

CAWD/PBCSD RECLAMATION  
PROJECT

2020-21 BUDGET

Reviewed by Finance Officer's Work Group (FOWG) on - Not Reviewed

Reviewed by Technical Advisory Committee (TAC) on May 6, 2020

Presented to Reclamation Management Committee (RMC) on May 13, 2020

CAWD/PBCSD Reclamation Project  
2020-21

Table of Contents

Budget Summary	1
Revenue Projections	2
Operating Expenses	3
Monthly budget	8
Non-Operating Expenses	15
Capital Budget	16
Reclaimed & Potable Water Sales	17
Cost of Water & Non Operating	18
Cash Flow Analysis	19
Project Descriptions - CAWD & PBCSD	21

**CAWD/PBCSD RECLAMATION PROJECT  
2020-21 BUDGET SUMMARY**

	<b>Actual 18-19</b>	<b>Estimated Actual 2019-20</b>	<b>2019-20 Budget</b>	<b>Proposed 2020-21 Budget</b>	<b>Inc/(Dec) Proj.Actual 19-20</b>	<b>Proposed to Budget 19-20</b>
<b>User Revenue</b>						
Water Sales	2,487,590	2,629,391	2,826,801	2,649,508	0.77%	-6.27%
Non Operating Share	3,811,821	4,048,616	4,048,615	4,120,603	1.78%	1.78%
<b>Operating Expenses</b>						
Plant Operating Expenses	1,856,255	1,809,831	2,008,966	1,847,901	2.10%	-8.02%
PBCSD Expenses	439,278	435,151	525,000	505,000	16.05%	-3.81%
CAWD Admin. Expenses	98,684	115,874	88,384	88,892	-23.29%	0.57%
MPWMD Admin. Expenses	51,668	42,130	57,166	60,427	43.43%	5.70%
PBCo / IRWUG Expenses	48,595	56,835	50,538	50,538	-11.08%	0.00%
Potable Water Costs	89,754	2,785	6,750	6,750	142.39%	0.00%
MPWMD fee	77,176	90,000	90,000	90,000	0.00%	0.00%
	<u>2,661,411</u>	<u>2,552,605</u>	<u>2,826,804</u>	<u>2,649,508</u>	<u>3.80%</u>	<u>-6.27%</u>
<b>Operating Income/(Loss) before Amortization</b>	<u>3,638,000</u>	<u>4,125,401</u>	<u>4,048,612</u>	<u>4,120,603</u>	<u>-0.12%</u>	<u>1.78%</u>
<b>Non Operating Revenues/(Expenses)</b>						
Interest Income	42,855	25,891	27,850	35,265	36.20%	26.62%
Bond Carrying Costs	(20,442)	(19,493)	(28,735)	(28,735)	47.41%	0.00%
Bank charges	(275)	(87)	(125)	(125)	43.20%	0.00%
Interest to MPWMD	0	(15,250)	(29,500)	(22,875)	50.00%	-22.46%
Principal Pymt to MPWMD	0	1,000,000	1,000,000	(500,000)	-150.00%	-150.00%
LC Carrying Costs	(100,690)	(76,971)	(93,228)	(48,000)	-37.64%	-48.51%
COP Interest Expense	(129,980)	(90,207)	(150,000)	(51,000)	-43.46%	-66.00%
COP Principal Payment	(2,100,000)	(2,300,000)	(2,300,000)	(2,400,000)	4.35%	4.35%
Interest on Principal Advanced	(62,895)	(71,000)	(71,360)	(70,000)	-1.41%	-1.91%
Past LC fees/Bond Carry Cost	(552,000)	(552,000)	(552,000)	(552,000)	0.00%	0.00%
Other Revenue/(Expense)	17,968	0	0	0	n/a	n/a
	<u>(2,905,458)</u>	<u>(2,099,117)</u>	<u>(2,197,098)</u>	<u>(3,637,470)</u>	<u>73.29%</u>	<u>65.56%</u>
<b>Income/(Loss) before Capital</b>	<u>732,542</u>	<u>2,026,284</u>	<u>1,851,514</u>	<u>483,133</u>	<u>-76.16%</u>	<u>-73.91%</u>
<b>Capital Budget</b>						
Purchases	60,520	38,879	38,879	115,733	197.67%	197.67%
Improvement Projects	1,490,451	2,162,000	2,162,000	722,400	-66.59%	-66.59%
	<u>1,550,971</u>	<u>2,200,879</u>	<u>2,200,879</u>	<u>838,133</u>	<u>-61.92%</u>	<u>-61.92%</u>
<b>Net Income/(Loss)</b>	<u>(818,429)</u>	<u>(174,595)</u>	<u>(349,365)</u>	<u>(355,000)</u>	<u>103.33%</u>	<u>1.61%</u>
<b>Rollover from Prior Year Capital *</b>	<u>567,380</u>	<u>490,000</u>	<u>349,362</u>	<u>355,000</u>		
<b>Balanced Net Income</b>	<u>(251,049)</u>	<u>315,405</u>	<u>(3)</u>	<u>(0)</u>	<u>-100.00%</u>	<u>-100.00%</u>
<b>Amortization Exp</b>	<u>1,663,234</u>	<u>1,617,720</u>	<u>1,600,000</u>	<u>1,600,000</u>	<u>-1.10%</u>	<u>0.00%</u>
<b>* Sulfuric Acid Tank</b>		<u>290,000</u>		<u>290,000</u>		
Flood Mitigation		<u>25,000</u>		<u>15,000</u>		
Storage Tank Rehab		<u>175,000</u>		<u>50,000</u>		
<b>total</b>		<u>490,000</u>		<u>355,000</u>		

**CAWD/PBCSD RECLAMATION PROJECT  
REVENUE PROJECTIONS  
FY 2020-21**

Description	Acct. No.	Actual 2018-19	Estimated Actual 2019-20	2019-20 Budget	2020-21 Budget	Proposed 2020-21 Budget	Comments
Interest Income - County	99906	32	36	100	50	O&M operating funds are on deposit with the County of Monte	
Interest Income - Bank of America	99904	159	21	150	100	Water sales revenue funds are invested in money market acc	
Interest Income- (O&M Reserve & Cap Repl)	99908	22,943	10,258	27,500	20,000	Renewal & replacement funds invested in highly rated comm'l	
Gain (loss) on Securities	99936	19,647	15,475	0	15,000		
Interest Income - Union Bank (O&M)	99910	55	86	100	100		
Interest Income - Wells Fargo Escrow Acct	99912	19	15	0	15		
Other Revenue	99945	0	0	0	0		
Water Sales (inc. late prmts)	52000	2,487,590	2,629,391	2,826,801	2,649,508	See schedule p. 17	
Fixed Cost Charge		3,811,821	4,048,616	4,048,615	4,120,603	Increase due to resumption of Districts User Fee on Cal-Am	
MPWMD fees (8.325%)	53000	(77,176)	(90,000)	(90,000)	(90,000)	bills	
<b>TOTAL REVENUE</b>		<b>6,265,090</b>	<b>6,613,898</b>	<b>6,813,266</b>	<b>6,715,375</b>	<b>1.44% decrease from 19-20 budget</b> <b>1.53% increase from 19-20 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

**CAWD/PBCSD Reclamation Project  
Operations and Maintenance Budget  
Fiscal Year 2020-21**

ITEM	Acct No.	Actual 18-19	Estimated Actual 2019-20	Proposed 2020-21		Comments/Notes
				2019-20 Budget	2020-21 Budget	
<b>PLANT OPERATING EXPENSES:</b>						
Plant Salaries, Benefits & Overhead						
Plant Superintendent	61100	23,564	19,035	26,000	20,028	Based on 300 hours
Laboratory Supervisor	61200	25,884	24,366	31,935	31,510	Based on 575 hours
Laboratory Technicians	61300	65,413	64,672	64,275	65,394	Based on 1,350 hours
Plant Operators	61400	147,824	134,243	154,710	148,950	Based on 3,000 hours
Maintenance Supervisor	61450	14,849	9,573	12,230	12,017	Based on 180 hours
Maintenance Mechanics	61500	22,426	18,677	26,845	22,680	Based on 480 hours
Safety Officer		6,820	8,384	3,500	8,717	Based on 180 hours
Plant Engineer		0	19,852	15,000	15,108	Based on 200 hours
Differential PR	62000	12,227	16,116	12,475	12,986	
Payroll Taxes, Benefits & Indirect Overhead	62100	179,033	157,459	173,485	168,695	
<b>TOTAL PLANT SALARIES</b>		<b>498,039</b>	<b>472,378</b>	<b>520,455</b>	<b>506,086</b>	<b>COLA 4.1%</b>
<b>Energy Cost</b>						
Tertiary Operations	63300	155,887	164,834	169,847	173,075	Contact PG&E Representative on 4/16/2020 and they indicated a 5% overall increase
MF/RO Pad	63400	223,956	232,913	238,486	244,560	rates for Account Numbers 63300, 63400 and 63500.
Secondary Costs - EQ Basin PD Blower	63500	145,881	134,435	159,638	144,525	Account 63300 is increased also due to sandfilter and Floc system operation
<b>SUBTOTAL</b>		<b>525,725</b>	<b>532,182</b>	<b>567,971</b>	<b>562,160</b>	
<b>Chemical Costs:</b>						
Maintenance washes RO upon scaling/fouling removal, increased due to adding membrane stages 3 & 4 (\$7,000.00) Full CIP on all stages when pressure increases (\$9,400.00), MF Cleanings two to three times a year (\$3,500.00) plus freight and Taxes.						
Clean-in-place chemicals	64200	5,546	34,699	20,000	25,000	
Antiscalant	64400	25,041	26,204	25,700	25,700	H2O recommendation as part of the RO recovery project - 5 totes/yr @ \$4,930
Phenylarsine oxide	64410	987	497	900	900	Used for Chlorine Residual Titrations
Acetate buffer solution	64420	142	253	250	250	Used for Chlorine Residual Titrations
Iodine solution	64430	0	160	250	250	Used for Chlorine Residual Titrations
Citric Acid	65160	4,816	23,257	8,000	20,000	Increase as staff is no longer using Phosphoric Acid on Maintenance washes on MF
Sulfuric Acid	65170	33,201	31,790	35,000	30,000	Used to adjust pH to control Calcium Phosphate scale on RO membranes
Acetic Acid	65180	740	775	600	800	Used for Chlorine Residual analyzers for discharge permit compliance
Sodium Bisulfite	65200	46,916	41,959	57,200	45,000	Lower costs due to better control with SCADA system
Sodium Hypochlorite	65250	39,690	28,177	52,000	45,000	Lower costs due to better control with SCADA system
Polymer	65500	15,031	17,907	12,000	18,000	Used to coagulate MF waste flows to DAFT
Miscellaneous chemicals	65600	1,549	209	3,000	1,000	Misc solutions for calibration chemicals and analyzer chemicals
Potassium Hydroxide	65700	46,664	35,000	80,000	35,000	pH and alkalinity adjustment to RO product water
Potassium iodate solution		282	592	600	600	Chlorine Testing
Potassium iodide		1,818	1,900	2,250	2,250	Chlorine Analyzers
Ammonia Hydroxide	65800	66,463	56,926	70,000	60,000	Used in chlorine channel to make chloroamines
Phosphoric Acid	65900	6,364	0	0	0	No Longer used
Low Mag Ferric		0	4,928	30,000	0	No Longer used
Enzymes - RE300		28,708	25,380	5,000	35,000	Phosphors removal before RO Membranes
<b>SUBTOTAL</b>		<b>323,955</b>	<b>328,613</b>	<b>410,250</b>	<b>352,250</b>	
<b>Operating Supplies - Plant</b>						
Repairs & Maintenance	66100	87,293	83,829	90,000	90,000	General repairs of equipment and support equipment for MF/RO and Sand Filters
Plant Pumps	66190	17,254	19,808	20,000	30,000	Pump Repair for Sand Filters, MF/RO and support equipment, Mix Liquor Return Pump
Laundry	66200	1,563	702	1,550	1,500	Contract with Cintias
Lubricants/Packing	66300	43	0	1,000	1,000	Varolius lubricants for motors, pumps and valves
Electrical Supplies	66400	13,307	12,119	5,000	12,000	Electrical PM supplies and parts, Recondition MF Feed Pump P-120, AC motors for C;
Laboratory Supplies	66500	33,674	32,108	39,600	29,000	Thermo Fisher \$15,000, Microgenics\$5,850, Idex \$6,500, Miele, Sigma, Inorganic Venture, \$1650

**CAWD/PBCSD Reclamation Project  
Operations and Maintenance Budget  
Fiscal Year 2020-21**

ITEM	Acct No.	Actual 18-19	Estimated Actual 2019-20	2019-20 Budget	Proposed 2020-21		Comments/Notes
					Budget	Budget	
Paint	66600	0	0	2,000			0 Will be covered under Capital Painting in future years
Postage & Office Supplies	67000	9	112	200	500		Shipping samples to outside laboratories and office supplies
First Aid Supplies	67100	0	0	200	200		Restocking First Aid Kits at MF/RO and Tertiary Areas
Janitorial Supplies	67400	0	222	200	200		Cleaning supplies for MF/RO and Tertiary Areas
Personnel Supplies	67400	183	26	1,030	1,000		Protective Nitrile Gloves, N95 Face Masks, Hand Cleaner/Sanitizer
Hand Tools	67600	1,939	338	1,030	1,000		Misc tool replacement, speciality tools for MF
General Operating Supplies	67700	25,358	3,139	0	0		Has been shift to other accounts for better accounting control
Safety	67800	2,110	151	4,000	4,000		Safety supplies, \$2963.13 for Wildeck Cantilever Gate for Tertiary Building.
Training	67900	0	0	5,000	5,000		Specific MF/RO classes on Operations and Safety Training
		182,733	152,554	170,810		175,400	
<b>Membrane Costs</b>							
Microfilter Membrane Modules	67510	189,352	0	0	105,000		Purchase 120 Membranes to replace the Carter Lake Membranes as now in operation 1.5 years. At this time we see no great rise in TMPs after a CIP.
Annual Cartridge Filter Replacement	66700	8,159	7,397	10,000	10,000		RO Prefilters
RO Membrane Elements	67500	0	189,969	180,000	0		
Spare Parts & Outfitting	66750	14,682	3,015	15,000	15,000		Misc. parts for membrane install and listed spare parts recommended by Mfr.
		212,193	200,380	205,000		130,000	
<b>Contractual Services:</b>							
Chemical Waste Disposal	68100	992	0	1,000	500		Removal of used COD vials from Laboratory and MF/RO \$21,000 for Integrator programming and electrical contractor to finish SCADA upgrade, Calibrations of on-line equipment Hach turbidity meters(\$6,400.00), Tesco Flow meter calibration (\$85,100.00), Claros/MSM annual (\$1,200.00), Misc instruments (\$2,300.00)
Plant Instrumentation	68200	33,172	41,397	22,000	36,000		13 Fire extinguishers (9 on the Pad area and 4 in the Tertiary Building
Fire Extinguisher Service	68300	0	293	720	500		
Calibration	68400	3,808	5,025	9,050	9,605		DR 2800 (\$1,500.00 annual service, Myron L. (\$500.00) annual service, Laboratory Balance(s) annual calibration (\$500.00) Gallery (\$ 2,555.00) annual service contract, TOC annual service (\$4,550.00) (90%) Reclamation.
Contract Laboratory Analysis	68500	5,590	5,589	6,360	5,600		RO Quarterly Samples to Contract Laboratories
System software/IT consulting	68710	6,662	21,677	27,100	24,200		MF/RO Proprietary software-PLCsetc. H2O Innovations remote monitoring of increased recovery upgrade (\$18,000.00/yr), LIMS (\$4,400.00), Safety Data Sheets software (\$1,000) NPDES Reporting Software \$800.00
SAR Equipment Maintenance	68720	4,253	2,046	4,000	0		No service Contract available any longer due to age of equipment
Hoist Certification	68730	0	258	1,000	350		Reflects current cost for one Hoist Certification in Tertiary Building
Alarm-Tertiary Equipment	68900	224	238	250	250		First Alarm monitoring of Tertiary System
<b>SUBTOTAL</b>		54,701	76,522	71,480		77,005	
<b>Fees &amp; Permits</b>							
Engineering Fees:	69100	2,222	2,666	8,000	5,000		Laboratory ELAP Fees (50/50 split with CAWD), Annual Permit fees for Order No. 93
Consulting	69200	56,688	44,537	40,000	30,000		Trussell Technologies (3 semi-annual operating reports)
Membrane Cleaning Pilot	69250	0	0	15,000	10,000		Cleaning studies and/or Autopsies of operating RO Membranes
Disposal expense	69350	0	0	0	0		
Demolition expense	69360	0	0	0	0		
<b>SUBTOTAL</b>		56,688	44,537	55,000		40,000	
<b>TOTAL PLANT OPERATING EXPENSES</b>		1,856,255	1,809,831	2,008,966	1,847,901		<b>-8.02% decrease from 19-20 budget</b> <b>2.10% increase from 19-20 Projected actual</b>

PEBBLE BEACH COM SVC DISTRICT  
DISTRIBUTION SYSTEM ADMIN & MAINT:  
Salaries, Benefits & Overhead

**CAWD/PBCSD Reclamation Project  
Operations and Maintenance Budget  
Fiscal Year 2020-21**

ITEM	Acct No.	Actual 18-19	Estimated Actual 2019-20	Proposed 2020-21		Comments/Notes
				2019-20 Budget	Budget	
General Manager	71000	0	0	0	0	
Principal/Assistant Engineer	71100	11,392	18,944	11,000	12,000	
Deputy General Manager/CFO	71200	1,082	942	1,500	1,500	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 2019-20 estimated hours.
Senior Accountant	71300	3,625	4,613	5,000	5,000	
Administrative Assistant	71400	314	345	500	500	
Finance & Info Sys Coordinator	71500	1,363	400	1,000	500	In 2019/20 the Costs for Engineering will increase due to the coordination and oversight of the Reclamation Storage Facilities Improvements project.
Associate Engineers	71600	6,782	9,393	8,500	8,000	
Engineering Intern		30	250	500	500	
Payroll Taxes , Benefits & Overhead	71800	12,279	17,444	14,000	14,000	The payroll taxes, benefits and indirect overhead is calculated at 50% as agreed upon by the project participants.
<b>SUBTOTAL</b>		<b>36,867</b>	<b>52,331</b>	<b>42,000</b>	<b>42,000</b>	
<b>Other Administrative &amp; General Expenses:</b>						
Insurance - Property & Liability	72100	(864)	5,662	5,500	8,500	
Insurance - Earthquake	72100	3,871	17,790	17,000	18,000	FL Reservoir (\$12,000) & Poppy Hills Storage Tank (\$5,000)
Insurance - Forest Lake Dam Failure Liability	72100	5,085	8,722	5,500	10,000	\$10M Coverage
Directors Fees	72200	300	400	500	500	2 Directors x 6 meetings/year x \$50/meeting
<b>SUBTOTAL</b>		<b>8,392</b>	<b>32,564</b>	<b>28,500</b>	<b>37,000</b>	
<b>Total Administrative &amp; General Expenses</b>		<b>45,259</b>	<b>84,895</b>	<b>70,500</b>	<b>79,000</b>	
<b>Distribution System O.&amp;M. Expenses:</b>						
<b>Salaries, Benefits &amp; Overhead:</b>						
Field Maintenance Supervisor	73000	13,666	8,119	12,000	15,000	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. 2019/20: Expected increase in number of hours billed for planned training, coordination of Reclamation Facilities Improvements; an increase in maintenance staff from 5 to 6 FTE.
Maintenance Technicians	73100	35,686	50,750	55,000	45,000	
Payroll taxes, Benefits & Overhead	73200	24,676	29,435	33,500	30,000	The payroll taxes, benefits and indirect overhead is calculated at 50% as agreed upon by the project participants.
<b>SUBTOTAL</b>		<b>74,029</b>	<b>88,304</b>	<b>100,500</b>	<b>90,000</b>	
<b>Energy &amp; Utilities:</b>						
Potable Water Pump Station - PG&E	74000	1,733	547	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. 2018-19: In Sep 2018 purchase of potable water resulted in temporary increase in pump station electricity use.
SCADA System: DSL ATM / Telemetry Anak	74200	11,256	11,372	12,500	12,000	Monthly AT&T & COMCAST fee for lines between Potable Water Pump Station, Forest Lake, CAWD and PBCSD.
Wireless Alarm Sys Chg (Mission)	74300	695	695	1,500	1,000	Annual maint agmt for Cell Phone Alarm System at Poppy Hills Storage Tank and PB Golf Links 4th Fairway /18th Fairway & 18th Green. 2019/20: Addition of 2 Dry-weather Diversion Facilities
Forest Lake Treatment Facility (PG&E)	74400	28,403	34,689	45,000	40,000	Budgeted based on previous experience and anticipated operations (2019/20: Includes addition of a new VFD pump at Forest Lake while Reclam Tank is out of commission)
Forest Lake Eyewash Station (CalAm)	74500	873	873	1,000	1,000	Budgeted based on previous experience. (2019/20: Updated description, as not only the eye wash station is serviced)
Poppy Hill Booster Pump Station - PG&E	74600	1,316	1,425	1,500	1,500	Budgeted based on previous experience & anticipated operations.
Cathodic Protection	74700	2,600	1,597	1,500	1,500	2 Locations: Forest Lake Rd & Whitman Ln; Budgeted based on previous experience & anticipated operations.
<b>SUBTOTAL</b>		<b>46,876</b>	<b>51,198</b>	<b>64,000</b>	<b>58,000</b>	
<b>Source Water / Dry Weather Diversion</b>						
Reclamation Source Water	77600	4,515	10,716	5,000	6,000	Materials/Supplies for Reclam Wells (MPCC # 8 / MPCC # 9) 2019-20: Planned Pump Replacement at MPCC #9
4th Fairway Dry Weather Diversion Facility	77700	60	0	3,000	2,000	Materials/Suppl for PB Golf Links 4th Fairway Dry-weather Diversion Facility. 2019/20: Added two more Dry-weather Diversion Facilities at PB Golf Links 18th Fairway & 18th Green

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Operations and Maintenance Budget  
Fiscal Year 2020-21**

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				2019-20 Budget	Budget	
Water Treatment Cost	77800	66,687	65,000	70,000	65,000	(2) locations @ MPCC / (1) 4th Fairway
<b>SUBTOTAL</b>		<b>71,262</b>	<b>75,716</b>	<b>78,000</b>	<b>73,000</b>	
Distribution System - Other O.&M. Expenses:						
Other professional services	75200	350	428	1,000	1,000	Mgmt Comm Mtg Attendance & Minutes
Permits	75300	23,447	25,135	25,500	29,000	1. SWRCB-General Permit (\$6,300) 2. DSOD-Forest Lake Operating Permit (\$18,500) 3. MBLUAPC-Viscaino Generator (\$200) / Environ Health-Viscaino Fuel Tank Permit (\$500) (PBCSD: 2/5 & Calmt: 3/5)
Fuel	75500	2,059	2,114	2,500	2,500	Estimated fuel use for vehicles and Viscaino Rd. pump station. 2018-19 storms necessitated purchase of additional fuel for Viscaino Rd UGST.
Training & Tuitions	75600	2,003	3,205	6,000	5,000	Maint & safety programs (regist/materials/travel/misc exp. Memberships & Certif) Includes Water Awareness Committee Membership; Wateruse Membership & training for maintenance employees. 2019-20: \$3,500 included for additional maintenance employee who will need to be brought up to speed on Reclamation Facilities operations and maintenance
SCADA System software/IT consulting	75800	1,892	2,885	5,000	5,000	Maintenance, diagnostic & consulting svcs related to SCADA; GIS Development (2019-20: Increase in Budget for more SCADA / GIS Work)
SCADA Platform Support Svcs Subscription		0	1,134	0	2,000	NEW Inductive Ignition Support Services Subscription (75% WW / 25% Red)
Reclamation Line Distribution Sys	76300	30,823	10,000	10,000	10,000	Meter calibration & Other General Repairs and Maintenance (R&M); Materials & Supplies
Viscaino Rd/Poppy Hills Pump Station	76400	2,862	4,626	3,000	6,000	Prev Maint / Annual load bank test / Underground tank leak detect & general R&M
Call Out Mileage Expense	76500	1,544	1,812	2,000	2,000	For Maintenance work performed after hours, weekends & holidays
Forest Lake Reservoir - R & M	76600	51,951	19,575	25,000	25,000	General/Emergency repairs to Forest Lake
Poppy Hills Storage Tank (2.5 million gallon)	76700	164	1,728	5,000	2,500	Includes Cathodic Protect. Inspection (every 3 yrs) / Tank (15-Point) Inspection (every 3 yrs) / Annual Cleaning Svc (done Feb/Mar) and Misc R&M; 2019-20 Tank will be out of service so, budget can be temporarily reduced
Rescue & Safety Supplies & Equipment	76800	0	0	1,000	1,000	Personnel Protective Gear and Equip For Handling Chemicals @ Forest Lake / Life Vests / Rescue Discs and supplies / Safety Signs & Supplies (Lockout/Tag Out).
Forest Lake Chemicals	76900	31,808	35,444	45,000	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.
RF Communication Sys for SCADA	77000	0	62	1,000	1,000	Supplies & equipment purchases/ Repairs and Maintenance
Forest Lake Reservoir - Materials & Supplies	77100	12,801	19,891	30,000	30,000	Supplies & Equip: Deployable Probe, Water Sampling, Piezometer, Misc other (\$8,000); Gopher Contrl (\$2,000) / Insecticides (\$15,000) 2019-20 Purchase a weather station (\$3,000) and planned inspection of Geomembrane liner (\$3,000).
<b>SUBTOTAL</b>		<b>161,703</b>	<b>128,039</b>	<b>162,000</b>	<b>162,000</b>	
Professional Fees - PBCSD:						
General Engineering - Consulting	76000	40,149	7,000	50,000	40,000	Gen Consult; Annual DSOD Report; For Lk Semi-Annual Monument Settlement Survey; GIS Development; 2019-20: Increase due to Planned consulting needed for Emergency Action Plan for Forest Lake
Remote Flow Monitoring	77900	0	0	0	3,000	NEW Neptune Meter at Bird Rock Well / Remote Reporting (Cloud-Based Annual Service Charge
<b>SUBTOTAL</b>		<b>40,149</b>	<b>7,000</b>	<b>50,000</b>	<b>43,000</b>	
<b>Total Distribution System O.&amp;M. Expenses</b>		<b>394,020</b>	<b>350,257</b>	<b>454,500</b>	<b>426,000</b>	
<b>TOTAL PBCSD EXPENSES</b>		<b>439,278</b>	<b>435,151</b>	<b>525,000</b>	<b>505,000</b>	<b>3.81% decrease from 19-20 budget</b> <b>16.05% increase from 19-20 Projected actual</b>



**CAWD/PBCSD Reclamation Project  
Operations and Maintenance Budget  
Fiscal Year 2020-21**

ITEM	Acct No.	Actual 18-19	Estimated Actual 2019-20	2019-20 Budget	Proposed 2020-21 Budget	Comments/Notes
<b>CAWD ADMIN &amp; GENERAL EXPENSES</b>						
<b>ADMINISTRATIVE SALARIES</b>						
	No.					
General Manager	81000	1,720	1,554	1,730	1,485	Based on 15 hours
Project Accountant	81200	10,840	11,666	14,195	12,145	Based on 210 hours
Engineering Associate	81100	15,858	654	0	755	Based on 10 hours
Admin. Services Coordinator/Scanner	81400	0	7,164	7,066	7,400	Based on 180 hours
Payroll Taxes, Benefits & Overhead	82100	10,641	10,519	11,496	10,893	
<b>SUBTOTAL</b>		<b>39,059</b>	<b>31,557</b>	<b>34,487</b>	<b>32,678</b>	<b>COLA 4.1%</b>
<b>Administrative &amp; General Expenses:</b>						
Office Supplies & Postage	84000	345	0	0	0	
Audit & Consulting Fees	84100	17,900	18,150	20,000	19,050	Assumes 5% increase
Employee training	84200	0	0	0	0	
Directors Fees	85000	1,000	1,050	1,200	1,050	Assumes 3 RMC meetings
Legal Notices	89400	0	0	0	0	
Legal Fees	89400	11,741	33,422	0	1,250	
Insurance Expense	89500	28,640	31,695	32,697	34,864	Assumes 10% increase from prior year actual
<b>SUBTOTAL</b>		<b>59,625</b>	<b>84,316</b>	<b>53,897</b>	<b>56,214</b>	
<b>TOTAL CAWD EXPENSES</b>		<b>86,684</b>	<b>115,874</b>	<b>88,384</b>	<b>88,892</b>	<b>0.57% increase from 19-20 budget</b>
						<b>23.29% decrease from 19-20 Projected actual</b>
<b>MONTEREY PENINSULA WATER MANAGEMENT DISTRICT</b>						
<b>ADMINISTRATIVE EXPENSES:</b>						
<b>Administrative Salaries, Benefits &amp; Overhead</b>						
General Manager	91000	4,587	1,200	1,200	1,236	Based on 10 hours
Administrative Services Manager	91200	5,711	3,800	4,500	4,635	Based on 35 hours
Accountant	91300	3,237	3,500	4,140	4,264	Based on 65 hours
IT Manager	91500	5,315	3,500	4,600	4,738	Based on 40 hours
Payroll Taxes, Benefits & Overhead	92100	9,453	6,000	4,268	4,396	
<b>SUBTOTAL</b>		<b>28,303</b>	<b>18,000</b>	<b>18,708</b>	<b>19,269</b>	
<b>Administrative &amp; General Expenses</b>						
CAL-Arm Water Meter Service Charge	94300	19,817	21,630	32,208	34,747	8" meter assumes 20% increased based on actual billings
Legal Fees	99400	0	2,500	2,500	2,500	
Annual software maintenance	99410	3,549	3,750	3,750	3,911	Software annual maintenance fee (financial & billing combined software)
		<b>23,366</b>	<b>27,880</b>	<b>38,458</b>	<b>41,158</b>	
<b>TOTAL MPWMD EXPENSES</b>		<b>51,668</b>	<b>42,130</b>	<b>57,166</b>	<b>60,427</b>	<b>5.7% increase from 19-20 budget</b>
						<b>43.43% increase from 19-20 Projected actual</b>
<b>PBCo / IRWJUG Representative</b>						
Payroll Taxes, Benefits & Overhead	77520	33,468	39,129	34,806	34,806	Salary remains level in 20-21
R&D Water Sources	99965	15,127	17,706	15,732	15,732	
		<b>2,494,481</b>	<b>2,459,820</b>	<b>2,730,054</b>	<b>2,552,758</b>	
<b>SUB TOTAL</b>						
<b>POTABLE WATER COSTS</b>	99601	89,754	2,785	6,750	6,750	Project 100% reclaimed water use - no potable - includes service chgs/surcharges - 1t
<b>TOTAL OPERATING EXPENSES</b>		<b>2,584,235</b>	<b>2,462,605</b>	<b>2,736,804</b>	<b>2,559,508</b>	<b>6.48% decrease from 19-20 budget</b>
						<b>3.93% increase from 19-20 Projected actual</b>

**CAWD/PBCSD Reclamation Project**  
 Monthly Budget Projections  
 2020-21

ACCT No.	5 yr avg	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	ANNUAL BUDGET 20-21
52000		1,021,329	961,821	894,009	700,261	202,052	85,803	24,910	153,615	119,017	595,083	938,294	1,073,918	6,770,110
2225	Less MPWMD Fees	(13,577)	(12,786)	(11,885)	(9,309)	(2,686)	(1,141)	(331)	(2,042)	(1,582)	(7,911)	(12,473)	(14,276)	(90,000)
		1,007,752	949,034	882,124	690,952	199,366	84,662	24,579	151,572	117,434	587,172	925,821	1,059,641	6,680,110
61100	Plant Superintendent	1,541	2,311	1,541	1,541	1,541	1,541	2,311	1,541	1,541	1,541	1,541	1,541	20,028
61200	Laboratory Supervisor	2,424	3,636	2,424	2,424	2,424	2,424	3,636	2,424	2,424	2,424	2,424	2,424	31,510
61300	Laboratory Technicians	5,030	7,545	5,030	5,030	5,030	5,030	7,545	5,030	5,030	5,030	5,030	5,030	65,394
61400	Plant Operators	11,458	17,187	11,458	11,458	11,458	11,458	17,187	11,458	11,458	11,458	11,458	11,458	148,950
61450	Maint Supervisor	924	1,387	924	924	924	924	1,387	924	924	924	924	924	12,017
61500	Plant Mechanics	1,745	2,617	1,745	1,745	1,745	1,745	2,617	1,745	1,745	1,745	1,745	1,745	22,680
	Safety Officer	671	1,006	671	671	671	671	1,006	671	671	671	671	671	8,717
	Plant Engineer	1,162	1,743	1,162	1,162	1,162	1,162	1,743	1,162	1,162	1,162	1,162	1,162	15,108
62000	Differential	999	1,498	999	999	999	999	1,498	999	999	999	999	999	12,986
62100	Payroll Taxes & Benefits & OH	12,977	19,465	12,977	12,977	12,977	12,977	19,465	12,977	12,977	12,977	12,977	12,977	168,695
		38,930	58,395	38,930	38,930	38,930	38,930	58,395	38,930	38,930	38,930	38,930	38,930	506,086
63300	Tertiary Treatment	26,110	24,589	22,855	17,902	5,165	2,194	637	3,927	3,043	15,213	23,987	27,454	173,075
63400	MFRO Electrical	36,894	34,744	32,295	25,296	7,299	3,099	900	5,549	4,299	21,496	33,894	38,794	244,560
63500	Secondary Costs - EQ Basin PD Blo	21,803	20,532	19,085	14,949	4,313	1,832	532	3,279	2,541	12,704	20,030	22,925	144,525
		84,807	79,865	74,235	58,147	16,777	7,125	2,068	12,755	9,883	49,413	77,912	89,173	562,160
64100	Polyaluminum chloride	0	0	0	0	0	0	0	0	0	0	0	0	0
	Clearlogx PAX-XL19	0	0	0	0	0	0	0	0	0	0	0	0	0
64200	Aluminum chlorhydrate	0	0	0	0	0	0	0	0	0	0	0	0	0
	Clean-in-place chemicals	3,771	3,552	3,301	2,586	746	317	92	567	439	2,197	3,465	3,966	25,000
64300	Sodium hydroxide	0	0	0	0	0	0	0	0	0	0	0	0	0
64400	Antiscalant	3,877	3,651	3,394	2,658	767	326	95	583	452	2,259	3,562	4,077	25,700
64410	Phenylarsine oxide	136	128	119	93	27	11	3	20	16	79	125	143	900
64420	Acetate buffer solution	38	36	33	26	7	3	1	6	4	22	35	40	250
64430	Iodine solution	38	36	33	26	7	3	1	6	4	22	35	40	250
65100	Chlorine	0	0	0	0	0	0	0	0	0	0	0	0	0
65160	Citric Acid	3,017	2,841	2,641	2,069	597	253	74	454	352	1,758	2,772	3,173	20,000

CAWD/PBCSD Reclamation Project  
Monthly Budget Projections  
2020-21

ACCT No.	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	ANNUAL BUDGET 20-21
Sulfuric Acid	4,526	4,262	3,962	3,103	895	380	110	681	527	2,637	4,158	4,759	30,000
Acetic Acid	121	114	106	83	24	10	3	18	14	70	111	127	800
Sodium Bisulfite	6,789	6,393	5,942	4,655	1,343	570	166	1,021	791	3,955	6,237	7,138	45,000
Sodium Hypochlorite	6,789	6,393	5,942	4,655	1,343	570	166	1,021	791	3,955	6,237	7,138	45,000
Polymer	2,715	2,557	2,377	1,862	537	228	66	408	316	1,582	2,495	2,855	18,000
Gypsum	1,131	1,066	990	776	224	95	28	170	132	659	1,039	1,190	7,500
Miscellaneous chemicals	151	142	132	103	30	13	4	23	18	88	139	159	1,000
Potassium Hydroxide	5,280	4,972	4,622	3,620	1,045	444	129	794	615	3,076	4,851	5,552	35,000
Potassium iodate solution	91	85	79	62	18	8	2	14	11	53	83	95	600
Potassium iodide	339	320	297	233	67	29	8	51	40	198	312	357	2,250
Ammonia Hydroxide	9,052	8,524	7,923	6,206	1,791	760	221	1,361	1,055	5,274	8,316	9,518	60,000
Phosphoric Acid	0	0	0	0	0	0	0	0	0	0	0	0	0
Low Mag Ferric	0	0	0	0	0	0	0	0	0	0	0	0	0
Enzymes	5,280	4,972	4,622	3,620	1,045	444	129	794	615	3,076	4,851	5,552	35,000
	53,140	50,044	46,515	36,435	10,513	4,464	1,296	7,993	6,192	30,962	48,820	55,876	352,250
Repairs & Maintenance	13,577	12,786	11,885	9,309	2,686	1,141	331	2,042	1,582	7,911	12,473	14,276	90,000
Plant Pumps	4,526	4,262	3,962	3,103	895	380	110	681	527	2,637	4,158	4,759	30,000
Laundry	226	213	198	155	45	19	6	34	26	132	208	238	1,500
Lubricants/Packing	151	142	132	103	30	13	4	23	18	88	139	159	1,000
Electrical Supplies	1,810	1,705	1,585	1,241	358	152	44	272	211	1,055	1,663	1,904	12,000
Laboratory Supplies	4,375	4,120	3,830	3,000	865	368	107	658	510	2,549	4,019	4,600	29,000
Paint	0	0	0	0	0	0	0	0	0	0	0	0	0
Postage	75	71	66	52	15	6	2	11	9	44	69	79	500
First Aid Supplies	30	28	26	21	6	3	1	5	4	18	28	32	200
Janitorial Supplies	30	28	26	21	6	3	1	5	4	18	28	32	200
Tertiary Pump Alarm	0	0	0	0	0	0	0	0	0	0	0	0	0
Personnel Supplies	151	142	132	103	30	13	4	23	18	88	139	159	1,000
Hand Tools	151	142	132	103	30	13	4	23	18	88	139	159	1,000
Operating Supplies	0	0	0	0	0	0	0	0	0	0	0	0	0
Safety	603	568	528	414	119	51	15	91	70	352	554	635	4,000
Training	754	710	660	517	149	63	18	113	88	439	693	793	5,000
	26,461	24,919	23,162	18,142	5,235	2,223	645	3,980	3,083	15,417	24,309	27,823	175,400
Microfilter Membrane Modules	15,840	14,917	13,865	10,861	3,134	1,331	386	2,382	1,846	9,229	14,552	16,656	105,000
Annual Cartridge Filter Replacement	1,509	1,421	1,321	1,034	298	127	37	227	176	879	1,386	1,586	10,000
RO Membrane Elements	0	0	0	0	0	0	0	0	0	0	0	0	0
Spare Parts & Outfitting	2,263	2,131	1,981	1,552	448	190	55	340	264	1,318	2,079	2,379	15,000

**CAWD/PBCSD Reclamation Project**  
 Monthly Budget Projections  
 2020-21

ACCT No.	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	ANNUAL
													BUDGET 20-21
	19,612	18,469	17,167	13,446	3,880	1,648	478	2,950	2,285	11,427	18,017	20,621	130,000
Chemical Waste Disposal	75	71	66	52	15	6	2	11	9	44	69	79	500
Plant Instrumentation	5,431	5,114	4,754	3,724	1,074	456	132	817	633	3,164	4,989	5,711	36,000
Fire Extinguisher Service	75	71	66	52	15	6	2	11	9	44	69	79	500
Calibration	1,449	1,365	1,268	993	287	122	35	218	169	844	1,331	1,524	9,605
Contract Laboratory Analysis	845	796	739	579	167	71	21	127	98	492	776	888	5,600
Gypsum Injection System Maintenance	0	0	0	0	0	0	0	0	0	0	0	0	0
Contract Painting	0	0	0	0	0	0	0	0	0	0	0	0	0
System software/IT consulting	0	0	0	0	0	0	0	0	0	0	0	0	0
SAR Equipment Maintenance	3,651	3,438	3,196	2,503	722	307	89	549	425	2,127	3,354	3,839	24,200
Hoist Certification	0	0	0	0	0	0	0	0	0	0	0	0	0
Alarm - Tertiary	53	50	46	36	10	4	1	8	6	31	49	56	350
Alarm - Chlorine	0	0	0	0	0	0	0	0	0	0	0	0	0
Equipment Rent - Ion Chromatograph	38	36	33	26	7	3	1	6	4	22	35	40	250
Demolition	0	0	0	0	0	0	0	0	0	0	0	0	0
Clerfogx rental	0	0	0	0	0	0	0	0	0	0	0	0	0
	11,541	10,869	10,103	7,913	2,283	970	281	1,736	1,345	6,725	10,603	12,136	77,005
Fees & Permits (MBUAPCD)													
Engineering Fees	69100	710	660	517	149	63	18	113	88	439	693	793	5,000
Consulting	69200	4,526	3,962	3,103	895	380	110	681	527	2,637	4,158	4,759	30,000
Membrane Cleaning Pilot	69250	1,509	1,421	1,034	298	127	37	227	176	879	1,386	1,586	10,000
Disposal expense	69350	6,034	5,683	4,137	1,194	507	147	908	703	3,516	5,544	6,345	40,000
	241,279	248,963	216,053	177,668	78,961	55,929	63,330	69,364	62,510	156,829	224,827	251,698	1,847,901
District Engineer	71000	1,810	1,705	1,241	358	152	44	272	211	1,055	1,663	1,904	12,000
Deputy General Manager/CFO	71100	226	213	155	45	19	6	34	26	132	208	238	1,500
Senior Accountant	71200	754	710	517	149	63	18	113	88	439	693	793	5,000
Administrative Assistant	71300	75	71	52	15	6	2	11	9	44	69	79	500
Finance & Info Sys Coordinator	71400	75	71	52	15	6	2	11	9	44	69	79	500
Associate & Assistant Engineers	71400	1,207	1,137	827	239	101	29	182	141	703	1,109	1,269	8,000
Intern (Temp Emp)	71400	75	71	52	15	6	2	11	9	44	69	79	500

CAWD/PBCSD Reclamation Project  
Monthly Budget Projections  
2020-21

ACCT No.	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	ANNUAL BUDGET 20-21
PR Taxes, Benefits & Overhead	2,112	1,989	1,849	1,448	418	177	52	318	246	1,231	1,940	2,221	14,000
	6,336	5,967	5,546	4,344	1,253	532	155	953	738	3,692	5,821	6,662	42,000
Directors Fees	75	71	66	52	15	6	2	11	9	44	69	79	500
Insurance - Property & Liability	1,282	1,208	1,122	879	254	108	31	193	149	747	1,178	1,348	8,500
Insurance - Earthquake	2,715	2,557	2,377	1,862	228	228	66	408	316	1,582	2,495	2,855	18,000
Insurance - FL Dam Failure Liability	1,509	1,421	1,321	1,034	297	127	37	227	176	879	1,386	1,586	10,000
	5,582	5,257	4,886	3,827	1,104	469	136	840	650	3,252	5,128	5,869	37,000
Salaries, Benefits & Overhead:													
Field Maintenance Supervisor	2,263	2,131	1,981	1,552	448	190	55	340	264	1,318	2,079	2,379	15,000
Maintenance Technicians	6,789	6,393	5,942	4,655	1,343	570	166	1,021	791	3,955	6,237	7,138	45,000
PR Taxes, Benefits & O.H.	4,526	4,262	3,962	3,103	896	380	110	681	527	2,637	4,158	4,759	30,000
	13,577	12,786	11,885	9,309	2,686	1,141	331	2,042	1,582	7,911	12,473	14,276	90,000
Potable Water Pump Station - PG&E	151	142	132	103	30	13	4	23	18	88	139	159	1,000
SCADA System: DSL ATM/Telemetr	1,810	1,705	1,585	1,241	358	152	44	272	211	1,055	1,663	1,904	12,000
Wireless Alarm Sys Chg (Mission)	151	142	132	103	30	13	4	23	18	88	139	159	1,000
Forest Lake Treatment Facility (PG&	6,034	5,683	5,282	4,137	1,194	507	147	908	703	3,516	5,544	6,345	40,000
Forest Lake Eyewash Station (CalAn	151	142	132	103	30	13	4	23	18	88	139	159	1,000
Poppy Hill Booster Pump Station - P	226	213	198	155	45	19	6	34	26	132	208	238	1,500
Cathodic Protection	226	213	198	155	45	19	6	34	26	132	208	238	1,500
	8,750	8,240	7,659	5,999	1,731	735	213	1,316	1,020	5,098	8,038	9,200	58,000
Reclamation Source Water	905	852	792	621	179	76	22	136	105	527	832	952	6,000
Water Treatment Cost	9,806	9,234	8,583	6,723	1,940	824	239	1,475	1,143	5,713	9,009	10,311	66,000
4th Fairway Dry Weather Diversion	302	284	264	207	60	25	7	45	35	176	277	317	2,000
	11,013	10,371	9,640	7,551	2,179	925	269	1,656	1,283	6,417	10,117	11,580	73,000
Other Professional Svcs	151	142	132	103	30	13	4	23	18	88	139	159	1,000
Permits	4,375	4,120	3,830	3,000	865	368	107	658	510	2,549	4,019	4,600	29,000
Fuel	377	355	330	259	75	32	9	57	44	220	346	397	2,500
Training & Tuitions	754	710	660	517	149	63	18	113	88	439	693	793	5,000
SCADA System software/IT consultin	754	710	660	517	149	63	18	113	88	439	693	793	5,000
SCADA Platform Support Svcs Subscription	302	284	264	207	60	25	7	45	35	176	277	317	2,000
Reclamation Line Distribution Sys	1,509	1,421	1,321	1,034	298	127	37	227	176	879	1,386	1,586	10,000

**CAWD/PBCSD Reclamation Project**  
Monthly Budget Projections  
2020-21

ACCT No.	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	ANNUAL BUDGET 20-21
76400	905	852	792	621	179	76	22	136	105	527	832	952	6,000
76500	302	284	264	207	60	25	7	45	35	176	277	317	2,000
76600	3,771	3,552	3,301	2,586	746	317	92	567	439	2,197	3,465	3,966	25,000
76700	377	355	330	259	75	32	9	57	44	220	346	397	2,500
76800	151	142	132	103	30	13	4	23	18	88	139	159	1,000
76900	6,034	5,683	5,282	4,137	1,194	507	147	908	703	3,516	5,544	6,345	40,000
77000	151	142	132	103	30	13	4	23	18	88	139	159	1,000
77100	4,526	4,262	3,962	3,103	895	380	110	681	527	2,637	4,158	4,759	30,000
	24,439	23,015	21,392	16,756	4,835	2,053	596	3,676	2,848	14,240	22,452	25,697	162,000
76000	6,034	5,683	5,282	4,137	1,194	507	147	908	703	3,516	5,544	6,345	40,000
77900	453	426	396	310	90	38	11	68	53	264	416	476	3,000
	6,487	6,109	5,678	4,448	1,283	545	158	976	756	3,780	5,960	6,821	43,000
	65,171	61,374	57,047	44,684	12,893	5,475	1,590	9,802	7,594	37,972	59,872	68,527	505,000
81000	114	171	114	114	114	114	171	114	114	114	114	114	1,485
81200	934	1,401	934	934	934	934	1,401	934	934	934	934	934	12,145
81100	58	87	58	58	58	58	87	58	58	58	58	58	755
81400	569	854	569	569	569	569	854	569	569	569	569	569	7,400
82100	838	1,257	838	838	838	838	1,257	838	838	838	838	838	10,893
82100													0
	2,514	3,770	2,514	2,514	2,514	2,514	3,770	2,514	2,514	2,514	2,514	2,514	32,678
84000	0	0	0	0	0	0	0	0	0	0	0	0	0
84100	0	12,000	0	0	7,050	0	0	0	0	0	0	0	19,050
85000	158	149	139	109	31	13	4	24	18	92	146	167	1,050
89400	0	0	0	0	0	0	0	0	0	0	0	0	0
89400	189	178	165	129	37	16	5	28	22	110	173	198	1,250
89500	12,900	0	0	0	0	0	21,964	0	0	0	0	0	34,864
	13,247	12,327	304	238	7,119	29	21,972	52	40	202	319	365	56,214
	15,761	16,097	2,817	2,752	9,632	2,543	25,743	2,566	2,554	2,716	2,832	2,878	88,892

**CAWD/PBCSD Reclamation Project**  
 Monthly Budget Projections  
 2020-21

ACCT No.	ANNUAL BUDGET 20-21											
	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21
General Manager	186	176	163	128	37	16	5	28	22	109	171	196
Admin Services Manager	699	658	612	479	138	59	17	105	81	407	642	735
Accountant	643	606	563	441	127	54	16	97	75	375	591	676
Chief Tech Officer	715	673	626	490	141	60	17	108	83	416	657	752
Payroll Taxes & Benefits & O.H.	663	625	581	455	131	56	16	100	77	386	609	697
	2,907	2,738	2,545	1,993	575	244	71	437	339	1,694	2,671	3,057
CAL-Am Water Meter Svc. Chg.	5,242	4,936	4,588	3,594	1,037	440	128	788	611	3,054	4,816	5,512
Legal Fees	377	355	330	259	75	32	9	57	44	220	346	397
Software Maint Fees	590	556	516	405	117	50	14	89	69	344	542	620
	8,526	8,029	7,463	5,846	1,687	716	208	1,282	994	4,968	7,833	8,965
PBCo / IRWUG Representative	7,624	7,180	6,674	5,227	1,508	641	186	1,147	888	4,442	7,004	8,017
	338,360	341,633	290,054	236,176	104,681	65,304	91,056	84,161	74,540	206,927	302,369	340,084
	669,392	607,401	592,070	454,776	94,685	19,358	(66,477)	67,411	42,894	380,245	623,451	719,557
POTABLE WATER COSTS	1,018	959	891	698	201	86	25	153	119	593	936	1,071
	668,373	606,442	591,179	454,078	94,483	19,273	(66,502)	67,258	42,776	379,652	622,516	718,486
	4,127,353	4,127,353	4,127,353	4,127,353	4,127,353	4,127,353	4,127,353	4,127,353	4,127,353	4,127,353	4,127,353	4,127,353
Interest Income - Reserve Funds	3,017	2,841	2,641	2,069	597	253	74	454	352	1,758	2,772	3,173
Interest Income- Union Bank	15	14	13	10	3	1	0	2	2	9	14	16
Interest Income - Well Fargo/Phase	2	2	2	2	0	0	0	0	0	1	2	2
Water Entitlements	0	0	0	0	0	0	0	0	0	0	0	0
Gain/(loss) on Mkt Value of Securities	2,263	2,131	1,981	1,552	448	190	55	340	264	1,318	2,079	2,379
Interest Income-County	8	7	7	5	1	1	0	1	1	4	7	8
Interest Income - Bank of Amer.	15	14	13	10	3	1	0	2	2	9	14	16
Other Income	0	0	0	0	0	0	0	0	0	0	0	0
Bank Charges - BoA	(19)	(18)	(17)	(13)	(4)	(2)	(0)	(3)	(2)	(11)	(17)	(20)
Bond Carrying Costs	(4,335)	(4,082)	(3,795)	(2,972)	(858)	(364)	(106)	(652)	(505)	(2,526)	(3,982)	(4,558)
	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000
	100	100	100	100	100	100	100	100	100	100	100	100
	15	15	15	15	15	15	15	15	15	15	15	15
	0	0	0	0	0	0	0	0	0	0	0	0
	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000
	50	50	50	50	50	50	50	50	50	50	50	50
	100	100	100	100	100	100	100	100	100	100	100	100
	(125)	(125)	(125)	(125)	(125)	(125)	(125)	(125)	(125)	(125)	(125)	(125)
	(28,735)	(28,735)	(28,735)	(28,735)	(28,735)	(28,735)	(28,735)	(28,735)	(28,735)	(28,735)	(28,735)	(28,735)

CAWD/PBCSD Reclamation Project  
Monthly Budget Projections  
2020-21

ACCT No.	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	ANNUAL BUDGET 20-21
O&M Reserve Funds	0	0	0	0	0	0	0	0	0	0	0	0	0
Contribution to Capital Repl. Fund	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	966	910	846	662	191	81	24	145	113	563	888	1,016	6,405
Interest Income - Construction Fd.	0	0	0	0	0	0	0	0	0	0	0	0	0
Interest Income - Bond Fund	0	0	0	0	0	0	0	0	0	0	0	0	0
Interest Income - W.F.-Construct.	0	0	0	0	0	0	0	0	0	0	0	0	0
Loss on Disposal	0	0	0	0	0	0	0	0	0	0	0	0	0
Interest Expense - COP's	(7,694)	(7,246)	(6,735)	(5,275)	(1,522)	(646)	(188)	(1,157)	(897)	(4,483)	(7,068)	(8,090)	(51,000)
Principal Payment - COP's	(362,061)	(340,965)	(316,926)	(248,242)	(71,627)	(30,417)	(8,831)	(54,456)	(42,191)	(210,957)	(332,625)	(380,703)	(2,400,000)
L/C Carrying Costs	(7,241)	(6,819)	(6,339)	(4,965)	(1,433)	(608)	(177)	(1,089)	(844)	(4,219)	(6,652)	(7,614)	(48,000)
Amortization Expense	(241,374)	(227,310)	(211,284)	(165,495)	(47,751)	(20,276)	(5,887)	(36,304)	(28,128)	(140,638)	(221,750)	(253,802)	(1,600,000)
Interest Pymt to MPWMD	(3,451)	(3,250)	(3,021)	(2,366)	(683)	(290)	(84)	(519)	(402)	(2,011)	(3,170)	(3,629)	(22,875)
Principal Pymt to MPWMD	(75,429)	(71,034)	(66,026)	(51,717)	(14,922)	(6,337)	(1,840)	(11,345)	(8,790)	(43,949)	(69,297)	(79,313)	(500,000)
Interest on Principal Advanced	(10,560)	(9,945)	(9,244)	(7,240)	(2,089)	(887)	(258)	(1,588)	(1,231)	(6,153)	(9,702)	(11,104)	(70,000)
Past L.C. fees/Bond Carry Cost payable	(83,274)	(78,422)	(72,893)	(57,096)	(16,474)	(6,996)	(2,031)	(12,525)	(9,704)	(48,520)	(76,504)	(87,562)	(552,000)
Subtotal	(791,083)	(744,990)	(692,466)	(542,396)	(156,502)	(66,460)	(19,295)	(118,984)	(92,186)	(460,929)	(726,768)	(831,817)	(5,243,875)
	(790,117)	(744,080)	(691,620)	(541,733)	(156,310)	(66,378)	(19,271)	(118,839)	(92,073)	(460,366)	(725,860)	(830,801)	(5,237,470)
	119,630	89,672	110,842	77,839	(14,076)	(26,828)	(79,886)	(15,277)	(21,170)	59,923	118,386	141,488	483,133



CAWD/PBCSD Reclamation Project  
 Non-Operating Expenses  
 Fiscal Year 2020-21

ITEM	Acct No.	Actual 18-19	Estimated Actual 2019-20	2019-20 Budget	2020-21 Budget	Proposed 2020-21 Budget	Comments
<b>NON-OPERATING EXPENSES:</b>							
Project - Bond Carrying Costs	99956	20,442	19,493	28,735	28,735	28,735	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	275	87	125	125	125	Stop payments (0 @ \$20) & wire transfer fees (5 @ \$25)
L/C Carrying Costs	99959	100,690	76,971	93,228	48,000	48,000	Letter of Credit \$4K per month
COP Interest Expense	99958	129,980	90,207	150,000	51,000	51,000	Assumes 1.00% on \$1,100,000
COP Principal Payment	22041	2,100,000	2,300,000	2,300,000	2,400,000	2,400,000	Per COP Schedule
Interest on Principal Advanced	99957	62,895	71,000	71,360	70,000	70,000	
Past LC fees/Bond Carry Cost payable	22041	552,000	552,000	552,000	552,000	552,000	\$5,520,000 monthly through 2022 (10 years)
Interest Payment to MPWMD		0	15,250	29,500	22,875	22,875	Assume \$1M @ 3.05%, payable semi-annually
Funding Agreement with MPWMD		0	(1,000,000)	(1,000,000)	500,000	500,000	
R & D Water Sources		2,375	0	0	0	0	
Abandoned Well Costs/R&D Water Costs		15,593	0	0	0	0	
Contribution to Capital Replacement Fund	11.1	0	0	0	0	0	Goal \$2M in 2022 ; current balance \$1.1M
Amortization Exp	99962	1,663,234	1,617,720	1,600,000	1,600,000	1,600,000	
<b>TOTAL NON OPERATING EXPENSES</b>		<b>4,647,484</b>	<b>3,742,728</b>	<b>3,824,948</b>	<b>5,272,735</b>	<b>5,272,735</b>	<b>37.85% increase from 19-20 budget</b> <b>40.88% increase from projected YTD 19-20 actual</b>

COP	Payment 07/01	Year
	2,300,000	2020
	2,400,000	2021
	2,500,000	2022
	2,600,000	2023
	9,800,000	

  

MPWMD	10/31/20	Interest
	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 2020-21

CAWD/PBCSD Reclamation Project											
FY 2020/21 thru 2025/26											
Project #	PROJECT	20/21	21/22	22/23	23/24	24/25	25/26	Unscheduled			
<b>CAPITAL PROJECTS</b>											
1	CAWD WWTP Phase 2 - Reclamation Share	\$ 117,400	\$ 269,000								
2	CAWD WWTP Flood Adaptation - Reclamation Share	\$ 15,000									
3	CAWD Sulfuric/Citric Chemical Storage and Feed Project	\$ 290,000									
4	CAWD Asset Analysis		\$ 50,000								
5	CAWD Cathodic Protection Testing of Reclamation line		\$ 40,000								
6	CAWD Painting of Tertiary Building and Pad		\$ 25,000	\$ 25,000	\$ 25,000						
7	CAWD Floor Drain Improvements		\$ 15,000								
8	CAWD Ammonia Tank Replacement			\$ 60,000							
9	CAWD Cerium Chloride Bulk Tank				\$ 75,000						
10	PBCSD Pipeline Cathodic Protection (Carmel)	\$ 250,000									
11	PBCSD Poppy Hills Tank Rehabilitation Project	\$ 50,000									
<b>CAPITAL PURCHASES</b>											
a	CAWD Laboratory Ion Chromatograph (10% CAWD)		\$ 150,000								
b	CAWD Versatile Titrator (50% CAWD)	\$ 38,965									
c	CAWD DAF Poly Blend Unit M60-P1AA (50% CAWD)	\$ 22,500									
d	CAWD Laboratory Muffle Furnace (50% CAWD)		\$ 13,500								
e	CAWD Laboratory BOD Incubator (50% CAWD)		\$ 13,000								
f	CAWD Laboratory Autoclave (50% CAWD)		\$ 16,000								
g	PBCSD Flow Meter Remote Measuring System		\$ 100,000								
h	PBCSD Forest Lake Chemical Feed System	\$ 50,000									
i	PBCSD Forest Lake Fence Replacement	\$ 35,000									
j	PBCSD										
<b>Total</b>		\$ 868,865	\$ 675,500	\$ 101,000	\$ 100,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
RECLAMATION Share		\$ 838,133	\$ 647,250	\$ 68,000	\$ 100,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PBCSD Share		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CAWD Share		\$ 30,733	\$ 28,250	\$ 8,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Allocated Total		\$ 868,865	\$ 675,500	\$ 76,000	\$ 100,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

**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	\$1,213	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	866.68	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 (est.)	0.00	1,073.00	1,073.00	6,678,006.67	\$6,807	6.01%
2020-21 (budget)	0.00	1,000.00	1,000.00	6,770,110.45	\$6,770	1.38%

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	-26.44%
Aug-19	0.00	155.00	155.00	776,422.00	5,009.00	-26.41%
Sep-19	0.00	139.00	139.00	729,402.00	5,247.00	-22.92%
Oct-19	0.00	127.00	127.00	697,805.00	5,495.00	-19.27%
Nov-19	0.00	51.00	51.00	481,889.00	9,449.00	38.81%
Dec-19	0.00	2.00	2.00	343,410.00	171,705.00	2422.48%
Jan-20	0.00	3.00	3.00	346,009.00	115,336.00	1594.37%
Feb-20	0.00	46.00	46.00	466,461.00	10,140.00	48.96%
Mar-20	0.00	19.00	19.00	391,008.00	20,579.00	202.32%
Apr-20 est.	0.00	86.00	86.00	812,614.00	9,449.00	38.81%
May-20 est.	0.00	135.60	135.60	711,493.20	5,247.00	-22.92%
Jun-20 est.	0.00	155.20	155.20	777,086.40	5,007.00	-26.44%
YTD	0.00	1,073.80	1,073.80	7,309,699.60	6,807.00	0.00%

Actual 2018-19	Potable AF	Reclaimed AF	Total AF	Total Water Sales	Cost per AF	Cost per AF Actual Variance
Jul-18	0.00	155.00	155.00	748,286.47	4,828.00	-30.30%
Aug-18	0.00	142.00	142.00	711,975.75	5,014.00	-27.62%
Sep-18	0.00	116.00	116.00	640,115.81	5,518.00	-20.34%
Oct-18	0.00	103.00	103.00	605,106.78	5,875.00	-15.19%
Nov-18	0.00	50.00	50.00	455,846.26	9,117.00	31.62%
Dec-18	15.37	2.00	17.37	322,565.99	18,570.00	168.08%
Jan-19	0.00	4.00	4.00	329,559.00	82,390.00	1089.40%
Feb-19	0.00	1.00	1.00	321,534.00	321,534.00	4541.75%
Mar-19	0.00	6.00	6.00	334,032.00	55,672.00	703.70%
Apr-19	0.00	80.00	80.00	541,295.00	6,766.00	-2.32%
May-19	0.00	88.00	88.00	562,367.00	6,391.00	-7.74%
Jun-19	0.00	147.00	147.00	726,727.00	4,944.00	-28.63%
YTD	15.37	894.00	909.37	6,299,411.06	6,927.00	0.00%

Actual 2017-18	Potable AF	Reclaimed AF	Total AF	Total Water Sales	Cost per AF	Cost per AF Actual Variance
Jul-17	0.00	150.00	150.00	717,069.31	4,780.00	-22.05%
Aug-17	0.00	126.00	126.00	647,879.51	5,142.00	-16.14%
Sep-17	0.00	143.00	143.00	698,385.46	4,884.00	-20.35%
Oct-17	0.00	116.00	116.00	617,767.03	5,326.00	-13.14%
Nov-17	0.00	24.00	24.00	342,413.36	14,267.00	132.66%
Dec-17	0.00	52.00	52.00	426,555.58	8,203.00	33.77%
Jan-18	0.00	6.00	6.00	288,535.53	48,089.00	684.23%
Feb-18	0.00	40.00	40.00	390,457.71	9,761.00	59.18%
Mar-18	0.00	10.00	10.00	300,832.37	30,083.00	390.69%
Apr-18	0.00	53.00	53.00	427,819.40	8,072.00	31.64%
May-18	0.00	151.00	151.00	720,678.50	4,773.00	-22.16%
Jun-18	0.00	161.00	161.00	749,908.68	4,658.00	-24.04%
YTD	0.00	1,032.00	1,032.00	6,328,302.44	6,132.00	0.00%

1 AF = 43,560 cu ft

Operating Costs - billed per AF usage	
Operating Expenses	2,559,507.95
MPWMD fee	90,000.00
	<u>2,649,507.95</u>
Estimated AF	1,000.00
Price per AF	2,649.51

Non Operating Costs - billed per Agreement %	
Non Operating Expenses	3,637,470.00
Capital Budget	838,132.50
Prior Yr Capital Projects (rollover)	(355,000.00)
	<u>4,120,602.50</u>

		Monthly
MPCC-Dunes	12.13%	41,635.25
MPCC-Shore	12.13%	41,635.25
Cypress Point	12.13%	41,635.25
Poppy Hills	12.13%	41,635.25
Pebble Beach	12.13%	41,635.25
Spyglass Hill	12.13%	41,635.25
Spanish Bay	12.13%	41,635.25
PB Range	3.63%	12,447.65
Peter Hay	3.50%	12,018.42
PB Resorts	3.50%	12,018.42
Equestrian Center	3.00%	10,301.51
Stevenson School	1.50%	5,150.75
	100.00%	343,383.54

## CAWD/PBCSD Reclamation Project

Cash Flow Analysis

As of March 31, 2020

Projected to June 30, 2020

Unrestricted cash per Balance Sheet at 6-30-13		1,289,200.47
Net Income per Income Statement at 6-30-14		1,541,422.40
Net Income per Income Statement at 6-30-15		1,458,758.12
Net Income per Income Statement at 6-30-16		1,224,125.25
Net Income per Income Statement at 6-30-17		1,640,115.74
Net Income per Income Statement at 6-30-18		2,161,733.90
Net Income per Income Statement at 6-30-19		1,685,371.22
Net Income per Income Statement at 03-31-20		2,850,108.37
Amortization at 6-30-14	1,585,572.00	
Amortization at 6-30-15	1,589,847.00	
Amortization at 6-30-16	1,592,269.00	
Amortization at 6-30-17	1,607,679.00	
Amortization at 6-30-18	1,617,720.00	
Amortization at 6-30-19	1,663,234.00	
Amortization at 3-31-20	0.00	
A/R at 3-31-20	(622,245.97)	
A/R at 6-30-13	1,518,947.77	
Other a/r at 3-31-20	(12,296.30)	
Other a/r at 6-30-13	15,337.58	
Capital at 3-31-20	(2,676,347.27)	
Capital at 6-30-13	8,104.11	
Water resale rights 3-31-20	(66,529,277.44)	
Water resale rights 6-30-13	63,232,989.26	
Restricted cash at 3-31-20	(1,175.55)	
Restricted cash at 6-30-13	1,136.12	
A/P at 3-31-20	913,294.84	
A/P at 6-30-13	(147,777.11)	
N/P - MPWMD 3-31-20	1,000,000.00	
NP - MPWMD 6-30-13	0.00	
Due to MPWMD 3-31-19	68,832.34	
Due to MPWMD 6-30-13	(171,097.22)	
Accrual to Cash adjustments		6,254,746.16

**CAWD/PBCSD Reclamation Project**

Cash Flow Analysis

As of March 31, 2020

Projected to June 30, 2020

PBCo COP payments FYE 6-30-14	(1,700,000.00)	
PBCo prior bond cost payments FYE 6-30-14	(552,000.00)	
PBCo working capital payments FYE 6-30-14	(1,641,213.00)	
PBCo COP payments FYE 6-30-15	(552,000.00)	
PBCo prior bond cost payments FYE 6-30-15	(1,700,000.00)	
PBCo COP payments FYE 6-30-16	(1,800,000.00)	
PBCo prior bond cost payments FYE 6-30-16	(552,000.00)	
PBCo COP payments FYE 6-30-17	(1,900,000.00)	
PBCo prior bond cost payments FYE 6-30-17	(552,000.00)	
PBCo COP payments FYE 6-30-18	(2,000,000.00)	
PBCo prior bond cost payments FYE 6-30-18	(552,000.00)	
PBCo COP payments FYE 6-30-19	(2,100,000.00)	
PBCo prior bond cost payments FYE 6-30-19	(552,000.00)	
PBCo COP payments at 3-31-20	(1,725,000.03)	
PBCo prior bond cost payments at 3-31-20	(414,000.00)	
Debt payments		(18,292,213.03)
Unrestricted Cash per Balance Sheet at 3-31-20		1,813,368.60
Unrestricted cash per Balance Sheet at 6-30-13		(1,289,200.47)
Increase (Decrease) in Unrestricted cash 3-31-20		<u>524,168.13</u>
Cash receipts-April estimated		380,000.00
Cash receipts-May estimated		539,447.00
Cash receipts-June estimated		679,581.00
Cash disbursements-April estimated		(425,000.00)
Cash disbursements-May estimated		(400,000.00)
Cash disbursements-June estimated		(450,000.00)
Estimated Increase (Decrease) in Unrestricted cash 6-30-20		<u>848,196.13</u>

1 **FY 2020-21 Budget**  
CAWD/PBCSD Reclamation Project

Project Name: WWTP Phase 2 - Reclamation Share  
Agency: CAWD  
Total Cost: \$ 422,400  
CY Budget \$ 117,400

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 preparing to bid the Elec/Mech Rehab and Sludge Holding Tank Project which includes new electrical equipment for the Effluent Building and new power feeder to the Laboratory. These are components of this much larger project that are attributable to reclamation. Currently it is estimated that about 4% of the total project is attributable to Reclamation, however the actual cost split will be determined 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**

The 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.

**Budget Impact/Other**

	Prior Yr	20-21	21-22	22-23	23-24	24-25	Total
Labor		\$ 57,200	\$ 134,500				\$ 191,700
Engineering	\$ 36,000	\$ 2,000					\$ 38,000
Parts & Supplies		\$ 58,200	\$ 134,500				\$ 192,700
Chemicals							\$ -
Utility							\$ -
Other							\$ -
<b>Total</b>	<b>\$ 36,000</b>	<b>\$ 117,400</b>	<b>\$ 269,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 422,400</b>

3 **FY 2020-21 Budget**  
CAWD/PBCSD Reclamation Project

Project Name: Secondary Eff Diversion Flood Mitigations  
Agency: CAWD  
Total Cost: \$ 15,000  
CY Budget \$ 15,000

Contact: Treanor  
Area: Secondary Effluent Diversion  
Asset Type: Hatch  
Avg Useful Lif: 30 years  
Est Residual Li: NA  
% Consumed L: NA  
Category: Capital Improvement  
Urgency: Medium  
Carry Forward: NA

**Asset Description**

CAWD has recently completed a sea level rise study which noted a few low lying assets that need to be flood proofed in the near term. One of these assets is the Secondary Effluent Diversion Box which was built by the Reclamation project to divert flow to the Tertiary treatment system. The structure conveys water coming in and out of the Chlorine Contact Channels and includes hatches on the top of the structure at ground level. This project would entail installing a flood proof cover over the existing hatches to keep flood waters from leaking into the treated water.

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

**Justification**

The Secondary Effluent Diversion Box was installed into the main conveyance system at the Chlorine Contact Channels to divert water to the Reclamation System. Adding flood tight covers is prudent to avoid flood waters leaking into the main conveyance system and potentially causing backups.

**Budget Impact/Other**

	Prior Yr	20-21	21-22	22-23	23-24	24-25	Total
Labor							\$ -
Engineering							\$ -
Parts & Supplies		\$ 15,000					\$ 15,000
Chemicals							\$ -
Utility							\$ -
Other							\$ -
<b>Total</b>		<b>\$ 15,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 15,000</b>



2 **FY 2020-21 Budget**  
CAWD/PBCSD Reclamation Project

Project Name: Sulfuric/Citric Chemical Storage and Feed Project  
Agency CAWD  
Total Cost: \$ 290,000  
CY Budget \$ 290,000

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: NA

**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. Trussell Engineers was contracted to design an adequate chemical storage and feed system for Sulfuric Acid and Citric Acid system. 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.

<b>Budget Impact/Other</b>							
	Prior Yr	20-21	21-22	22-23	23-24	24-25	Total
Labor		\$ 100,000					\$ 100,000
Engineering		\$ 40,000					\$ 40,000
Parts & Supplies		\$ 150,000					\$ 150,000
Chemicals							\$ -
Utility							\$ -
Other							\$ -
<b>Total</b>		<b>\$ 290,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 290,000</b>

4 **FY 2020-21 Budget**  
CAWD/PBCSD Reclamation Project

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

Project Name: Asset Analysis  
Agency CAWD  
Total Cost: \$ 50,000  
CY Budget

**Asset Description**

The assets at the Tertiary Building and MF/RO Pad have not evaluated for condition and estimated remaining useful life in order to develop long term capital budget planning. This study would create an asset registry with remaining useful life and replacement cost estimates for long term planning.

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

**Justification**

Long Term Budget Planning

**Budget Impact/Other**

	Prior Yr	20-21	21-22	22-23	23-24	24-25	Total
Labor							\$ -
Engineering			\$ 50,000				\$ 50,000
Parts & Supplies							\$ -
Chemicals							\$ -
Utility							\$ -
Other							\$ -
<b>Total</b>		\$ -	\$ 50,000	\$ -	\$ -	\$ -	\$ 50,000

5 **FY 2020-21 Budget**  
CAWD/PBCSD Reclamation Project

Contact: Treanor  
Area Reclaimed Water Pipeline  
Asset Type: Piping (Buried)  
Avg Useful Lif 100 years  
Est Residual Li 80 years  
% Consumed L 20%  
Category: Maintenance  
Urgency: Med  
Carry Forward: No

Project Name: Cathodic Protection Testing of Reclamation line  
Agency CAWD  
Total Cost: \$ 40,000  
CY Budget \$ -

**Asset Description**

Cathodic protection is used to protect the Reclamation Pipeline. CAWD is responsible for maintenance of the Reclamation Pipeline on the CAWD WWTP property to the gate at Lasuen Dr on the North Side of the River. The District will test the Cathodic protection system to maintain knowledge of the condition of the critical underground process piping and assess whether the existing cathodic protection system is functioning properly.

Year Built: 1992  
Rehabilitation Date (Extending life of Asset): NA  
Rehab Life Extension: NA

**Justification**

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

**Budget Impact/Other**

	Prior Yr	20-21	21-22	22-23	23-24	24-25	Total
Labor							\$ -
Engineering			\$ 40,000				\$ 40,000
Parts & Supplies							\$ -
Chemicals							\$ -
Utility							\$ -
Other							\$ -
<b>Total</b>		\$ -	\$ 40,000	\$ -	\$ -	\$ -	\$ 40,000

6 FY 2020-21 Budget  
CAWD/PBCSD Reclamation Project

Project Name: Painting of Tertiary Building and Pad  
Agency CAWD  
Total Cost: \$ 75,000  
CY Budget \$ -

Contact: Waggoner  
Area Tertiary MF/RO  
Asset Type: Building Machinery  
Avg Useful Life: 20 years  
Est Residual Life: 3 years  
% Consumed Life: 85  
Category: Maintenance  
Urgency: Important  
Carry Forward: Yes

Asset Description

Piping, structures, and mechanical equipment that are exposed to the elements require protective coatings to maintain the assets from corrosion and UV degradation.

Year Built: 1993  
Rehabilitation Date (Extendng life of Asset): N/A  
Rehab Life Extension: N/A

Justification

To protect equipment from corrosion and UV degradation. Removing rust and repainting assets will prolong their life.

Budget Impact/Other

	Prior Yr	20-21	21-22	22-23	23-24	24-25	Total
Labor							\$ -
Engineering							\$ -
Parts & Supplies			\$ 25,000	\$ 25,000	\$ 25,000		\$ 75,000
Chemicals							\$ -
Utility							\$ -
Other							\$ -
<b>Total</b>		\$ -	\$ 25,000	\$ 25,000	\$ 25,000	\$ -	\$ 75,000

7 **FY 2020-21 Budget**  
CAWD/PBCSD Reclamation Project

Project Name: Floor Drain Improvements  
Agency CAWD  
Total Cost: \$ 15,000  
CY Budget \$ -

Contact: Waggoner  
Area MF/RO  
Asset Type: Pipe (Process Buried)  
Avg Useful Life: 30  
Est Residual Life: 20  
% Consumed Life: 30  
Category: Capital Improvement  
Urgency: 3=Important  
Carry Forward: Yes

**Asset Description**

The floor drains are located throughout the MF/RO structure to drain certain equipment and for house keeping in those areas where work is being performed.

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

**Justification**

There are areas on floor of the MF/RO structure that have continuously accumulated water which is causing safety hazards from these wet/slippery areas. Improvements include saw cutting cement and placing in corrosion resistant prefabricated drainage channels and new catch basins.

**Budget Impact/Other**

	Prior Yr	20-21	21-22	22-23	23-24	24-25	Total
Labor			\$ 5,000				\$ 5,000
Engineering							\$ -
Parts & Supplies			\$ 10,000				\$ 10,000
Chemicals							\$ -
Utility							\$ -
Other							\$ -
<b>Total</b>		<b>\$ -</b>	<b>\$ 15,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 15,000</b>

**8 FY 2020-21 Budget**  
CAWD/PBCSD Reclamation Project

Project Name: Ammonia Tank Replacement  
Agency CAWD  
Total Cost: \$ 60,000  
CY Budget \$ -

Contact: Waggoner  
Area Tertiary  
Asset Type: Process Equip (Liquid)  
Avg Useful Lif 15  
Est Residual Li 2  
% Consumed L 87  
Category: Capital Equipment  
Urgency: Important  
Carry Forward: yes

**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: 2

**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	20-21	21-22	22-23	23-24	24-25	Total
Labor				\$ 15,000			\$ 15,000
Engineering				\$ 10,000			\$ 10,000
Parts & Supplies				\$ 35,000			\$ 35,000
Chemicals							\$ -
Utility							\$ -
Other							\$ -
<b>Total</b>		\$ -	\$ -	\$ 60,000	\$ -	\$ -	\$ 60,000

9 **FY 2020-21 Budget**  
CAWD/PBCSD Reclamation Project

Project Name: Cerium Chloride Bulk Tank  
Agency CAWD  
Total Cost: \$ 75,000  
CY Budget \$ -

Contact: Waggoner  
Area Tertiary  
Asset Type: Process Equip(Liquid)  
Avg Useful Life: 15  
Est Residual Life: 3  
% Consumed Life: 80  
Category: Capital equipment  
Urgency: important  
Carry Forward: yes

**Asset Description**

Currently, the bulk (500 gallon) plastic tank that was used for Ferric Chloride located on the Southwest side of the tertiary building.

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

**Justification**

The old Ferric Chloride Tank is only 500 gallons and is not have double containment. To upgrade to double containment and install a larger tank 2,000 gallons. This 2,000 gallon tank would allow staff to purchase the Cerium Chloride in bulk at a reduced pricing. This tank would also eliminate the use of 250 gallons totes that the operation staff manually transports on the tertiary building floor.

**Budget Impact/Other**

	Prior Yr	20-21	21-22	22-23	23-24	24-25	Total
Labor					\$ 15,000		\$ 15,000
Engineering					\$ 10,000		\$ 10,000
Parts & Supplies					\$ 40,000		\$ 40,000
Chemicals							\$ -
Utility							\$ -
Other					\$ 10,000		\$ 10,000
<b>Total</b>		\$ -	\$ -	\$ -	\$ 75,000	\$ -	\$ 75,000





## Barbara Buikema

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**From:** Nick Becker <NBecker@pbcSD.org>  
**Sent:** Tuesday, May 5, 2020 2:42 PM  
**To:** reitzb; Barbara Buikema  
**Cc:** Justin Ferron; mniccum@pbcSD.org; heuckd@pebblebeach.com; JJ West  
**Subject:** RE: Project Description Request for \$100K Water Meter Capital Budget Item

Brent,

Please see below for Project Descriptions along with a rough cost benefit for the Water Meter Capital Project.

### Capital Projects

#### 10. PBCSD Pipeline Cathodic Protection (Carmel)

Project Description: The Recycled water transmission main throughout the City of Carmel is not protected against corrosion. A cathodic protection system was scheduled to be designed and installed in FY2018/19 to reduce the potential for corrosion and extend the useful life of the pipeline.

*Project Cost: \$250k*

### Capital Equipment

#### g. PBCSD Flow Meter Remote Measuring System

Replacement of irrigation meters and installation of remote transmitters to allow daily recycled water meter readings to be recorded and reported automatically. Currently PBCSD staff read and record daily meter readings by driving the meter route and collecting data; this data is then inputted into daily log and used for distribution. Upgrading the metering and reporting system would reduce the number of labor hours currently used for collecting and inputting data. The Reclamation Project spends approximately \$20k per year collecting and inputting this data.

*Project Cost (Option No.01): \$100k\_Full Meter Replacement + Remote Transmitter*

*Project Cost (Option No.02): \$50k\_Meter Interface Unit (MIU) Replacement + Remote Transmitter*

The Cost/Benefit of this project would be in the range of 2.5 – 5yrs (meaning the system would pay for itself within a period of 2.5-5yrs depending on selection of option)

I hope this helps.....let me know if you have any additional questions.

Regards,

-Nick



**Nicholas R. Becker, P.E.**  
District Engineer  
Pebble Beach Community Services District  
(831) 647-5605