

CAWD/PBCSD RECLAMATION  
PROJECT

2022-23 BUDGET

Reviewed by Finance Officer's Work Group (FOWG) on - April, 2022

Reviewed by Technical Advisory Committee (TAC) on May 3, 2022

Presented to Reclamation Management Committee (RMC) on May 10, 2022

CAWD/PBCSD Reclamation Project  
2022-23

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**CAWD/PBCSD RECLAMATION PROJECT  
2022-23 BUDGET SUMMARY**

	<b>Actual 2020-21</b>	<b>Estimated Actual 2021-22</b>	<b>2021-22 Budget</b>	<b>Proposed 2022-23 Budget</b>	<b>Inc/(Dec) Proj.Actual 2021-22</b>	<b>Proposed to Budget 21-22</b>
<b>User Revenue</b>						
Water Sales	2,718,134	2,805,618	2,884,000	3,421,188	21.94%	18.63%
Non Operating Share	4,120,604	4,535,537	4,116,000	4,057,756	-10.53%	-1.42%
<b>Operating Expenses</b>						
Plant Operating Expenses	1,761,523	2,385,413	2,004,873	2,535,194	6.28%	26.45%
PBCSD Expenses	395,403	458,739	550,250	580,000	26.43%	5.41%
CAWD Admin. Expenses	89,623	107,208	94,386	111,798	4.28%	18.45%
MPWMD Admin. Expenses	56,718	49,527	49,160	61,520	24.22%	25.14%
PBCo / IRWUG Expenses	50,638	53,505	53,775	55,926	4.52%	4.00%
Potable Water Costs	7,013	3,957	6,750	6,750	70.60%	0.00%
MPWMD fee	72,776	70,000	90,000	70,000	0.00%	-22.22%
	<u>2,433,694</u>	<u>3,128,349</u>	<u>2,849,194</u>	<u>3,421,188</u>	<u>9.36%</u>	<u>20.08%</u>
<b>Operating Income/(Loss) before Amortization</b>	<u>4,405,044</u>	<u>4,212,807</u>	<u>4,150,806</u>	<u>4,057,756</u>	<u>-3.68%</u>	<u>-2.24%</u>
<b>Non Operating Revenues/(Expenses)</b>						
Interest Income	12,112	16,217	30,170	25,015	54.25%	-17.09%
Bond Carrying Costs	(20,055)	(20,000)	(25,000)	(20,000)	0.00%	-20.00%
Bank charges	0	0	(75)	(35)	n/a	-53.33%
Interest to MPWMD	(22,875)	(7,625)	(7,625)	0	-100.00%	-100.00%
Principal Pymt to MPWMD	(500,000)	(500,000)	(500,000)	0	-100.00%	-100.00%
LC Carrying Costs	(52,107)	(26,650)	(28,800)	(24,000)	-9.94%	-16.67%
COP Interest Expense	(3,450)	(2,708)	(18,200)	(13,000)	380.03%	-28.57%
COP Principal Payment	(2,400,000)	(2,500,000)	(2,500,000)	(2,600,000)	4.00%	4.00%
Interest on Principal Advanced	(46,718)	(61,515)	(70,000)	(35,880)	-41.67%	-48.74%
Past LC fees/Bond Carry Cost	(552,000)	(552,000)	(552,000)	(552,000)	0.00%	0.00%
Other Revenue/(Expense)	0	0	(158,000)	0	n/a	n/a
	<u>(3,585,094)</u>	<u>(3,654,281)</u>	<u>(3,829,530)</u>	<u>(3,219,900)</u>	<u>-11.89%</u>	<u>-15.92%</u>
<b>Income/(Loss) before Capital</b>	<u>819,950</u>	<u>558,526</u>	<u>321,276</u>	<u>837,856</u>	<u>50.01%</u>	<u>160.79%</u>
<b>Capital Budget</b>						
Purchases	35,346	115,000	164,750	237,300	106.35%	44.04%
Improvement Projects	319,966	379,453	959,900	1,220,556	221.66%	27.15%
	<u>355,312</u>	<u>494,453</u>	<u>1,124,650</u>	<u>1,457,856</u>	<u>194.84%</u>	<u>29.63%</u>
<b>Net Income/(Loss)</b>	<u>464,638</u>	<u>64,073</u>	<u>(803,374)</u>	<u>(620,000)</u>	<u>-1067.64%</u>	<u>-22.83%</u>
<b>Less Unspent Capital</b>			803,374	620,000		
<b>Less Excess O&amp;M Contributions</b>				0		
<b>Balanced Net Income</b>	<u>464,638</u>	<u>64,073</u>	<u>0</u>	<u>(0)</u>	<u>-100.00%</u>	<u>n/a</u>
<b>Amortization Exp</b>	<u>1,744,169</u>	<u>1,700,000</u>	<u>1,680,000</u>	<u>1,700,000</u>	<u>0.00%</u>	<u>1.19%</u>

**CAWD/PBCSD RECLAMATION PROJECT  
REVENUE PROJECTIONS  
FY 2022-23**

Description	Acct. No.	Actual 2020-21	Estimated Actual 2021-22	2021-22 Budget	Proposed 2022-23 Budget	Comments
Revenue						
Interest Income - County	99906	11	8	40	15	O&M operating funds are on deposit with the County of Monte
Interest Income - Bank of America	99904	0	0	40	0	Water sales revenue funds are invested in money market acc
Interest Income- (O&M Reserve & Cap Repl)	99908	7,158	5,813	15,000	10,000	Renewal & replacement funds invested in highly rated comm'l
Gain (loss) on Securities	99936	4,927	10,396	15,000	15,000	
Interest Income - Union Bank (O&M)	99910	16	0	75	0	
Interest Income - Wells Fargo Escrow Acct	99912	0	0	15	0	
Other Revenue	99945	0	0	0	0	
Water Sales (inc. late prmts)	52000	2,718,134	2,805,618	2,884,000	3,421,188	See schedule p. 17
Fixed Cost Charge		4,120,604	4,535,537	4,116,000	4,057,756	Increase due to resumption of Districts User Fee on Cal-Am bills
MPWMD fees (8.325%)	53000	(72,776)	(70,000)	(90,000)	(70,000)	
<b>TOTAL REVENUE</b>		<b>6,778,074</b>	<b>7,287,373</b>	<b>6,940,170</b>	<b>7,433,959</b>	<b>7.1% increase from 21-22 budget</b> <b>2.0% increase from 21-22 Projected actual</b>

Note 1: The origin of the 8.325% charge is based on the premise that all users of water provided by the Reclamation Project will pay the exact same cost as they would pay for a similar quantity of potable water. The specific provision related to the MPWMD User Fee is contained in Section 5, Bond Carrying Costs, Operation and Maintenance Expenses and Operating Revenues, of the Financing Implementation Agreement Relating to Wastewater Reclamation Project dated Dec 1, 1992.

**CAWD/PBCSD Reclamation Project  
Operations and Maintenance Budget  
Fiscal Year 2022-23**

ITEM	Acct No.	Actual 2020-21	Estimated Actual 2021-22	2021-22 Budget	Proposed 2022-23 Budget	Comments/Notes
<b>PLANT OPERATING EXPENSES:</b>						
<b>Plant Salaries, Benefits &amp; Overhead</b>						
Plant Superintendent	61100	16,913	19,082	17,385	19,655	
Laboratory Supervisor	61200	32,137	24,653	36,709	25,392	
Laboratory Technicians	61300	60,623	77,316	60,902	79,635	
Plant Operators	61400	157,549	207,590	157,205	213,818	need to add 208 hours of additional hours due to increased RO CIP's based on Trussell's recommendation
Maintenance Supervisor	61450	9,290	19,990	9,907	20,589	
Maintenance Mechanics	61500	31,557	31,859	37,521	32,815	
Plant Engineer	61600	8,921	16,833	30,000	17,338	
Safety Officer	61700	9,680	13,501	8,845	13,906	
Differential PR	62000	16,723	19,006	15,942	19,576	
Payroll Taxes, Benefits & Indirect Overhead	62100	171,787	214,915	187,207	221,362	
<b>TOTAL PLANT SALARIES</b>		<b>515,180</b>	<b>644,744</b>	<b>561,623</b>	<b>664,086</b>	COLA 3.8%
<b>Energy Cost</b>						
Tertiary Operations	63300	195,526	257,961	197,287	278,598	plus/minus due to weather conditions and storage levels
MF/RO Pad	63400	238,578	273,748	248,586	295,648	
Secondary Costs - EQ Basin PD Blower	63500	134,199	143,841	132,241	151,033	
<b>SUBTOTAL</b>		<b>568,302</b>	<b>675,550</b>	<b>578,114</b>	<b>725,278</b>	7.3% greater than 21-22 projected actual
<b>Chemical Costs:</b>						
Low Mag Ferric	64150	8,531	0	0	0	15% increase by vendor and increased frequency to monthly as recommended by Truessell
Clean-in-place chemicals	64200	18,302	22,340	25,000	42,000	73% increase from vendor (current balance includes cost increase on some orders)
Antiscalant	64400	30,577	46,122	25,700	48,000	10% increase by vendor
Phenylarsine oxide	64410	536	0	1,035	1,150	10% increase by vendor
Acetate buffer solution	64420	32	77	288	320	10% increase by vendor
Iodine solution	64430	253	131	288	500	10% increase by vendor
Citric Acid	65160	22,323	48,859	21,600	85,000	340% increase per gallon by vendor. Budget amount also includes fuel surcharge
Sulfuric Acid	65170	24,388	44,357	30,000	40,755	includes slight increase and fuel surcharges
Acetic Acid	65180	624	1,112	920	1,050	10% increase by vendor
Sodium Bisulfite	65200	55,065	48,487	57,700	69,000	This is assuming 12 months of operation
Sodium Hypochlorite	65250	27,373	39,760	35,000	45,000	12% increase expected by vendor- assuming 12 months of operation
Polymer	65400	12,894	8,230	18,000	19,620	9% increase from vendor (4 totes/yr)
Gypsum	65500	0	0	0	0	
Miscellaneous chemicals	65600	249	2,779	1,150	1,150	
Potassium Hydroxide	65700	0	40,861	28,000	29,960	7% increase expected by vendor-only purchased once a year
Potassium iodate solution	65725	285	0	690	800	10% increase by vendor
Potassium iodide	65750	2,014	0	2,558	2,900	10% increase by vendor
Ammonia Hydroxide	65800	55,333	84,639	63,000	89,000	Vendor was unsure of the actual increase for next year.
Phosphoric Acid	65900	0	0	0	0	
PHOS-58	65910	42,832	132,545	67,875	100,000	Cost estimate based on limited usage because of supply issues or alternative coagulants
Enzymes	65920	1,651	0	6,750	7,000	
<b>SUBTOTAL</b>		<b>303,263</b>	<b>520,299</b>	<b>385,554</b>	<b>583,205</b>	
<b>Operating Supplies - Plant</b>						
Repairs & Maintenance	66100	76,427	90,007	78,000	98,000	Valves. Walk thru, check spares
Plant Pumps	66190	24,431	58,840	20,000	30,000	
Laundry	66200	697	728	1,500	1,500	
Lubricants/Packing	66300	49	0	1,000	1,000	
Electrical Supplies	66400	7,736	12,088	12,000	15,000	

**CAWD/PBCSD Reclamation Project  
Operations and Maintenance Budget  
Fiscal Year 2022-23**

ITEM	Acct No.	Actual 2020-21	Estimated Actual 2021-22	2021-22 Budget	Proposed 2022-23 Budget	Comments/Notes	
Laboratory Supplies	66500	38,199	63,117	44,000	46,200	Increase budget 5% to \$30,450 lab general supplies (includes extra analysis for superintendent and 12% increase by Hach.) ,UV lamp \$250(50/50), Isco Portable Sampler (1 new samplers) \$4800/each (all Reclamation cost), IDEXX Quanti Tray-sealer \$4000 (50/50)- If needed. RD	
Paint	66600	0	0	5,000	2,000		
Postage & Office Supplies	67000	808	111	500	1,000		
First Aid Supplies	67100	0	0	200	200		
Janitorial Supplies	67100	0	0	200	0		
Personnel Supplies	67400	302	0	1,000	1,000		
Hand Tools	67600	631	0	1,000	1,500		
General Operating Supplies	67700	65	1,038	2,000	1,000		
Safety	67800	4,417	3,266	2,500	3,275		add shower cost, Mark to send out detail
Training	67900	1,245	0	2,500	2,500		
		155,007	229,196	171,400	204,175		
<b>Membrane Costs</b>							
Microfilter Membrane Modules	67510	103,057	132,700	132,700	160,000		Purchase of one sets of membranes per discussion during Trussell meeting on 4/1/2022 (price increase of 20%)
Annual Cartridge Filter Replacement	66700	4,233	10,426	10,000	12,500		25% increase by vendor
RO Membrane Elements	67500	0	0	0	15,000		
Spare Parts & Outfitting	66750	14,932	8,536	15,000	25,000	Increase due to increasing inventory due to long lead times for critical parts	
		122,222	151,662	157,700	212,500		
<b>Contractual Services:</b>							
Chemical Waste Disposal	68100	0	0	500	500		
Plant Instrumentation	68200	35,065	41,257	38,800	38,800	Eaton UPS service, pressure switches, VFD's, level transducers, PLC,	
Fire Extinguisher Service	68300	0	226	250	500		
Calibration	68400	4,724	2,573	5,382	7,400	\$5366 (50/50), TOC \$4397 (50/50).	
Contract Laboratory Analysis	68500	5,328	12,724	5,400	6,500	RO Quarterly Analysis.	
Contract Lab Staffing		0	0	0	0		
Gypsum Injection System Maintenance/Lease	68600	0	0	0	0		
Contract Painting	68700	0	0	0	0		
						Ignition license, Mainsaver, Interlogx, Trussell, SDSOnline. MF/RO Proprietary software-PLCs etc. H2O Innovations remote monitoring of increased recovery upgrade. Provides portal for analysis to further increase recovery optimization. We are limited by our effluent permit limits. It allows access to our data in a format for Trussell (\$18K/yr), Safety Data Sheets software (\$1K), e-NPDES Reporting Software \$1.6K (50/50), Exceedio \$3.4K (didn't budget for this last year)-ATL LIMS Gold Support \$11,329.74 (50/50) &Parser \$5.7K (50/50),	
System software/IT consulting	68710	19,766	40,430	30,500	30,500		
SAR Equipment Maintenance	68720	0	0	0	0		
Hoist Certification	68730	572	1,349	900	1,000		
Alarm-Tertiary Equipment	68900	211	229	250	250		
Alarm - Chlorine Equipment	68910	0	0	0	0		
Ion Chromatograph- Annual Maintenance	69400	0	0	0	0		
Demolition		0	0	0	0		
Clearlogx rentl		0	0	0	0		
SUBTOTAL		65,666	98,787	81,982	85,450		
Fees & Permits	69110	2,666	3,512	5,500	5,500	ELAP appl. FOA \$3500 (50/50) , TNI 3RD PARTY \$7500 (50/50)RD	
<b>Engineering Fees:</b>							
Consulting	69200	29,217	61,663	63,000	35,000	Trussell Technologies	
Membrane Cleaning Pilot	69250	0	0		20,000	MF/RO membrane autopsy	
Disposal expense	69350	0	0		0		
Demolition expense	69360	0	0	0	0		
SUBTOTAL		29,217	61,663	63,000	55,000		
<b>TOTAL PLANT OPERATING EXPENSES</b>		<b>1,761,523</b>	<b>2,385,413</b>	<b>2,004,873</b>	<b>2,535,194</b>	<b>26.4% increase from 21-22 budget</b> <b>6.2% increase from 21-22 Projected actual</b>	

**CAWD/PBCSD Reclamation Project  
Operations and Maintenance Budget  
Fiscal Year 2022-23**

ITEM	Acct No.	Actual 2020-21	Estimated Actual 2021-22	2021-22 Budget	Proposed 2022-23 Budget	Comments/Notes
<b>PEBBLE BEACH COM SVC DISTRICT</b>						
<b>DISTRIBUTION SYSTEM ADMIN &amp; MAINT:</b>						
<b>Salaries, Benefits &amp; Overhead</b>						
General Manager	71000	0	0	0	0	
Principal Engineer	71100	11,291	10,733	12,000	10,000	Calculated based on the estimated PBCSD Admin staff time for CAWD/PBCSD Reclamation Project related duties. Prior years experience and next year's anticipated activities are used in the prediction of the FY 2022-23 estimated hours. FY 2022/23: COLA estimated at 4.7%; Increase in engineering salaries due to planned addition of an engineering position and increase in hours billed related to capital project management. Other Staffing Notes: In Jul 2021 a senior accountant was promoted to Finance Director, and the Finance & Info Sys Coordinator was promoted to Accountant. While there is a planned addition of Environmental Compliance Coordinator position, it is unknown to what extent the Reclamation will be billed, as such, no budget is included.
Finance Director	71200	810	1,658	1,500	2,000	
Senior Accountant/Accountant	71300	3,137	3,841	5,000	4,500	
Administrative Coordinator	71400	362	606	500	500	
Finance & Info Sys Coordinator	71500	576	0	0	0	
Senior/Associate/Associate Engineers	71600	1,684	6,192	6,000	10,500	
Engineering Intern	71700	522	160	500	500	
Payroll Taxes , Benefits & Overhead	71800	8,930	11,595	12,750	14,000	
<b>SUBTOTAL</b>		<b>27,312</b>	<b>34,785</b>	<b>38,250</b>	<b>42,000</b>	
<b>Other Administrative &amp; General Expenses:</b>						
Insurance - Property & Liability	72100	5,396	6,316	8,500	7,500	Property (\$5,000) / Liability (\$2,500) FY 2022/23 Budgeted based on an 15% increase from actual paid in 2021/22 \$25M Policy limit - FL Reservoir (\$18,500) & Poppy Hills Storage Tank (\$8,500); FY 2022/23 Budget based on an 15% increase from actual paid in 2021/22 In 2020-21 due to substantial increase in insurance costs, reduced coverage from \$10M to \$5M. (The cost of \$10M coverage is \$28,000); FY 2022/23 Budget based on an 15% increase from actual paid in 2021/22
Insurance - Earthquake	72100	20,423	23,071	22,000	26,000	
Insurance - Forest Lake Dam Failure Liability	72100	3,026	3,476	5,000	4,000	
Directors Fees	72200	300	100	500	500	
<b>SUBTOTAL</b>		<b>29,145</b>	<b>32,963</b>	<b>36,000</b>	<b>38,000</b>	2 Directors x 5 meetings/year x \$50 per meeting
<b>Total Administrative &amp; General Expenses</b>		<b>56,457</b>	<b>67,748</b>	<b>74,250</b>	<b>80,000</b>	
<b>Distribution System O.&amp;M. Expenses:</b>						
<b>Salaries, Benefits &amp; Overhead:</b>						
Field Operations Supervisor	73000	4,093	8,694	13,000	10,000	Calculated based on the estimated time to operate and maintain the Forest Lake Reservoir, 8 miles of distribution pipeline, the 2.5M gallon storage tank, and the Viscaino Rd emergency potable water station. FY 2022/23 COLA estimated at 4%; Total of 6 Maintenance staff budgeted (1 Ops Supervisor and 5 Maint Technicians/Workers)
Maintenance Technicians	73100	47,743	45,210	45,000	50,000	
Payroll taxes, Benefits & Overhead	73200	25,918	26,952	29,000	30,000	The payroll taxes, benefits and indirect overhead is calculated at 50% as agreed upon by the project participants.
<b>SUBTOTAL</b>		<b>77,754</b>	<b>80,856</b>	<b>87,000</b>	<b>90,000</b>	
<b>Energy &amp; Utilities:</b>						
Potable Water Pump Station - PG&E	74000	566	696	1,000	1,000	PBCSD pumps will be turned on during emergencies. PBCSD pays a minimum of 1% of the cost per agreement with CalAm. In Sep 2018 purchase of potable water resulted in temporary increase in pump station electricity use. Monthly AT&T / Comcast & Verizon charges for lines between Potable Water Pump Station, Forest Lake, CAWD and PBCSD. Annual maint agmt for Cell Phone Alarm System at Poppy Hills Storage Tank and PB Golf Links 4th Fairway / 18th Green.
SCADA System: DSL ATM / Telemetry Analc	74200	10,098	11,133	12,000	12,000	
Wireless Alarm Sys Chg (Mission)	74300	911	947	1,000	1,000	
Forest Lake Treatment Facility (PG&E)	74400	26,620	28,162	35,000	30,000	Budgeted based on previous experience & anticipated operations (2019/20: Includes addition of a new VFD pump at Forest Lake while Reclam Tank is out of commission due to rehab project); FY 2022/23 decreased budget to reflect actual recent costs plus a small cushion for anticipated rate increases.
Forest Lake Eyewash Station (CalAm)	74500	965	1,096	1,000	1,500	Budgeted based on previous experience. Includes service to eyewash station at the chemical building.
Poppy Hill Booster Pump Station - PG&E	74600	927	1,090	1,500	1,500	Budgeted based on previous experience & anticipated operations.
Cathodic Protection	74700	1,039	985	1,500	1,000	2 Locations: Forest Lake Rd & Whitman Ln; Budgeted based on previous experience & anticipated operations
<b>SUBTOTAL</b>		<b>41,126</b>	<b>44,109</b>	<b>53,000</b>	<b>48,000</b>	
<b>Source Water / Dry Weather Diversion</b>						
Reclamation Source Water	77600	3,456	1,175	3,000	3,000	Materials/Supplies for Reclam Wells (MPCC #8 / MPCC #9 / Bird Rock); FY 2022/23 Budgeted \$1,000 per location.

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4th Fairway Dry Weather Diversion Facility	77700	5,091	2,613	4,000	2,000	Materials / Supplies for dry-weather diversion facilities at the PB Golf Links 4th Fairway & 18th Green (came on-line in 2021/22); FY 2022/23 Budgeted \$1,000 per location.
Remote Flow Monitoring	77900	0	2,988	3,000	4,000	FY 2022/23: Neptune Meter at Bird Rock Well / Remote Reporting (Cloud-Based) Annual Service (\$2,750); Badger Meter annual cellular svc chg (\$250) for the other 2 well sites, and 2 dry-weather diversion sites. Bird Rock Well Level / MPCC #8 Well Level (In-Situ) \$480 (2x\$120/site)
Water Treatment Cost	77800	64,238	85,000	90,000	115,000	Cost to provide primary and secondary treatment at CAWD Treatment Plant. Alternative Source Water Locations @ MPCC Well No 8 / 9 & Bird Rock; Pebble Beach Golf Links 4th Fairway / 18th Green (came on line in 2021/22); 18th Fairway
<b>SUBTOTAL</b>		<b>72,784</b>	<b>91,776</b>	<b>100,000</b>	<b>124,000</b>	
<b>Distribution System - Other O.&amp;M. Expenses:</b>						
Other professional services	75200	539	1,178	1,000	1,500	Mgmt Comm Mtg Attendance & Minutes (Nov / Feb / May / Aug); FY 2022/23 Increase in Budget primarily due to increase in hourly rates billed by Paxton & Associates
Permits	75300	20,861	24,055	30,000	30,000	1. SWRCB-General Permit (\$5,000) 2. DSOD-Forest Lake Operating Permit (\$24,000) 3. MBUAPCD-Viscaino Generator (\$400) / Environ Health-Viscaino Fuel Tank Permit (\$600) (PBCSD: 2/5 & CalAm: 3/5)
Fuel	75500	2,077	3,616	2,500	4,000	FY 2022/23: 1) Estimated fuel use for vehicles billed in May and 2) Diesel fuel for Viscaino Rd. pump station UGST (Cal Am 3/5; Reclam Prj 2/5); UGST diesel fuel last purchased in Jan 2022
Training & Tuitions	75600	2,099	2,000	5,000	2,500	Maint & safety programs (regist/materials/travel/misc exp. Memberships & Certif) Includes Water Awareness Committee Membership (\$1K); Waterreuse Membership & training for maint employees (\$1.5K)
SCADA System software/IT consulting	75800	2,427	3,000	3,000	7,000	Maintenance, diagnostic & consulting svcs related to GIS Development (Wallace Group); FY 2022/23 Plan to update PBCSD/Info Sys to add Reclamation distribution lines layer.
SCADA Platform Support Svcs Subscription	75900	0	4,378	10,000	7,000	Inductive Ignition Support Services Subscription (25% Reclam = \$1.5K); Annual SCADA Updates & Programming Costs (E2 Consulting / Frisch Engineering) - Assignment #50 (\$5.5K)
Consulting Services	76000	38,061	71,010	75,000	80,000	Misc General Consulting (\$5K); Annual DSOD Report (\$20K); Forest Lake Annual Monument Survey (\$5K). FY 2022/23: Addition of CAWD condition assessment 3rd party review (\$50K)
Reclamation Line Distribution Sys	76300	4,226	2,966	10,000	10,000	Meter calibration & Other General Repairs and Maintenance (R&M); Materials & Supplies
Viscaino Rd/Poppy Hills Pump Station	76400	2,163	2,337	4,000	4,000	Prev Maint / Annual load bank test / Underground tank leak detect & general R&M
Call Out Mileage Expense	76500	1,414	1,453	2,000	2,000	Quarterly Reimbursement to Maintenance Crew for vehicle mileage paid for work performed after hours, weekends & holidays
Forest Lake Reservoir - R & M	76600	18,165	4,785	25,000	25,000	General / Emergency repairs to Forest Lake
Poppy Hills Storage Tank (2.5 million gallon)	76700	2,308	1,582	1,500	2,000	Includes Cathodic Protect Inspection (every 3 yrs) / Tank (15-Point) Inspection (every 3 yrs) / Annual Cleaning Svc (done Feb/Mar) and Misc R&M
Rescue & Safety Supplies & Equipment	76800	0	0	1,000	0	
Forest Lake Chemicals	76900	30,458	31,835	40,000	40,000	Sulfuric Acid / Hypochlorite Tablets. Actual costs will be based on water usage. Chemicals needed based on demand, wet weather decreases demand which reduces the chemical purchases.
SCADA system equipment	77000	43	0	1,000	0	
Forest Lake Reservoir - Materials & Supplies	77100	6,152	20,055	25,000	23,000	Supplies & Equip: Deployable Probe, Water Sampling, Piezometer, Misc other (\$6K); Gopher Contrl (\$2K) / Insecticides (\$15K)
Forest Lake reservoir equipment	77200	1,267	0	0	0	
Forest Lake reservoir ops service	77300	15,022	0	0	0	
<b>SUBTOTAL</b>		<b>147,283</b>	<b>174,250</b>	<b>236,000</b>	<b>238,000</b>	
<b>Professional Fees - PBCSD:</b>						
Remote Flow Monitoring	77900	0	0	0	0	
<b>SUBTOTAL</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	
<b>Total Distribution System O.&amp;M. Expenses</b>		<b>338,947</b>	<b>390,991</b>	<b>476,000</b>	<b>500,000</b>	
<b>TOTAL PBCSD EXPENSES.....</b>		<b>395,403</b>	<b>458,739</b>	<b>550,250</b>	<b>580,000</b>	<b>5.4% increase from 21-22 budget</b> <b>26.4% increase from 21-22 Projected actual</b>



**CAWD/PBCSD Reclamation Project  
Operations and Maintenance Budget  
Fiscal Year 2022-23**

ITEM	Acct No.	Actual 2020-21	Estimated Actual 2021-22	2021-22 Budget	Proposed 2022-23 Budget	Comments/Notes
<b>CAWD ADMIN &amp; GENERAL EXPENSES</b>						
<b>ADMINISTRATIVE SALARIES</b>						
	No.					
General Manager	81000	2,065	1,150	1,942	1,194	
Project Accountant	81200	9,822	12,724	10,046	13,207	
Engineering Associate	81100	0	0	0	0	
Admin. Services Coordinator/Scanner	81400	10,289	13,408	10,032	13,918	
Payroll Taxes, Benefits & Overhead	82100	10,998	13,641	11,010	14,160	
<b>SUBTOTAL</b>		<b>33,174</b>	<b>40,924</b>	<b>33,030</b>	<b>42,479</b>	COLA 3.8%
<b>Administrative &amp; General Expenses:</b>						
Office Supplies & Postage	84000	346	289	0	250	
Audit & Consulting Fees	84100	18,450	18,450	19,050	16,850	
Employee training	84200	0	0	0	0	
Directors Fees	85000	750	1,050	1,050	1,050	
Legal Notices	89400	0	0	0	0	
Legal Fees	89400	533	660	1,250	750	
Insurance Expense	89500	36,369	45,836	40,006	50,419	CSRMA recommends 10-15% increase in insurance
Consulting	89600	0	0			
<b>SUBTOTAL</b>		<b>56,449</b>	<b>66,284</b>	<b>61,356</b>	<b>69,319</b>	
<b>TOTAL CAWD EXPENSES</b>		<b>89,623</b>	<b>107,208</b>	<b>94,386</b>	<b>111,798</b>	18.4% increase from 21-22 budget 4.2% increase from 21-22 Projected actual
<b>MONTEREY PENINSULA WATER MANAGEMENT DISTRICT</b>						
<b>ADMINISTRATIVE EXPENSES:</b>						
<b>Administrative Salaries, Benefits &amp; Overhead</b>						
General Manager	91000	7,784	6,000	6,000	6,300	based on 10 hours
Administrative Services Manager	91200	8,307	8,000	8,000	8,300	based on 35 hours
Accountant	91300	5,022	4,000	4,000	4,200	based on 65 hours
IT Manager	91500	7,500	7,000	7,000	7,200	based on 40 hours
Payroll Taxes, Benefits & Overhead	92100					
<b>SUBTOTAL</b>		<b>28,613</b>	<b>25,000</b>	<b>25,000</b>	<b>26,000</b>	
<b>Administrative &amp; General Expenses</b>						
CAL-Am Water Meter Service Charge	94300	24,116	24,527	24,160	30,720	8" meter (assumes 20% increase based on actual billings)
Legal Fees	99400	77	0	0	500	
Office Expense	99410	3,912	0	0	4,300	Software annual maintenance fee (financial & billing combined software)
<b>SUBTOTAL</b>		<b>28,105</b>	<b>24,527</b>	<b>24,160</b>	<b>35,520</b>	
<b>TOTAL MPWMD EXPENSES</b>		<b>56,718</b>	<b>49,527</b>	<b>49,160</b>	<b>61,520</b>	25.1% increase from 21-22 budget 24.2% increase from 21-22 Projected actual
<b>PBCo / IRWUG Representative</b>						
Payroll Taxes, Benefits & Overhead	79990	15,763	17,925	17,925	18,642	
R&D Water Sources	99965	0	0	0	0	
<b>SUB TOTAL</b>		<b>2,353,905</b>	<b>3,054,392</b>	<b>2,752,444</b>	<b>3,344,438</b>	4% increase
<b>POTABLE WATER COSTS</b>	99601	7,013	3,957	6,750	6,750	
<b>TOTAL OPERATING EXPENSES</b>		<b>2,360,918</b>	<b>3,058,349</b>	<b>2,759,194</b>	<b>3,351,188</b>	21.4% increase from 21-22 budget 9.5% increase from 21-22 Projected actual

**CAWD/PBCSD Reclamation Project**  
**Monthly Budget Projections**  
**2022-23**

		ACCT No.	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	ANNUAL BUDGET 2022-23
			14.98%	14.15%	12.91%	10.43%	3.82%	1.65%	0.62%	1.96%	2.17%	7.54%	13.84%	15.91%	
5 yr avg															
Water Sales		52000	1,120,296	1,058,487	965,773	780,344	285,869	123,619	46,357	146,797	162,250	564,011	1,035,308	1,189,832	7,478,944
Less MPWMD Fees		2225	(10,486)	(9,907)	(9,039)	(7,304)	(2,676)	(1,157)	(434)	(1,374)	(1,519)	(5,279)	(9,690)	(11,136)	(70,000)
			1,109,811	1,048,580	956,734	773,041	283,193	122,462	45,923	145,423	160,731	558,732	1,025,618	1,178,696	7,408,944
Plant Superintendent		61100	1,512	2,268	1,512	1,512	1,512	1,512	2,268	1,512	1,512	1,512	1,512	1,512	19,655
Laboratory Supervisor		61200	1,953	2,930	1,953	1,953	1,953	1,953	2,930	1,953	1,953	1,953	1,953	1,953	25,392
Laboratory Technicians		61300	6,126	9,189	6,126	6,126	6,126	6,126	9,189	6,126	6,126	6,126	6,126	6,126	79,635
Plant Operators		61400	16,448	24,671	16,448	16,448	16,448	16,448	24,671	16,448	16,448	16,448	16,448	16,448	213,818
Maint Supervisor		61450	1,584	2,376	1,584	1,584	1,584	1,584	2,376	1,584	1,584	1,584	1,584	1,584	20,589
Plant Mechanics		61500	2,524	3,786	2,524	2,524	2,524	2,524	3,786	2,524	2,524	2,524	2,524	2,524	32,815
Safety Officer			1,334	2,000	1,334	1,334	1,334	1,334	2,000	1,334	1,334	1,334	1,334	1,334	17,338
Plant Engineer			1,070	1,605	1,070	1,070	1,070	1,070	1,605	1,070	1,070	1,070	1,070	1,070	13,906
Differential		62000	1,506	2,259	1,506	1,506	1,506	1,506	2,259	1,506	1,506	1,506	1,506	1,506	19,576
Payroll Taxes & Benefits & OH		62100	17,028	25,542	17,028	17,028	17,028	17,028	25,542	17,028	17,028	17,028	17,028	17,028	221,362
			51,084	76,625	51,084	51,084	51,084	51,084	76,625	51,084	51,084	51,084	51,084	51,084	664,086
Tertiary Treatment		63300	41,732	39,430	35,976	29,069	10,649	4,605	1,727	5,468	6,044	21,010	38,566	44,322	278,598
MFRO Electrical		63400	44,286	41,843	38,178	30,848	11,301	4,887	1,833	5,803	6,414	22,296	40,926	47,035	295,648
Secondary Costs - EQ Basin PD Blw		63500	22,624	21,376	19,503	15,759	5,773	2,496	936	2,964	3,277	11,390	20,907	24,028	151,033
			108,642	102,648	93,657	75,675	27,722	11,988	4,496	14,236	15,734	54,696	100,400	115,385	725,278
Low Mag Ferric		64150	0	0	0	0	0	0	0	0	0	0	0	0	0
Clean-in-place chemicals		64200	6,291	5,944	5,424	4,382	1,605	694	260	824	911	3,167	5,814	6,682	42,000
Sodium hydroxide		64300	0	0	0	0	0	0	0	0	0	0	0	0	0
Antiscalant		64400	7,190	6,793	6,198	5,008	1,835	793	298	942	1,041	3,620	6,645	7,636	48,000
Phenylarsine oxide		64410	172	163	149	120	44	19	7	23	25	87	159	183	1,150
Acetate buffer solution		64420	48	45	41	33	12	5	2	6	7	24	44	51	320
Iodine solution		64430	75	71	65	52	19	8	3	10	11	38	69	80	500
Chlorine		65100	0	0	0	0	0	0	0	0	0	0	0	0	0
Citric Acid		65160	12,732	12,030	10,976	8,869	3,249	1,405	527	1,668	1,844	6,410	11,767	13,523	85,000
Sulfuric Acid		65170	6,105	5,768	5,263	4,252	1,558	674	253	800	884	3,073	5,642	6,484	40,755
Acetic Acid		65180	157	149	136	110	40	17	7	21	23	79	145	167	1,050

**CAWD/PBCSD Reclamation Project**  
**Monthly Budget Projections**  
2022-23

	<b>ACCT No.</b>	<b>Jul-22</b>	<b>Aug-22</b>	<b>Sep-22</b>	<b>Oct-22</b>	<b>Nov-22</b>	<b>Dec-22</b>	<b>Jan-23</b>	<b>Feb-23</b>	<b>Mar-23</b>	<b>Apr-23</b>	<b>May-23</b>	<b>Jun-23</b>	<b>ANNUAL BUDGET 2022-23</b>
Sodium Bisulfite	65200	10,336	9,765	8,910	7,199	2,637	1,140	428	1,354	1,497	5,204	9,552	10,977	69,000
Sodium Hypochlorite	65250	6,741	6,369	5,811	4,695	1,720	744	279	883	976	3,394	6,229	7,159	45,000
Polymer	65400	2,939	2,777	2,534	2,047	750	324	122	385	426	1,480	2,716	3,121	19,620
Gypsum	65500	0	0	0	0	0	0	0	0	0	0	0	0	0
Miscellaneous chemicals	65600	172	163	149	120	44	19	7	23	25	87	159	183	1,150
Potassium Hydroxide	65700	4,488	4,240	3,869	3,126	1,145	495	186	588	650	2,259	4,147	4,766	29,960
Potassium iodate solution	65725	120	113	103	83	31	13	5	16	17	60	111	127	800
Potassium iodide	65750	434	410	374	303	111	48	18	57	63	219	401	461	2,900
Ammonia Hydroxide	65800	13,332	12,596	11,493	9,286	3,402	1,471	552	1,747	1,931	6,712	12,320	14,159	89,000
Phosphoric Acid	65900	0	0	0	0	0	0	0	0	0	0	0	0	0
PHOS-58	65910	14,979	14,153	12,913	10,434	3,822	1,653	620	1,963	2,169	7,541	13,843	15,909	100,000
Enzymes	65920	1,049	991	904	730	268	116	43	137	152	528	969	1,114	7,000
		<b>87,360</b>	<b>82,540</b>	<b>75,311</b>	<b>60,851</b>	<b>22,292</b>	<b>9,640</b>	<b>3,615</b>	<b>11,447</b>	<b>12,652</b>	<b>43,981</b>	<b>80,733</b>	<b>92,783</b>	<b>583,205</b>
Repairs & Maintenance	66100	14,680	13,870	12,655	10,225	3,746	1,620	607	1,924	2,126	7,390	13,566	15,591	98,000
Plant Pumps	66190	4,494	4,246	3,874	3,130	1,147	496	186	589	651	2,262	4,153	4,773	30,000
Laundry	66200	225	212	194	157	57	25	9	29	33	113	208	239	1,500
Lubricants\Packing	66300	150	142	129	104	38	17	6	20	22	75	138	159	1,000
Electrical Supplies	66400	2,247	2,123	1,937	1,565	573	248	93	294	325	1,131	2,076	2,386	15,000
Laboratory Supplies	66500	6,920	6,539	5,966	4,820	1,766	764	286	907	1,002	3,484	6,395	7,350	46,200
Paint	66600	300	283	258	209	76	33	12	39	43	151	277	318	2,000
Postage	67000	150	142	129	104	38	17	6	20	22	75	138	159	1,000
First Aid Supplies	67100	30	28	26	21	8	3	1	4	4	15	28	32	200
Janitorial Supplies	67100	0	0	0	0	0	0	0	0	0	0	0	0	0
Tertiary Pump Alarm	67300	0	0	0	0	0	0	0	0	0	0	0	0	0
Personnel Supplies	67400	150	142	129	104	38	17	6	20	22	75	138	159	1,000
Hand Tools	67600	225	212	194	157	57	25	9	29	33	113	208	239	1,500
Operating Supplies	67700	150	142	129	104	38	17	6	20	22	75	138	159	1,000
Safety	67800	491	464	423	342	125	54	20	64	71	247	453	521	3,275
Training	67900	374	354	323	261	96	41	15	49	54	189	346	398	2,500
		<b>30,584</b>	<b>28,897</b>	<b>26,366</b>	<b>21,303</b>	<b>7,804</b>	<b>3,375</b>	<b>1,266</b>	<b>4,008</b>	<b>4,429</b>	<b>15,397</b>	<b>28,264</b>	<b>32,482</b>	<b>204,175</b>
Microfilter Membrane Modules	67510	23,967	22,645	20,661	16,694	6,116	2,645	992	3,140	3,471	12,066	22,149	25,455	160,000
Annual Cartridge Filter Replacement	66700	1,872	1,769	1,614	1,304	478	207	77	245	271	943	1,730	1,989	12,500
RO Membrane Elements	67500	2,247	2,123	1,937	1,565	573	248	93	294	325	1,131	2,076	2,386	15,000
Spare Parts & Outfitting	66750	3,745	3,538	3,228	2,608	956	413	155	491	542	1,885	3,461	3,977	25,000
		<b>31,831</b>	<b>30,075</b>	<b>27,441</b>	<b>22,172</b>	<b>8,122</b>	<b>3,512</b>	<b>1,317</b>	<b>4,171</b>	<b>4,610</b>	<b>16,025</b>	<b>29,416</b>	<b>33,807</b>	<b>212,500</b>

**CAWD/PBCSD Reclamation Project**  
**Monthly Budget Projections**  
2022-23

	<b>ACCT No.</b>	<b>Jul-22</b>	<b>Aug-22</b>	<b>Sep-22</b>	<b>Oct-22</b>	<b>Nov-22</b>	<b>Dec-22</b>	<b>Jan-23</b>	<b>Feb-23</b>	<b>Mar-23</b>	<b>Apr-23</b>	<b>May-23</b>	<b>Jun-23</b>	<b>ANNUAL BUDGET 2022-23</b>
Chemical Waste Disposal		75	71	65	52	19	8	3	10	11	38	69	80	500
Plant Instrumentation	68200	5,812	5,491	5,010	4,048	1,483	641	240	762	842	2,926	5,371	6,173	38,800
Fire Extinguisher Service	68300	75	71	65	52	19	8	3	10	11	38	69	80	500
Calibration	68400	1,108	1,047	956	772	283	122	46	145	161	558	1,024	1,177	7,400
Contract Laboratory Analysis	68500	974	920	839	678	248	107	40	128	141	490	900	1,034	6,500
Gypsum Injection System Maintenance	68600	0	0	0	0	0	0	0	0	0	0	0	0	0
Contract Painting	68700	0	0	0	0	0	0	0	0	0	0	0	0	0
System software/IT consulting	68710	0	0	0	0	0	0	0	0	0	0	0	0	0
SAR Equipment Maintenance	68720	4,569	4,317	3,939	3,182	1,166	504	189	599	662	2,300	4,222	4,852	30,500
Hoist Certification	68730	0	0	0	0	0	0	0	0	0	0	0	0	0
Alarm - Tertiary	68900	150	142	129	104	38	17	6	20	22	75	138	159	1,000
Alarm - Chlorine	68910	0	0	0	0	0	0	0	0	0	0	0	0	0
Equipment Rent - Ion Chromatograph	69400	37	35	32	26	10	4	2	5	5	19	35	40	250
Demolition		0	0	0	0	0	0	0	0	0	0	0	0	0
Clerlogx rental		0	0	0	0	0	0	0	0	0	0	0	0	0
		12,725	12,023	10,970	8,864	3,247	1,404	527	1,667	1,843	6,406	11,760	13,515	85,450
<b>Fees &amp; Permits (MBUAPCD)</b>	69100	824	778	710	574	210	91	34	108	119	415	761	875	5,500
<b>Engineering Fees</b>														
Consulting	69200	5,243	4,954	4,520	3,652	1,338	579	217	687	759	2,639	4,845	5,568	35,000
Membrane Cleaning Pilot	69250	2,996	2,831	2,583	2,087	764	331	124	393	434	1,508	2,769	3,182	20,000
Disposal expense	69350	0	0	0	0	0	0	0	0	0	0	0	0	0
		8,239	7,784	7,102	5,739	2,102	909	341	1,080	1,193	4,148	7,614	8,750	55,000
		331,288	341,371	292,639	246,261	122,584	82,003	88,220	87,800	91,665	192,152	310,031	348,680	2,535,194
<b>General Manager</b>	71000	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Principal/Assistant Engineer</b>	71100	1,498	1,415	1,291	1,043	382	165	62	196	217	754	1,384	1,591	10,000
<b>Deputy General Manager/CFO</b>	71200	300	283	258	209	76	33	12	39	43	151	277	318	2,000
<b>Senior Accountant</b>	71300	674	637	581	470	172	74	28	88	98	339	623	716	4,500
<b>Administrative Assistant</b>	71400	75	71	65	52	19	8	3	10	11	38	69	80	500
<b>Finance &amp; Info Sys Coordinator</b>	71500	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Associate Engineers</b>	71600	1,573	1,486	1,356	1,096	401	174	65	206	228	792	1,454	1,670	10,500
<b>Engineering Intern</b>	71700	75	71	65	52	19	8	3	10	11	38	69	80	500
<b>PR Taxes, Benefits &amp; Overhead</b>	71800	2,097	1,981	1,808	1,461	535	231	87	275	304	1,056	1,938	2,227	14,000

**CAWD/PBCSD Reclamation Project**  
**Monthly Budget Projections**  
2022-23

	ACCT No.	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	ANNUAL BUDGET 2022-23
		6,291	5,944	5,424	4,382	1,605	694	260	824	911	3,167	5,814	6,682	42,000
Insurance - Property & Liability	72100	1,123	1,061	968	783	287	124	46	147	163	566	1,038	1,193	7,500
Insurance - Earthquake	72100	3,895	3,680	3,357	2,713	994	430	161	510	564	1,961	3,599	4,136	26,000
Insurance - FL Dam Failure Liability	72100	599	566	517	417	153	66	25	79	87	302	554	636	4,000
Directors Fees	72200	75	71	65	52	19	8	3	10	11	38	69	80	500
		5,617	5,307	4,842	3,913	1,433	620	232	736	814	2,828	5,191	5,966	38,000
Salaries, Benefits & Overhead:														
Field Maintenance Supervisor	73000	1,498	1,415	1,291	1,043	382	165	62	196	217	754	1,384	1,591	10,000
Maintenance Technicians	73100	7,490	7,076	6,457	5,217	1,911	826	310	981	1,085	3,771	6,921	7,955	50,000
PR Taxes, Benefits & O.H.	73200	4,494	4,246	3,874	3,130	1,147	496	186	589	651	2,262	4,153	4,773	30,000
		13,481	12,738	11,622	9,390	3,440	1,488	558	1,767	1,952	6,787	12,459	14,318	90,000
Potable Water Pump Station - PG&E	74000	150	142	129	104	38	17	6	20	22	75	138	159	1,000
SCADA System: DSL ATM/Telemetry	74200	1,798	1,698	1,550	1,252	459	198	74	236	260	905	1,661	1,909	12,000
Wireless Alarm Sys Chg (Mission)	74300	150	142	129	104	38	17	6	20	22	75	138	159	1,000
Forest Lake Treatment Facility (PG&E)	74400	4,494	4,246	3,874	3,130	1,147	496	186	589	651	2,262	4,153	4,773	30,000
Forest Lake Eyewash Station (CalAm)	74500	225	212	194	157	57	25	9	29	33	113	208	239	1,500
Poppy Hill Booster Pump Station - PG&E	74600	225	212	194	157	57	25	9	29	33	113	208	239	1,500
Cathodic Protection	74700	150	142	129	104	38	17	6	20	22	75	138	159	1,000
		7,190	6,793	6,198	5,008	1,835	793	298	942	1,041	3,620	6,645	7,636	48,000
Reclamation Source Water	77600	449	425	387	313	115	50	19	59	65	226	415	477	3,000
4th Fairway Dry Weather Diversion Facility	77700	300	283	258	209	76	33	12	39	43	151	277	318	2,000
Remote Flow Monitoring	77900	599	566	517	417	153	66	25	79	87	302	554	636	4,000
Water Treatment Cost	77800	17,226	16,276	14,850	11,999	4,396	1,901	713	2,257	2,495	8,673	15,919	18,295	115,000
		18,574	17,550	16,012	12,938	4,740	2,050	769	2,434	2,690	9,351	17,165	19,727	124,000
Other professional services	75200	225	212	194	157	57	25	9	29	33	113	208	239	1,500
Permits	75300	4,494	4,246	3,874	3,130	1,147	496	186	589	651	2,262	4,153	4,773	30,000
Fuel	75500	599	566	517	417	153	66	25	79	87	302	554	636	4,000
Training & Tuitions	75600	374	354	323	261	96	41	15	49	54	189	346	398	2,500
SCADA System software/IT consulting	75800	1,049	991	904	730	268	116	43	137	152	528	969	1,114	7,000
Consulting Services		11,983	11,322	10,331	8,347	3,058	1,322	496	1,570	1,736	6,033	11,074	12,727	80,000
Reclamation Line Distribution System	76300	1,498	1,415	1,291	1,043	382	165	62	196	217	754	1,384	1,591	10,000
Viscaino Rd/Poppy Hills Pump Station	76400	599	566	517	417	153	66	25	79	87	302	554	636	4,000

**CAWD/PBCSD Reclamation Project**  
**Monthly Budget Projections**  
**2022-23**

	<b>ACCT No.</b>	<b>Jul-22</b>	<b>Aug-22</b>	<b>Sep-22</b>	<b>Oct-22</b>	<b>Nov-22</b>	<b>Dec-22</b>	<b>Jan-23</b>	<b>Feb-23</b>	<b>Mar-23</b>	<b>Apr-23</b>	<b>May-23</b>	<b>Jun-23</b>	<b>ANNUAL BUDGET 2022-23</b>
Call Out Mileage Expense	76500	300	283	258	209	76	33	12	39	43	151	277	318	2,000
Forest Lake Reservoir - R & M	76600	3,745	3,538	3,228	2,608	956	413	155	491	542	1,885	3,461	3,977	25,000
Poppy Hills Storage Tank (2.5 m	76700	300	283	258	209	76	33	12	39	43	151	277	318	2,000
Rescue & Safety Supplies & Equ	76800	0	0	0	0	0	0	0	0	0	0	0	0	0
Forest Lake Chemicals	76900	5,992	5,661	5,165	4,174	1,529	661	248	785	868	3,017	5,537	6,364	40,000
SCADA system equipment	77000	0	0	0	0	0	0	0	0	0	0	0	0	0
Forest Lake Reservoir - Material	77100	3,445	3,255	2,970	2,400	879	380	143	451	499	1,735	3,184	3,659	23,000
		<b>35,651</b>	<b>33,684</b>	<b>30,733</b>	<b>24,833</b>	<b>9,097</b>	<b>3,934</b>	<b>1,475</b>	<b>4,671</b>	<b>5,163</b>	<b>17,948</b>	<b>32,946</b>	<b>37,864</b>	<b>238,000</b>
Consulting	76000	0	0	0	0	0	0	0	0	0	0	0	0	0
Remote Flow Monitoring	77900	0	0	0	0	0	0	0	0	0	0	0	0	0
		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
		<b>68,231</b>	<b>64,466</b>	<b>58,820</b>	<b>47,526</b>	<b>17,411</b>	<b>7,529</b>	<b>2,823</b>	<b>8,941</b>	<b>9,882</b>	<b>34,351</b>	<b>63,055</b>	<b>72,466</b>	<b>580,000</b>
General Manager	81000	92	138	92	92	92	92	138	92	92	92	92	92	1,194
Project Accountant	81200	1,016	1,524	1,016	1,016	1,016	1,016	1,524	1,016	1,016	1,016	1,016	1,016	13,207
Engineering Assistant	81100	0	0	0	0	0	0	0	0	0	0	0	0	0
Secretary/Finance Tech.	81400	1,071	1,606	1,071	1,071	1,071	1,071	1,606	1,071	1,071	1,071	1,071	1,071	13,918
Payroll Taxes & Benefits	82100	1,089	1,634	1,089	1,089	1,089	1,089	1,634	1,089	1,089	1,089	1,089	1,089	14,160
Indirect Overhead	82100	0	0	0	0	0	0	0	0	0	0	0	0	0
		<b>3,268</b>	<b>4,901</b>	<b>3,268</b>	<b>3,268</b>	<b>3,268</b>	<b>3,268</b>	<b>4,901</b>	<b>3,268</b>	<b>3,268</b>	<b>3,268</b>	<b>3,268</b>	<b>3,268</b>	<b>42,479</b>
Office Supplies & Postage	84000	37	35	32	26	10	4	2	5	5	19	35	40	250
Audit & Consulting Fees	84100	0	4,212	4,212	4,213	4,213	0	0	0	0	0	0	0	16,850
Employee Training	84200	0	0	0	0	0	0	0	0	0	0	0	0	0
Directors Fees	85000	157	149	136	110	40	17	7	21	23	79	145	167	1,050
Legal Notices	89400	0	0	0	0	0	0	0	0	0	0	0	0	0
Legal Fees	89400	112	106	97	78	29	12	5	15	16	57	104	119	750
Insurance Expense	89500	7,552	7,136	6,511	5,261	1,927	833	313	990	1,094	3,802	6,980	8,021	50,419
		<b>7,860</b>	<b>11,638</b>	<b>10,987</b>	<b>9,688</b>	<b>6,219</b>	<b>867</b>	<b>325</b>	<b>1,030</b>	<b>1,138</b>	<b>3,957</b>	<b>7,263</b>	<b>8,347</b>	<b>69,319</b>
		<b>11,127</b>	<b>16,539</b>	<b>14,255</b>	<b>12,955</b>	<b>9,486</b>	<b>4,135</b>	<b>5,227</b>	<b>4,297</b>	<b>4,406</b>	<b>7,224</b>	<b>10,531</b>	<b>11,615</b>	<b>111,798</b>
General Manager	91000	944	892	814	657	241	104	39	124	137	475	872	1,002	6,300

**CAWD/PBCSD Reclamation Project**  
**Monthly Budget Projections**  
**2022-23**

	<b>ACCT No.</b>	<b>Jul-22</b>	<b>Aug-22</b>	<b>Sep-22</b>	<b>Oct-22</b>	<b>Nov-22</b>	<b>Dec-22</b>	<b>Jan-23</b>	<b>Feb-23</b>	<b>Mar-23</b>	<b>Apr-23</b>	<b>May-23</b>	<b>Jun-23</b>	<b>ANNUAL BUDGET 2022-23</b>
Admin Services Manager	91200	1,243	1,175	1,072	866	317	137	51	163	180	626	1,149	1,320	8,300
Accountant	91300	629	594	542	438	161	69	26	82	91	317	581	668	4,200
Chief Tech Officer	91500	1,079	1,019	930	751	275	119	45	141	156	543	997	1,145	7,200
Payroll Taxes & Benefits& O.H.	92100	0	0	0	0	0	0	0	0	0	0	0	0	0
		3,895	3,680	3,357	2,713	994	430	161	510	564	1,961	3,599	4,136	26,000
CAL-Am Water Meter Svc. Chg.	94300	4,602	4,348	3,967	3,205	1,174	508	190	603	666	2,317	4,253	4,887	30,720
Legal Fees	99400	75	71	65	52	19	8	3	10	11	38	69	80	500
Software Maint Fees	99410	644	609	555	449	164	71	27	84	93	324	595	684	4,300
		8,571	8,098	7,389	5,970	2,187	946	355	1,123	1,241	4,315	7,921	9,103	61,520
PBCo / IRWUG Representative		4,661	4,661	4,661	4,661	4,661	4,661	4,661	4,661	4,661	4,661	4,661	4,661	55,926
		423,878	435,135	377,764	317,373	156,328	99,273	101,285	106,822	111,854	242,703	396,199	446,525	3,344,438
		685,933	613,445	578,970	455,668	126,865	23,189	(55,362)	38,602	48,877	316,029	629,420	732,171	4,064,506
POTABLE WATER COSTS	99601	1,011	955	872	704	258	112	42	132	146	509	934	1,074	6,750
		684,922	612,490	578,098	454,963	126,607	23,078	(55,404)	38,469	48,730	315,520	628,485	731,097	4,057,756
Interest Income - Reserve Funds	551	1,498	1,415	1,291	1,043	382	165	62	196	217	754	1,384	1,591	10,000
Interest Income- Union Bank	553	0	0	0	0	0	0	0	0	0	0	0	0	0
Interest Income - Well Fargo/Phase I	554	0	0	0	0	0	0	0	0	0	0	0	0	0
Water Entitlements	555	0	0	0	0	0	0	0	0	0	0	0	0	0
Gain/(loss) on Mkt Value of Securitie	560	2,247	2,123	1,937	1,565	573	248	93	294	325	1,131	2,076	2,386	15,000
Interest Income-County	550	2	2	2	2	1	0	0	0	0	1	2	2	15
Interest Income - Bank of Amer.	549	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Income	561	0	0	0	0	0	0	0	0	0	0	0	0	0
Bank Charges - BoA	571	(5)	(5)	(5)	(4)	(1)	(1)	(0)	(1)	(1)	(3)	(5)	(6)	(35)
Bond Carrying Costs	573	(2,996)	(2,831)	(2,583)	(2,087)	(764)	(331)	(124)	(393)	(434)	(1,508)	(2,769)	(3,182)	(20,000)
O&M Reserve Funds	10.1	0	0	0	0	0	0	0	0	0	0	0	0	0
Contribution to Capital Repl. Fund	11.1	0	0	0	0	0	0	0	0	0	0	0	0	0

**CAWD/PBCSD Reclamation Project**  
**Monthly Budget Projections**  
**2022-23**

	<b>ACCT No.</b>	<b>Jul-22</b>	<b>Aug-22</b>	<b>Sep-22</b>	<b>Oct-22</b>	<b>Nov-22</b>	<b>Dec-22</b>	<b>Jan-23</b>	<b>Feb-23</b>	<b>Mar-23</b>	<b>Apr-23</b>	<b>May-23</b>	<b>Jun-23</b>	<b>ANNUAL BUDGET 2022-23</b>
Subtotal		746	705	643	520	190	82	31	98	108	376	689	792	4,980
Interest Income - Construction Fd.	25100	0	0	0	0	0	0	0	0	0	0	0	0	0
Interest Income - Bond Fund	25101	0	0	0	0	0	0	0	0	0	0	0	0	0
Interest Income - W.F.-Construct.	25104	0	0	0	0	0	0	0	0	0	0	0	0	0
Loss on Disposal	26300	0	0	0	0	0	0	0	0	0	0	0	0	0
Interest Expense - COP's	99958	(1,947)	(1,840)	(1,679)	(1,356)	(497)	(215)	(81)	(255)	(282)	(980)	(1,800)	(2,068)	(13,000)
Principal Payment - COP's	26450	(389,463)	(367,975)	(335,744)	(271,281)	(99,380)	(42,975)	(16,116)	(51,033)	(56,405)	(196,074)	(359,917)	(413,636)	(2,600,000)
L/C Carrying Costs	573	(3,595)	(3,397)	(3,099)	(2,504)	(917)	(397)	(149)	(471)	(521)	(1,810)	(3,322)	(3,818)	(24,000)
Amortization Expense	576	(254,649)	(240,599)	(219,525)	(177,376)	(64,979)	(28,099)	(10,537)	(33,368)	(36,880)	(128,202)	(235,331)	(270,455)	(1,700,000)
Interest Pymt to MPWMD		0	0	0	0	0	0	0	0	0	0	0	0	0
Principal Pymt to MPWMD		0	0	0	0	0	0	0	0	0	0	0	0	0
Interest on Principal Advanced		(5,375)	(5,078)	(4,633)	(3,744)	(1,371)	(593)	(222)	(704)	(778)	(2,706)	(4,967)	(5,708)	(35,880)
Past LC fees/Bond Carry Cost payable		(82,686)	(78,124)	(71,281)	(57,595)	(21,099)	(9,124)	(3,421)	(10,835)	(11,975)	(41,628)	(76,413)	(87,818)	(552,000)
Subtotal		(737,714)	(697,013)	(635,961)	(513,856)	(188,244)	(81,403)	(30,526)	(96,666)	(106,841)	(371,401)	(681,750)	(783,504)	(4,924,880)
		(736,968)	(696,308)	(635,318)	(513,337)	(188,054)	(81,321)	(30,495)	(96,568)	(106,733)	(371,026)	(681,061)	(782,711)	(4,919,900)
		202,602	156,781	162,305	119,003	3,532	(30,144)	(75,362)	(24,731)	(21,123)	72,697	182,755	218,840	837,856



**CAWD/PBCSD Reclamation Project  
Non-Operating Expenses  
Fiscal Year 2022-23**

ITEM	Acct No.	Actual 20-21	Estimated Actual 2021-22	2021-22 Budget	Proposed 2022-23 Budget	Comments
<b>NON-OPERATING EXPENSES:</b>						
Project - Bond Carrying Costs	99956	20,055	20,000	25,000	20,000	Bond Carrying Costs
						U.S. Bank (Admin fee) \$3,850
						U.S. Bank (Incidental fee) \$ 385
						Arbitrage Calculation - Yield Restriction (3-13 next due 3-23) \$0
						Moody's - annual fee \$5,000
						Standard & Poors - review credit rating \$3,500
						Stifel, Nicolaus & Co - quarterly \$16,000
						Total..... \$28,735
Bank charges	99952	0	0	75	35	Stop payments (0 @ \$20) & wire transfer fees (3 @ \$25)
L/C Carrying Costs	99959	52,107	26,650	28,800	24,000	Letter of Credit \$2.0K per month thru June then zero
COP Interest Expense	99958	3,450	2,708	18,200	13,000	Assumes 0.50% on \$2,600,000
COP Principal Payment	22041	2,400,000	2,500,000	2,500,000	2,600,000	Per COP Schedule
Interest on Principal Advanced	99957	46,718	61,515	70,000	35,880	Int rate 3.25%
Past LC fees/Bond Carry Cost payable	22041	552,000	552,000	552,000	552,000	\$5,520,000 monthly through 06-30-23 (10 years)
Interest Payment to MPWMD	99961	22,875	7,625	7,625	0	Paid in full 10-31-21
Funding Agreement with MPWMD		500,000	500,000	500,000	0	
R & D Water Sources		0	0	0	0	
Abandoned Well Costs/R&D Water Costs		0	0	0	0	
Contribution to Capital Replacement Fund	11.1	0	0	158,000	0	current balance 03-31-22 \$494.6K
Amortization Exp	99962	1,744,169	1,700,000	1,680,000	1,700,000	
<b>TOTAL NON OPERATING EXPENSES</b>		<b>5,341,374</b>	<b>5,370,498</b>	<b>5,539,700</b>	<b>4,944,915</b>	<b>10.7% decrease from 21-22 budget</b> <b>7.9% decrease from 21-22 Projected actual</b>

COP	Payment 07/01	Year	Bond Carrying Costs
	2,300,000	2020	
	2,400,000	2021	
	2,500,000	2022	552,000 yr ending 06-30-22
	2,600,000	2023	552,000 yr ending 06-30-23
	9,800,000		
MPWMD	15,250	10/31/20 Interest	
	500,000	10/31/20 Principal	
	7,625	4/30/21 Interest	
	7,625	10/31/21 Interest	
	500,000	10/31/21 Principal	

CAWD/PBCSD Reclamation Project  
 Capital Budget  
 Fiscal Year 2022-23

<b>CAWD/PBCSD Reclamation Project</b>	<b>FY 2022/23 thru 2026/27</b>
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Project #	PROJECT	22/23	23/24	24/25	25/26	26/27	Unscheduled
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**CAPITAL PROJECTS**

1	CAWD WWTP Phase 2 - Reclamation Share	\$ 131,556					
2	CAWD Sulfuric/Citric Chemical Storage and Feed (carry over)	\$ 334,000					
3	CAWD Asset Analysis and Master Plan	\$ 300,000					
4	CAWD Fiber Wrap PVC Pipe	\$ 25,000					
5	CAWD Ammonia Tank Replacement	\$ 100,000					
6	CAWD SCADA Migration (carry over)	\$ 80,000					
7	PBCSD Pipeline Cathodic Protection (Carmel)	\$ 250,000					

**CAPITAL PURCHASES**

a	CAWD Laboratory Ion Chromatograph (10% CAWD)	\$ 57,000					
b	CAWD Laboratory Autoclave (50% CAWD)	\$ 32,000					
c	CAWD ATL LIMS System new generation (50% CAWD)					\$ 38,790	
d	CAWD Laboratory Dishwashers (2) (75% CAWD/25% Reclamation)					\$ 30,000	
e	PBCSD Forest Lake Blowers (2)		\$ 80,000				
f	PBCSD Flow Meters Remote Measuring System (12)	\$ 120,000					
g	PBCSD Forest Lake Mixers Installation	\$ 25,000					
h	PBCSD Forest Lake Backwash Basin Pump	\$ 25,000					

<b>Total</b>	<b>\$1,479,556</b>	<b>\$ 80,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 68,790</b>
RECLAMATION Share	\$1,457,856	\$ 80,000	\$ -	\$ -	\$ -	\$ -	\$ 26,895
PBCSD Share	\$ 7,226	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 7,493
CAWD Share	\$ 14,474	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 34,403
<b>Allocated Total</b>	<b>\$1,479,556</b>	<b>\$ 80,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 68,790</b>

**1 FY 2022-23 Budget**  
CAWD/PBCSD Reclamation Project

Project Name: WWTP Phase 2 - Reclamation Share  
Agency: CAWD  
Total Cost: \$ 255,127  
CY Budget \$ 131,556

Contact: Treanor  
Area: Effluent Building and Lab  
Asset Type: Electrical  
Avg Useful Life: 30 years  
Est Residual Life: 10 years  
% Consumed Life: 66%  
Category: Maintenance  
Urgency: High  
Carry Forward: No

**Asset Description**

CAWD is currently constructing the Elec/Mech Rehab and Sludge Holding Tank Project which includes Reclamation costs for new electrical and wet well mixing equipment for the Effluent Building and new power feeder to the Laboratory. About 2.7% of the total project is attributable to Reclamation based on the bid price and contractor schedule of values.

Year Built: Various  
Rehabilitation Date (Extending life of Asset): Various  
Rehab Life Extension: 30 years

**Justification**

Electrical improvements are required to address aging electrical in the Effluent Building which includes the RO Concentrate Effluent Pump. The project also includes providing a new power feed to the lab so that the lab equipment has automatic standby power from the main switchgear. Additional cost attributable to Reclamation includes the Effluent Pump Station wet well mixing system which is needed to avoid build up of precipitates from RO Concentrate in the wet well which can cause discharge permit exceedences for TSS.

**Budget Impact/Other**

	Prior Yr	22-23	23-24	24-25	25-26	26-27	Total
Labor	\$ 55,555						\$ -
Engineering	\$ 12,500						\$ -
Parts & Supplies	\$ 55,555						\$ -
Chemicals							\$ -
Utility							\$ -
Other		\$ 131,556					\$ 131,556
<b>Total</b>	<b>\$ 123,610</b>	<b>\$ 131,556</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 131,556</b>

**2 FY 2022-23 Budget**  
CAWD/PBCSD Reclamation Project

Project Name: Sulfuric/Citric Chemical Storage and Feed (carry over)  
Agency: CAWD  
Total Cost: \$ 414,000  
CY Budget: \$ 334,000 Carry Over Amount

Contact: Treanor  
Area: MF/RO  
Asset Type: Various  
Avg Useful Life: 15 Years  
Est Residual Life: 15 Years  
% Consumed Life: NA  
Category: Capital Improvement  
Urgency: High  
Carry Forward: Yes

**Asset Description**

The existing acid containment and storage at the Pad does not meet code requirements for separation of dissimilar chemicals that could create an exothermic reaction if inadvertently mixed. Furthermore, the volume of storage creates logistical issues and safety concerns with manually moving large totes of highly acidic chemicals. The project is currently in construction. The design of the system includes concrete secondary containment walls, adequately sized tanks that can receive bulk chemical deliveries, and feed pumps for MF CIP and for RO feed pH adjustment.

Year Built: NA  
Rehabilitation Date (Extending life of Asset): NA  
Rehab Life Extension: NA

**Justification**

The existing citric and sulfuric acid systems are not built to code and are a safety concern. Having a fully designed and implemented system will address code issues and will also allow operators more ability to fine tune the pH adjustment upstream of the RO system in order to reduce scaling and manage RO recovery.

Carry Over from 21/22 Budget \$370,000      Spent \$80,000      Carry Over \$290,000

**Budget Impact/Other**

	Prior Yr	22-23	23-24	24-25	25-26	26-27	Total
Labor	\$ 40,000	\$ 124,000					\$ 124,000
Engineering							\$ -
Parts & Supplies	\$ 40,000	\$ 190,000					\$ 190,000
Chemicals							\$ -
Utility							\$ -
SCADA integration		\$30,000					\$ 30,000
<b>Total</b>	<b>\$ 80,000</b>	<b>\$ 344,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 344,000</b>

**3 FY 2022-23 Budget**  
CAWD/PBCSD Reclamation Project

Project Name: Asset Analysis and Master Plan  
 Agency: CAWD  
 Total Cost: \$ 300,000  
 CY Budget \$ 300,000

Contact: Treanor  
 Area: Tertiary/MF/RO  
 Asset Type: NA  
 Avg Useful Life: NA  
 Est Residual Life: NA  
 % Consumed Life: NA  
 Category: Study  
 Urgency: Med  
 Carry Forward: No

**Asset Description**

The assets at the Tertiary Building and MF/RO Pad have not been evaluated for risk of failure and estimated remaining useful life which are needed in order to develop long term capital budget plan. This capital study would evaluate the existing assets and create a long term (10 to 15 year) capital plan for the Reclamation Treatment facilities.

Year Built: NA  
 Rehabilitation Date (Extending life of Asset): NA  
 Rehab Life Extension: NA

**Justification**

Long Term Budget Planning

**Budget Impact/Other**

	Prior Yr	22-23	23-24	24-25	25-26	26-27	Total
Labor							\$ -
Engineering		\$ 300,000					\$ 300,000
Parts & Supplies							\$ -
Chemicals							\$ -
Utility							\$ -
Other							\$ -
<b>Total</b>	\$ -	\$ 300,000	\$ -	\$ -	\$ -	\$ -	\$ 300,000

4 **FY 2022-23 Budget**  
CAWD/PBCSD Reclamation Project

Project Name: Fiber Wrap PVC Pipe  
Agency: CAWD  
Total Cost: \$ 50,000  
CY Budget \$ 25,000

Contact: Treanor  
Area: Tertiary/MF/RO  
Asset Type: Piping  
Avg Useful Life: 20 years  
Est Residual Life: 10 years  
% Consumed Life: 50%  
Category: Maintenance  
Urgency: Med-High  
Carry Forward: No

**Asset Description**

The process piping at the MF/RO Pad is primarily made of PVC which is much more prone to stress fatigue failures than compared to steel or iron piping.

Year Built: 2007  
Rehabilitation Date (Extending life of Asset): NA  
Rehab Life Extension: NA

**Justification**

Pipe failures at the MF/RO Pad cause system outages as there is no redundancy in the main process piping. A small pipe failure can lead to complete shutdown of the MF/RO system in order to facilitate repairs. Repairs of PVC pipe can take 2 to 3 days to complete. Installing a reinforcing resin impregnated fiber pipe wrap system can mitigate pipe failures in locations where it is installed. While it is not feasible to wrap all the piping in the facility that may crack and break, certain critical lines associated with the MF system will be targeted to mitigate failures in these locations.

**Budget Impact/Other**

	Prior Yr	22-23	23-24	24-25	25-26	26-27	Total
Labor	\$ 12,500	\$ 12,500					\$ 12,500
Engineering							\$ -
Parts & Supplies	\$ 12,500	\$ 12,500					\$ 12,500
Chemicals							\$ -
Utility							\$ -
Other							\$ -
<b>Total</b>	<b>\$ 25,000</b>	<b>\$ 25,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 25,000</b>

**5 FY 2022-23 Budget**  
CAWD/PBCSD Reclamation Project

Project Name: Ammonia Tank Replacement  
Agency: CAWD  
Total Cost: \$ 100,000  
CY Budget \$ 100,000

Contact: Waggoner  
Area: Tertiary  
Asset Type: Process Equip (Liquid)  
Avg Useful Life: 15 years  
Est Residual Life: 2 years  
% Consumed Life: 87%  
Category: Capital Equipment  
Urgency: Important  
Carry Forward: No

**Asset Description**

Ammonia Storage tank with air scrubber unit that holds 1,500 gallons of Ammonia Hydroxide for chlormation of plant effluents.

Year Built: 2008  
Rehabilitation Date (Extending life of Asset): N/A  
Rehab Life Extension: 15

**Justification**

The current Ammonia storage tank is reachng it's end of service life. Replacement with an updated tank and scrubber that meets current codes of CalOSHA requirments of the storage of Ammonia Hydroxide. Staff would like to upsize to a 2,000 gallon storage tank to reduce the number of deliveries throughout the year.

**Budget Impact/Other**

	Prior Yr	22-23	23-24	24-25	25-26	26-27	Total
Labor		\$ 10,000					\$ 10,000
Engineering							\$ -
Parts & Supplies		\$ 90,000					\$ 90,000
Chemicals							\$ -
Utility							\$ -
Other							\$ -
<b>Total</b>	\$ -	\$ 100,000	\$ -	\$ -	\$ -	\$ -	\$ 100,000

**6 FY 2022-23 Budget**  
CAWD/PBCSD Reclamation Project

Project Name: SCADA Migration  
 Agency: CAWD  
 Total Cost: \$ 159,182  
 CY Budget \$ 80,000 Carry Over Amount

Contact: Foley  
 Area: Tertiary/MF/RO  
 Asset Type: SCADA  
 Avg Useful Life: 15 Years  
 Est Residual Life: 0 years  
 % Consumed Life: 100%  
 Category: Capital Improvement  
 Urgency: High  
 Carry Forward: Yes

**Asset Description**

Rockwell Automation RSView32 Supervisory Control and Data Acquisition System (SCADA) that monitors and controls tertiary, microfiltration and reverse osmosis systems and equipment. The system includes equipment control, visualization, alarming and data logging.

Year Built: 1993  
 Rehabilitation Date (Extending life of Asset): 2008  
 Rehab Life Extension: 12

**Justification**

The RSView32 system is obsolete and utilizes Microsoft Windows 7 Operating System(OS). This is a network security vulnerability due to Windows 7 OS and RSView32 updates have ceased. The new system will be added to the CAWD Inductive Automation Ignition SCADA platform and integrate with the treatment plant application. It is critical to upgrade to the new platform to continue automated control of the reclamation system and equipment.

**Budget Impact/Other**

	20-21	Prior Yr	22-23	23-24	24-25	25-26	Total
Labor							\$ -
Engineering	\$ 19,182	\$ 60,000	\$ 80,000				\$ 159,182
Parts & Supplies			carry over				\$ -
Chemicals							\$ -
Utility							\$ -
Other							\$ -
<b>Total</b>	<b>\$ 19,182</b>	<b>\$ 60,000</b>	<b>\$ 80,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 159,182</b>



**a FY 2022-23 Budget**  
CAWD/PBCSD Reclamation Project

Project Name: Laboratory Ion Chromatograph (90% Reclamation)  
Agency  
Total Cost: \$ 57,000  
CY Budget

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

**Asset Description**

The Ion Chromatograph unit is a Laboratory instrument used to analyze various chemical constituents for the process control and reporting for the Reclamation Project.

Year Built: Jul-05  
Rehabilitation Date (Extending life of Asset): N/A  
Rehab Life Extension: N/A

**Justification**

The Ion Chromatography unit (IC) is coming to the end of its useful life as outlined by the manufacturer service representative. The manufacture of the Ion Chromatography unit will stop supporting parts and services in the next two years. Once that support stops replacement parts and consumables will become difficult to obtain along with service request of the equipment. The Ion Chromatography unit is used to analyze the reclaim water sent to Pebble Beach for golf course irrigation. The samples are tested at different intervals ranging from weekly, monthly and daily if needed. Samples collected and tested on a weekly schedule are the Reclaim Line and MF/RO Blend, for the monthly schedule samples that are collected are PBCSD Storage Tank, Pebble Beach Golf Course, Spanish Bay Golf Course and Forest Lake Reservoir, and depending if Pebble Beach Wells are turned on there are three other samples. The specific analysis that can be performed on the IC are the Anion and Cation ions in the water sample. The Anions are negative charged ions- Fluoride, Chloride, Nitrate, Sulfate and Phosphate. The Cations are positive charged ions- Sodium, Ammonium, Potassium, Magnesium, Calcium. Also the Sodium Absorption Ratio (SAR) and Adjusted SAR are calculated from the various test. Since the feed source of water is coming from the CAWD Secondary Effluent we are also testing the water coming in.

**Budget Impact/Other**

	Prior Yr	22-23	23-24	24-25	25-26	26-27	Total
Labor							\$ -
Engineering							\$ -
Parts & Supplies		\$ 57,000					\$ 57,000
Chemicals							\$ -
Utility							\$ -
Other							\$ -
<b>Total</b>	<b>\$ -</b>	<b>\$ 57,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 57,000</b>

**b FY 2022-23 Budget**  
CAWD/PBCSD Reclamation Project

Project Name: Laboratory Autoclave (50% Reclamation)  
Agency  
Total Cost: \$ 32,000  
CY Budget

Contact: Waggoner  
Area: Misc Structures  
Asset Type: Support Equipment  
Avg Useful Life: 20 years  
Est Residual Life: 1 year  
% Consumed Life: 89%  
Category: Capital Equipment  
Urgency: 3 = Important  
Carry Forward: Yes

**Asset Description**

The autoclave is used to conduct NPDES permit coliform tests and to destroy samples that are completed prior to disposal.

Year Built: Jun-93  
Rehabilitation Date (Extending life of Asset): N/A  
Rehab Life Extension: N/A

**Justification**

The autoclave unit has reached the end of the service life recommended by the manufacturer.  
It is essential to complete the permit required analysis and maintain compliance with EPA and ELAP requirements.

**Budget Impact/Other**

	Prior Yr	22-23	23-24	24-25	25-26	26-27	Total
Labor							\$ -
Engineering							\$ -
Parts & Supplies		\$ 32,000					\$ 32,000
Chemicals							\$ -
Utility							\$ -
Other							\$ -
<b>Total</b>	<b>\$ -</b>	<b>\$ 32,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 32,000</b>

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

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

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

**Asset Description**

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

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

**Justification**

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

**Budget Impact/Other**

		Unscheduled	Total
Labor			
Engineering		\$	-
Parts & Supplies	\$	36,000	\$ 36,000
Chemicals		\$	-
Utility		\$	-
Other	\$	2,790	\$ 2,790
<b>Total</b>	<b>\$ - \$ - \$ - \$ - \$ - \$ -</b>	<b>\$ 38,790</b>	<b>\$ 38,790</b>

d **FY 2022-23 Budget**  
Carmel Area Wastewater District

Project Name: Laboratory Dishwashers (2) (75% CAWD/25% Reclamation)  
Dept: Treatment  
Total Cost: \$ 30,000  
CY Budget \$ -  
GL Account:

Contact: Waggoner  
Area: Lab  
Asset Type: Process Equip (Chemical)  
Avg Useful Life: 10 years  
Est Residual Life: 5 years  
% Consumed Life: 50%  
Category: Capital Equipment  
Urgency: 5 = Future  
Carry Forward: Yes

**Asset Description**

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

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

**Justification**

This is listed as "Unscheduled", the dishwashers are currently working well - no time frame when to replace. These Laboratory dishwashers are Speciality Industrial Units designed to accommodate specifically designed laboratory glassware and equipment.

**Budget Impact/Other**

	Unscheduled	Total
Labor	\$ 2,000	\$ 2,000
Engineering		\$ -
Parts & Supplies	\$ 26,000	\$ 26,000
Chemicals		\$ -
Utility		\$ -
Other	\$ 2,000	\$ 2,000
<b>Total</b>	<b>\$ -</b>	<b>\$ 30,000</b>

**CAWD/PBCSD RECLAMATION PROJECT**  
**STATUS OF FY 2021-22 CAPITAL OUTLAYS AND 2022-23 PROPOSED BUDGET**

ITEM	Actual thru 2/28/22	Projected thru 6/30/22	FY 2021- 22 Original Budget	FY 2021- 22 Adjusted Budget	STATUS	Comments /Notes
<b>CAPITAL FY 2020-21</b>						
Pipeline Cathodic Protection (Carmel)	-	20,000	250,000	250,000	Re-budget in FY 2022-23	Rebudget in 2022/23
Forest Lake Mixers (2)	-	95,000	75,000	75,000	Planned completion by 6/30/22	2/8/22 RMC Report: Cost is \$90K; No budget adj requested as cost of Outlet Gate operators is underbudget 2/8/22 RMC Report: Cost is expected to be \$20K; Will install in house.
Forest Lake Outlet Gate Electric Operators	-	20,000	50,000	50,000	Planned completion by 6/30/22	
Forest Lake Inflatable Work Boat	-	-	20,000	20,000	Delete from Budget & LTCOP	
Forest Lake Chemical Feed System Improvements	9,651	-	-	-	Complete & In Service	
<b>TOTAL PBCSD CAPITAL EXPENSES</b>	<b>9,651</b>	<b>135,000</b>	<b>395,000</b>	<b>395,000</b>		

PROPOSED BUDGET FY 2022-23	Proposed FY 2022-23	Proposed FY 2023-24	DESCRIPTION
Forest Lake Blowers (2)		80,000	Replace two blowers at Forest Lake Chemical Building that supply air and vertical mixing at Forest Lake every fifteen years.
Flow Meters Remote Measuring System (12)	120,000		Replace the irrigation meters and install cellular antennas to allow recycled water meter readings to be remotely monitored; replace meter vault lids, meter piping, valves and appurtenances.
Pipeline Cathodic Protection (Carmel)	250,000		Expects to spend \$20K in FY 2021/22, remaining unspent rebudgeted from 2021/22.
Forest Lake Mixers Installation	25,000		May need to hire divers.
Forest Lake Backwash Basin Pump	25,000		Materials Purchase, Planned installation in-house.
<b>TOTAL PBCSD CAPITAL EXPENSES</b>	<b>420,000</b>	<b>80,000</b>	

**CAWD/PBCSD Reclamation Project**

**RECLAIMED & POTABLE WATER SALES**

Total Water sales - excluding meter charges.

Year	Potable AF	Reclaimed AF	Total AF	Total Water Sales	Cost per AF	Annual Change
1994-95 (partial year)	n/a	n/a	675.863	780,669.00	\$1,155	
1995-96	277.00	726.56	1,003.56	1,142,810.00	\$1,139	46.39%
1996-97	372.00	689.00	1,061.00	1,291,410.00	\$1,217	13.00%
1997-98	166.31	626.00	792.31	960,924.43	\$1,213	-25.59%
1998-99	189.53	646.37	835.90	1,004,078.00	\$1,201	4.49%
1999-00	282.92	780.41	1,063.33	1,278,885.77	\$1,203	27.37%
2000-01	317.00	636.00	953.00	1,379,969.00	\$1,448	7.90%
2001-02	344.37	642.49	986.86	1,413,050.00	\$1,432	2.40%
2002-03	272.16	706.55	978.71	1,406,089.00	\$1,437	-0.49%
2003-04	486.60	810.31	1,296.91	2,158,690.00	\$1,664	53.52%
2004-05	240.79	684.36	925.15	1,544,984.00	\$1,670	-28.43%
2005-06	156.16	718.51	874.67	1,490,644.00	\$1,704	-3.52%
2006-07	161.21	883.00	1,044.21	1,891,132.53	\$1,811	26.87%
2007-08	128.92	1,061.01	1,189.93	2,235,363.00	\$1,879	18.20%
2008-09	56.00	980.00	1,036.00	1,915,828.00	\$1,849	-14.29%
2009-10	61.84	866.66	928.50	1,807,929.00	\$1,947	-5.63%
2010-11	0.00	867.00	867.00	1,840,264.00	\$2,123	1.79%
2011-12	0.00	977.00	977.00	2,344,687.00	\$2,400	27.41%
2012-13	0.00	964.00	964.00	4,315,770.67	\$4,477	84.07%
2013-14	0.00	1,039.00	1,039.00	5,420,192.00	\$5,217	25.59%
2014-15	0.00	1,001.30	1,001.30	5,379,027.00	\$5,372	-0.76%
2015-16	24.00	1,006.00	1,030.00	5,513,758.00	\$5,353	2.50%
2016-17	0.00	839.00	839.00	5,661,358.00	\$6,748	2.68%
2017-18	0.00	1,032.00	1,032.00	6,328,302.00	\$6,132	11.78%
2018-19	15.37	894.00	909.37	6,299,411.00	\$6,927	-0.46%
2019-20	0.00	1,066.00	1,066.00	7,063,288.00	\$6,626	12.13%
2020-21	0.00	1,025.00	1,025.00	6,838,738.00	\$6,672	-3.18%
2021-22 (est)	0.00	1,025.00	1,025.00	7,000,000.01	\$6,829	2.36%
2022-23 (budget)	0.00	1,000.00	1,000.00	7,478,944.00	\$7,479	6.84%

Actual 2021-22	Potable AF	Reclaimed AF	Total AF	Total Water Sales	Cost per AF	Cost per AF Est. Act. Variance
Jul-21	0.00	122.00	122.00	694,873.84	5,696.00	-16.59%
Aug-21	0.00	132.00	132.00	723,497.84	5,481.00	-19.74%
Sep-21	0.00	121.00	121.00	691,107.65	5,712.00	-16.36%
Oct-21	0.00	72.00	72.00	551,595.94	7,661.00	12.18%
Nov-21	0.00	33.00	33.00	440,602.39	13,352.00	95.51%
Dec-21	0.00	9.00	9.00	365,237.13	40,582.00	494.24%
Jan-22	0.00	26.00	26.00	418,126.37	16,082.00	135.49%
Feb-22	0.00	74.00	74.00	556,358.86	7,518.00	10.08%
Mar-22 est.	0.00	21.00	21.00	337,722.00	16,082.00	135.49%
Apr-22 est.	0.00	73.00	73.00	559,253.00	7,661.00	12.18%
May-22 est.	0.00	134.00	134.00	734,454.00	5,481.00	-19.74%
Jun-22 est.	0.00	154.00	154.00	844,074.00	5,481.00	-19.74%
YTD	0.00	971.00	971.00	6,916,903.02	7,123.00	4.30%

Actual 2020-21	Potable AF	Reclaimed AF	Total AF	Total Water Sales	Cost per AF	Cost per AF Est. Act. Variance
Jul-20	0.00	146.00	146.00	730,113.74	5,001.00	-25.04%
Aug-20	0.00	128.00	128.00	682,039.00	5,328.00	-20.14%
Sep-20	0.00	105.00	105.00	621,987.97	5,924.00	-11.21%
Oct-20	0.00	101.00	101.00	610,503.60	6,045.00	-9.40%
Nov-20	0.00	51.00	51.00	479,193.55	9,396.00	40.83%
Dec-20	0.00	22.00	22.00	402,919.10	18,315.00	174.51%
Jan-21	0.00	13.00	13.00	378,586.19	29,122.00	336.48%
Feb-21	0.00	8.00	8.00	364,055.73	45,507.00	582.07%
Mar-21	0.00	46.00	46.00	466,058.67	10,132.00	51.86%
Apr-21	0.00	117.00	117.00	654,258.85	5,592.00	-16.19%
May-21	0.00	136.00	136.00	702,903.82	5,168.00	-22.54%
Jun-21	0.00	152.00	152.00	746,117.62	4,909.00	-26.42%
YTD	0.00	1,025.00	1,025.00	6,838,737.84	6,672.00	0.00%

Actual 2019-20	Potable AF	Reclaimed AF	Total AF	Total Water Sales	Cost per AF	Cost per AF Est. Act. Variance
Jul-19	0.00	155.00	155.00	776,100.00	5,007.00	-24.43%
Aug-19	0.00	155.00	155.00	776,422.00	5,009.00	-24.40%
Sep-19	0.00	139.00	139.00	729,402.00	5,247.00	-20.81%
Oct-19	0.00	127.00	127.00	697,805.00	5,495.00	-17.07%
Nov-19	0.00	51.00	51.00	481,889.00	9,449.00	42.60%
Dec-19	0.00	2.00	2.00	343,410.00	171,705.00	2491.38%
Jan-20	0.00	3.00	3.00	346,009.00	115,336.00	1640.66%
Feb-20	0.00	46.00	46.00	466,461.00	10,140.00	53.03%
Mar-20	0.00	19.00	19.00	391,008.00	20,579.00	210.58%
Apr-20	0.00	61.00	61.00	576,389.00	9,449.00	42.60%
May-20	0.00	151.00	151.00	792,297.00	5,247.00	-20.81%
Jun-20	0.00	157.00	157.00	786,099.00	5,007.00	-24.43%
YTD	0.00	1,066.00	1,066.00	7,163,291.00	6,720.00	1.42%

Operating Costs - billed per AF usage	
Operating Expenses	3,351,188.49
MPWMD fee	70,000.00
Prior Yr O&M rollover	0.00
	<u>3,421,188.49</u>
Estimated AF	1,000.00
Price per AF	3,421.19

Non Operating Costs - billed per Agreement %	
Non Operating Expenses	3,219,900.00
Capital Budget	1,457,856.00
Prior Yr Capital Projects (rollover)	<u>(620,000.00)</u>
	4,057,756.00

		Monthly
MPCC-Dunes	12.13%	41,000.24
MPCC-Shore	12.13%	41,000.24
Cypress Point	12.13%	41,000.24
Poppy Hills	12.13%	41,000.24
Pebble Beach	12.13%	41,000.24
Spyglass Hill	12.13%	41,000.24
Spanish Bay	12.13%	41,000.24
PB Range	3.63%	12,257.80
Peter Hay	3.50%	11,835.12
PB Resorts	3.50%	11,835.12
Equestrian Center	3.00%	10,144.39
Stevenson School	1.50%	5,072.20
	<u>100.00%</u>	<u>338,146.33</u>

Prior Yr Capital Projects (rollover)		Orig. Budget	Spent	Carry Over
CAWD SCADA Migration (carry over	\$	140,000	\$ 60,000	\$ 80,000
Sulfuric/Citric Chemical Storage and Feed (carry over)	\$	370,000	\$ 80,000	\$ 290,000
PBCD Pipeline Cathodic Protect	\$	250,000	\$ -	\$ 250,000
				<u>\$ 620,000</u>