. It is recommended that there is one uniform ARV for all eight ARV's.

	Prior	14-15	15-16	16-17	17-18	18-19	19-20	Total
Expenditures:			$ 20,000					$ 20,000

Funding Source:

O&M - user fee revenue

Budget Impact/Other:

Budget Items	14-15	15-16	16-17	17-18	18-19	19-20	Total
Labor							$ -
Parts & Supplies		$ 20,000					$ 20,000
Chemicals							$ -
Utility							$ -
Other							
Total	$ -	$ 20,000	$ -	$ -	$ -	$ -	$ 20,000

CARMEL AREA WASTEWATER DISTRICT TREATMENT PLANT

CAPITAL IMPROVEMENT PROJECTS - FY 2014/15 - FY 2018/19

	PROJECT	14/15	15/16	16/17	17/18	18/19	Unsched
1	Demolition of lunchroom & Replace with Construction of Prefab Building	$325,000					
2	Rehabilitate/Replace Natural gas lines	$250,000					
3	Install Grinder, Rehab Inlet Gates & Interconnect Gates in Influent Wet Well (*Reclamation 15%*)	$175,000					
4	Plant Lighting	$175,000					
5	Perimeter fence	$140,000					
6	Rebuild Effluent Pumps (2)	$105,000					
7	Rehab/Recoat Primary Clarifer	$100,000	$100,000				
8	Rehab/Recoat Secondary Clarifier	$100,000	$100,000				
9	Outfall Project in Lagoon - Construction	$75,000	$500,000				
10	Reliability study of SCADA, PLC, and Communication Systems (*Reclamation 50%*)	$72,500		$700,000			
11	Outfall Project in Lagoon - Environmental & Permitting	$70,000					
12	Field Instrument Study/Repair/Rplc and Modifications (*Reclamation 25%*)	$50,000					
13	Building, Offices, & Locker Room Rehabilitation	$50,000	$100,000	$60,000			
14	Instrumentation upgrade SBS pumps at CDC install flow mtrs & totalizer (*Reclamation 100%*)	$40,000					
15	Headworks Channel Grinder Overhaul	$40,000					
16	Fuel storage tanks modifications & repairs	$35,000					
17	RAS Pump VFD	$30,000					
18	Primary scum sump mixer w/ ultrasonic level controls	$30,000					
19	Tertiary pH Adjustment System (*Reclamation 100%*)	$30,000					
20	Influent Pump Control system	$28,000					
21	Misc Physical Testing of Plant Structures/Equipment	$25,000	$25,000	$25,000	$25,000	$25,000	
22	Camera system	$25,000					
23	Upgrade Maintenance Shop lighting	$25,000					
24	Rehab Communications room (downstairs in Admin Bldg)	$25,000					
25	Influent Pump Valve replacement Project	$22,000					
26	Road improvements & drainage repairs	$15,000	$15,000	$15,000	$15,000	$15,000	
27	Chlorine Analyzer (DEOX 2000 - Effluent Pump Station)	$14,000					
28	Effluent Room Electrical Rehab/Upgrade		$200,000				
29	Reconstruct mezzanine in Maintenance shop		$60,000				
30	Equalization Spray System (*Reclamation 50%*)		$40,000				
31	Rehab/Recoat Grit Collector		$40,000				
32	Rehabilitate Maintenance Shop exterior		$35,000				
33	Effluent Pump(s) VFD		$35,000				
34	Pipe Storage Area		$20,000				
35	Co-Gen Feasibility			$40,000			
36	Modify storage area in Maintenance Shop & Office			$20,000			
37	Demo bridge at Treatment Plant across Carmel River				$210,000		
38	Digester # 1 Cleaning				$168,000		
	TREATMENT & DISPOSAL TOTAL	**$2,071,500**	**$1,270,000**	**$860,000**	**$418,000**	**$40,000**	**$0**
	RECLAMATION SHARE (1)	$234,750	$20,000	$350,000	$0	$0	$0
	PBCSD SHARE (2)	$612,250	$416,667	$170,000	$83,333	$13,333	$0
	CAWD COST	**$1,224,500**	**$833,333**	**$340,000**	**$334,667**	**$26,667**	**$0**

(1) PBCSD to pay 1/3 of costs. (After Reclamation portion deducted, if applicable) unless otherwise noted. *Projects in italics are not funded directly by PBCSD*

FY 2014-15 Budget

Carmel Area Wastewater District

Project Name: **Demolition of lunchroom & replace with Prefab Building**
Dept: Treatment
Total Cost: $ 325,000
CY Budget $ 325,000
Account:

Contact: Lander
Type: Administration
Useful Life: 15 years
Category: Capital Improvement
Urgency: 2 = Very Important
Carry Forv No

Description:

As part of the Long Term Capital Plan the electrical infrastructure of the Plant is being rehabilitated. Rather than build a new structure for electrical controls the plan is to use the locker rooms in the ground floor of the Admin Bldg. (running conduit along the ceilings) Both locker rooms and washroom facilities will no longer be available.

Long term plans include the construction of a new building to house combined Treatment & Collection locker rooms, a new lunchroom, a conference room large enough for the entire staff, and assorted offices. We will retire all offices that currently reside in various trailers.

Justification:

A Prefab Building will easily suffice for 10-15 years while improvements are made to the physical plant to improve reliability and rehabilitate those structures that require it. The priority now is to provide adequate locker room space, a lunchroom facility, and a meeting room that will fit the entire staff comfortably. We have tentatively scheduled a permanent structure in 2026-27 or in 13 years.

	Prior	14-15	15-16	16-17	17-18	18-19	19-20	Total
Expenditures:		$ 325,000						$ 325,000

Funding Source:

Capital Reserves

Budget Impact/Other:

Budget Items	14-15	15-16	16-17	17-18	18-19	19-20	Total
Labor							$ -
Parts & Supplies							$ -
Chemicals							$ -
Utility							$ -
Other - Contract	$ 300,000						$ 300,000
Total	$ 300,000	$ -	$ -	$ -	$ -	$ -	$ 300,000

FY 2014-15 Budget
Carmel Area Wastewater District

Project Name: **Rehabilitate/Replace Natural Gas Lines**
Dept: Treatment
Total Cost: $ 400,000
CY Budget $ 250,000
Account:

Contact: Pinkevich
Type: CIP
Useful Lif 25 years
Category: Capital Improvement
Urgency: 3 = Important
Carry Forv Yes

Description:

The project will include bringing a new line across the river either attached to the bridge or under the river and lines within the plant. This project will abandon the current piping system and will efficiently and effectively route new gas lines where needed.

Staff plans to examine alternatives to use of natural gas (i.e. radiant heating, methane water heater, and new microturbine technologies). The District goal to be energy self-sufficient or to generate its own power will be considered in sizing the line large enough to consider other technologies.

Current size of line is 1 1/2 in. We will coordinate with PG&E but may be constrained on the size of line we can have enter the plant by PG&E limitations across the river. The other alternative is to come off of Hwy 1 - longer distance but may allow a larger line size.

Justification:

Currently, a large portion of the plant (roughly 75%) is without natural gas and is unable to operate their water heater for showers or gas heaters. The current system is not passing pressure tests and has been out of service for the past year. The system is approximately 70 years old – less areas of repair.

	Prior	14-15	15-16	16-17	17-18	18-19	19-20	Total
Expenditures:	$ 150,000	$ 250,000						$ 400,000

Funding Source:

Capital Reserves

Budget Impact/Other:

Budget Items	14-15	15-16	16-17	17-18	18-19	19-20	Total
Labor							$ -
Parts & Supplies							$ -
Chemicals							$ -
Utility							$ -
Other - contract	$ 250,000						$ 250,000
Total	$ 250,000	$ -	$ -	$ -	$ -	$ -	$ 250,000

FY 2014-15 Budget
Carmel Area Wastewater District

Project Name: **Install Grinder, Rehab Inlet Gates & Interconnect Gates**
Dept: Treatment
Total Cost: $ 175,000
CY Budget $ 175,000
Account: 2156

Contact: Pinkevich
Type: CIP
Useful Life: 15 years
Category: Capital Improvement
Urgency: 3 = Important
Carry Forv No

Description:

These funds will be utilized for the research, engineering and installation of a grinder system that will alleviate the problems faced by staff and improve the current system.

When wastewater initially enters our facility, the first structure it enters is the "Influent Wet well". This structure is located on the north side of the influent building. The wet well itself is a sump approximately 30' long, 8' wide and 12' deep. The wastewater stays in this structure for approximately one hour depending on the influent flow rate. During this detention time, the grease, rags and other constituents which readily float rise to the surface. These accumulated materials eventually form a thick "blanket" on the surface and must be manually skimmed. This process is labor intensive, involves the use of a gas detector and requires two operators. One operator remains on the deck above the wet-well and manually manipulates the wastewater level. He also raises and lowers a skimming pump to collect the thick material from the surface. The second operator is required to enter the room where the wet-well is housed and uses hoses, shovels and other various tools to push the grease and other accumulated materials to the skimmer pump. This operator must have an atmosphere monitor with them due to the potential for hazardous environments caused by hydrogen sulfide or other dangerous gases. The material that is collected is

Justification:

The influent pumps draw suction from this wet-well and are in danger of ragging, that in turn decreases efficiency and can lead to pump failure. As part of the current maintenance schedule two operators are require to de-rag the influent pumps twice a week. A problem that can and is encountered with influent "garbage" is that is can be inconsistent. For instance, the first storms of the year will have a "scouring" effect on the influent piping and increase the grease and rags entering the Plant.

Also located in this wet well are three gates, two on the west side of the sump and one on the east, which enable staff to isolate portions of the sump as needed for maintenance, etc. While the gates are currently operational, their reliability is questionable. All three of the gates are nearing or at the end of their usable life span. The dependability of these gates is of the utmost importance due to the criticality they play in Plant operation. Staff's ability to operate the gates to re-direct flow in emergency circumstances and the extremely dangerous circumstances that would occur as the result of any one of these gates failing while being utilized make it necessary to address them now.

	Prior	14-15	15-16	16-17	17-18	18-19	19-20	Total
Expenditures:		$ 175,000						$ 175,000

Funding Source:

Capital Reserves - 15% Reclamation

Budget Impact/Other:

Budget Items	14-15	15-16	16-17	17-18	18-19	19-20	Total
Labor							$ -
Parts & Supplies							$ -
Chemicals							$ -
Utility							$ -
Other - Contract	$ 175,000						$ 175,000
Total	$ 175,000	$ -	$ -	$ -	$ -	$ -	$ 175,000

FY 2014-15 Budget
Carmel Area Wastewater District

Project Name: **Plant Lighting**
Dept: Treatment
Total Cost: $ 175,000
CY Budget $ 175,000
Account:

Contact: Lander
Type: CIP
Useful Life: 20 years
Category: Capital Improvement
Urgency: 3 = Important
Carry Forv No

Description:

Description: Replacement of lighting fixtures to meet OSHA regulations and provide work level lighting. The following buildings will receive lighting upgrades: Generator Building, Influent Pump Station, Lower Influent Wetwell, Effluent Building upstairs and downstairs, Chlorine building pipe galley, Belt Press upstairs and downstairs, Digester Heating building upstairs and downstairs.

Justification:

Function: The lighting in each of the operations areas is important for safety and for inspection. Several of the areas in the Treatment Plant do not comply with OSHA lighting requirements. These improvements will simultaneously increase the lighting levels to exceed required needs and lower the power consumption, due to better fixture efficiency.

	Prior	14-15	15-16	16-17	17-18	18-19	19-20	Total
Expenditures:		$ 175,000						$ 175,000

Funding Source:

Capital Reserves

Budget Impact/Other:

Budget Items	14-15	15-16	16-17	17-18	18-19	19-20	Total
Labor							$ -
Parts & Supplies							$ -
Chemicals							$ -
Utility							$ -
Other	$ 175,000						$ 175,000
Total	$ 175,000	$ -	$ -	$ -	$ -	$ -	$ 175,000

FY 2014-15 Budget
Carmel Area Wastewater District

Project Name: **Perimeter Fence**
Dept: Treatment
Total Cost: $ 140,000
CY Budget $ -
Account: 2159

Contact: Pinkevich
Type: Administration
Useful Lif 15 years
Category: Capital Improvement
Urgency: 3 = Important
Carry Forv No

Description:

Replace the current chain link fence around the facility with a six foot chain link topped by a 2 foot barbed wire. During the design phase staff may determine it is justifiable to have the fence higher in some sections (particularly near the trestle bridge). This project has been delayed for a number of years and with the potential extension of the walking trail system it necessary to get this project done. There will be some cost savings in mobilization to doing it all in a single year.

Over the past year there have been several conversations with various agencies in regards to creating a path that will encompass the perimeter of the plant.

When construction is progressing the contractors will be stowing their equipment onsite.

- This study and pre-design will research the following:
- Safety for public and employees
- Construction requirements
- Landscaping

Justification:

Our current wire mesh security fence-line has reached the end of its usable life and is need of replacement.

	Prior	14-15	15-16	16-17	17-18	18-19	19-20	Total
Expenditures:			$140,000					$ 140,000

Funding Source:

Capital Reserves

Budget Impact/Other:

Budget Items	14-15	15-16	16-17	17-18	18-19	19-20	Total
Labor							$ -
Parts & Supplies							$ -
Chemicals							$ -
Utility							$ -
Other - contract		$140,000					$ 140,000
Total	$ -	$140,000	$ -	$ -	$ -	$ -	$ 140,000

FY 2014-15 Budget

Carmel Area Wastewater District

Project Name: **Rebuild Effluent Pumps (2)**
Dept: Treatment
Total Cost: $ 105,000
CY Budget $ 105,000
Account: 2163

Contact: Pinkevich
Type: Effluent
Useful Lif 15 years
Category: Capital Improvement
Urgency: 3 = Important
Carry Forv No

Description:

Rebuild the effluent pumps. The existing pump system is oversized; however there has not been any maintenance performed on the pumps and to ensure their reliability and to ensure continued operations staff advises a pump rebuild.

Staff recognizes that rebuilding the pumps will not bring efficiency back. Because they are oversized it may be better to replace. However, rebuilding now will buy time as the District progress through its Long Term Capit The high service pumps been generally reliable, but staff has observed noticeable vibration during the infrequent times that they operate. There is some concern that the vibration may be related to the drive shafts and bearings, which could lead to total pump failure during a peak flow event.

Replacement is currently on the long term schedule for 2018; but rebuilding the current pumps will give the District a "comfort zone" in the event of a significant winter storm. It also provides the District with some breathing room to move the project out beyond 2018 if necessary.

Justification:

The existing low flow pump (Wemco) is used primarily to pump reverse osmosis concentrate water. The effluent pumps are sized to meet peak flow demands and are not optimized for common duty conditions but are used during winter storm events.

The replacement of these pumps were scheduled by Kennedy/Jenks but staff feels a rebuild is advisable to ensure they continue to operate until that time.

	Prior	14-15	15-16	16-17	17-18	18-19	19-20	Total
Expenditures:		$ 105,000						$ 105,000

Funding Source:

Capital Reserves

Budget Impact/Other:

Budget Items	14-15	15-16	16-17	17-18	18-19	19-20	Total
Labor	$ 35,000						$ 35,000
Parts & Supplies	$ 70,000						$ 70,000
Chemicals							$ -
Utility							$ -
Other							
Total	$ 105,000	$ -	$ -	$ -	$ -	$ -	$ 105,000

FY 2014-15 Budget

Carmel Area Wastewater District

Project Name: **Rehab/Recoat Primary Clarifier**
Dept: Treatment
Total Cost: $ 200,000
CY Budget $ 100,000
Account: 2152

Contact: Pinkevich
Type: CIP
Useful Life: 40 years
Category: Capital Improvement
Urgency: 3 = Important
Carry Forv No

Description:

Rehabilitate the Primary Clarifier structures by internal coating and/or rehabilition of concrete.

Justification:

The Primary Clarifiers remove settleable solids from the liquid treatment process.

The structures are over 40 years old which is the average useful life for this type of structure

	Prior	14-15	15-16	16-17	17-18	18-19	19-20	Total
Expenditures:		$ 100,000	$ 100,000					$ 200,000

Funding Source:

Capital Reserves

Budget Impact/Other:

Budget Items	14-15	15-16	16-17	17-18	18-19	19-20	Total
Labor							$ -
Parts & Supplies							$ -
Chemicals							$ -
Utility							$ -
Other - contract	$ 100,000	$ 100,000					$ 200,000
Total	$ 100,000	$ 100,000	$ -	$ -	$ -	$ -	$ 200,000

FY 2014-15 Budget

Carmel Area Wastewater District

Project Name: **Rehab/Recoat Secondary Clarifier**
Dept: Treatment
Total Cost: $ 200,000
CY Budget $ 100,000
Account: 2152

Contact: Pinkevich
Type: CIP
Useful Life: 40 years
Category: Capital Improvement
Urgency: 3 = Important
Carry Forv No

Description:

Rehabilitate the Secondary Clarifier structures after review and evaluation.

Justification:

The Secondary Clarifiers remove suspended and floatable biomass from the mixed liquor coming from the Aeration Basins.

The Secondary Clarifiers are 40 years old which is the average useful life for this type of structure.

	Prior	14-15	15-16	16-17	17-18	18-19	19-20	Total
Expenditures:		$ 100,000	$ 100,000					$ 200,000

Funding Source:

Capital Reserves

Budget Impact/Other:

Budget Items	14-15	15-16	16-17	17-18	18-19	19-20	Total
Labor							$ -
Parts & Supplies							$ -
Chemicals							$ -
Utility							$ -
Other - contract	$ 100,000	$ 100,000					$ 200,000
Total	$ 100,000	$ 100,000	$ -	$ -	$ -	$ -	$ 200,000

FY 2014-15 Budget

Carmel Area Wastewater District

Project Name: **Outfall Project - Lagoon**
Dept: Treatment
Total Cost: $ 575,000
CY Budget $ 75,000
Account: 2330

Contact: Pinkevich
Type: CIP
Useful Life: 50 years
Category: Capital Improvement
Urgency: 3 = Important
Carry Forv No

Description:

This project is to analyze a solution for the repair of the Calle la Cruz force main and Outfall due to the potential hazards from the Hwy 1 Causeway Project.
At this time there is a potential for installing a concrete pipe crossing very much like the influent and Reclamation lines coming into the Plant on the Carmel River.
2014-15 will be for the engineering design
2015-16 will budget is for construction.

Justification:

The Hwy 1 Causeway Project has the potential to increase the quantity and velocity of water flowing into the Carmel Lagoon and either pushing the outfall off its foundation or catching debris which could damage the pipe.

	Prior	14-15	15-16	16-17	17-18	18-19	19-20	Total
Expenditures:		$ 75,000	$ 500,000					$ 575,000

Funding Source:

Capital Reserves

Budget Impact/Other:

Budget Items	14-15	15-16	16-17	17-18	18-19	19-20	Total
Labor							$ -
Parts & Supplies							$ -
Chemicals							$ -
Utility							$ -
Other - contract	$ 75,000	$ 500,000					$ 575,000
Total	$ 75,000	$ 500,000	$ -	$ -	$ -	$ -	$ 575,000

FY 2014-15 Budget
Carmel Area Wastewater District

Project Name: **Reliability study of SCADA, PLC, & Communication Systems**
Dept: Treatment
Total Cost: $ 772,500
CY Budget $ 72,500
Account: 2162

Contact: Pinkevich
Type: CIP
Useful Life: 10 years
Category: Capital Improvement
Urgency: 3 = Important
Carry Forwa No

Description:

These funds will be used for the following purposes:

- Complete Health Check of SCADA Systems. From instrument input to PLC to network to interface.
- Development of a TM with recommendations and potential strategies for the next 10 years.

SCADA and PLC System:

Supervisory Control and Data Acquisition (SCADA) was placed in service in 1994 and has been utilized, modified, upgraded, improved and maintained ever since. SCADA is used to monitor and control several complex systems throughout the Plant and collections system and also serves as our main alarm system for each Plant process.

CAWD consist of two SCADA:

1. SCADA 1 is in the lead and is considered the brains of the Plant
2. SCADA 2 is used for editing and as a backup.

In 2016-17, as determined by the initial study, will be upgraded to current, more efficient, technologies.

Justification:

SCADA and the PLC system is a vital part of our daily operations. It is utilized to improve Plant performance and is a tool used to gather information and troubleshoot process issues. It also enables the trending of data in real time and examination of historical data. This system also collects and generates data that is reportable to our NPDES and TITLE 22 permits

	Prior	14-15	15-16	16-17	17-18	18-19	19-20	Total
Expenditures:		$ 72,500		$700,000				$ 772,500

Funding Source:

Capital Reserves

Budget Impact/Other:

Budget Items	14-15	15-16	16-17	17-18	18-19	19-20	Total
Labor							$ -
Parts & Supplies							$ -
Chemicals							$ -
Utility							$ -
Other - contract	$ 75,000		$700,000				$ 775,000
Total	$ 75,000	$ -	$700,000	$ -	$ -	$ -	$ 775,000

FY 2014-15 Budget
Carmel Area Wastewater District

Project Name: **Outfall Project in Lagoon - Environmental & Permitting**
Dept: Treatment
Total Cost: $ 70,000
CY Budget $ 70,000
Account: 2159

Contact: Pinkevich
Type: CIP
Useful Life: 25 years
Category: Capital Improvement
Urgency: 3 = Important
Carry Forv No

Description:

Several Capital Improvement projects which are currently under design, in and around the Carmel Lagoon, will require coordination and permitting from State and Federal regulators. This permitting can often be complicated and time consuming. Due to the need for expedited processing, staff requires the assistance of a specialized consultant who has established regulatory ties with these agencies. Staff will engage an environmental permitting specialist to assist with the following required permits: Nationwide Permit pursuant to the Clean Water Act (US Army Corps of Engineers), 401 Water Quality Certification (Regional Water Quality Control Board), consultation with US Fish & Wildlife Service (FWS) and National Marine Fisheries Service (NMFS), and the California Department of Fish & Wildlife (CDFW).

Justification:

In order to move the Capital Projects in the Lagoon forward staff will need to obtain additional help and expertise. The permitting process and the timing are both complex, time sensitive, and consuming

	Prior	14-15	15-16	16-17	17-18	18-19	19-20	Total
Expenditures:		$ 70,000						$ 70,000

Funding Source:

Capital Reserves

Budget Impact/Other:

Budget Items	14-15	15-16	16-17	17-18	18-19	19-20	Total
Labor							$ -
Parts & Supplies							$ -
Chemicals							$ -
Utility							$ -
Other - contract	$ 70,000						$ 70,000
Total	$ 70,000	$ -	$ -	$ -	$ -	$ -	$ 70,000

FY 2014-15 Budget
Carmel Area Wastewater District

Project Name: **Field Instrument Study/Repair/Rplc**
Dept: Treatment
Total Cost: $ 100,000
CY Budget $ 50,000
Account: 2159

Contact: Pinkevich
Type: CIP
Useful Life: 10 years
Category: Capital Improvement
Urgency: 3 = Important
Carry Forv No

Description:

Field instruments (e.g. flow meters, pressure regulators, level indicators, etc.) are the nerve endings of the SCADA system and are responsible for the measurements that are reported for diagnosis, evaluation, troubleshooting, process control and reporting.

Justification:

Funds will be utilized to develop a TM with 10 year forecast and recommendations to integrate, improve or modify our current system along with the identification and repair of instruments in need of immediate attention (e.g. nuisance alarms should be evaluated).

	Prior	14-15	15-16	16-17	17-18	18-19	19-20	Total
Expenditures:	$ 50,000	$ 50,000						$ 100,000

Funding Source:

Capital Reserves

Budget Impact/Other:

Budget Items	14-15	15-16	16-17	17-18	18-19	19-20	Total
Labor							$ -
Parts & Supplies							$ -
Chemicals							$ -
Utility							$ -
Other - contract	$ 50,000						$ 50,000
Total	$ 50,000	$ -	$ -	$ -	$ -	$ -	$ 50,000

FY 2014-15 Budget
Carmel Area Wastewater District

Project Name: **Buildings, Offices & Locker Room Rehab**
Dept: Treatment
Total Cost: $ 210,000
CY Budget $ 50,000
Account: 2151

Contact: Pinkevich
Type: CIP
Useful Lif 20 years
Category: Capital Improvement
Urgency: 3 = Important
Carry Forv No

Description:

This project will focus its attention on the following areas and will address the glaring needs of each building including but not limited to floors, paint, wall repairs, replace showers, fixtures, appliances, office equipment, desk, lighting, etc.:

- ❖ Operations locker room (men's and women's)
- ❖ Operators work area
- ❖ SCADA control center
- ❖ Operations supervisor office
- ❖ Safety officers work area
- ❖ Operators project work area
- ❖ Superintendent's trailer
- ❖ Maintenance shop offices
- ❖ Maintenance shop restrooms
- ❖ Belt press restroom

Justification:

Several offices and buildings are in need are in need of repair or rehabilitation

2014-15	Admin bldg downstairs offices
2015-16	Maintenance offices, lab locker room
2016-17	Misc office upgrades

	Prior	14-15	15-16	16-17	17-18	18-19	19-20	Total
Expenditures:		$ 50,000	$ 100,000	$ 60,000				$ 210,000

Funding Source:

Capital reserves

Budget Impact/Other:

Budget Items	14-15	15-16	16-17	17-18	18-19	19-20	Total
Labor							$ -
Parts & Supplies							$ -
Chemicals							$ -
Utility							$ -
Other - contract	$ 50,000	$ 100,000	$ 60,000				$ 210,000
Total	$ 50,000	$ 100,000	$ 60,000	$ -	$ -	$ -	$ 210,000

FY 2014-15 Budget
Carmel Area Wastewater District

Project Name: **Instrumentation Upgrade SBS pumps at CDC**
Dept: Treatment
Total Cost: $ 40,000
CY Budget $ 40,000
Account: 2158

Contact: Pinkevich
Type: Chlor/Dechlor
Useful Life: 10 years
Category: Capital Improvement
Urgency: 3 = Important
Carry Forv No

Description:

Staff is recommending that the existing SBS injection line for de-chlorination be equipped with flow meters and totalizers. In 2007 the Chlorination building was equipped with four new SBS injection systems. Those new systems were for the benefit of de-chlorinating all water relating to the MF/RO process.

There are two SBS systems in the room that were pre-existing to address all water relating to the CAWD ocean discharge. All SBS systems draw from the same SBS inventory outside the building (8000 gals.) During any priod night or day water could be coming from the storage tank addressing any number of different flow streams for CAWD or MF/RO

Justification:

Right now there is no way to tell exactly how much SBS should be charged to the separate facilities because there are no meters on the separate systems. Staff believes this can be accomplished with some outside expertise in small flow chemical metering engineering injection systems contracting and installation. Staff would also like to connect this flow metering to the SCADA system.

	Prior	14-15	15-16	16-17	17-18	18-19	19-20	Total
Expenditures:		$ 40,000						$ 40,000

Funding Source:

Capital Reserves

Budget Impact/Other:

Budget Items	14-15	15-16	16-17	17-18	18-19	19-20	Total
Labor							$ -
Parts & Supplies							$ -
Chemicals							$ -
Utility							$ -
Other - contract	$ 40,000						$ 40,000
Total	$ 40,000	$ -	$ -	$ -	$ -	$ -	$ 40,000

FY 2014-15 Budget
Carmel Area Wastewater District

Project Name: **Headworks Channel Grinder Overhaul**
Dept: Treatment
Total Cost: $ 40,000
CY Budget $ 40,000
Account: 2154

Contact: Pinkevich
Type: Headworks
Useful Lif 5 years
Category: Capital Improvement
Urgency: 3 = Important
Carry Forv No

Description:

Manufacture's recommendations include a total "grinder gear stack" overhaul every five years for the screenings grinder installed at the headworks in 2003.

Justification:
It has been 11 years since the last overhaul - it has exceeded recommendations.

	Prior	14-15	15-16	16-17	17-18	18-19	19-20	Total
Expenditures:		$ 40,000						$ 40,000

Funding Source:

Capital Reserves

Budget Impact/Other:

Budget Items	14-15	15-16	16-17	17-18	18-19	19-20	Total
Labor							$ -
Parts & Supplies							$ -
Chemicals							$ -
Utility							$ -
Other - contract	$ 40,000						$ 40,000
Total	$ 40,000	$ -	$ -	$ -	$ -	$ -	$ 40,000

FY 2014-15 Budget
Carmel Area Wastewater District

Project Name: **Fuel storage tank modifications & repairs**
Dept: Treatment
Total Cost: $ 35,000
CY Budget $ 35,000
Account: 2159

Contact: Pinkevich
Type: Administration
Useful Life: 10 years
Category: Capital Improvement
Urgency: 3 = Important
Carry Forv No

Description:

This project will encompass grading the concrete base for proper drainage and resetting both fuel tanks with the proper footings.

Justification:

The fuel storage gas tanks base are currently set directly on the ground leaving them exposed to the elements, thereby causing rust.

	Prior	14-15	15-16	16-17	17-18	18-19	19-20	Total
Expenditures:		$ 35,000						$ 35,000

Funding Source:

Capital Reserves

Budget Impact/Other:

Budget Items	14-15	15-16	16-17	17-18	18-19	19-20	Total
Labor							$ -
Parts & Supplies							$ -
Chemicals							$ -
Utility							$ -
Other - contract	$ 35,000						$ 35,000
Total	$ 35,000	$ -	$ -	$ -	$ -	$ -	$ 35,000

FY 2014-15 Budget
Carmel Area Wastewater District

Project Name: **RAS Pump VFD**
Dept: Treatment
Total Cost: $ 30,000
CY Budget $ 30,000
Account: 2155

Contact: Pinkevich
Type: CIP
Useful Life: 15 years
Category: Capital Improvement
Urgency: 3 = Important
Carry Forv No

Description:

Replace Return Activated Sludge (RAS) Pumps VFDs.

RAS refers to the sludge settled in the clarifier that is returned to the aeration tank. Proper management of the RAS is important to the efficiency of the activated sludge process because: (a) RAS provides a source of organisms that is returned to the activated sludge process, (b) by changing the RAS rate, we can control the concentration of organisms in the aeration tank and maintain the proper Food:Micro-organism ration for best performance, (c) the well being of the aerobic organisms deteriorate as long as they remain in the secondary clarifier. If sludge remains in the clarifier too long, the aerobic organisms will die, and (d) increasing RAS rates increases may cause overloading of the activated sludge system if not done properly.

Justification:

A Variable Frequency Drive is a type of adjustable-speed drive used to control motor speed and torque by varying motor frequency and voltage. VFDs provide two primary benefits: (1) energy Savings and, (2) control performance.

	Prior	14-15	15-16	16-17	17-18	18-19	19-20	Total
Expenditures:		$ 30,000						$ 30,000

Funding Source:

Capital Reserves

Budget Impact/Other:

Budget Items	14-15	15-16	16-17	17-18	18-19	19-20	Total
Labor							$ -
Parts & Supplies							$ -
Chemicals							$ -
Utility							$ -
Other	$ 30,000						$ 30,000
Total	$ 30,000	$ -	$ -	$ -	$ -	$ -	$ 30,000

FY 2014-15 Budget
Carmel Area Wastewater District

Project Name: **Primary Scum Sump Mixer w/ Ultrasonic level controls**
Dept: Treatment
Total Cost: $ 30,000
CY Budget $ 30,000
Account: 2152

Contact: Pinkevich
Type: CIP
Useful Lif 15 years
Category: Capital Improvement
Urgency: 3 = Important
Carry Forv No

Description:

Staff is recommending a new ultrasonic and mixing system for the primary scum sump.

One of the primary drawbacks to the system is the inability to pump the grease that is floating on the surface of the sump and therefore only what is in suspension. Staff would like to see an ultrasonic level controller installed and a mixer to keep the grease floating on the surface in solution until the pump stops.

Justification:

This would be an upgrade to the existing failed bubbler system (20+ years old) at the primary scum sump. The bubbler is in need of an upgrade to a more reliable ultrasonic system for pump down grease accumulated on the surface of the two primary clarifiers and skimmed into the grease scum sump.

We believe we can make this work with only in house planning, engineering and labor except for the electrical.

	Prior	14-15	15-16	16-17	17-18	18-19	19-20	Total
Expenditures:		$ 30,000						$ 30,000

Funding Source:

Capital Reserves

Budget Impact/Other:

Budget Items	14-15	15-16	16-17	17-18	18-19	19-20	Total
Labor							$ -
Parts & Supplies							$ -
Chemicals							$ -
Utility							$ -
Other - contract	$ 30,000						$ 30,000
Total	$ 30,000	$ -	$ -	$ -	$ -	$ -	$ 30,000

FY 2014-15 Budget
Carmel Area Wastewater District

Project Name: **Tertiary pH Adjustment System**
Dept: Treatment
Total Cost: $ 30,000
CY Budget $ 30,000
Account: 2165

Contact: Pinkevich
Type: Tertiary
Useful Lif 10 years
Category: Capital Improvement
Urgency: 3 = Important
Carry Forv No

Description:

These funds will be utilized to purchase a new PH adjustment system for the Tertiary Facility. Currently the system in place was created in house in 1994 by operations staff to address any water which was low in PH and therefore a violation to our health department permit (Title 22).

In 1994 the PH adjustment was overlooked during the sand filtration system built by Engineering Science. In 2007 a PH system was installed in the MF/RO facility to address water leaving with a low PH. Shortly after the MF/RO system went online the PH system at MF/RO failed for a number of reasons, line plugged, pump failed, PH probe instrumentation failure, etc.

Most of these failures caused water to get to the reclaim pumps five hours downstream before it was noticed. There was no way to PH adjust the hundred thousand gallons or more of water in the channels without the use of the unit which was setup on the tertiary facility 15 years ago.

Justification:

Now it is time to make this system a more viable redundant option to prevent hours of downtime without sending any water to Pebble Beach as well as to protect our Health Permit.

Staff believes this can be accomplished with little or no outside contracting except from Tesco Controls and Day Electric.

	Prior	14-15	15-16	16-17	17-18	18-19	19-20	Total
Expenditures:		$ 30,000						$ 30,000

Funding Source:

Reclamation 100%

Budget Impact/Other:

Budget Items	14-15	15-16	16-17	17-18	18-19	19-20	Total
Labor							$ -
Parts & Supplies							$ -
Chemicals							$ -
Utility							$ -
Other - contract	$ 30,000						$ 30,000
Total	$ 30,000	$ -	$ -	$ -	$ -	$ -	$ 30,000

FY 2014-15 Budget
Carmel Area Wastewater District

Project Name: **Influent Pump Control System**
Dept: Treatment
Total Cost: $ 28,000
CY Budget $ 28,000
Account: 6511

Contact: Pinkevich
Type: CIP
Useful Life: 15 years
Category: Capital Improvement
Urgency: 3 = Important
Carry Forwa No

Description:

This project will address the shortcomings of the control system associated with the influent pumps. We propose to install a stand-alone Programmable Logic Controller (PLC) that will have the ability to sense pump failures and automatically place the lag pumps in service. This PLC will integrate with our future SCADA improvements.

Justification:

Currently, if there is a failure with our influent pumps an operator would be required to monitor and manually control the pumps and adjust them according to the influent flow. The current system is outdated and replacement parts are difficult to obtain.

	Prior	14-15	15-16	16-17	17-18	18-19	Unscheduled	Total
Expenditures:		$ 28,000						$ 28,000

Funding Source:

Capital reserves

Budget Impact/Other:

Budget Items	14-15	15-16	16-17	17-18	18-19	Unscheduled	Total
Labor							$ -
Parts & Supplies							$ -
Chemicals							$ -
Utility							$ -
Other	$ 28,000						$ 28,000
Total	$ 28,000	$ -	$ -	$ -	$ -	$ -	$ 28,000

FY 2014-15 Budget
Carmel Area Wastewater District

Project Name: **Misc Physical Testing of Plant Structures/Equipment**
Dept: Treatment
Total Cost: $ 125,000
CY Budget $ 25,000
Account: 6511

Contact: Pinkevich
Type: CIP
Useful Life: 15 years
Category: Capital Improvement
Urgency: 3 = Important
Carry Forwa No

Description:

Examples include: Digester concrete evaluation testing, ultrasonic thickness testing of pipes, soil corrosivity and pipeline cathodic test stations to evaluate buried process pipe corrosion in conjunction with internal inspections.

Justification:

As part of efforts to improve long term Asset Management Plan we will conduct specific physical tests to further establish condition for certain key assets to refine budget estimates.

	Prior	14-15	15-16	16-17	17-18	18-19	Unscheduled	Total
Expenditures:		$ 25,000	$ 25,000	$ 25,000	$ 25,000	$ 25,000		$ 125,000

Funding Source:

Capital reserves

Budget Impact/Other:

Budget Items	14-15	15-16	16-17	17-18	18-19	Unscheduled	Total
Labor							$ -
Parts & Supplies							$ -
Chemicals							$ -
Utility							$ -
Other	$ 25,000	$ 25,000	$ 25,000	$ 25,000	$ 25,000		$ 125,000
Total	$ 25,000	$ 25,000	$ 25,000	$ 25,000	$ 25,000	$ -	$ 125,000

FY 2014-15 Budget
Carmel Area Wastewater District

Project Name: **Camera System**
Dept: Treatment
Total Cost: $ 25,000
CY Budget $ 25,000
Account: 2159

Contact: Pinkevich
Type: CIP
Useful Lif 10 years
Category: Capital Equipment
Urgency: 3 = Important
Carry Forv No

Description:

There may be some benefit in tying the camera upgrade and fencing in with the regional trail project that may run along the side of the facility.

Potential Funding Sources

Staff will investigate potential grant funding for this project.

Justification:

With the potential for a trail by the Treatment Facility the potential for vandalism increases -- a camera system for the front end of the plant in particular would be a valuable deterrant and tool.

	Prior	14-15	15-16	16-17	17-18	18-19	19-20	Total
Expenditures:		$ 25,000						$ 25,000

Funding Source:

Capital Reserves

Budget Impact/Other:

Budget Items	14-15	15-16	16-17	17-18	18-19	19-20	Total
Labor							$ -
Parts & Supplies							$ -
Chemicals							$ -
Utility							$ -
Other - contract	$ 25,000						$ 25,000
Total	$ 25,000	$ -	$ -	$ -	$ -	$ -	$ 25,000

FY 2014-15 Budget
Carmel Area Wastewater District

Project Name: **Upgrade Maintenance Shop Lighting**
Dept: Treatment
Total Cost: $ 25,000
CY Budget $ 25,000
Account: 2159

Contact: Pinkevich
Type: Maintenance
Useful Life: 15 years
Category: Capital Improvement
Urgency: 3 = Important
Carry Forv No

Description:

Evaluate lighting requirement and repair/upgrade the current lighting system

Justification:

The current lighting is not adequate and will be addressed in this project.

	Prior	14-15	15-16	16-17	17-18	18-19	19-20	Total
Expenditures:		$ 25,000						$ 25,000

Funding Source:

Capital Reserves

Budget Impact/Other:

Budget Items	14-15	15-16	16-17	17-18	18-19	19-20	Total
Labor							$ -
Parts & Supplies							$ -
Chemicals							$ -
Utility							$ -
Other	$ 25,000						$ 25,000
Total	$ 25,000	$ -	$ -	$ -	$ -	$ -	$ 25,000

FY 2014-15 Budget

Carmel Area Wastewater District

Project Name: **Rehab Communication Room (downstairs)**
Dept: Treatment
Total Cost: $ 25,000
CY Budget $ 25,000
Account: 2159

Contact: Pinkevich
Type: Administration
Useful Life 10 years
Category: Capital Improvement
Urgency: 3 = Important
Carry Forv No

Description:

Affectionately called the "smoke room" this project aims to rehabilitate the central phone hub on the ground floor of the Plant Admin bldg.
The computer and phone wiring needs to be cleaned up and organized. We received a quote for $8K from Exceedio to organize the wiring. Staff will clean up the remainder of the room.

Justification:

The jumble of wiring over the years has produced a fire hazard. It shold be cleaned up to address that hazard and to address future expansion and/or repair -- which is difficult without a map of the wiring. Over the years there have been multiple projects that have changed the wire mapping, but records have not been kept.

	Prior	14-15	15-16	16-17	17-18	18-19	19-20	Total
Expenditures:		$ 25,000						$ 25,000

Funding Source:

Capital reserves

Budget Impact/Other:

Budget Items	14-15	15-16	16-17	17-18	18-19	19-20	Total
Labor							$ -
Parts & Supplies							$ -
Chemicals							$ -
Utility							$ -
Other - contract	$ 25,000						
Total	$ 25,000	$ -	$ -	$ -	$ -	$ -	$ -

FY 2014-15 Budget

Carmel Area Wastewater District

Project Name: **Influent Pump Valve Replacement**
Dept: Treatment
Total Cost: $ 22,000
CY Budget $ 22,000
Account: 2156

Contact: Pinkevich
Type: Influent
Useful Life: 10 years
Category: Capital Improvement
Urgency: 3 = Important
Carry Forv No

Description:

Replace the valves on the three influent pumps.

All work will be done by staff.

Justification:

The volute and impeller was changed in 2013-14 on all three impeller pumps. The valves remain in need to rehab. These pumps are criticial -- they are the entry way to the plant and the only way to pump water from the influent wet well to the headworks.

	Prior	14-15	15-16	16-17	17-18	18-19	19-20	Total
Expenditures:		$ 22,000						$ 22,000

Funding Source:

Budget Impact/Other:

Budget Items	14-15	15-16	16-17	17-18	18-19	19-20	Total
Labor	$ 10,000						$ 10,000
Parts & Supplies	$ 12,000						$ 12,000
Chemicals							$ -
Utility							$ -
Other							
Total	$ 22,000	$ -	$ -	$ -	$ -	$ -	$ 22,000

FY 2014-15 Budget
Carmel Area Wastewater District

Project Name: **Road Improvements & Drainage Repairs**
Dept: Treatment
Total Cost: $ 75,000
CY Budget $ 15,000
Account: 2750

Contact: Pinkevich
Type: CIP
Useful Life: 15 years
Category: Capital Improvement
Urgency: 3 = Important
Carry Forv No

Description:

Pave the east side of the Treatment Plant Maintenance Shop for parking and add adequate drainage to prevent further damage to the retaining wall. Rust and poor drainage have damaged the retaining wall. The intention is to regrade the area rather that attempt to repair the retaining wall.

Landscaping will be considered in implementing any improvements. There has not been a final decision made yet; but staff feels some type of hedge between the Maintenance Shop and the parking would improve the area visually.

Justification:

The roadway into the plant must be repaired from damage due to eucalyptus tree roots and there is a minor sinkhole at the north end of the Maintenance Shop that must be repaired.

Due to tree roots and unlevel pavement caused by tanker trucks that consistently deliver equipment/chemicals, the roads at CAWD have cracked, been uprooted, or have created pot holes and sink holes in areas throughout the plant. This allocation is to cover miscellaneous problems throughout the plant.

	Prior	14-15	15-16	16-17	17-18	18-19	Unscheduled	Total
Expenditures:		$ 15,000	$ 15,000	$ 15,000	$ 15,000	$ 15,000		$ 75,000

Funding Source:

Capital Reserves

Budget Impact/Other:

Budget Items	14-15	15-16	16-17	17-18	18-19	Unscheduled	Total
Labor							$ -
Parts & Supplies							$ -
Chemicals							$ -
Utility							$ -
Other - contract	$ 15,000	$ 15,000	$ 15,000	$ 15,000	$ 15,000		$ 75,000
Total	$ 15,000	$ 15,000	$ 15,000	$ 15,000	$ 15,000	$ -	$ 75,000

FY 2014-15 Budget
Carmel Area Wastewater District

Project Name: **Chlorine Analyzer**
Dept: Treatment
Total Cost: $ 14,000
CY Budget $ 14,000
Account: 2158

Contact: Pinkevich
Type: Chlor/Dechlor
Useful Life: 10 years
Category: Capital Improvement
Urgency: 3 = Important
Carry Forv No

Description:

Staff proposes to replace analyzer with the latest model available.

Justification:

By 2014/2015 budget cycle, Deox #1(negative chlorine residual) at the Effluent pump station will have reached its ten year life cycle.

	Prior	14-15	15-16	16-17	17-18	18-19	19-20	Total
Expenditures:		$ 14,000						$ 14,000

Funding Source:

Capital Reserves

Budget Impact/Other:

Budget Items	14-15	15-16	16-17	17-18	18-19	19-20	Total
Labor							$ -
Parts & Supplies							$ -
Chemicals							$ -
Utility							$ -
Other - contract	$ 14,000						$ 14,000
Total	$ 14,000	$ -	$ -	$ -	$ -	$ -	$ 14,000

FY 2014-15 Budget

Carmel Area Wastewater District

Project Name: **Effluent Room Electrical Rehab/Upgrade**
Dept: Treatment
Total Cost: $ 200,000
CY Budget $ -
Account: 2163

Contact: Pinkevich
Type: Effluent
Useful Life: 15 years
Category: Capital Improvement
Urgency: 3 = Important
Carry Forv No

Description:

The electrical systems in the effluent building are aging and unreliable.

Justification:

Obsolescence of electrical gear reduces thea vailability of spare parts which makes maintaing the equipment difficult. Electrical gear in the effluent building has not been verified to meet arc flash safety requirements.

	Prior	14-15	15-16	16-17	17-18	18-19	19-20	Total
Expenditures:			$200,000					$ 200,000

Funding Source:

Capital Reserves

Budget Impact/Other:

Budget Items	14-15	15-16	16-17	17-18	18-19	19-20	Total
Labor							$ -
Parts & Supplies							$ -
Chemicals							$ -
Utility							$ -
Other - Contract		$200,000					$ 200,000
Total	$ -	$200,000	$ -	$ -	$ -	$ -	$ 200,000

FY 2014-15 Budget
Carmel Area Wastewater District

Project Name: **Reconstruct Mezzanine in Maintenance**
Dept: Treatment
Total Cost: $ 60,000
CY Budget $ -
Account: 2159

Contact:
Type:
Useful Life:
Category:
Urgency:
Carry Forward:

Description:

Have current structure evaluated and develop a TM (Technical Memorandum) for modifications to be completed the following year.

Justification:

Modify the mezzanine by taking the advice of the TM (Technical Memorandum) . This area will serve as our Primary location for spare parts and inventory along with supplies used on a regular basis.

	Prior	14-15	15-16	16-17	17-18	18-19	19-20	Total
Expenditures:			$ 60,000					$ 60,000

Funding Source:

Capital Reserves

Budget Impact/Other:

Budget Items	14-15	15-16	16-17	17-18	18-19	19-20	Total
Labor		$ 20,000					$ 20,000
Parts & Supplies		$ 40,000					$ 40,000
Chemicals							$ -
Utility							$ -
Other							
Total	$ -	$ 60,000	$ -	$ -	$ -	$ -	$ 60,000

FY 2014-15 Budget
Carmel Area Wastewater District

Project Name: **Equalization Spray System**
Dept: Treatment
Total Cost: $ 40,000
CY Budget $ -
Account: 2155

Contact:
Type:
Useful Life:
Category:
Urgency:
Carry Forward:

Description:

Staff is recommending that the existing Equalization Basin have installed an automatic spraying system.

Justification:

Every morning when the equalization pumps are down the staff is spending 30 minutes to manually hose down solids and control the EQ pump on the PLC because of solids settling during the night. This is done five days per week and excluded on Saturdays and Sundays because of reduced staffing.

The equalization basins were established solely for the benefit of Reclamation.

This can be easily controlled by an automatic spray system managed by the PLC (Programmable Logic Controller). This would be contracted and installed to start whenever the EQ basin becomes empty and using the level controls and existing PLC. This would free valuable staff time to monitor more technical aspects of the process.

	Prior	14-15	15-16	16-17	17-18	18-19	19-20	Total
Expenditures:			$ 40,000					$ 40,000

Funding Source:

Capital Reserves

Budget Impact/Other:

Budget Items	14-15	15-16	16-17	17-18	18-19	19-20	Total
Labor							$ -
Parts & Supplies							$ -
Chemicals							$ -
Utility							$ -
Other - contract		$ 40,000					$ 40,000
Total	$ -	$ 40,000	$ -	$ -	$ -	$ -	$ 40,000

FY 2014-15 Budget

Carmel Area Wastewater District

Project Name: **Rehab/Recoat Grit Collector**
Dept: Treatment
Total Cost: $ 40,000
CY Budget $ -
Account: 2154

Contact: Pinkevich
Type: Headworks
Useful Life: 15 years
Category: Capital Improvement
Urgency: 3 = Important
Carry Forv No

Description:

Grit collection is critical to protecting downstream plant infrastructure. A properly maintained and operated grit removal system prevents grit buildup in unit processes, scouring and plugging in lines, and fouling of diffusers and membrances, while preserving the intended service life of downstream equipment.

Justification:

Staff proposes to rehabilitate and recoat the existing grit collector to prolong its service life.

	Prior	14-15	15-16	16-17	17-18	18-19	19-20	Total
Expenditures:			$ 40,000					$ 40,000

Funding Source:

Capital Reserves

Budget Impact/Other:

Budget Items	14-15	15-16	16-17	17-18	18-19	19-20	Total
Labor							$ -
Parts & Supplies							$ -
Chemicals							$ -
Utility							$ -
Other - Contract		$ 40,000					$ 40,000
Total	$ -	$ 40,000	$ -	$ -	$ -	$ -	$ 40,000

FY 2014-15 Budget
Carmel Area Wastewater District

Project Name: **Rehabilitate Maintenance Shop Exterior**
Dept: Treatment
Total Cost: $ 35,000
CY Budget $ -
Account: 2159

Contact: Pinkevich
Type: Maintenance
Useful Life: 15 years
Category: Capital Improvement
Urgency: 3 = Important
Carry Forv No

Description:

The maintenance shop is a metal sided building and is in need of the typical maintenance these buildings will have. This building like many others in the plant shows signs that the challenging central coast environment will cause.

Justification:

This project will bring the shop to a functional and presentable state.

	Prior	14-15	15-16	16-17	17-18	18-19	19-20	Total
Expenditures:			$ 35,000					$ 35,000

Funding Source:

Capital Reserves

Budget Impact/Other:

Budget Items	14-15	15-16	16-17	17-18	18-19	19-20	Total
Labor							$ -
Parts & Supplies							$ -
Chemicals							$ -
Utility							$ -
Other - Contract		$ 35,000					$ 35,000
Total	$ -	$ 35,000	$ -	$ -	$ -	$ -	$ 35,000

FY 2014-15 Budget
Carmel Area Wastewater District

Project Name: **Effluent Pumps VFD**
Dept: Treatment
Total Cost: $ 35,000
CY Budget $ -
Account: 2163

Contact: Pinkevich
Type: Effluent
Useful Life: 15 years
Category: Capital Improvement
Urgency: 3 = Important
Carry Forv No

Description:

A Variable frequency drive (VFD) is an electronic controller that provides continuous control matching motor speed to the specific demands of the work being performed. In wastewater facilities the greatest energy draws comes from pumping and aeration – applications that are particularly suited to VFDs. VFD's enable the pumps to accommodate fluctuating demand, running pumps at lower speeds and drawing less energy while still meeting pumping needs. VFDs offer a "soft start" capability, gradually ramping up a motor to operating speed. This lessens mechanical and electrical stress on the motor system and can reduce maintenance and repair costs and extend motor life.

Justification:

The plant effluent pumps VFD drives are in need of replacement due to age.

	Prior	14-15	15-16	16-17	17-18	18-19	19-20	Total
Expenditures:			$ 35,000					$ 35,000

Funding Source:

Capital Reserves

Budget Impact/Other:

Budget Items	14-15	15-16	16-17	17-18	18-19	19-20	Total
Labor		$ 10,000					$ 10,000
Parts & Supplies		$ 25,000					$ 25,000
Chemicals							$ -
Utility							$ -
Other							
Total	$ -	$ 35,000	$ -	$ -	$ -	$ -	$ 35,000

FY 2014-15 Budget
Carmel Area Wastewater District

Project Name: **Pipe Storage Area**
Dept: Treatment
Total Cost: $ 20,000
CY Budget $ -
Account: 2159

Contact: Pinkevich
Type: Other
Useful Life: 10 years
Category: Capital Improvement
Urgency: 3 = Important
Carry Forv No

Description:

Install an overhang, gutters and a pipe rack on the side of the ***Treatment Plant storage building*** at the Treatment Plant.

Justification:

The overhang on the storage building will protect the pipe from sun damage. The gutters will help to prevent the storage building from water build up which has been causing the building to rust. The shed area needs to have debris removed and the pipe storage area needs to be paved to allow forklift access. Currently, the proposed site of the new pipe storage consists of an uneven, unpaved plot on the south side of the above mentioned storage shed. This area would need to be paved to allow forklift access.

	Prior	14-15	15-16	16-17	17-18	18-19	19-20	Total
Expenditures:			$ 20,000					$ 20,000

Funding Source:

Capital Reserves

Budget Impact/Other:

Budget Items	14-15	15-16	16-17	17-18	18-19	19-20	Total
Labor		$ 5,000					$ 5,000
Parts & Supplies		$ 15,000					$ 15,000
Chemicals							$ -
Utility							$ -
Other							
Total	$ -	$ 20,000	$ -	$ -	$ -	$ -	$ 20,000

FY 2014-15 Budget
Carmel Area Wastewater District

Project Name: **Co-Gen Feasibility Evaluation**
Dept: Treatment
Total Cost: $ 40,000
CY Budget $ -
Account:

Contact: Pinkevich
Type: Other
Useful Life: 40 years
Category: Capital Improvement
Urgency: 4 = Less Important
Carry Forward: No

Description:

Develop a long term co-generation plan for power self-sufficiency of the treatment plant. Evaluation will include: 1) The timing and costs associated with replacing the existing Capstone turbines with replacements or alternative technology. 2) Present and Future cost analysis for replacement of the existing backup generators with natural gas power generators to run as a power supply for "on peak" power loads and to reduce the purchase of PG&E power. 3) Feasibility and practicality of solar panel arrays at the plant, or other technologies applicable in a Coastal environment.

Justification:

For some odd reason the Board thinks it is not enough to neglect the treatment plant, now they would like to see us neglect a power plant too. Currently the treatment plant utilizes nearly all of the methane produced at the anaerobic digester for the production of electricity and to meet the heating requirements of the digester. The reduction in power purchase is minor at this time but staff feels that there is a greater potential for the District to become more energy independent through the production of more digester gas (by receiving more grease) and through the purchase of less expensive natural gas to generate electrical power on District property. The existing Capstone generators have a finite life expectancy and will require replacement or rehabilitation within 10 years. Do to the rising cost of electrical power and the long term projections that natural gas will remain relatively stable Staff feels it would be in the best interest of the District to lay out a long term plan for energy independence as well as understand the staffing needs and costs associated with each technology. This plan will be implemented as excising equipment is scheduled for replacement or as directed by the Board of Directors.

	Prior	14-15	15-16	16-17	17-18	18-19	19-20	Total
Expenditures:		$ -	$ -	$ 40,000	$ -	$ -	$ -	$ 40,000

Funding Source:

Capital Reserves

Budget Impact/Other:

Budget Items	14-15	15-16	16-17	17-18	18-19	19-20	Total
Labor							$ -
Parts & Supplies							$ -
Chemicals							$ -
Utility							$ -
Other			$ 40,000				$ 40,000
Total	$ -	$ -	$ 40,000	$ -	$ -	$ -	$ 40,000

FY 2014-15 Budget
Carmel Area Wastewater District

Project Name: **Modify Storage Area in Maintenance**
Dept: Treatment
Total Cost: $ 20,000
CY Budget $ -
Account: 2159

Contact: Pinkevich
Type: Maintenance
Useful Life: 15 years
Category: Capital Improvement
Urgency: 3 = Important
Carry Forv No

Description:

Construct a storage area above the office in the maintenance shop in what is now unused

Justification:

Our Shop currently lacks adequate storage and utilizing spaces such as these will help.

	Prior	14-15	15-16	16-17	17-18	18-19	19-20	Total
Expenditures:				$ 20,000				$ 20,000

Funding Source:

Capital Reserves

Budget Impact/Other:

Budget Items	14-15	15-16	16-17	17-18	18-19	19-20	Total
Labor			$ 5,000				$ 5,000
Parts & Supplies			$ 15,000				$ 15,000
Chemicals							$ -
Utility							$ -
Other							
Total	$ -	$ -	$ 20,000	$ -	$ -	$ -	$ 20,000

FY 2014-15 Budget
Carmel Area Wastewater District

Project Name: **Demo Bridge across Carmel River**
Dept: Treatment
Total Cost: $ 210,000
CY Budget $ -
Account: 2127

Contact: Pinkevich
Type: CIP
Useful Life: 5 years
Category: Capital Improvement
Urgency: 3 = Important
Carry Forv No

Description:

Per Capstone Structural Engineering Report received Feb 2011:

"...we believe that the existing pipe trestle structure is not imminently subject to collapse under its own weight with empty utility pipes. Pedestrian live load should not be allowed on the structure (with the exception of one or two skilled maintenance personnel at a time) as the structure is both structurally and functionally deficient for pedestrians. The pipe trestle structure lacks a positive load path and is vulnerable to collapse under lateral loading from a significant seismic or hydraulic event."

Justification:

The demolition is scheduled in 2017/18 because (1) per Capstone, the bridge is not imminently subject to collapse, and (2) there may be an opportunity to work with other local groups to extend Carmel area walking trails from Carmel down to Big Sur by donating the bridge. The District no longer needs the bridge but believes that it is valuable because of the permitting that would be required for a new bridge. It may be possible through local transportation agency, parks, and City of Carmel to donate the bridge and fund demolition and replacement costs through grant funding.

	Prior	14-15	15-16	16-17	17-18	18-19	19-20	Total
Expenditures:					$210,000			$ 210,000

Funding Source:

Capital Reserves

Budget Impact/Other:

Budget Items	14-15	15-16	16-17	17-18	18-19	19-20	Total
Labor							$ -
Parts & Supplies							$ -
Chemicals							$ -
Utility							$ -
Other - contract				$210,000			$ 210,000
Total	$ -	$ -	$ -	$210,000	$ -	$ -	$ 210,000

FY 2014-15 Budget
Carmel Area Wastewater District

Project Name: **Digester Cleaning #1**
Dept: Treatment
Total Cost: $ 168,000
CY Budget $ -
Account: 2153

Contact: Pinkevich
Type: Dewatering
Useful Lif 10 years
Category: Capital Improvement
Urgency: 3 = Important
Carry Forv No

Description:

Last cleaned/inspected in 1998. Staff contracted cleaning services for Digester #1 as part of periodic maintenance. We have carried this project forward from 2012-13 because of questions about the reliability of Digester #1. Board approved purchase of equipment to improve reliability and defer cleaning until installation of equipment. Objective is to remove inert material and high concentrations of bio-solids from digester tanks. Benefits of digester cleaning include: a) increase detention time of bio-solids tank, b) reduce fuel costs to heat solids, c) increase digestion, and d) increase life of sludge pumps.

Justification:

This digester has dual mixers and has only been operating with a single mixer due to failure on the north mixer over two years ago. We have rehabilitated the failed mixer but are hesitant to reinstall until the digester has been cleaned. If we were to change the mixing dynamics in this digester at this point we risk lifting the accumulated grit and debris that has settled on the floor and potentially upsetting this digester by fouling the auxiliary equipment need to operate this digester. Because this digester receives grease it is imperative that we create and establish a healthy and well mixed digester.

The cost estimate is based upon consultations with cleaning contractors and represents the worst case scenario with respect to the amount of grit settled in the tank (which cannot be determined w/o a dewatered tank inspection).

	Prior	14-15	15-16	16-17	17-18	18-19	19-20	Total
Expenditures:					$168,000			$ 168,000

Funding Source:

Capital Reserves

Budget Impact/Other:

Budget Items	14-15	15-16	16-17	17-18	18-19	19-20	Total
Labor							$ -
Parts & Supplies							$ -
Chemicals							$ -
Utility							$ -
Other - contract				$168,000			$ 168,000
Total	$ -	$ -	$ -	$168,000	$ -	$ -	$ 168,000

CARMEL AREA WASTEWATER DISTRICT TREATMENT PLANT
LONG TERM CAPITAL PROJECTS - FY 2014/15 - 28/29

	PROJECT	14/15	15/16	16/17	17/18	18/19	19/20	20/21	21/22	22/23	23/24	24/25	25/26	26/27	27/28
1	Studies	$88,000	$88,000			$100,000				$100,000					
2	Influent Conveyance & Screening		$77,000	$347,000	$347,000										
3	Influent Manhole Replace/Retrofit			$36,000	$162,000	$162,000									
4	Standby Blower Replacement	$333,000	$313,000												
5	Standby & Main Power Integration	$1,462,000	$665,000	$667,000											
6	Hypo/SBS (*Reclamation 25%*)	$612,000	$612,000												
7	Effluent Building		$200,000	$500,000							$400,000				
8	#3 Water System Improvements	$256,000													
9	Portable RAS Pumping	$250,000													
10	Dewatering	$1,000,000				$400,000									
11	Interim Digester Improvements														
12	Aeration Valve/Gate & Instrument Rehab				$41,000	$367,000									
13	RAS Building Rehab						$1,098,000								
14	Primary Clarifier Rehab							$266,000	$1,293,000						
15	Secondary Clarifier Rehab							$242,000	$1,079,000						
16	Digester Firm Capacity Improvements	$347,000	$1,733,000	$1,733,000											
17	#1 Water Improvements	$232,000													
18	Storm Water Improvements	$25,000	$325,000	$325,000											
19	Demo Project									$400,000					
20	Headworks										$675,000				
21	50% Recl Thickener (*Reclamation 50%*)	$1,000,000			$600,000										
22	Chlorine Contact (*Reclamation 25%*)									$1,511,000					
23	Ops Building Improvements											$599,000			
24	Misc Yard Piping Rehab	$89,000	$89,000	$89,000	$89,000	$89,000	$89,000	$89,000	$89,000	$89,000	$89,000	$89,000	$89,000		
25	Septage/grease Receiving Station										$600,000				
26	Flare - Replace & Relocate		$350,000												
27	Co-Gen Project												$600,000		
28	Aeration Basin Rehabilitation												$500,000		
29	Replace Standby Generators											$400,000	$400,000		
30	Treatment Plant Administraton Bldg													$1,000,000	
31	Gas Conditioning System														$325,000
32	To Be Determined														$675,000
	TREATMENT & DISPOSAL TOTAL	**$5,694,000**	**$4,452,000**	**$3,697,000**	**$1,239,000**	**$1,118,000**	**$1,187,000**	**$597,000**	**$2,461,000**	**$2,100,000**	**$1,764,000**	**$1,088,000**	**$1,589,000**	**$1,000,000**	**$1,000,000**
	RECLAMATION SHARE (1)	$653,000	$153,000	$0	$300,000	$0	$0	$0	$0	$377,750	$0	$0	$0	$0	$0
	PBCSD SHARE	$1,680,333	$1,433,000	$1,232,333	$313,000	$372,667	$395,667	$199,000	$820,333	$574,083	$588,000	$362,667	$529,667	$333,333	$333,333
	CAWD COST	**$3,360,667**	**$2,866,000**	**$2,464,667**	**$626,000**	**$745,333**	**$791,333**	**$398,000**	**$1,640,667**	**$1,148,167**	**$1,176,000**	**$725,333**	**$1,059,333**	**$666,667**	**$666,667**

(1) PBCSD to pay 1/3 of costs. (After Reclamation portion deducted, if applicable) unless otherwise noted. *Projects in italics are not funded directly by PBCSD*

Carmel Area Wastewater District
EXPLANATIONS/DESCRIPTIONS/JUSTIFICATION/COST ESTIMATES
Long Term Capital Plan – Treatment Facility

1. **Studies (FY 2014/15 & 2015/16)**

Description: Planned Engineering Studies as follows:

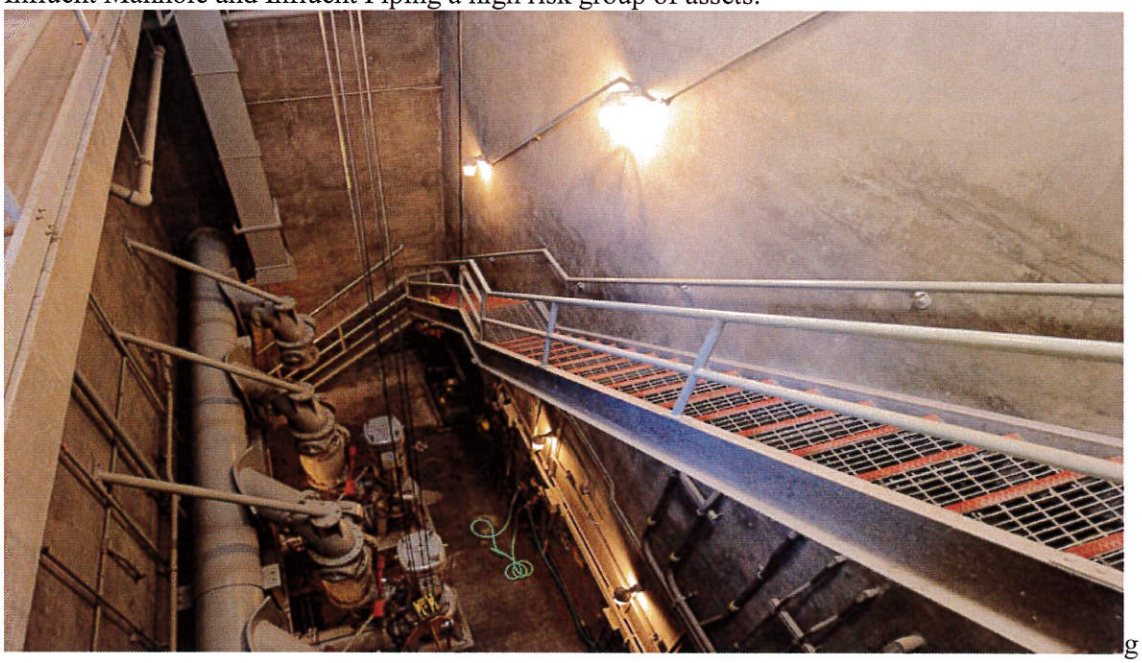
- Influent Conveyance and Pre-Screening Pre-Design Report (FY2014/15)
- Septic Receiving Facility Study (COMPLETED)
- Flooding/Storm Water Reliability Improvements Study (PARTIALY COMPLETE ADDITIONAL REVIEW TO OCCUR FY2014/15))
- Power Feeders, Standby Power and Automatic Transfer Switch Systems Integration Study (TO BE COMPLETED JUNE 30)

Budget Amount: $88K each year

2. **Influent Conveyance & Screening (FY 2015/16, 2016/17 & 2017/18)**

Pump inspection competed – Volutes replaced, check valves and butterfly valves have been purchased. FY2014/15 the wet well will be bypassed and inspected along with accessible piping. Valves will be replaced. This inspection is needed to adjust FY2015/16 capital expenditure for cost of wetwell rehabilitation.

Description: Improve hydraulic capacity of the influent manhole. The Influent system conveys up to 10 MGD flows during wet weather and would be subject to significant untreated wastewater spills if a failure of the conveyance system was to occur. Hydraulic concerns related to the Influent Manhole capacity coupled with unknown corrosion of influent piping systems makes the Influent Manhole and Influent Piping a high risk group of assets.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Function: The Influent Pumps transfer variable influent flow from the Influent wet well to the Influent Manhole which is at a higher elevation to allow gravity flow through the primary and

secondary treatment processes. The influent wet well provides removal of grease and settling of heavy objects before the influent pumps and provides storage volume to keep influent pumps from cycling on and off.

Failure Modes Addressed:

1. At higher influent flows the water level in the Influent Manhole nearly overflows the structure because of backup of gravity flow
2. The condition inside buried and exposed influent piping is unknown and therefore piping should be inspected and an allowance budgeted for improvements to piping to mitigate against possible corrosion related failure of influent pump piping.
3. The condition inside the Influent Wet Well is unknown and therefore needs to be inspected and an allowance budgeted for rehabilitation of the wet well or slide gates.

Budget Amount: $77K; $347K & $347K

3. Influent Manhole Replace/Retrofit (FY 2016/17 – 2018/19)

Description: Improve condition of the Influent Manhole Sluice Gates and inspect/rehabilitate buried influent piping. The Influent Piping and valves in the Influent Building may also need to be upgraded at the same time to improve condition upstream of the influent manhole. The Influent Building needs repairs to the roof and influent wet well equipment and lighting.

Function: The Influent Pumps transfer variable influent flow from the Influent wet well to the Influent Manhole which is at a higher elevation to allow gravity flow through the primary and secondary treatment processes. The influent wet well provides removal of grease and settling of heavy objects before the influent pumps and provides storage volume to keep influent pumps from cycling on and off.

Failure Modes Addressed:

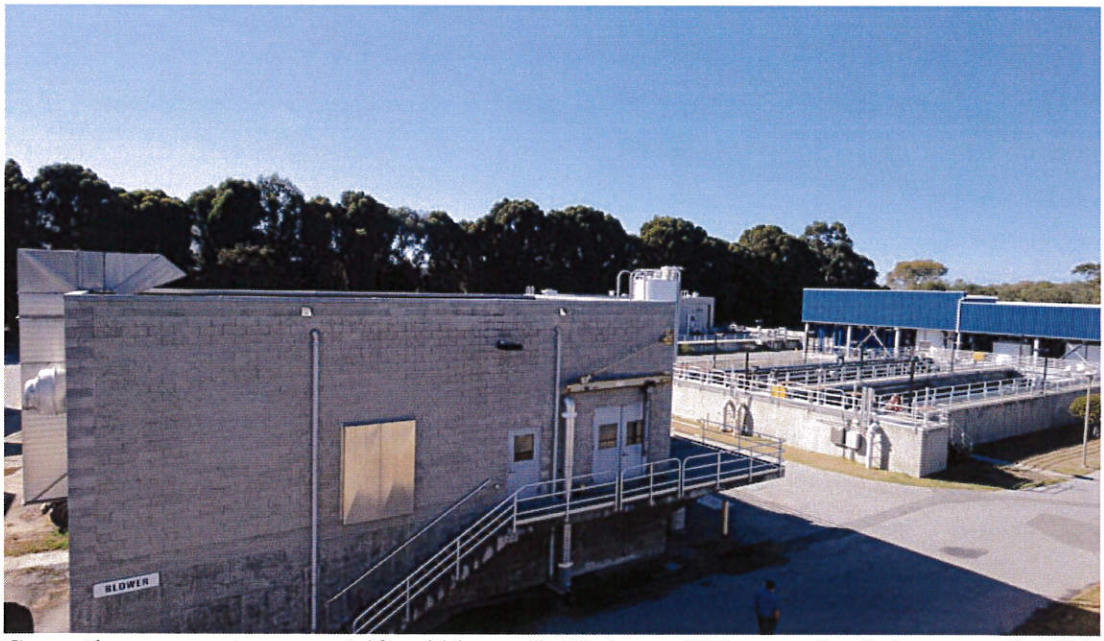
1. At higher influent flows the water level in the Influent Manhole nearly overflows the structure because of backup of gravity flow
2. The condition inside buried and exposed influent piping is unknown and therefore piping should be inspected and an allowance budgeted for improvements to piping to mitigate against possible corrosion related failure of influent pump piping.
3. The condition inside the Influent Wet Well is unknown and therefore needs to be inspected and an allowance budgeted for rehabilitation of the wet well or slide gates.

Budget Amount: $36K; $162K & $162K

4. Standby Blower replacement (FY 2014/15 -2015/16)

Blower design is 60% completed. Project is no longer a stand-alone bid package. These improvements are going to be combined with the larger combined bid package. Remaining unspent design budget will be carried forward. Blower building improvements to begin FY2014/15.

Description: Replace existing standby blower with a properly sized blower to provide a backup blower for the only reliable blower. Include energy saving modifications to the existing blowers such as inlet throttling or variable speed drives if financially efficient (i.e. acceptable payback on energy savings investment). Other improvements to the air piping and upgrades to blower electrical systems may be included in the project.



Currently we operate one centrifugal blower that is in use 24 hours a day 7 days a week. This blower supplies the oxygen needed for the microorganisms in the aeration basins to survive. This blower was installed in 1998 when it was determined that the existing blower installed in 1994 was oversized and energy cost was excessive. The two existing blowers from 1994 are not dependable and are in need of costly repairs to refurbish to give us a redundant/backup system.

Function: The blowers provide air to the aeration basins to maintain sufficient dissolved oxygen levels.

Failure Modes Addressed:

1. The existing standby blowers have bent drive shafts and vibrate excessively when operated. The standby blowers with bent shafts are the only backups to a single reliable blower.
2. Redundancy/reliability of the blower system. Dissolved oxygen in the aeration basins is critical for reducing BOD in the treatment process. Currently there is only one reliable blower. For a critical system such as the blowers there should be a redundant blower.
3. The blowers use the most energy of any other process in the treatment plant. Investments in more energy efficient controls could reduce the overall life cycle cost of the blower system.

Budget Amount: $333K & $313K

5. Standby & Main Power Integration (FY 2014/15 -2016/17)

Description: Upgrade switchgear and main power feeders. Relocated updated electrical equipment to optimize space in the Operations Building and to make space in the electrical room for a future SCADA control and monitoring station.

Function: The main power feed into the plant provides electricity for plant operations.

Failure Modes Addressed:

1. Lack of integration of electrical systems makes it difficult to maintain reliability of electrical systems
2. The main power feed equipment is approximately 40 years old.

Budget Amount: $1,462K; $665K & $667K

6. **Hypochlorite/SBS Improvements (FY 2014/15 – 2015/16) (25% Reclamation)**

System design will nearly complete by the end of this year. This project will be bid for construction in FY2014/15 and completed in FY2015/16

Description: Convert the existing chlorine gas disinfection system to a bulk 12.5% liquid sodium hypochlorite disinfection system. A new tank storage double containment pad would be built with multiple polyethylene storage tanks to store sodium hypochlorite chemical. Chemical feed pumps would be located on the double containment pad and would pump sodium hypochlorite upstream of the chlorine contact channels for disinfection. A feed would also be provided for disinfection of the recycled water upstream of the recycled water chlorine contact channels.

Construct an additional sodium bisulfite (SBS) storage tank to provide a redundant SBS storage tank to increase reliability of the dechlorination system.

Function: The level of service of the chlorination and dechlorination chemical systems is to dose and disperse chlorine upstream of the chlorine contact channel and does SBS downstream of the chlorine contact channel.

Failure Modes Addressed:

1. The existing chlorine gas cylinder room is used for both storage of standby chlorine gas cylinders and for use of cylinders. Because the chlorine gas cylinder room is used for

storage of cylinders a chlorine scrubber is required per California Fire Code (CFC) Section 3704.2.2.7 Exception 2. The gas storage room is currently not equipped with a scrubber.

2. There have been minor valve failures in the chlorine gas system in the past which calls for upgrades and rehabilitation of the existing gas feed system piping.

Budget Amount: $612K & $612K

7. Effluent Building (FY 2015/16 – 2016/17 & 2023/24)

This project will remain unchanged at this time however a couple of improvements affecting this building will be undertaken this year as Treatment plant CIP and maintenance. The roof will be repaired, unused #3W pumps will be demolished, the check valves will be replaced and the motors will be removed for inspection and rebuilt as needed. Electrical upgrades (New MCC, etc.) are proposed to begin in FY2015/16 and based on this review the cost of replacement pumps may be able to be moved back to FY2023/24.

Description: Rehabilitate the existing effluent pump system with new properly sized effluent pumps and upgrade aging electrical systems in the effluent building. Other miscellaneous building improvements including roof repairs and rehabilitating the existing standby 3W pumps.

Function: The effluent pumping system is to pump treated effluent out the outfall.

Failure Modes Addressed:

1. The existing high flow pumps are at the end of the average useful life for pumps and there have been vibration issues encountered which could lead to accelerated pump failure.
2. The existing low flow pump that is used primarily to pump reverse osmosis concentrate water has a 58% wire to water efficiency as compared to a more efficient pump that could have 76% wire to water efficiency.
3. Roof leaks could lead to water damage and short circuit in the electrical gears, which could lead to a complete failure of the pump station.
4. Obsolescence of electrical gear reduces the availability of spare parts which makes maintaining the equipment difficult.
5. Electrical gear in the effluent building has not been verified to meet arc flash safety requirements.

Budget Amount: $200K; $500K & $400K

8. #3 Water System Improvements (FY 2014/15)

K/J has proposed refurbishing the present #3W system by replacing the strainers, automating the pressure release valve and This project was pushed from FW2013/14 until next year and has been combined with the larger bid package for the plant improvements. This will reduce this cost. Design will be completed this year.

Description: Construction of replacement equipment to replace the existing 30 year old #3 Water System hydropneumatic tank which is beyond its useful life. Replacement of #3 strainer and replacement of electrical controls and instrumentation systems.

The #3 water system is the in-house recycled water supply. It was placed into service in the late 1980's and is located at the Chlor/De-chlor building (CDC). It consists of three vertical turbine pumps that pull from Chlorine contact channel #2.

#3 water is pumped through 6" steel pipe through a motorized strainer and is discharged to a pressurized hydro-pneumatic tank. This system has lacked the proper attention and is now restricting flow to the hydro-pneumatic tank and the strainer has failed and been out of service for several years. In addition to issues with the strainers and potentially the pressurized water tank, there are five critical gate valves associated with this system that are in need of attention.

The tank is glass lined and has a 5,000 gallon capacity with a sight gauge and level probe electrodes that control the #3 water pumps through SCADA. This tank acts as a large shock absorber for the system. There are two air compressors that supply the air to the tank to keep it in balance. This portion of the system is critical as it serves as a buffer to the downstream piping and equipment and protects the pumping system if maintained correctly. The #3 water provides cooling to a number of key assets throughout the facility such as:

- Influent Pumps (packing)
- Effluent Pumps (packing)
- Emergency Generator (Cooling system)
- Waste Activated Sludge Pumps (packing)
- Return Activated Sludge Pumps (packing)

The system also supplies cooling and injector water for chlorination system for microfiltration and reverse osmosis system. This injector system is also one of three ways to chlorinate the secondary effluent. This water is also used to flush lines and hose tanks throughout the plant.

As spray water here are two examples:

- Utilized at the aeration basins as spray water to control foam
- The Belt Press is equipped with spray-bars designed to wash the belts as they move through a wash-box. We utilize approximately 3,000 gallons per hour of $3 water to keep this essential process in service. Without the ability to keep the belts clean with high pressure water we would lose the ability to dewater sludge as the belts become blinded with solids and polymer.

Function: Supply reclaimed water throughout the WWTP for pump seal water, spray-water for secondary clarifier scum collection, belt filter press spray water, and various wash-down and flushing uses.

Failure Modes Addressed: The existing #3 Water System has reached the end of its useful life and major components such as the hydropneumatic tank could fail resulting in a loss of service, the highest consequences of failure could be related to loss of process pump seal water.

Budget Amount: $256K

9. Portable RAS Pumping (FY 2014/15)

This item has been combined with item #13. Staff preformed maintenance to the existing pumps which returned some redundancy to the system. Therefore the portable RAS pumps were not purchased. K/J has modified some of the design this year as further investigation influenced the design. Full rehabilitation of this system as described will not occur until FY2019/20 but piping for a portable pump will be installed this year. These redundancy improvements will be completed FY2014/15.

Description: Purchase portable pumps to provide an independent emergency backup pump system for RAS/WAS pumping. Mechanical improvements include installing permanent connections for portable pumps to the RAS wet well for emergency RAS/WAS pumping in the event of a failure of the RAS pumps, piping or valves.

Function: Pump activated sludge collected in the Secondary Clarifiers to the Anoxic Selector (upstream of aeration basins). Pump waste activated sludge to the thickener. Pump Secondary Clarifier Scum to RAS or WAS stream.

Failure Modes Addressed:

1. Existing electrical wiring has been severely compromised due to corrosion. Electrical equipment (wiring, breakers, MCC, etc.) are 40 years old which is beyond the average useful life of electrical equipment.
2. Existing mechanical (valves and piping) equipment is aged and will need to be rehabilitated or replaced.
3. Safety. In addition to the condition and age of electrical equipment, electrical equipment in RAS Pump Building is in close quarters to working areas which increases hazards if work needs to be done to repair electrical equipment in the event of an electrical failure.
4. Sludge wasting pumps to replace the current practice of flow control valves may improve efficiency of the sludge process by reducing loading on solids treatment equipment.

Budget Amount: $250K

10. <u>Dewatering (FY 2013/14 & 2018/19)</u>

Staff has piloted a screw press successfully and K/J is now continuing with the design of removing the belt presses and installing screw press technology. A major refurbishment of the building will occur this year. A screw press will be installed, electrical upgrades will occur and the operating belt press will remain as a backup until FY2018/19 when it will be removed and replaced with a second screw press.

Description: Construction of a backup dewatering skid adjacent to the existing belt filter press (BFP). Requires demolition of the current non-operational BFP which is located too close to the current operating BFP such that certain maintenance tasks could not be completed (i.e. removing rollers). Recommended dewatering equipment includes a screw press of rotary press, which have a smaller footprint than a BFP and will permit future maintenance of the BFP. Construction should be sequenced to allow temporary dewatering activities with the new skid outside of the BFP building while demolition and maintenance activities commence inside the building. Once the non-operational BFP is removed and required maintenance is completed on the existing BFP the new dewatering equipment can be installed in the BFP building. The project would also address miscellaneous mechanical, electrical systems and controls upgrades to replace assets which are near the end of their useful life.

Function: The dewatering equipment dewaters digested sludge to reduce the volume of sludge that needs to be transported for disposal (approximately 85% reduction in sludge volume).

Failure Modes Addressed:

1. Lack of reliability/redundancy of existing dewatering equipment. There is currently only one operable BFP therefore if the BFP breaks down there would be no means of dewatering sludge requiring costly liquid hauling and/or emergency dewatering services.
2. Lack of maintainability of the existing BFP. The existing BFP cannot be rebuilt due to the adjacent non-operational BFP and lack of space adjacent to the unit.

3. The existing operational BFP was installed in 1998 and is need of repairs for reliable operations.
4. Other miscellaneous assets in the BFP building (e.g. filtrate return pumps, electrical and PLC equipment) are at the end of their useful life and should be replaced as part of this project for economies of scale.

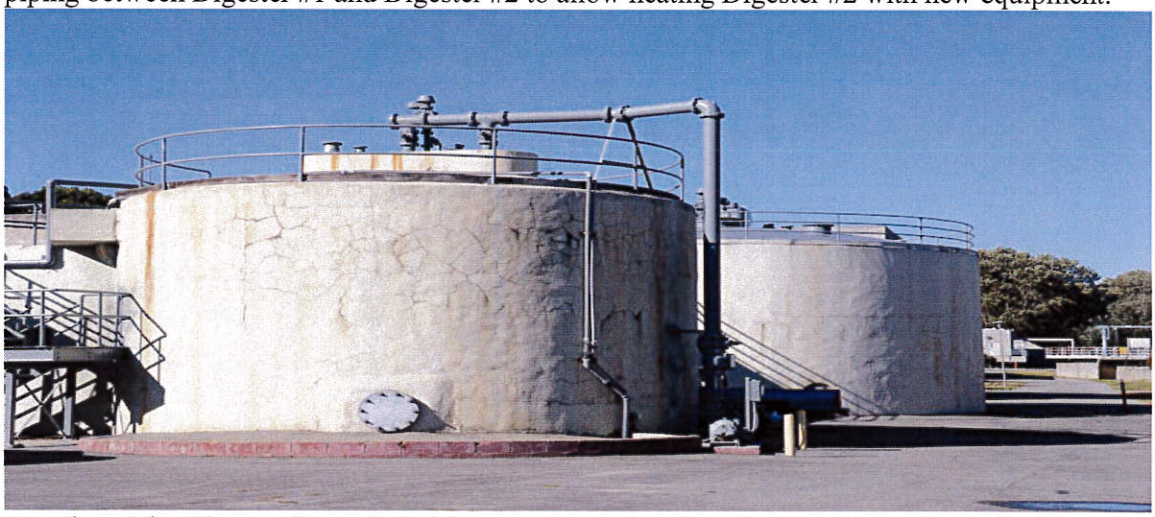
Note: $500K on this project is listed under "Capital Improvement Projects" #1 Belt Press #2 & Polymer Delivery Rehabilitation. Staff originally felt this portion of project could be completed in-house.

Budget Amount: $1000K & $400K in 18/19

11. Interim Digester Improvements (FY 2013/14)

To be completed prior to the end of FY2013/14.

Description: Equipment replacement inside the Digester Control Building including a new hot water boiler, new sludge spiral heat exchanger, new sludge recirculation pumps. Possible leaks in the natural gas feed line to the boiler need to be investigated and repaired. New interconnect piping between Digester #1 and Digester #2 to allow heating Digester #2 with new equipment.



Function: The Digester Control Building equipment is to heat the digester sludge to facilitate mesophilic conditions and pathogen removal in the anaerobic treatment process in order to meet Class B biosolids regulations.

Failure Modes Addressed:

1. Lack of reliability/redundancy of critical process equipment. Regulatory non-compliance of biosolids could result if there is a failure of the single sludge heater, because currently there is no redundancy of the existing sludge heating system.
2. The existing sludge heater has ~70% life consumed. Ferric chloride injected upstream of the Sludge Recirculation pump and Sludge heater have corroded the inside of this equipment which could lead to premature physical failures.
3. The piping valves that allow heating of Digester #2 are not functioning due to a long period of downtime.
4. The existing boiler runs on natural gas provided by PG&E. Leaks have been found recently in the existing natural gas feed line.

5. Digester #1 cannot be taken down for cleaning until after Digester Firm Capacity Improvements are completed. Potential increases in ragging of the heating recirculation system could occur as a result of lack of cleaning.

Budget Amount: Work completed

12. Aeration Valve/Gate & Instrument Rehab (FY 2017/18 – 2018/19)

Shall remain as described.

Description: Rehabilitate exposed process piping and valves in the area of the Aeration Basins. Replace failed Aeration Basin effluent sluice gates. Conduits, wiring and miscellaneous instrumentation will need to be rehabilitated.

Function: The Aeration Basin converts BOD to biomass. Piping conveys return activated sludge and mixed liquor to support the process and instrumentation provides monitoring for reporting and control of the process.

Failure Modes Addressed:

1. Exposed piping and valves in and around the aeration basins are in a corrosive environment and will need to be rehabilitated or replaced. PVC piping will need to be replaced due to exposure to UV light.
2. Sluice gates for the aeration basins effluent are corroded and are no longer operable. Sluice gates will need to be rehabilitated or replaced due to corrosion.
3. Instrumentation and associated electrical controls will need to be replaced at the end of their useful life as part of other rehab work in this project. Instrumentation is exposed to sunlight which reduces the life of panels and gauges.

Budget Amount: $41K & $367K

13. RAS Building Rehab (FY 2019/20)

After emergency backup improvements are completed this year staff feels that the full rehab of the RAS system can remain in FY2019/20. The design will be completed this year and the $122K can be removed at this time.

Description: Inspect and repair or replace electrical equipment (wiring, breakers) in the RAS Pump Building. Install new dedicated sludge wasting pumps and an ultrasonic level sensor in the RAS wet well. Mechanical improvements include installing permanent connections for portable pumps to the RAS wet well for emergency RAS pumping in the event of a failure of the RAS pumps, piping or valves. Rehabilitation/Replacement of existing pump valves.

Function: Equipment in the RAS Pump Building level of service is to pump activated sludge collected in the Secondary Clarifiers to the Anoxic Selector (upstream of aeration basins). Pump waste activated sludge to the thickener. Pump Secondary Clarifier Scum to RAS or WAS stream.

Failure Modes Addressed:

1. Existing electrical wiring has been severely compromised due to corrosion. Electrical equipment (wiring, breakers, etc.) are 40 years old which is beyond the average useful life of electrical equipment.
2. Existing mechanical (valves and piping) equipment is aged and will need to be rehabilitated or replaced.
3. Safety. In addition to the condition and age of electrical equipment, electrical equipment in the RAS Pump Building is in close quarters to working areas which increase hazards if work needs to be done to repair electrical equipment in the event of an electrical failure.
4. Sludge wasting pumps to replace the current practice of flow control valves may improve efficiency of the sludge process by reducing loading on solids treatment equipment.

Budget Amount: $1,098K

14. Primary Clarifier Rehab (FY 2020/21 – 2021/22)

To remain as described.

Description: Rehabilitate the Primary Clarifier structures (by internal lining or concrete repair). Rehabilitate effluent launders (coating). Replace sludge collector mechanisms.

Function: The Primary Clarifiers remove settleable solids from the liquid treatment process.

Failure Modes Addressed:

1. The Primary Clarifier structures are over 40 years old which is the average useful life for this type of structure. There are signs of degradation of the concrete structure both on the exterior of the tanks (cracks with efflorescence) and inside the effluent and scum boxes (concrete biogenic sulfide corrosion).
2. The Primary Clarifier Sludge Collectors are beyond their useful life and will need to be replaced.

Budget Amount: $266K & $1,293K

15. Secondary Clarifier Rehab (FY 2020-21 – 2021/22)

To remain as described.

Description: Rehabilitate Secondary Clarifier structures after detailed seismic review and materials testing of the structure. Rehabilitate effluent launders (coating). Replace sludge collector mechanisms.

Function: The Secondary Clarifiers remove suspended and floatable biomass from the mixed liquor coming from the Aeration Basins.

Failure Modes Addressed:

1. The secondary Clarifier Structures are 40 years old (Clarifier #1) and 30 years old (Clarifier #2) which is about the average useful life for this type of structure. Because they are nearing the end of their useful life the structures should be evaluated and repaired to extend the useful life.
2. The Secondary Clarifier Sludge Collectors are beyond their useful life and will need to be replaced.

Budget Amount: $242K & $1,079K

16. **Digester Firm Capacity Improvements (FY 2014/15 – 2016/17)**

Design is going well. The remaining budget will be carried forward. Design of the new Digester system will be complete and ready to bid by end of the FY2014/15. This budget remains on track. Staff has increased the digester volume to 400,000 gal to conform to the permit capacity of the plant.

Description: Construct a new approximately 360,000 gallon digester complete with ancillary equipment (mixing system, digester gas equipment, sludge heating equipment, etc.). The new digester would be integrated with Digester #1. New equipment would be placed on an elevated equipment pad adjacent to the new digester and the Digester Control Building.

Function: The digesters provide solids retention time of over 15 days for anaerobic digestion. Equipment level of service is to heat and mix the digester sludge to facilitate mesophilic conditions and pathogen removal in order to meet Class B biosolids regulation.

Failure Modes Addressed:

1. Capacity failure. The existing digestion system does not have adequate capacity to digest sludge with Digester #1 out of service (i.e. firm capacity with largest unit out of service).
2. Digesters #2 and #3 are both in poor condition and exhibit signs of structural degradation.
3. Digester #2 and #3 gas piping is in poor condition.
4. Digester #2 Mixer is losing a quart of oil every week which may be an indication of a pending failure.

Budget Amount: $347K; $1,733K & $1,733K

17. **#1 Water Improvements (FY 2013/14 – 2014/15)**

The remaining funds form the FY2013/14 budget will be carried forward and this system will be purchased and installed in FY2014/15

Description: Construction of a new #1 Water Feed System (storage tank, distribution system pressurization pumps, and hydropneumatic tank). New #1 Water System feed system would be located in a new location not in the operations building electrical room. Replacement of #1 Water distribution piping not included (see Misc Yard Piping Rehab and Replacement Project).

Function: Supply potable water throughout the plant for use in restrooms, sinks, lab, pump seal water, and emergency eyewash showers.

Failure Modes Addressed: The existing #1 Water System has reached the end of its useful life and major components such as the storage tank could fail resulting in a loss of service.

Budget Amount: $232K

18. **Storm Water Improvements (FY 2014/15 – 2016/17)**

K/J is still working on the pump station design. Maximum sizing requirements have not been solidified however a good portion of the design is complete. This project will become part of the

major plant improvement contract. The design will be completed FY2014/15 and construction will begin with the FY2015/16 contract which will include the firm digester improvements.

Description: Current system involves manual installation of a gate to stop flows at the end of the plant. Propose install a mini pump station at the end of the system and return the storm water and any spills to the head of the plant for processing.

This project will address the most glaring issue within this system and also include n evaluation of the entire storm water collection system. The current storm drain system is completely inadequate for protecting the riparian habitat surrounding the facility. Currently our storm water collection system has no reliable means of capturing the water leaving the plant if it proved necessary, i.e. hazardous chemicals being accidently spilled into a storm drain.

This project will create an in-house pump station for the plant's drainage system. This pump station would automatically return the collected liquid to the beginning of the treatment process for safe deposit, as opposed to discharging to the ocean. We will replace the current catch basin that is manually operated with a pump station equipped with an overflow system in the event that the pump station was to fail. Additionally, we will conduct an evaluation of the piping network that feeds the system.

Our recent (Feb 2013) audit by the EPA called us out on the inlet protection at each drain. We will solve this problem be installing barriers at each drain location to prevent soil and debris or other material from entering the storm drain drop inlets.

Failure Modes Addressed: The Plant storm water system should be self-contained and all water/spills returned to the head of the plant for processing. Anything less opens the door to potentially sending pollutants out into the habitat area surrounding the facility.

Note: Original staff estimate was for $100K; however, Kennedy Jenks has suggested that we should design something between a pump station and an underground tank with the necessary piping required to return collections to the headworks.

Budget Amount: $25K; $325K & $325K

19. <u>Demo Project (FY 2022/23)</u>

No change to this item at this time.

Description: As we rehab and rebuild there are structures that should be removed. For example: when a new digester is built the old digesters (#2, #3 & #4) should be demolished and removed from the treatment plant site.

Budget Amount $400K

20. <u>Headworks (FY 2023/24)</u>

No change to this item at this time.

Description: Rehabilitate equipment, piping and electrical assets in the headworks area. The assets that should be rehabilitated range from the channel grinder equipment, sludge piping, and electrical system to meet arc flash requirements.

Function: The Headworks process removes rags and grit from the liquid treatment process. Also in the Headworks structure is primary clarifier sludge and scum pumps which convey sludge and scum to the digesters.

Failure Modes Addressed:

1. The Headworks was originally built about 40 years ago. Improvements in 2001 addressed repairs to some equipment but other equipment has not been rehabilitated and is beyond the average useful life.
2. Existing electrical equipment is obsolete and therefore difficult to maintain.

Budget Amount: $675K

21. <u>Reclamation Thickener (FY 2014/15 & 2017/18) (50% Reclamation)</u>

Major development (as a result of staff study) regarding combining waste streams in the existing DAFT. Combining waste streams results in better performance than trying to process them separately. Reduction in costs and power is calculated to be significant. Design will focus on reconstructing the existing DAFT and implementing technologies to reduce power consumption further. Complete desing and rehabilitation is scheduled to be completed FY2014/15. Redundancy for this DAFT will be provided through a package system that is scheduled for purchase in FY2017/18.

Description: Replace Dissolved Air Flotation (DAF) Thickener with Gravity Belt Thickener (GBT). A GBT is designed to deliver higher solids at efficient operating costs, thereby adding value to the District's dewatering strategy. A GBT is a low power, high capacity thickening device designed to operate in a continuous, high throughput application. A large filtration area

provides better performance. An automated control system minimizes operator requirements and provides the ability to monitor operation from the SCADA system.

Note: Kennedy Jenks has increased estimate to $1,000K each year for two years because a) there was no pre-design work done during asset evaluation, and b) staff has indicated they would like to be able to pipe the thickener between Tertiary and Secondary plant, i.e. in the event one side fails the other side will be available as backup, and c) the current Lamella thickener at Reclamation is not performing well and the solution is still not well defined.

Budget Amount: $1000K, $600k

22. Chlorine Contact (2022/23) (25% Reclamation)

Description: Rehabilitate the Chlorine Contact structures after detailed seismic review and materials testing of the structure. Rehabilitate large diameter piping and potentially strengthen piers underneath the Chlor/Dechlor Building. Replace steel covers on top of the Chlorine Contact Pipe Gallery which leak and allow rainwater into the pipe gallery.

Function: The Chlorine Contact Channels provide contact time for chlorine to sufficiently remove or inactivate pathogens.

Failure Modes Addressed:

1. The Chlorine Contact structure will be 40 years old at the time of this project and assessing the need for repairs will extend the useful life of this structure.
2. Piping in the pipe gallery should be recoated to avoid further corrosion of the pipes occurring where the coating has failed.

Budget Amount: $1,511K

23. Operation Building Improvements (FY 2024/25)

Description: Renovate the Ops Building interior including restrooms, office spaces, building mechanical, and redesigning the upstairs electrical room to facilitate a central SCADA monitoring and control station.

Function: The Ops building is the center of operations and control of the WWTP. Currently the Operations Building is a multi-purpose building with office space with computer stations, restrooms/locker rooms, electrical and MCC equipment room, and plant library. To meet the strategic WWTP levels of service of Reliability and Regulatory Compliance, the Operations Building should serve as the central Supervisory Control and Data Acquisition (SCADA) interface location where the plant processes can be effectively monitored and controlled.

Failure Modes Addressed:

1. Level of Service: To meet the strategic WWTP levels of service of Reliability and Regulatory Compliance, the Operations Building should serve as the central Supervisory Control and Data Acquisition (SCADA) interface location where the plant processes can be effectively monitored and controlled. The Ops building SCADA control and monitoring system will need improvements to continue to effectively monitor and control the plant's processes. Furthermore, currently during maintenance of SCADA, operations has had difficulty maintaining the interface.
2. Physical Mortality: The restroom and locker rooms in the Operations Building have not been renovated since original construction in 1970 and are in poor condition.

3. Physical Mortality: Building mechanical systems are in poor condition and need to be replaced with newer and more efficient systems.

The Operations Building has been in service since 1970 without any major improvements. Electrical improvements are planned for the plant's main ower feed which terminates in the Ops Building as part of a separate project. This project would follow those electrical improvements to improve the functionality of the space and SCADA accessibility. Building mechanical systems should also be replaced with more efficient equipment to improve energy efficiency. (The roof will be repaired in a separate project.)

Budget Amount: $599K

24. <u>Misc Yard Piping Rehab (FY 2013/14 and annually thereafter for 15 yrs)</u>

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
- Fire Water Piping
- Influent Piping
- Carmel Meadows Influent Pipeline
- Digester #1 Sludge Piping
- Digester #1 Gas Piping
- Digester Gas Piping to Flare
- Gas Pit
- Digesters Supernatant Piping
- Secondary Clarifier #1 Effluent Piping
- Piping between the Headworks and Primary Clarifiers

Function: 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.

Budget Amount: $89K annually

25. <u>Septage/Grease Receiving Station (FY 2023/24)</u>

Description: Construction of a new Septage/Grease receiving station. Preliminary design by K/J of a combined receiver has concluded that the pay back at this time would be up to 10years. Although staff feels that this service would be a good source of revenue, this length of payback does not justify the installation of this new facility at this time. This facility is not critical to the operation of the treatment plant or improving reliability. The existing grease receiving station can be utilized better and this improvement can be re-evaluated every couple of years to see if the value to the District improves.

Budget Amount: $600K

26. Flare – Replace & Relocate (FY 2015/16)

Description: Replace the existing methane flare with a new technology consistent with current State Air Board regulations and the associated piping.

Function: The flare is used to burn off excess waste methane prior to releasing it into the atmosphere. It is the intent of staff to install appropriate equipment to use all available methane however there are times when it is necessary to burn off the excess methane. The current asset does not meet current air quality standards and has excessive oxidation. Staff agrees that as part of the new digester construction a replacement flare should be relocated near the new digester with replacement piping and equipment. This would be more cost effective than relocating it at a later time, and will be an environmental benefit.

When the microturbines are in operation the District does not have any excess gas, it is all utilized to run the digesters – and the flare is not lit at all. However, any facility must have a flare for waste gas available.

Budget Amount: $350K

27. Co-Gen Project (FY 2025/26)

Description: Install new co-generation equipment to replace the existing Capstone turbines. In general turbines have a useful life of 80,000hrs.

Function: This equipment provides a useful life of 10years. With proper care and bearing replacement staff intends to extend these assets out as far as possible. The turbines have been recently inspected by Capstone and determined to be in excellent condition. Since this equipment is not critical to the operation of the facility, and the new boiler installed this year will have capability to use digester gas, it will not be critical for the District to replace this equipment prior to failure. It is important however to replace this equipment with similar power generation equipment in order to continue to utilize all available methane.

Budget Amount: $600K

28. Aeration Basin Rehabilitation (FY 2025/26)

Description: Rehabilitate the existing aeration basin by recoating the inside of the tanks, replacement of the air diffusers, slide gates and associated piping.

Function: The aeration basin is critical to the processing of wastewater at the treatment plant. All treated water passes through these tanks as biological organisms digest organic waste.

Failure modes Addressed: Concrete deterioration on the walls and base of the tank.

Budget Amount: $500K

29. Replace Standby Generators (FY 2024/25 & 2025/26)

Description: Replacement of the two standby generators.

Function: Each generator has recently been serviced and determined to have a remaining life of around 10 years. This equipment is critical to the emergency operation of the district and they

will be monitored closely of the next 10 years so that proper planning and design can begin prior to the failure of this equipment.

Budget Amount: $400K each year

30. **Treatment Plant Administration Building (FY 2026/27)**
Description: Construction of a new Administration building to serve as the offices, break room, conference room, locker room, for staff at the treatment plant.

Function: The coming improvements at the treatment plant will displace staff from office and locker room areas. The existing break room/conference room is more than 70years old and these facilities will be replaced temporarily by a pre-manufactured building. This building is expected to be in used for approximately 12 years. At that time a permanent building will be required to replace the manufactured building.

Budget Amount $1,000K

31. **Methane Gas Conditioning System (FY 2027/28 & 2028/29)**
Description: Replacement of the methane Hydrogen sulfide scrubbers with new tanks or replacement technology. The tanks have recently been rehabilitated, but it was found that the tanks which are almost 40yrs old will only be safely rehabilitated one more time. This means that a maximum extended life of 12 years would be expected.

Function: The District has two tanks filled with H2S removing media which takes out all H2S from the digester sludge gas and allows the gas to be used in the Co-Generation equipment. This equipment is critical to the operation of the con-generation equipment, and also helps to prolong the life of the boiler if it is operated on digester gas. This system is not critical to the operation of the plant but it will need to be monitored and replaced at the end of its life.

Budget Amount: $325K per year for two years

32. **To be Determined (2027-28)**

Budget Amount: $675K – Resource Center for public and staff.

CARMEL AREA WASTEWATER DISTRICT TREATMENT DEPT
CAPITAL PURCHASES FY 2014/15 - 2018/19

	PURCHASE ITEM	14/15	15/16	16/17	17/18	18/19	Unsched
1	Replace Maintenance truck (1990 Dodge 3/4 ton pickup)	$65,000					
2	Primary Collector Drive replacement	$63,000	$63,000				
3	Secondary Collector Drive replacement	$63,000	$63,000				
4	Total Organic Carbon Analyzer (*Reclamation 50%*)	$42,000					
5	Forklift	$39,000					
6	Primary Clarifier Samplers & Installation	$26,000					
7	Handrail repair/replacement	$25,000	$20,000	$20,000	$15,000	$15,000	$10,000
8	Redundant effluent wet well ultra sonic level indicator & SCADA tie in	$9,500					
9	Grit Collector Drive Unit replacement		$74,000				
10	Ops - Portable Pump (2)		$28,000				
11	Ops - Steam cleaner			$22,500			
12	Ion Chromatograph (100% Reclamation)						$130,000
13	Superintendent's truck (2007 Chevy Silverado)						$35,000
14	Bobcat tractor						$28,000
15	Ops - Server Replacement						$7,000
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
	SUBTOTALS	**$332,500**	**$248,000**	**$42,500**	**$15,000**	**$15,000**	**$210,000**
	RECLAMATION SHARE	$21,000	$0	$0	$0	$0	$130,000
	PBCSD SHARE	$103,833	$82,667	$14,167	$5,000	$5,000	$26,667
	COST TO CAWD	**$207,667**	**$165,333**	**$28,333**	**$10,000**	**$10,000**	**$53,333**

FY 2014-15 Budget

Carmel Area Wastewater District

Project Name: **Replace Maintenance Truck**
Dept: Treatment
Total Cost: $ 65,000
CY Budget $ 65,000
Account: 2720

Contact: Pinkevich
Type: Equipment
Useful Life: 15 years
Category: Capital Equipment
Urgency: 3 = Important
Carry Forwa No

Description:

Currently our maintenance department has two trucks, a 1990 Dodge and a 1993 Ford. Both trucks have flat beds (a configuration which the rear section of the vehicle is flat rather than the traditional style with sides surrounding the cargo area). While the Ford truck is still in good condition, the Dodge truck has reached the end of its useable lifespan and should be retired and replaced. This truck is not capable of towing District equipment safely and has deteriorated to the point where it is no longer safe for highway travel.

Staff does not believe the 1990 Dodge will pass smog and would like to donate it. The District is responsible for making sure a vehicle can pass smog prior to sale -- a donation would relieve us of that responsibility.

Justification:

Due to the condition of this vehicle, Maintenance staff recommends it be replaced with a new one ton truck equipped with utility side boxes and a truck mounted lifting mechanism (crane). The above mentioned vehicle will have the capability to tow all District equipment and safely lift pumps out of treatment facility tanks and lift station wet wells. As a result of not having a truck equipped with a crane, District Maintenance staff currently either coordinate with PBCSD or make other arrangements. Collections utilizes a bumper mounted crane; however it requires some manipulation as it is not able to lift anything high enough to place it in the truck bed. Additionally it requires coordination of staff because of the limitations in its use. Purchasing the proposed truck with attached crane could benefit both Collections and Treatment in lifting large heavy items, resulting in faster repair times.

	Prior	14-15	15-16	16-17	17-18	18-19	19-20	Total
Expenditures:		$ 65,000						$ 65,000

Funding Source:

Capital Reserves

Budget Impact/Other:

Budget Items	14-15	15-16	16-17	17-18	18-19	19-20	Total
Labor							$ -
Parts & Supplies							$ -
Chemicals							$ -
Utility							$ -
Other - Equipment	$ 65,000						$ 65,000
Total	$ 65,000	$ -	$ -	$ -	$ -	$ -	$ 65,000

FY 2014-15 Budget

Carmel Area Wastewater District

Project Name: **Primary Collector Drive Replacement**

Dept: Treatment

Total Cost: $ 126,000

CY Budget $ 63,000

Account: 2152

Contact: Pinkevich

Type: Equipment

Useful Life: 15 years

Category: Capital Equipment

Urgency: 3 = Important

Carry Forv No

Description:

Both Primary Clarifier drives will have logged 40 years of operation and will be in need of a complete rebuild or replacement. Staff research indicates a rebuilt clarifier would cost $65,000 which would be for parts, shipping, and labor. To replace the primary clarifiers it would cost $63,000. The labor cost is less with a replacement becaue the existing clarifier would be demolished.

Staff recommends replacing versus rebuild.

The Long Term Capital plan provides for an intensive rehabilitation in 2020/21 and 2021/22. There are signs of degradation of the concrete structure both on the exterior of the tanks and inside the effluent and scum boxes. The proposed current budget will help to improve reliability until 2020.

Justification:

There is evidence of a lack of maintenance. The oil reservoir will not hold oil and there is moisture in the gear drive. Staff will inspect first and if possible repair prior to making final decision to replace. This budget provides for the worst case scenario -- replacement.

	Prior	14-15	15-16	16-17	17-18	18-19	19-20	Total
Expenditures:		$ 63,000	$ 63,000					$ 126,000

Funding Source:

Capital Reserves

Budget Impact/Other:

Budget Items	14-15	15-16	16-17	17-18	18-19	19-20	Total
Labor							$ -
Parts & Supplies							$ -
Chemicals							$ -
Utility							$ -
Other - Equipment	$ 63,000	$ 63,000					$ 126,000
Total	$ 63,000	$ 63,000	$ -	$ -	$ -	$ -	$ 126,000

FY 2014-15 Budget

Carmel Area Wastewater District

Project Name: **Secondary Collector Drive Replacement**
Dept: Treatment
Total Cost: $ 126,000
CY Budget $ 63,000
Account: 2152

Contact: Pinkevich
Type: Equipment
Useful Life: 15 years
Category: Capital Equipment
Urgency: 3 = Important
Carry Forwa No

Description:

Both Primary Clarifier drives will have logged 40 years of operation and will be in need of a complete rebuild or replacement. Staff research indicates a rebuilt clarifier would cost $65,000 which includes parts, shipping, and labor. To replace the primary clarifiers it would cost $63,000. The labor cost is less with a replacement becaue they would demolish the existing one.

Staff recommends replacing versus rebuild.

The Long Term Capital plan provides for an intensive rehabilitation in 2020/21 and 2021/22. They are beyond their average useful life and should be evaluated and repaired to extend their usefulness.

Justification:

There is evidence of a lack of maintenance. The oil reservoir will not hold oil and there is moisture in the gear drive. Staff will inspect first and if possible repair prior to making a final decision to replace. This budget provides for the worst case scenario -- replacement.

	Prior	14-15	15-16	16-17	17-18	18-19	19-20	Total
Expenditures:		$ 63,000	$ 63,000					$ 126,000

Funding Source:

Capital Reserves

Budget Impact/Other:

Budget Items	14-15	15-16	16-17	17-18	18-19	19-20	Total
Labor							$ -
Parts & Supplies							$ -
Chemicals							$ -
Utility							$ -
Other - Equipment	$ 63,000	$ 63,000					$ 126,000
Total	$ 63,000	$ 63,000	$ -	$ -	$ -	$ -	$ 126,000

FY 2014-15 Budget
Carmel Area Wastewater District

Project Name: **Total Organic Carbon Analyzer**
Dept: Treatment
Total Cost: $ 42,000
CY Budget $ 42,000
Account: 2158

Contact: Pinkevich
Type: Lab
Useful Life: 15 years
Category: Capital Equipment
Urgency: 3 = Important
Carry Forwa Yes

Description:

In the 2013-14 Budget funds were projected to replace the CAWD's total organic carbon analyzer (TOC) in the amount of $38,000. Staff proposes increasing this amount to $42,000

Justification:

Increasing the budget for this capital purchase by $4K will enable staff to acquire a unit with a total nitrogen analyzer accessory. With the enhanced TOC analyzer the lab will be able to derive ammonia values from the TOC (N) combination. This will save the District substantially by making it unnecessary to replace the ammonia distiller at a cost previously budgeted at $16K.

After sharing 50% of the cost with Reclamation and 33% with PBCSD the District's share is $14,000

	Prior	14-15	15-16	16-17	17-18	18-19	19-20	Total
Expenditures:		$ 42,000						$ 42,000

Funding Source:

Capital Reserves (50% Reclamation)

Budget Impact/Other:

Budget Items	14-15	15-16	16-17	17-18	18-19	19-20	Total
Labor							$ -
Parts & Supplies							$ -
Chemicals							$ -
Utility							$ -
Other - Equipment	$ 42,000						$ 42,000
Total	$ 42,000	$ -	$ -	$ -	$ -	$ -	$ 42,000

FY 2014-15 Budget
Carmel Area Wastewater District

Project Name: **Forklift**
Dept: Treatment
Total Cost: $ 39,000
CY Budget $ 39,000
Account: 2720

Contact: Pinkevich
Type: Equipment
Useful Life: 15 years
Category: Capital Equipment
Urgency: 3 = Important
Carry Forv Yes

Description:

Our forklift is used in many areas of the plant. From receiving deliveries to pump removal it is used on a regular basis and is a valuable asset to the District. The forklift provides multiple service as both a vehicle and a lifting tool. The forklift is invaluable in moving heavy items around the plant and for loading and unloading trucks,

Justification:

The current unit is over 30 years old (1982). Staff will continue to re-evaluate annually and will push this item back as long as it remains reliable and safe.

	Prior	14-15	15-16	16-17	17-18	18-19	19-20	Total
Expenditures:		$ 39,000						$ 39,000

Funding Source:

Capital Reserves

Budget Impact/Other:

Budget Items	14-15	15-16	16-17	17-18	18-19	19-20	Total
Labor							$ -
Parts & Supplies							$ -
Chemicals							$ -
Utility							$ -
Other - Equipment	$ 39,000						$ 39,000
Total	$ 39,000	$ -	$ -	$ -	$ -	$ -	$ 39,000

FY 2014-15 Budget

Carmel Area Wastewater District

Project Name: **Primary Clarifier Samplers & Installation**
Dept: Treatment
Total Cost: $ 26,000
CY Budget $ 26,000
Account: 2152

Contact: Pinkevich
Type: Primary Clarifier
Useful Life: 15 years
Category: Capital Equipment
Urgency: 3 = Important
Carry Forwa No

Description:

There are two samplers located at the primary clarifiers, one on each clarifier. These samplers take 24 hour composit samples which are anlayzed for process control purposes. These samplers are not currently used to produce any permit values although permit values could be required from these locations in the future. Laboratory staff proposes the purchase of two new units at a cost of $5,000 each. Additionally staff recommends building a platform on each clarifier for the samplers. Currently the samplers are located on gratings directly over wastewater channels. Maintaining samplers in this location exposes them to unnecessarily harsh environmental conditions which shortens the samplers usable life. Similar platforms are being used on the secondary clarifiers for the samplers with great success.

Justification:

ISCO, the company which manufactures these units has since produced anewer model and no longer makes parts for the samplers CAWD currently uses. If one of these units should fail it would not be possible to obtain replacement parts.
Currently neither of the sampler's refrigerator unit functions, and are unable to produce permit values.
Additionally, the overall condition of the sampler unit has degraded due to age and is no longer 100% reliable.

	Prior	14-15	15-16	16-17	17-18	18-19	19-20	Total
Expenditures:		$ 26,000						$ 26,000

Funding Source:

Capital Reserves

Budget Impact/Other:

Budget Items	14-15	15-16	16-17	17-18	18-19	19-20	Total
Labor	$ 16,000						$ 16,000
Parts & Supplies							$ -
Chemicals							$ -
Utility							$ -
Other - Equipment	$ 10,000						$ 10,000
Total	$ 26,000	$ -	$ -	$ -	$ -	$ -	$ 26,000

FY 2014-15 Budget
Carmel Area Wastewater District

Project Name: **Handrail repair/replacement**
Dept: Treatment
Total Cost: $ 105,000
CY Budget $ 25,000
Account: 2159

Contact: Pinkevich
Type: Equipment
Useful Life: 30 years
Category: Capital Equipment
Urgency: 3 = Important
Carry Forwa No

Description:

The plant currently has three types of handrails: aluminum, steel and stainless steel. Over the years the steel has degraded and is in need of repair or replacement. The stainless steel is in good condition, but is in need of a coating. Moving forward we will follow these guidelines:

1. New installations will utilize aluminum
2. Repairs to the current steel and stainless will be performed whenever possible. These metals will then be painted to match the aluminum rails.

Justification:

Again, rails are in need of repair. Because of our plants proximity to the ocean we are highly suscptible to rust. The rails are a necessary safety component for our facility.

	Prior	14-15	15-16	16-17	17-18	18-19	Unscheduled	Total
Expenditures:		$ 25,000	$ 20,000	$ 20,000	$ 15,000	$ 15,000	$ 10,000	$ 105,000

Funding Source:

Capital Reserves

Budget Impact/Other:

Budget Items	14-15	15-16	16-17	17-18	18-19	Unscheduled	Total
Labor	$ 12,500	$ 10,000	$ 10,000	$ 7,500	$ 7,500	$ 5,000	$ 52,500
Parts & Supplies	$ 12,500	$ 10,000	$ 10,000	$ 7,500	$ 7,500	$ 5,000	$ 52,500
Chemicals							$ -
Utility							$ -
Other							
Total	$ 25,000	$ 20,000	$ 20,000	$ 15,000	$ 15,000	$ 10,000	$ 105,000

FY 2014-15 Budget

Carmel Area Wastewater District

Project Name: **Redundant Effluent Wet Well Ultra Sonic Level Indicator**

Dept: Treatment

Total Cost: $ 9,500

CY Budget $ 9,500

Account: 2163

Contact: Pinkevich

Type: Equipment

Useful Life: 10 years

Category: Capital Equipment

Urgency: 2 = Very Important

Carry Forv No

Description:

The wet well level indicator is a critical measuring device and is a single point of failure. Not only does it measure the wet well levels but it is also used to measure flows.

Justification:

Currently we only have one effluent wet well level monitoring system which is used to automatically control the effluent pumps that discharge to the ocean. This system is a bubbler system and although it has been reliable, it is outdated. Parts are difficult to acquire and it is a single point of failure. In the event some part of the bubbler should fail it may take an extended amount of time to repair, thus requiring 24 hour plant staffing to manually control the pumps until repairs are complete.

	Prior	14-15	15-16	16-17	17-18	18-19	19-20	Total
Expenditures:		$ 9,500						$ 9,500

Funding Source:

Capital reserves

Budget Impact/Other:

Budget Items	14-15	15-16	16-17	17-18	18-19	19-20	Total
Labor							$ -
Parts & Supplies							$ -
Chemicals							$ -
Utility							$ -
Other - equipment	$ 9,500						$ 9,500
Total	$ 9,500	$ -	$ -	$ -	$ -	$ -	$ 9,500

FY 2014-15 Budget

Carmel Area Wastewater District

Project Name: **Grit Collector Drive Unit replacement**
Dept: Treatment
Total Cost: $ 74,000
CY Budget $ -
Account: 2154

Contact: Pinkevich
Type: Influent
Useful Life: 30 years
Category: Capital Equipment
Urgency: 3 = Important
Carry Forv No

Description:

The removal of grit is a primary purpose of the pre-treatment process. The grit collector is an automatic conveyor system for grit removal from continuous or batch wastewater flows. At CAWD the grit collector is an inclined conveyor with the drive unit located outside the tank for easy access.

Justification:

The current drive is experiencing several issues with it's internal seals and has logged 30+ years of service.

	Prior	14-15	15-16	16-17	17-18	18-19	19-20	Total
Expenditures:			$ 74,000					$ 74,000

Funding Source:

Capital reserves

Budget Impact/Other:

Budget Items	14-15	15-16	16-17	17-18	18-19	19-20	Total
Labor							$ -
Parts & Supplies							$ -
Chemicals							$ -
Utility							$ -
Other - equipment		$ 74,000					$ 74,000
Total	$ -	$ 74,000	$ -	$ -	$ -	$ -	$ 74,000

FY 2015-16 Budget
Carmel Area Wastewater District

Project Name: **Misc Portable Pumps**
Dept: Treatment
Total Cost: $ 28,000
CY Budget $ -
Account: 2159

Contact: Pinkevich
Type: Other
Useful Lif 10 years
Category: Capital Equipment
Urgency: 3 = Important
Carry Forv No

Description:

Two inch pumps used by staff to dewater tanks, wet wells and sumps. Equipped with level sensor for unattended operations.

Justification:

As we progress through the CIP during the next ten years it is important we have the capabilities to perform planned and emergency bypass operations.

	Prior	14-15	15-16	16-17	17-18	18-19	19-20	Total
Expenditures:			$ 28,000					$ 28,000

Funding Source:

Capital Reserves

Budget Impact/Other:

Budget Items	14-15	15-16	16-17	17-18	18-19	19-20	Total
Labor							$ -
Parts & Supplies							$ -
Chemicals							$ -
Utility							$ -
Other - Equipment		$ 28,000					$ 28,000
Total	$ -	$ 28,000	$ -	$ -	$ -	$ -	$ 28,000

FY 2015-16 Budget

Carmel Area Wastewater District

Project Name: **Steam Cleaner**
Dept: Treatment
Total Cost: $ 22,500
CY Budget $ -
Account: 2159

Contact: Pinkevich
Type: Maintenance
Useful Life: 15 years
Category: Capital Equipment
Urgency: 3 = Important
Carry Forwa No

Description:

Mobile steam cleaner used by staff on location to clean structures and equipment that have been subjected to harsh conditions at plant.

Justification:

Original unit purchased in 1996 - expected life 15 years.

	Prior	14-15	15-16	16-17	17-18	18-19	19-20	Total
Expenditures:				$ 22,500				$ 22,500

Funding Source:

Capital Reserves

Budget Impact/Other:

Budget Items	14-15	15-16	16-17	17-18	18-19	19-20	Total
Labor							$ -
Parts & Supplies							$ -
Chemicals							$ -
Utility							$ -
Other - Equipment			$ 22,500				$ 22,500
Total	$ -	$ -	$ 22,500	$ -	$ -	$ -	$ 22,500

FY 2014-15 Budget

Carmel Area Wastewater District

Project Name: **Lab - Ion Chromatograph**
Dept:
Total Cost: $ 130,000
CY Budget $ -
Account: 2158

Contact:
Type:
Useful Life:
Category:
Urgency:
Carry Forward:

Description:

Current ion chromatograph is still in good condition and the parts for repair are still available. The technology is dated, but staff is comfortable with staying with the current machine.

Justification:

This is entered into "Unscheduled" because it will likely require CAWD to enter into a lease agreement (as it did with the current machine). CAWD is legally responsible for the lease payments & the Reclamation Project makes reimbursement to CAWD.

	Prior	14-15	15-16	16-17	17-18	18-19	Unscheduled	Total
Expenditures:							$ 130,000	$ 130,000

Funding Source:

100% Reclamation

Budget Impact/Other:

Budget Items	14-15	15-16	16-17	17-18	18-19	Unscheduled	Total
Labor							$ -
Parts & Supplies							$ -
Chemicals							$ -
Utility							$ -
Other - Equipment						$ 130,000	$ 130,000
Total	$ -	$ -	$ -	$ -	$ -	$ 130,000	$ 130,000

FY 2014-15 Budget

Carmel Area Wastewater District

Project Name: **Superintendent's truck**
Dept: Treatment
Total Cost: $ 35,000
CY Budget $ -
Account: 2720

Contact: Pinkevich
Type: Equipment
Useful Life: 10 years
Category: Capital Equipment
Urgency: 3 = Important
Carry Forv No

Description:

2007 Chevy Silerado - will be 10 years old in 2017-18

Justification:

Propose moving this truck to the Operations Department and utilizing it as a spare around the plant -- thereby extending life beyond 10 years

	Prior	14-15	15-16	16-17	17-18	18-19	Unscheduled	Total
Expenditures:							$ 35,000	$ 35,000

Funding Source:

Capital Reserves

Budget Impact/Other:

Budget Items	14-15	15-16	16-17	17-18	18-19	Unscheduled	Total
Labor							$ -
Parts & Supplies							$ -
Chemicals							$ -
Utility							$ -
Other - Equipment						$ 35,000	$ 35,000
Total	$ -	$ -	$ -	$ -	$ -	$ 35,000	$ 35,000

FY 2014-15 Budget

Carmel Area Wastewater District

Project Name: **Bobcat tractor**
Dept: Treatment
Total Cost: $ 28,000
CY Budget
Account: 2720

Contact: Pinkevich
Type: Equipment
Useful Lif 10 years
Category: Capital Equipment
Urgency: 3 = Important
Carry Forv No

Description:

A skid steer compact loader, commonly referred to as a "bobcat", is a small loader, approximately six feet long, five feet tall and five feet wide. Skid steer loaders generally have a loader style bucket for moving material such as dirt or sand but also can be converted to serve in capacities such as brush cutter, hydraulic jack hamme,r manhole cutter, lawn mower, tree trimmer, or road grader in addition to many other functions. Converting a a skid steer to serve another function is accomplished by removing the bucket and installing an attachment. These attachments are designed to be easily changed in a relatively short time and can be rented locally on an as needed basis.

Justification:

Due to its size, a skid steer could be placed on a trailer and towed throughout the District. Currently CAWD owns a full size loader which cannot be transported and cannot fit on easements. While the District's current loader works well for large scale projects, a compact skid steer would enable the Collections Department to utilize it to maintain easements, a task currently completed by hand (time consuming and exposes crew to poison oak). A skid steer could also be used in place of the current compact hydraulic hose reel used by Collections to access remote manholes.

In addition, a skid steer could be used on a daily basis around the Treatment facility by maintenance and operations staff to transport material or in other configuartions such as a small backhoe, tree trimmer, street sweeper, or grass cutter. The proposed skid steer will be equipped with tracks rather than wheels to give it increased traction and a "tear 4" engine in order to meet emission standards.

	Prior	14-15	15-16	16-17	17-18	18-19	Unscheduled	Total
Expenditures:							$ 28,000	$ 28,000

Funding Source:

Capital Reserves

Budget Impact/Other:

Budget Items	14-15	15-16	16-17	17-18	18-19	Unscheduled	Total
Labor							$ -
Parts & Supplies							$ -
Chemicals							$ -
Utility							$ -
Other - Equipment						$ 28,000	$ 28,000
Total	$ -	$ -	$ -	$ -	$ -	$ 28,000	$ 28,000

FY 2014-15 Budget

Carmel Area Wastewater District

Project Name: **Server Replacement**
Dept: Treatment
Total Cost: $ 7,000
CY Budget $ -
Account: 2735

Contact: Pinkevich
Type: Computers
Useful Life: 5 years
Category: Capital Equipment
Urgency: 3 = Important
Carry Forwa No

Description:

The servers are replaced every five years.

Justification:

The District's computer network is a critical component of operations. We replace the servers every five years to ensure reliability and limit the potential for down time.

	Prior	14-15	15-16	16-17	17-18	18-19	Unscheduled	Total
Expenditures:							$ 7,000	$ 7,000

Funding Source:

Capital Reserves

Budget Impact/Other:

Budget Items	14-15	15-16	16-17	17-18	18-19	Unscheduled	Total
Labor							$ -
Parts & Supplies							$ -
Chemicals							$ -
Utility							$ -
Other - Equipment						$ 7,000	$ 7,000
Total	$ -	$ -	$ -	$ -	$ -	$ 7,000	$ 7,000

CARMEL AREA WASTEWATER DISTRICT TREATMENT PLANT
MAINTENANCE PROJECTS - FY 2014/15 - 20/21

	PROJECT	14/15	15/16	16/17	17/18	18/19	19/20	20/21
1	Various roof repair/replace	$85,000	$70,000					
2	Replacement of critical valves	$100,000	$100,000	$100,000	$100,000	$100,000	$100,000	
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	TREATMENT & DISPOSAL TOTAL	**$185,000**	**$170,000**	**$100,000**	**$100,000**	**$100,000**	**$100,000**	**$0**
	RECLAMATION SHARE (1)	$0	$0	$0	$0	$0	$0	$0
	PBCSD SHARE	$61,667	$56,667	$33,333	$33,333	$33,333	$33,333	$0
	CAWD COST	**$123,333**	**$113,333**	**$66,667**	**$66,667**	**$66,667**	**$66,667**	**$0**

FY 2014-15 Budget

Carmel Area Wastewater District

Project Name: **Repair/Replace roofing around facility**
Dept: Treatment
Total Cost: $ 155,000
CY Budget $ 85,000
Account: 6511

Contact: Pinkevich
Type: Administration
Useful Life: 20 years
Category: Maintenance
Urgency: 3 = Important
Carry Forwa No

Description:

Various areas around the plant are in need of either patch roof repair or replacement.
Preliminary estimates as follows:

Influent Building	$25K
Ops Building	$25K
Boiler Building	$35K
Solids Handling Building	$25K
Lab	$20K
Effluent Building	$25K

The estimate includes skylight repair and fall protection

Justification:

Basic repair and/or replacement is required to protect structural integrity of various facilities.
Repair work will be expensed. Replacement work will be capitalized.

	Prior	14-15	15-16	16-17	17-18	18-19	19-20	Total
Expenditures:		$ 85,000	$ 70,000					$ 155,000

Funding Source:

Replace = Capital Reserves Repair = O&M Budget

Budget Impact/Other:

Budget Items	14-15	15-16	16-17	17-18	18-19	19-20	Total
Labor							$ -
Parts & Supplies							$ -
Chemicals							$ -
Utility							$ -
Other - Roofing Contractor	$ 85,000	$ 70,000					$ 155,000
Total	$ 85,000	$ 70,000	$ -	$ -	$ -	$ -	$ 155,000

FY 2014-15 Budget
Carmel Area Wastewater District

Project Name: **Replace Critical Valves as needed**
Dept: Treatment
Total Cost: $ 600,000
CY Budget $ 100,000
Account: 6511

Contact: Pinkevich
Type: Equipment
Useful Life: 20 years
Category: Maintenance
Urgency: 3 = Important
Carry Forw: No

Description:

These funds will be utilized to rehabilitate or replace valves as we progress with projects. In many cases projects cannot proceed or will be delayed until the proper valving and bypass valving systems are in place and determined to be reliable. Staff believes the best approach is to allocate yearly for the next five years so that the entire plant can be rehabilitated.

Justification:

Numerous valves are inoperable throughout the plant.

	Prior	14-15	15-16	16-17	17-18	18-19	19-20	Total
Expenditures:		$ 100,000	$ 100,000	$ 100,000	$ 100,000	$ 100,000	$ 100,000	$ 600,000

Funding Source:

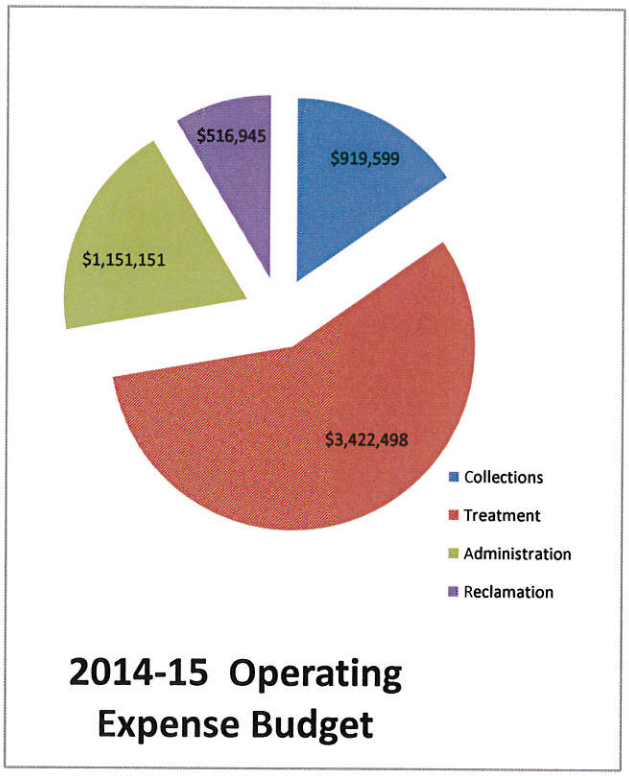
Replace = Capital Reserves Repair = O&M Budget

Budget Impact/Other:

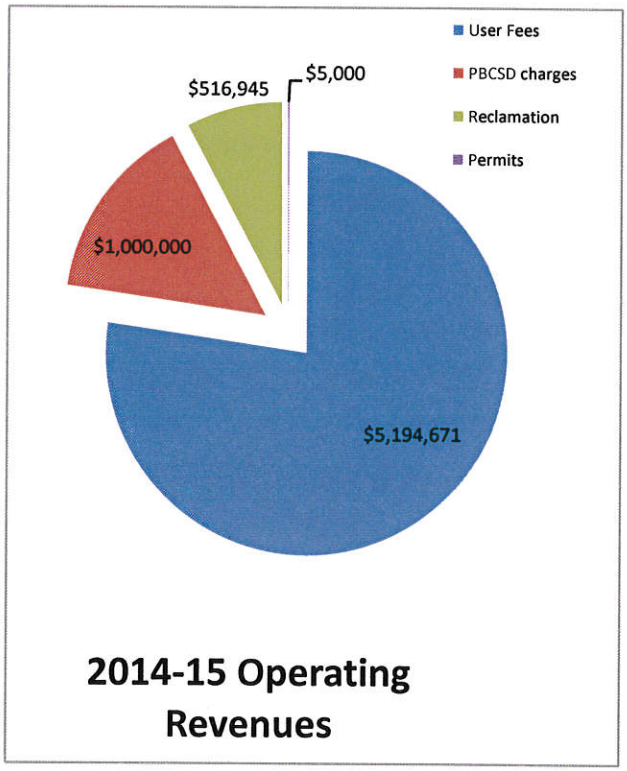
Budget Items	14-15	15-16	16-17	17-18	18-19	19-20	Total
Labor	$ 20,000	$ 20,000	$ 20,000	$ 20,000	$ 20,000	$ 20,000	$ 120,000
Parts & Supplies	$ 80,000	$ 80,000	$ 80,000	$ 80,000	$ 80,000	$ 80,000	$ 480,000
Chemicals							$ -
Utility							$ -
Other							$ -
Total	$ 100,000	$ 100,000	$ 100,000	$ 100,000	$ 100,000	$ 100,000	$ 600,000

CAWD/PBCSD Reclamation Project
CAPITAL BUDGET - FY 2014/15 - FY 2018/19

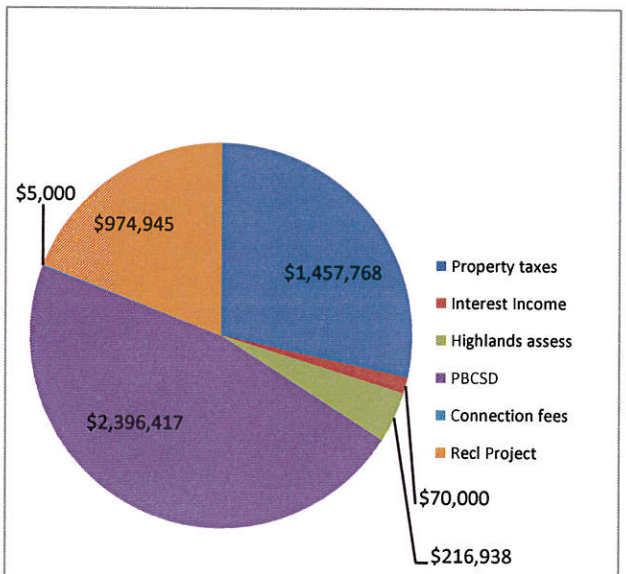
	PROJECT	14/15	15/16	16/17	17/18	18/19	Unsched
	Capital Improvement Projects						
1	Recl Thickener (*Reclamation 50%*)	$1,000,000			$600,000		
2	Hypochlorite/SBS (*Reclamation 25%*)	$612,000	$612,000				
3	Install Grinder, Rehab Inlet Gates & Interconnect Gates in Influent Wet Well (*Reclamation 15%*)	$175,000					
5	Reliability study of SCADA, PLC, and Communication Systems (*Reclamation 50%*)	$72,500		$700,000			
7	P932 & P933 pump repair/replacement w/ motorized valves/check valves	$59,945					
8	Field Instrument Study/Repair/Rplc and Modifications (*Reclamation 25%*)	$50,000					
10	Total Organic Carbon Analyzer (*Reclamation 50%*)	$42,000					
12	Instrumentation upgrade SBS pumps at CDC install flow mtrs & totalizer (*Reclamation 100%*)	$40,000					
14	Reclaim pumps/check valves/electric valves with actuators	$40,000					
16	MF waste flow control: VFD installation, Siemens programming	$40,000					
18	Delta-Stack solids pump replacement/repair and gear box assembly	$35,000					
19	Tertiary pH Adjustment System (*Reclamation 100%*)	$30,000					
20	Equalization Spray System (*Reclamation 50%*)		$40,000				
21	MF/RO building siding			$125,000			
22	MF/RO ventilation due to CL2 off gassing with siding installed			$25,000			
	Capital Purchases						
1	Lab - Ion Chromatograph (*Reclamation 100%*)						$130,000
	TOTAL	**$2,196,445**	**$652,000**	**$850,000**	**$600,000**	**$0**	**$130,000**
	RECLAMATION SHARE (1)	$974,945	$193,000	$500,000	$300,000	$0	$130,000
	PBCSD SHARE (2)	$407,167	$153,000	$116,667	$100,000	$0	$0
	CAWD COST	**$814,333**	**$306,000**	**$233,333**	**$200,000**	**$0**	**$0**



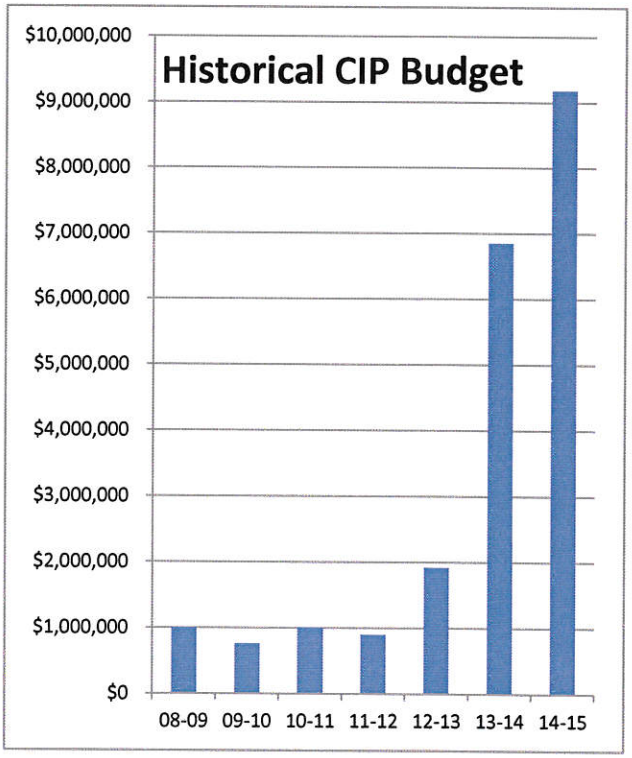
2014-15 Operating Expense Budget



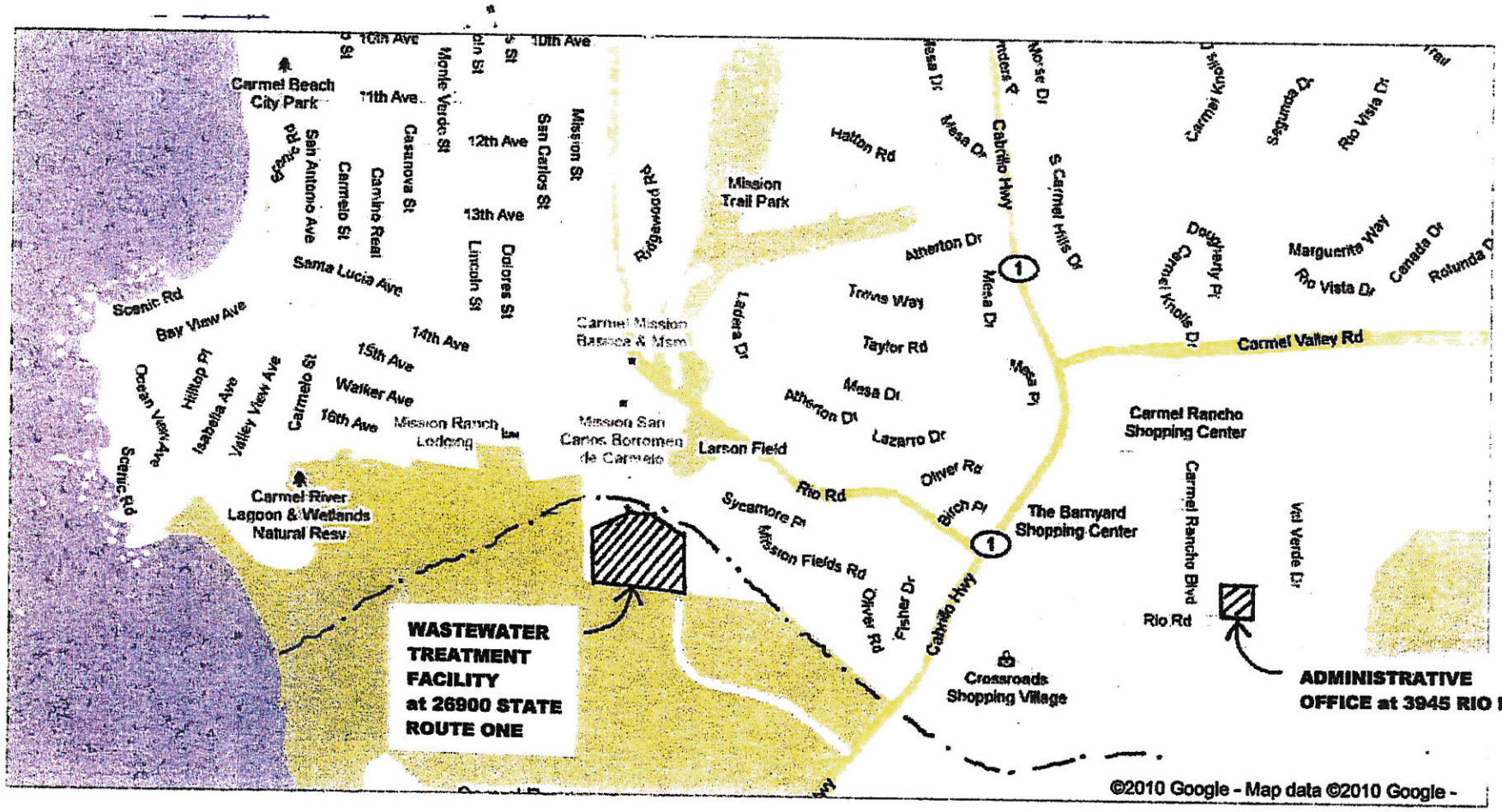
2014-15 Operating Revenues

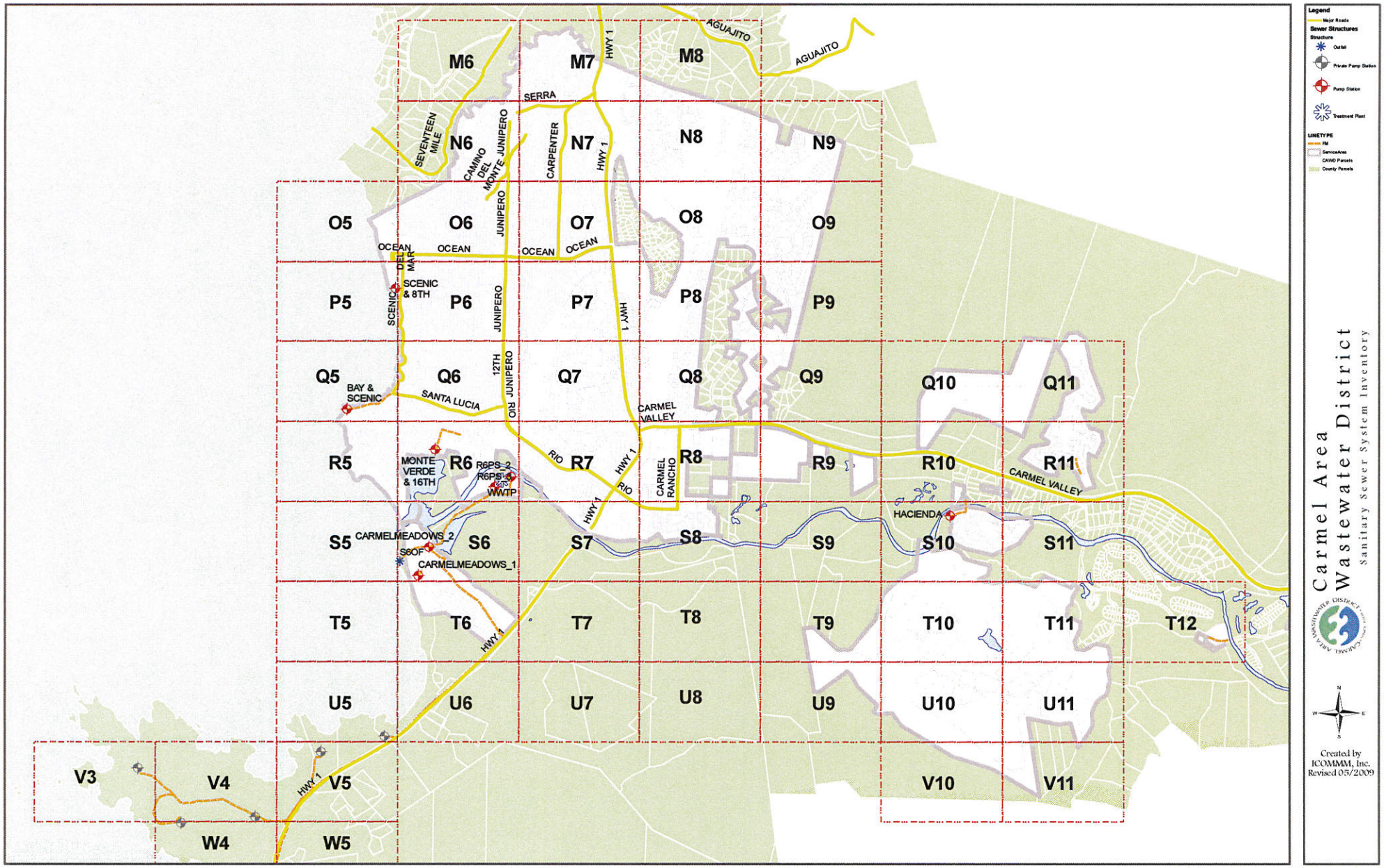


2014-15 Non Operating Revenues



The Wastewater Treatment Facility is located South of the City of Carmel at 26900 State Route One. Heading South on State Route One, take an immediate right turn after crossing the Carmel River bridge. The Facility is approximately 1/3 mile West of State Route One.





Legend

Major Roads

Sewer Structures

Structure

Outfall

Private Pump Station

Pump Station

Treatment Plant

LINETYPE

FM

ServiceArea

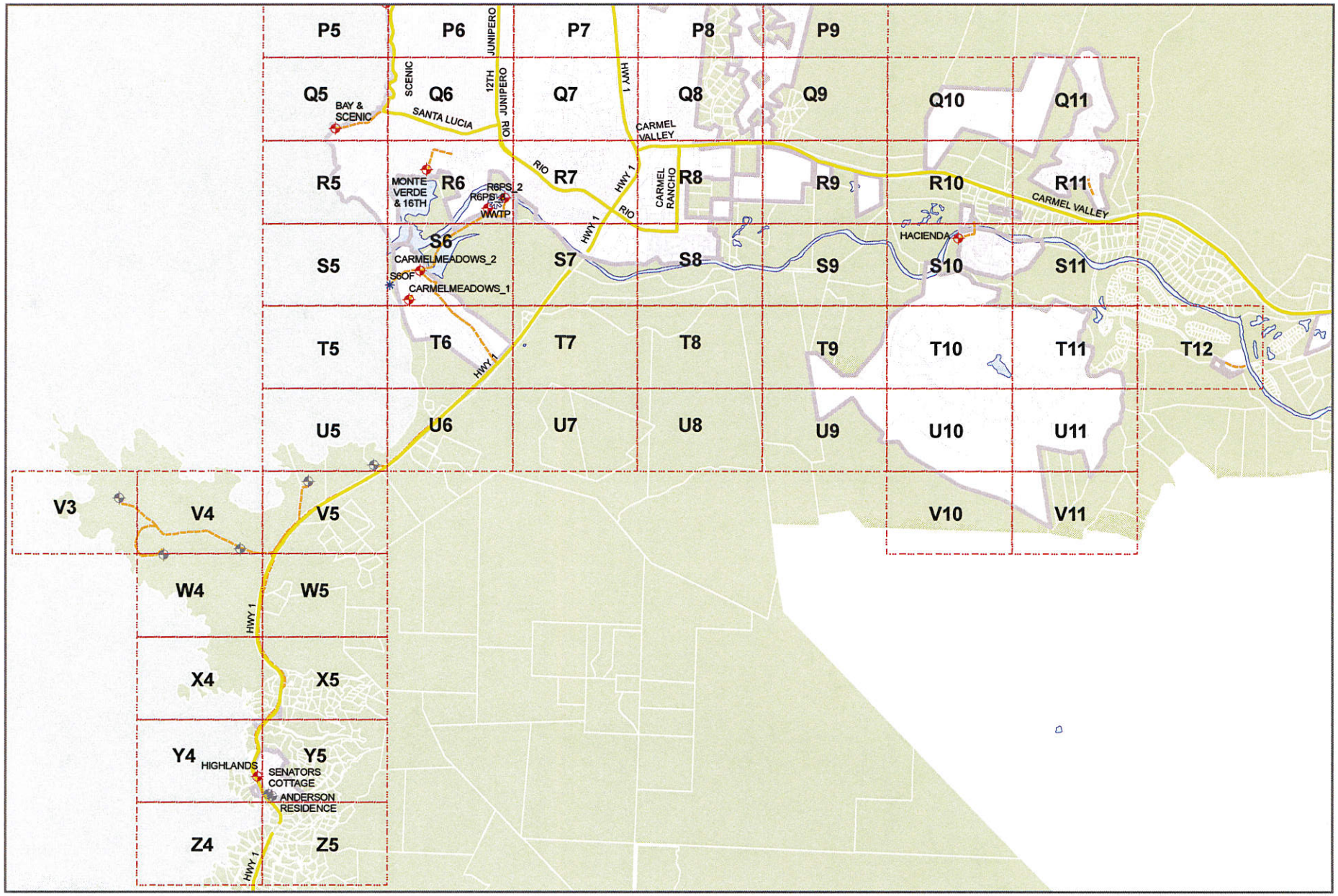
CAWD Parcels

County Parcels

Carmel Area Wastewater District

Sanitary Sewer System Inventory

Created by ICOMMM, Inc.
Revised 05/2009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U7
U8
U9
U10
U11
V3
V4
V5
V10
V11
W4
W5
X4
X5
Y4
Y5
Z4
Z5
BAY & SCENIC
SCENIC
SANTA LUCIA
JUNIPERO
12TH
RIO
HWY 1
CARMEL VALLEY
CARMEL RANCHO
MONTE VERDE & 16TH
R6PS_2
R6PS_1
WWTP
CARMELMEADOWS_2
S6OF
CARMELMEADOWS_1
HACIENDA
HIGHLANDS
SENATORS COTTAGE
ANDERSON RESIDENCE
Legend
Major Roads
Sewer Structures
Structure
Outfall
Private Pump Station
Pump Station
Treatment Plant
LINETYPE
FM
ServiceArea
CAWD Parcels
County Parcels
Carmel Area Wastewater District
Sanitary Sewer System Inventory
N
W
E
S
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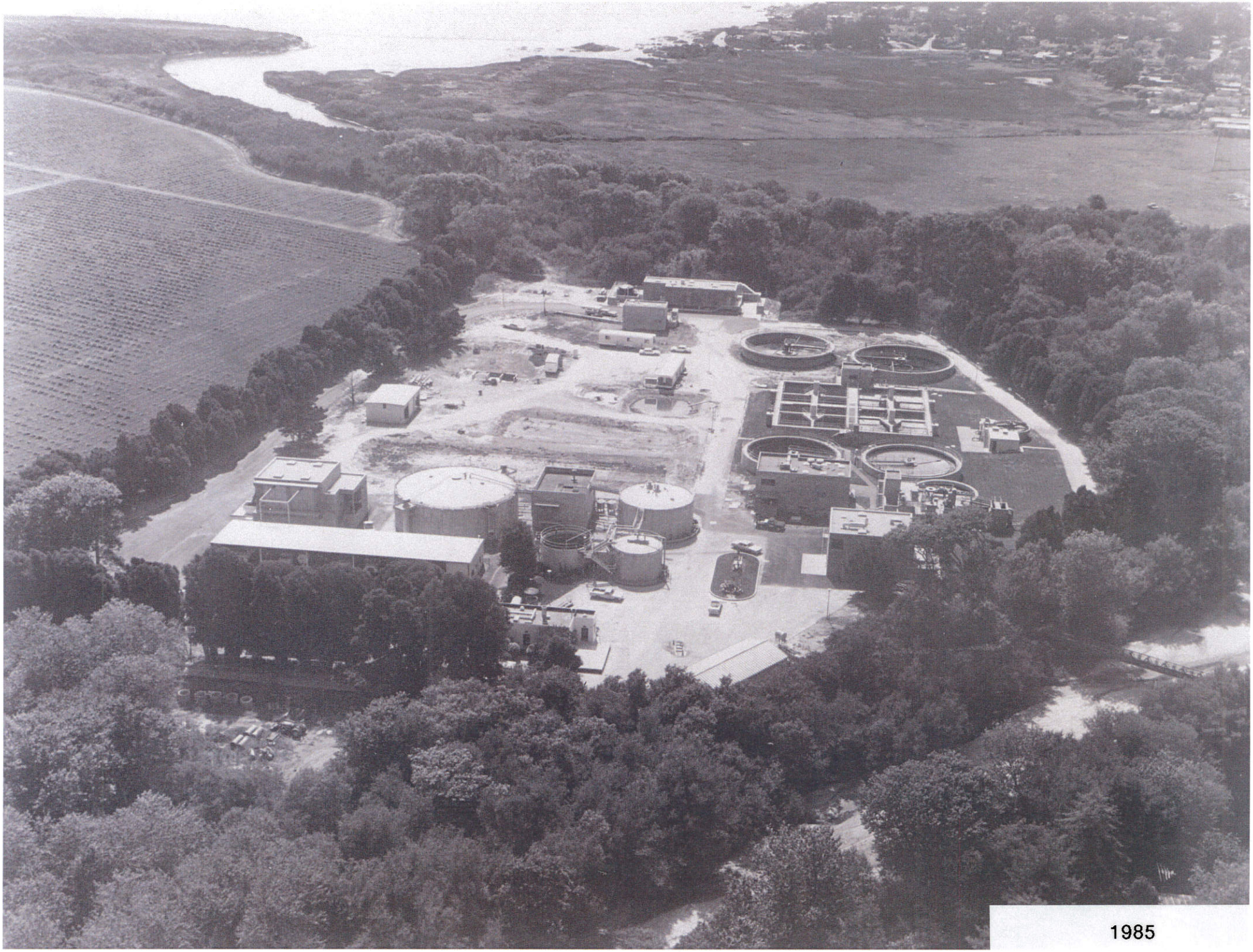
Revised 05/2009

1939

1955

1973



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