

CAWD/PBCSD RECLAMATION
PROJECT

2019-20 BUDGET

Reviewed by Finance Officer's Work Group (FOWG) on April 26, 2019

Reviewed by Technical Advisory Committee (TAC) on May 1, 2019

Presented to Reclamation Management Committee (RMC) on May 8, 2019

CAWD/PBCSD Reclamation Project
2019-20

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**CAWD/PBCSD RECLAMATION PROJECT
2019-20 BUDGET SUMMARY**

	Actual 2017-18	Projected Actual 2018-19	2018-19 Budget	Proposed 2019-20 Budget	Inc/(Dec) Proj. Actual 18-19	Proposed to Budget 18-19
User Revenue						
Water Sales	3,075,040	2,784,704	2,784,704	2,826,801	1.51%	1.51%
Non Operating Share	3,253,262	3,811,820	3,811,820	4,048,615	6.21%	6.21%
Operating Expenses						
Plant Operating Expenses	1,357,335	1,836,671	2,010,584	2,008,963	9.38%	-0.08%
PBCSD Expenses	498,487	431,925	500,000	525,000	21.55%	5.00%
CAWD Admin. Expenses	78,339	91,073	76,523	88,384	-2.95%	15.50%
MPWMD Admin. Expenses	50,400	35,297	49,598	57,166	61.96%	15.26%
PBCo / IRWUG Expenses	47,715	48,595	48,000	50,539	4.00%	5.29%
Potable Water Costs	6,594	87,508	6,750	6,750	-92.29%	0.00%
MPWMD fee	83,816	103,398	100,000	90,000	-12.96%	-10.00%
	<u>2,122,686</u>	<u>2,634,467</u>	<u>2,791,455</u>	<u>2,826,801</u>	<u>7.30%</u>	<u>1.27%</u>
Operating Income/(Loss) before Amortization	<u>4,205,616</u>	<u>3,962,057</u>	<u>3,805,069</u>	<u>4,048,615</u>	<u>2.18%</u>	<u>6.40%</u>
Non Operating Revenues/(Expenses)						
Interest Income	(5,236)	22,350	32,425	27,850	24.61%	-14.11%
Bond Carrying Costs	(27,600)	(26,409)	(28,735)	(28,735)	8.81%	0.00%
Bank charges	(111)	(185)	(125)	(125)	-32.43%	0.00%
Interest to MPWMD	0	0	0	(29,500)	n/a	n/a
LC Carrying Costs	(121,690)	(105,926)	(112,020)	(93,228)	-11.99%	-16.78%
COP Interest Expense	(129,309)	(99,932)	(174,440)	(150,000)	50.10%	-14.01%
COP Principal Payment	(2,000,000)	(2,100,000)	(2,100,000)	(2,300,000)	9.52%	9.52%
Interest on Principal Advanced	(56,567)	(56,487)	(39,000)	(71,360)	26.33%	82.97%
Past LC fees/Bond Carry Cost	(552,000)	(552,000)	(552,000)	(552,000)	0.00%	0.00%
Other Revenue/(Expense)	86,574	(2,375)	0	0	-100.00%	n/a
	<u>(2,805,940)</u>	<u>(2,920,963)</u>	<u>(2,973,895)</u>	<u>(3,197,098)</u>	<u>9.45%</u>	<u>7.51%</u>
Income/(Loss) before Capital	<u>1,399,677</u>	<u>1,041,094</u>	<u>831,174</u>	<u>851,517</u>	<u>-18.21%</u>	<u>2.45%</u>
Capital Budget						
Purchases	129,507	31,031	176,054	38,879	25.29%	-77.92%
Improvement Projects	525,065	1,663,915	1,222,500	2,162,000	29.93%	76.85%
	<u>654,572</u>	<u>1,694,946</u>	<u>1,398,554</u>	<u>2,200,879</u>	<u>29.85%</u>	<u>57.37%</u>
Net Income/(Loss)	<u>745,105</u>	<u>(653,852)</u>	<u>(567,380)</u>	<u>(1,349,362)</u>	<u>106.37%</u>	<u>137.82%</u>
Contribution from MPWMD loan	0	0		1,000,000		
Rollover from Prior Year Capital*	0	567,380	567,380	349,362		
Balanced Net Income	<u>745,105</u>	<u>(86,472)</u>	<u>0</u>	<u>0</u>	<u>-100.00%</u>	<u>-100.00%</u>
Amortization Exp	<u>1,617,720</u>	<u>1,617,720</u>	<u>1,592,200</u>	<u>1,600,000</u>	<u>-1.10%</u>	<u>0.49%</u>

**CAWD/PBCSD RECLAMATION PROJECT
REVENUE PROJECTIONS
FY 2019-20**

Description	Acct. No.	Actual 2017-18	Estimated Actual 2018-19	2018-19 Budget	Proposed 2019-20 Budget	Comments
Revenue						
Interest Income - County	99906	20	28	200	100	O&M operating funds are on deposit with the County of Monte
Interest Income - Bank of America	99904	155	159	125	150	Water sales revenue funds are invested in money market acc
Interest Income- (O&M Reserve & Cap Repl)	99908	25,065	24,670	32,000	27,500	Renewal & replacement funds invested in highly rated comm'l
Gain (loss) on Securities	99936	(30,519)	(2,564)	0	0	
Interest Income - Union Bank (O&M)	99910	36	44	100	100	Payables account
Interest Income - Wells Fargo Escrow Acct	99912	8	14	0	0	
Other Revenue	99945	1,810	0	0	0	Product return - Allied Fluids
Water Sales (inc. late pmts)	52000	3,075,040	2,784,704	2,784,704	2,826,801	See schedule p. 17
Fixed Cost Charge		3,253,262	3,811,820	3,811,820	4,048,615	
MPWMD fees (8.325%)	53000	(83,816)	(103,398)	(100,000)	(90,000)	Increase due to resumption of Districts User Fee on Cal-Am b
TOTAL REVENUE		6,241,061	6,515,476	6,528,949	6,813,267	3.90% increase from 18-19 budget 4.11% increase from 18-19 Projected actual

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 2019-20**

ITEM	Acct No.	Actual 2017-18	Estimated Actual 2018-19	2018-19 Budget	Proposed 2019-20 Budget	Comments/Notes
PLANT OPERATING EXPENSES:						
Plant Salaries, Benefits & Overhead						
Plant Superintendent	61100	22,045	25,240	22,460	26,000	Based on 275 hours
Laboratory Supervisor	61200	36,372	31,002	40,310	31,935	Based on 575 hours
Laboratory Technicians	61300	53,519	62,399	55,865	64,275	Based on 1,500 hours
Plant Operators	61400	146,156	150,201	140,430	154,710	Based on 3,000 hours
Maintenance Supervisor	61450	3,350	11,871	11,415	12,230	Based on 450 hours
Maintenance Mechanics	61500	15,013	26,062	12,445	26,845	Based on 500 hours
Safety Officer		0	4,712	0	3,500	
Plant Engineer		0	0	30,000	15,000	Moved from CAWD Admin dept - Sulfuric acid project
Differential PR	62000	0	12,108	12,255	12,475	
Payroll Taxes, Benefits & Indirect Overhead	62100	11,419	161,797	162,590	173,484	
TOTAL PLANT SALARIES		287,874	485,392	487,770	520,453	COLA 3.0%
Energy Cost						
Tertiary Operations	63300	157,723	157,850	190,000	169,847	7.6% PG&E Projected Increase, start Coag/Floc & sand filters for irrigation season
MF/RO Pad	63400	199,049	221,641	225,000	238,486	7.6% PG&E Projected Increase
Secondary Costs - EQ Basin PD Blower	63500	150,569	148,362	170,000	159,638	7.6% PG&E Projected Increase
SUBTOTAL		507,341	527,853	585,000	567,970	
Chemical Costs:						
Polyaluminum chloride	64100	3,242	0	0	0	Clear logics Offline
Clearlogx PAX-XL19		8,595	0	0	0	Clear logics Offline
Aluminum chlorohydrate		3,648	0	0	0	Clear logics Offline
Clean-in-place chemicals						
Antiscalant	64200	12,528	16,059	24,000	20,000	on cleaning
Phenylarsine oxide	64400	20,055	24,963	23,865	25,700	3% increase, H2O recommendation as part of the RO recovery project
Acetate buffer solution	64420	1,087	827	850	900	Used for Chlorine Residual Titrations.
Iodine solution	64430	43	0	250	250	Used for Chlorine Residual Titrations.
Chlorine	65100	196	0	250	250	Used for Chlorine Residual Titrations.
Citric Acid	65160	1,147	0	0	0	Gas Chlorine no longer used at the facility
Sulfuric Acid	65170	7,340	7,316	7,000	8,000	Increase as staff is no longer using Phosphoric Acid on Maintenance washes on MF
Acetic Acid	65180	19,112	23,514	28,400	35,000	First full year of actual usage of the dosing system
Sodium Bisulfite	65200	781	484	1,030	600	Used for Chlorine Residual analyzers for discharge permit compliance
Sodium Hypochlorite	65250	33,121	65,283	55,000	57,200	4% cost increase from supplier, Purchasing timing
Polymer	65400	19,010	44,981	20,000	52,000	15.4% cost increase from supplier, Purchasing timing
		7,897	3,709	19,000	12,000	Used to coagulate MF waste flow to DAFT, and coagulant to MF
Gypsum						
Miscellaneous chemicals	65500	0	0	4,700	7,500	Rehabilitated Gypsum Silo, adding alkalinity to RO product water and pH adjustment
Potassium Hydroxide	65600	1,185	1,462	4,000	3,000	Misc solutions for analyzer chemicals and calibration chemicals
Potassium iodate solution	65700	93,109	46,033	110,000	80,000	Ph adjustment and adding alkalinity to RO product water
Potassium iodide		462	461	700	600	Chlorine testing
Ammonia Hydroxide	65800	1,840	1,839	3,000	2,250	Chlorine Analyzers
Phosphoric Acid	65900	46,873	59,847	70,000	70,000	Used in the chlorine channel to make chloroamines
		18,854	12,624	20,000	0	
Low Mag Ferric		0	17,725	30,000	30,000	Change name to Cerium Chloride as this is replacing the Low Mag Ferric. Used for
Enzymes		0	0	5,000	5,000	Phosphorus removal
SUBTOTAL		300,125	327,127	427,045	410,250	MF cleaning
Operating Supplies - Plant						

**CAWD/PBCSD Reclamation Project
Operations and Maintenance Budget
Fiscal Year 2019-20**

ITEM	Acct No.	Actual 2017-18	Estimated Actual 2018-19	2018-19 Budget	Proposed 2019-20 Budget		Comments/Notes
					2019-20 Budget		
Repairs & Maintenance	66100	86,873	91,686	90,000	90,000	90,000	General repairs of equipment including MF/RO support equipment and other repairs a
Plant Pumps	66190	4,682	17,254	20,000	20,000	20,000	Pump repair for MF/RO and support equipment, including Mix liquor Return Pumps
Laundry	66200	1,517	1,427	1,550	1,550	1,550	New contract with Cintas
Lubricants/Packing	66300	265	0	1,000	1,000	1,000	Various lubricants for motors, pumps and valves
Electrical Supplies	66400	7,575	15,605	5,000	5,000	5,000	Electrical PM supplies and parts
Laboratory Supplies	66500	34,804	30,239	38,084	39,600	39,600	4% increase, all chemicals and reagents for laboratory analysis for MF/RO
Paint	66600	0	0	2,000	2,000	2,000	Painting supplies for the MF/RO and Tertiary areas
Postage (Office Supplies)	67000	19	0	200	200	200	Shipping samples to outside laboratories
First Aid Supplies	67100	393	0	205	200	200	restocking First Aid Kits at MF/RO and Tertiary Areas
Janitorial Supplies	67100	0	355	300	300	300	Cleaning supplies for MF/RO and Tertiary Area
Tertiary Pump Alarm	67300	0	0	0	0	0	removal of gasoues chlorine system and chlorine leak alarms
Personnel Supplies	67400	0	132	1,030	1,030	1,030	Protective Nittle gloves, hand cleaner
Hand Tools	67600	70	151	1,030	1,030	1,030	Misc tool replacement, speciality tools for MF
Operating Supplies	67700	2,470	23,948	7,200	7,200	7,200	0
Safety	67800	2,462	3,214	0	0	4,000	Safety supplies requested by the Safety Officer
Training	67900	0	0	5,000	5,000	5,000	Specific MF/RO classes on operation improvement/Safety Training
		141,130	184,011	172,599		170,810	
Membrane Costs							
Microfilter Membrane Modules	67510	0	189,352	165,000	0	0	Membranes where replaced last year in all 3 cells
Annual Cartridge Filter Replacement	66700	8,902	8,159	10,600	10,000	10,000	
RO Membrane Elements	67500	1,972	0	0	180,000	180,000	For ESPA2-LD Ro Element or \$217,000.00 for the ESPA2-LD MAX RO elements, 40
Spare Parts & Outfitting	66750	0	13,719	19,000	15,000	15,000	Misc. parts for membrane installs and listed spare parts recommended by Mfr.
		10,874	211,230	194,600		205,000	
Contractual Services:							
Chemical Waste Disposal	68100	0	992	1,000	1,000	1,000	Removal of used or older chemicals from the Laboratory and MF/RO
Plant Instrumentation	68200	7,720	29,645	21,570	22,000	22,000	On-line equipment calibrations. Higher cost this year due to Capital items being exper
Fire Extinguisher Service	68300	0	0	720	720	720	13 fire extinguisher(9 on the pad and 4 in Tertiary Building)
Calibration	68400	733	3,802	14,000	14,000	9,050	DR 2800 (\$1,500.00 annual service, Myron L. (\$500.00) annual service, Laboratory B.
Contract Laboratory Analysis	68500	5,865	6,115	5,630	6,360	6,360	4% increase from Contract Laboratories
Contract Lab Staffing		0	0	0	0	0	
Gypsum Injection System Maintenance/Leas	68600	0	0	0	0	0	No longer leased, owned by Treatment Plant, costs reflected in 66100 Repairs and M
Contract Painting	68700	0	0	0	0	0	Moved to Capital Project list Tertiary Building Painting
System software/IT consulting	68710	7,894	11,129	49,950	27,100	27,100	MF/RO Proprietary software-PLCsetc. H2O Innovations remote monitoring of increase
SAR Equipment Maintenance	68720	3,034	4,253	3,500	4,000	4,000	Maintenance and repair for the Ion Chromotograph, No longer support by service con
Hoist Certification	68730	0	0	1,000	1,000	1,000	Traveling Hoist (2) On MF, 1 at Tertiary Building (2 ton Hoist)
Alarm-Tertiary Equipment	68900	234	238	200	250	250	First alarm monitoring of Tertiary system
Alarm - Chlorine Equipment	68910	0	0	3,500	0	0	No longer need as Gas Chlorine is no longer used at the facility
Ion Chromatograph- Annual Maintenance	69400	0	0	0	0	0	
Demolition		0	0	0	0	0	
Clearlogx rent		56,000	0	0	0	0	Not online this year
SUBTOTAL		81,480	56,174	101,070		71,480	
Fees & Permits							
Engineering Fees:	69100	2,222	2,222	12,500	8,000	8,000	Laboratory ELAP Fees (50/50 split with CAWD), annual Permit fees for Order No. 93
Consulting	69200	26,289	42,661	30,000	40,000	40,000	Trussell Technologies

**CAWD/PBCSD Reclamation Project
Operations and Maintenance Budget
Fiscal Year 2019-20**

ITEM	Acct No.	Estimated		Proposed		Comments/Notes
		Actual 2017-18	Actual 2018-19	2018-19 Budget	2019-20 Budget	
Membrane Cleaning Pilot	69250	0	0	0	15,000	Full RO Autopsies of old RO membranes
Disposal expense	69350	0	0	0	0	
Demolition expense	69360	0	0	0	0	
SUBTOTAL		26,289	42,661	30,000	55,000	
TOTAL PLANT OPERATING EXPENSES		1,357,335	1,836,671	2,010,584	2,008,963	0.08% decrease from 18-19 budget 9.38% increase from 18-19 Projected actual
PEBBLE BEACH COM SVC DISTRICT DISTRIBUTION SYSTEM ADMIN & MAINT:						
Salaries, Benefits & Overhead						
General Manager	71000	0	0	0	0	
Principal Engineer	71100	8,413	9,713	7,500	11,000	
Deputy General Manager/CFO	71200	1,218	1,359	2,000	1,500	
Senior Accountant	71300	3,336	4,225	5,000	5,000	
Administrative Assistant	71400	358	385	500	500	
Finance & Info Sys Coordinator	71500	488	1,092	500	1,000	
Associate Engineers	71600	6,037	6,350	6,000	8,500	Calculated based on the estimated PBCSD Admin staff time for CAWD/PBCSD Recla
Intern (Temp Employee)		174	430	500	500	
Payroll Taxes , Benefits & Overhead	71800	9,840	11,777	11,000	14,000	
SUBTOTAL		29,864	35,331	33,000	42,000	
Other Administrative & General Expenses:						
Insurance - Property & Liability	72100	4,384	4,597	6,000	5,500	Property (\$3,000); Liability (\$2,500)
Insurance - Earthquake	72100	15,490	16,420	15,500	17,000	FL Reservoir (\$12,000) & Poppy Hills Storage Tank (\$5,000)
Insurance - Forest Lake Dam Failure Liabilit	72100	5,061	5,085	6,000	5,500	\$10M Coverage
Directors Fees	72200	200	400	500	500	2 Directors x 5 meetings/year x \$50 per meeting
SUBTOTAL		25,135	26,502	28,000	28,500	
Total Administrative & General Expenses		54,999	61,833	61,000	70,500	
Distribution System O&M. Expenses:						
Salaries, Benefits & Overhead:						
Field Maintenance Supervisor	73000	13,385	10,685	8,000	12,000	
Maintenance Technicians	73100	39,310	40,605	50,000	55,000	Calculated based on the estimated time to operate and maintain the Forest Lake Res
Payroll taxes, Benefits & Overhead	73200	26,432	25,645	29,000	33,500	The payroll taxes, benefits and indirect overhead is calculated at 50% as agreed upon
SUBTOTAL		79,127	76,935	87,000	100,500	
Energy & Utilities:						
Potable Water Pump Station - PG&E	74000	517	1,747	1,000	1,000	PBCSD pumps will be turned on during emergencies. PBCSD pays a minimum of 1%
SCADA System: DSL ATM / Telemetry Anal	74200	11,135	11,772	12,000	12,500	Monthly AT&T fee for lines between Potable Water Pump Station, Forest Lake, CAWI
Wireless Alarm Sys Chg (Mission)	74300	550	695	500	1,500	Annual maint agmt for Cell Phone Alarm System at Poppy Hills Storage Tank and PB
Forest Lake Treatment Facility (PG&E)	74400	33,773	38,748	40,000	45,000	Budgeted based on previous experience and anticipated operations (2019-20: include
Forest Lake Eyewash Station (CalAm)	74500	846	896	1,000	1,000	Budgeted based on previous experience. (2019-20: Updated description, as not only 1
Poppy Hill Booster Pump Station - PG&E	74600	1,298	1,414	1,500	1,500	Budgeted based on previous experience & anticipated operations
Catholic Protection	74700	1,157	1,498	1,500	1,500	2 locations: Forest Lake & Whitman Ln. Budgeted based on previous experience & e
		49,276	56,770	57,500	64,000	

Source Water / Dry Weather Diversion

**CAWD/PBCSD Reclamation Project
Operations and Maintenance Budget**

Fiscal Year 2019-20

ITEM	Acct No.	Actual 2017-18	Estimated Actual 2018-19	2018-19 Budget	Proposed 2019-20 Budget	Comments/Notes
Reclamation Source Water		81,618	400	1,000	5,000	Materials/Supplies for Recl Wells (MPCC#8/MPCC#9) 2019-20: Planned Pump repla
4th Fairway Dry Weather Diversion Facility		0	500	1,000	3,000	Materials/Supplies for PB Golf Links 4th Fairway Dry-weather Diversion Facility. 2019
Water Treatment Cost		66,687	70,000	85,000	70,000	(2) Locations @ MPCC / (1) 4th Fairway
SUBTOTAL		148,305	70,900	87,000	78,000	
Distribution System - Other O & M Expenses:						
Other professional services	75200	600	2,100	1,000	1,000	Mgmt Committee Mtg attendance & minutes
Permits	75300	18,986	22,757	16,000	25,500	1. SWRCB General Permit \$6,300 2. DSOD-Forest Lake Op Permit \$18,500 3. MBL
Fuel	75500	1,976	2,758	2,500	2,500	Estimated fuel use for vehicles and Viscaino Rd. pump station. 2019-20 storms nece
Training & Tuitions	75600	2,972	3,491	2,500	6,000	Maint & safety programs (regist/materials/travel/misc exp Membership & Cert) include
SCADA System software/IT consulting	75800	455	2,580	3,500	5,000	Maintenance, diagnostic & consulting svcs related to SCADA, GIS development (2019
Reclamation Line Distribution Sys	76300	1,529	10,000	15,000	10,000	Meter calibration & other general repairs and maintenance, materials, and supplies
Viscaino Rd/Poppy Hills Pump Station	76400	2,688	2,078	3,000	3,000	Previous Maint/Annual load bank test/Underground tank leak detect & general R&M
Call Out Mileage Expense	76500	1,271	1,613	2,000	2,000	Maintenance work performed after hours, weekends & holidays
Forest Lake Reservoir - R & M	76600	15,929	18,110	30,000	25,000	General/Emergency repairs to Forest Lake
Poppy Hills Storage Tank (2.5 million gallon	76700	360	0	10,000	5,000	Includes Cathodic Protection Inspection (every 3 yrs)/ Tank (15-pt) Inspection (every 3
Rescue & Safety Supplies & Equipment	76800	0	0	1,000	1,000	Protective gear & equip/life vests/rescue discs/safety signs/misc supplies
Forest Lake Chemicals	76900	34,744	40,000	50,000	45,000	Sulfuric Acid/Hypochlorite tablets. Actual costs based on water usage. Chemicals ne
RF Communication Sys for SCADA	77000	746	0	1,000	1,000	Supplies & equip purchases, Repairs and Maintenance
Forest Lake Reservoir - Materials & Supplie	77100	26,185	20,000	25,000	30,000	Supplies & equip: deployable probe, water sampling, piezometer, misc other (\$8K); C
SUBTOTAL		108,439	125,487	162,500	162,000	
Professional Fees - PBCSD:						
General Engineering - Consulting	76000	58,341	40,000	45,000	50,000	Gen Consult: Annual DSOD Report; for Lake Semi-Annual Monument Settlement Sur
Other Professional Services	75200	0	0	0	0	
SUBTOTAL		58,341	40,000	45,000	50,000	
Total Distribution System O & M Expenses		443,488	370,092	439,000	454,500	
TOTAL PBCSD EXPENSES.....		498,487	431,925	500,000	525,000	5.0% increase from 18-19 budget 21.55% increase from 18-19 Projected actual

**CAWD/PBCSD Reclamation Project
Operations and Maintenance Budget
Fiscal Year 2019-20**

ITEM		Estimated	Proposed					Comments/Notes
Acct No.	Actual 2017-18	Actual 2018-19	2018-19 Budget	2019-20 Budget				
CARD ADMIN & GENERAL EXPENSES								
ADMINISTRATIVE SALARIES								
No.	1,444	1,679	1,160	1,730	based on 25 hours			
81000 General Manager	7,649	13,779	11,530	14,195	based on 265 hours			
81200 Project Accountant	9,607	6,144	3,495	0				
81100 Engineering Associate	3,415	6,860	2,100	7,066	based on 30 hours			
81400 Admin. Services Coordinator/Scanner	11,058	14,231	10,606	11,496				
82100 Payroll Taxes, Benefits & Overhead	33,174	42,692	28,891	34,487	COLA 3.0%			
SUBTOTAL								
Administrative & General Expenses:								
84000 Office Supplies & Postage	0	0	0	0				
84100 Audit & Consulting Fees	17,500	17,900	18,000	20,000				
84200 Employee training	0	0	0	0				
85000 Directors Fees	900	1,050	1,200	1,200	4 meetings @ \$300			
89400 Legal Notices	0	0	0	0				
89400 Legal Fees	918	792	0	0				
89500 Insurance Expense	25,847	28,639	28,432	32,697	Coastal Commission - Sea Level Rise draft review/revisions Estimate 15% over 18-19 projected actual per CSRMA			
SUBTOTAL	45,165	48,381	47,632	53,897				
TOTAL CAWD EXPENSES	78,339	91,073	76,523	88,384	15.50% increase from 18-19 budget			
					2.95% decrease from 18-19 Projected actual			
MONTEREY PENINSULA WATER MANAGEMENT DISTRICT								
ADMINISTRATIVE EXPENSES:								
Administrative Salaries, Benefits & Overhead								
91000 General Manager	4,300	1,200	1,005	1,200	based on 10 hours			
91200 Administrative Services Manager	6,123	3,800	2,710	4,500	based on 35 hours			
91300 Accountant	3,200	3,500	2,520	4,140	based on 65 hours			
91500 IT Manager	5,080	3,500	2,300	4,600	based on 40 hours			
92100 Payroll Taxes, Benefits & Overhead	9,352	6,000	4,268	4,268				
SUBTOTAL	28,055	18,000	12,803	18,708	COLA 3.0%			
Administrative & General Expenses								
94300 CAL-Am Water Meter Service Charge	18,966	17,297	30,745	32,208	8" meter - assumes \$2,200*12*22%			
99400 Legal Fees	0	0	2,500	2,500				
99410 Annual software maintenance	3,380	3,380	3,550	3,750	Software annual maintenance fee - assumes 5.6%			
	22,345	20,677	36,795	38,458				
TOTAL MPWMD EXPENSES	50,400	35,297	49,598	57,166	15.26% increase from 18-19 budget			
					61.96% increase from 18-19 Projected actual			
PBCo / IRWJUG Representative								
77520 Payroll Taxes, Benefits & Overhead	32,283	33,468	33,000	34,806	4% increase			
77590 R&D Water Sources	14,592	15,127	15,000	15,732				
99965	841	0	0	0				
SUB TOTAL	2,032,276	2,443,561	2,684,705	2,730,051				
POTABLE WATER COSTS								
99601	6,594	87,508	6,750	6,750	Project 100% reclaimed water use - no potable - includes service chgs/surcharges - 1			
TOTAL OPERATING EXPENSES	2,038,030	2,531,069	2,691,455	2,736,801	1.68% increase from 18-19 budget			
					8.13% increase from 18-19 Projected actual			

CAWD/PBCSD Reclamation Project
Monthly Budget Projections
2019-20

ACCT No.	Jul-19 15.42%	Aug-19 14.79%	Sep-19 13.21%	Oct-19 10.28%	Nov-19 2.28%	Dec-19 1.36%	Jan-20 0.36%	Feb-20 1.09%	Mar-20 3.57%	Apr-20 9.03%	May-20 13.51%	Jun-20 15.09%	ANNUAL BUDGET 19-20
52000	1,060,524	1,016,641	908,394	706,529	156,519	93,619	24,867	74,602	245,749	621,102	929,166	1,037,705	6,875,417
2225	(15,425)	(14,787)	(13,212)	(10,276)	(2,276)	(1,362)	(362)	(1,085)	(3,574)	(9,034)	(13,514)	(15,093)	(100,000)
Less MPWMD Fees	1,045,100	1,001,854	895,182	696,253	154,242	92,257	24,506	73,517	242,175	612,068	915,651	1,022,612	6,775,417
61100	4,010	3,845	3,435	2,672	592	354	94	282	929	2,349	3,514	3,924	26,000
Laboratory Supervisor	4,926	4,722	4,219	3,282	727	435	116	347	1,141	2,885	4,316	4,820	31,935
Laboratory Technicians	9,914	9,504	8,492	6,605	1,463	875	232	697	2,297	5,806	8,686	9,701	64,275
Plant Operators	23,864	22,876	20,441	15,898	3,522	2,107	560	1,679	5,530	13,976	20,908	23,350	154,710
Maint Supervisor	1,886	1,808	1,616	1,257	278	167	44	133	437	1,105	1,653	1,846	12,230
Plant Mechanics	4,141	3,969	3,547	2,759	611	366	97	291	960	2,425	3,628	4,052	26,845
Safety Officer	540	518	462	360	80	48	13	38	125	316	473	528	3,500
Plant Engineer	2,314	2,218	1,982	1,541	341	204	54	163	536	1,355	2,027	2,264	15,000
Differential	1,924	1,845	1,648	1,282	284	170	45	135	446	1,127	1,686	1,883	12,475
Payroll Taxes & Benefits & OH	26,760	25,652	22,921	17,828	3,949	2,362	627	1,882	6,201	15,672	23,445	26,184	173,484
	80,279	76,957	68,763	53,483	11,848	7,087	1,882	5,647	18,603	47,016	70,336	78,552	520,453
63300	26,199	25,115	22,440	17,454	3,867	2,313	614	1,843	6,071	15,343	22,954	25,635	169,847
Tertiary Treatment	36,786	35,264	31,509	24,507	5,429	3,247	863	2,588	8,524	21,544	32,230	35,995	238,486
MFIRO Electrical	24,624	23,605	21,092	16,405	3,634	2,174	577	1,732	5,706	14,421	21,574	24,094	159,638
Secondary Costs - EQ Basin PD Blo	87,609	83,983	75,041	58,365	12,930	7,734	2,054	6,163	20,301	51,308	76,757	85,724	567,970
64100	0	0	0	0	0	0	0	0	0	0	0	0	0
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
Aluminum chlorhydrate	0	0	0	0	0	0	0	0	0	0	0	0	0
Clean-in-place chemicals	3,085	2,957	2,642	2,055	455	272	72	217	715	1,807	2,703	3,019	20,000
Sodium hydroxide	0	0	0	0	0	0	0	0	0	0	0	0	0
Antiscalant	3,964	3,800	3,396	2,641	585	350	93	279	919	2,322	3,473	3,879	25,700
Phenylarsine oxide	139	133	119	92	20	12	3	10	32	81	122	136	900
Acetate buffer solution	39	37	33	26	6	3	1	3	9	23	34	38	250
Iodine solution	39	37	33	26	6	3	1	3	9	23	34	38	250
Chlorine	0	0	0	0	0	0	0	0	0	0	0	0	0
Citric Acid	1,234	1,183	1,057	822	182	109	29	87	286	723	1,081	1,207	8,000

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ACCT No.	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	ANNUAL BUDGET 19-20
Sulfuric Acid	5,399	5,175	4,624	3,597	797	477	127	380	1,251	3,162	4,730	5,283	35,000
Acetic Acid	93	89	79	62	14	8	2	7	21	54	81	91	600
Sodium Bisulfite	8,823	8,458	7,557	5,878	1,302	779	207	621	2,045	5,167	7,730	8,633	57,200
Sodium Hypochlorite	8,021	7,689	6,870	5,344	1,184	708	188	564	1,859	4,698	7,027	7,848	52,000
Polymer	1,851	1,774	1,585	1,233	273	163	43	130	429	1,084	1,622	1,811	12,000
Gypsum	1,157	1,109	991	771	171	102	27	81	268	678	1,014	1,132	7,500
Miscellaneous chemicals	463	444	396	308	68	41	11	33	107	271	405	453	3,000
Potassium Hydroxide	12,340	11,829	10,570	8,221	1,821	1,089	289	868	2,859	7,227	10,811	12,074	80,000
Potassium iodate solution	93	89	79	62	14	8	2	7	21	54	81	91	600
Potassium iodide	347	333	297	231	51	31	8	24	80	203	304	340	2,250
Ammonia Hydroxide	10,797	10,351	9,249	7,193	1,594	953	253	760	2,502	6,324	9,460	10,565	70,000
Phosphoric Acid	0	0	0	0	0	0	0	0	0	0	0	0	0
Low Mag Ferric	4,627	4,436	3,964	3,083	683	408	109	326	1,072	2,710	4,054	4,528	30,000
Enzymes	771	739	661	514	114	68	18	54	179	452	676	755	5,000
	63,281	60,662	54,203	42,158	9,339	5,586	1,484	4,451	14,664	37,061	55,442	61,919	410,250
Repairs & Maintenance	13,882	13,308	11,891	9,249	2,049	1,225	326	977	3,217	8,130	12,163	13,584	90,000
Plant Pumps	3,085	2,957	2,642	2,055	455	272	72	217	715	1,807	2,703	3,019	20,000
Laundry	239	229	205	159	35	21	6	17	55	140	209	234	1,550
Lubricants/Packing	154	148	132	103	23	14	4	11	36	90	135	151	1,000
Electrical Supplies	771	739	661	514	114	68	18	54	179	452	676	755	5,000
Laboratory Supplies	6,108	5,855	5,232	4,069	901	539	143	430	1,415	3,577	5,352	5,977	39,600
Paint	308	296	264	206	46	27	7	22	71	181	270	302	2,000
Postage	31	30	26	21	5	3	1	2	7	18	27	30	200
First Aid Supplies	31	30	26	21	5	3	1	2	7	18	27	30	200
Janitorial Supplies	31	30	26	21	5	3	1	2	7	18	27	30	200
Tertiary Pump Alarm	0	0	0	0	0	0	0	0	0	0	0	0	0
Personnel Supplies	159	152	136	106	23	14	4	11	37	93	139	155	1,030
Hand Tools	159	152	136	106	23	14	4	11	37	93	139	155	1,030
Operating Supplies	0	0	0	0	0	0	0	0	0	0	0	0	0
Safety	617	591	528	411	91	54	14	43	143	361	541	604	4,000
Training	771	739	661	514	114	68	18	54	179	452	676	755	5,000
	26,347	25,257	22,568	17,553	3,888	2,326	618	1,853	6,105	15,430	23,084	25,780	170,810
Microfilter Membrane Modules	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual Cartridge Filter Replacement	1,542	1,479	1,321	1,028	228	136	36	109	357	903	1,351	1,509	10,000
RO Membrane Elements	27,765	26,616	23,782	18,497	4,098	2,451	651	1,953	6,434	16,261	24,326	27,167	180,000
Spare Parts & Outfitting	2,314	2,218	1,982	1,541	341	204	54	163	536	1,355	2,027	2,264	15,000

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ACCT No.	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	ANNUAL BUDGET 19-20
	31,621	30,313	27,085	21,066	4,667	2,791	741	2,224	7,327	18,519	27,704	30,941	205,000
Chemical Waste Disposal	154	148	132	103	23	14	4	11	36	90	135	151	1,000
Plant Instrumentation	3,393	3,253	2,907	2,261	501	300	80	239	786	1,987	2,973	3,320	22,000
Fire Extinguisher Service	111	106	95	74	16	10	3	8	26	65	97	109	720
Calibration	1,396	1,338	1,196	930	206	123	33	98	323	818	1,223	1,366	9,050
Contract Laboratory Analysis	981	940	840	654	145	87	23	69	227	575	859	960	6,360
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	4,180	4,007	3,581	2,785	617	369	98	294	969	2,448	3,662	4,090	27,100
Hoist Certification	617	591	528	411	91	54	14	43	143	361	541	604	4,000
Alarm - Tertiary	154	148	132	103	23	14	4	11	36	90	135	151	1,000
Alarm - Chlorine	0	0	0	0	0	0	0	0	0	0	0	0	0
Equipment Rent - Ion Chromatograph	39	37	33	26	6	3	1	3	9	23	34	38	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
	10,871	10,422	9,312	7,243	1,604	960	255	765	2,519	6,367	9,525	10,637	71,480
Fees & Permits (MBUAPCD)													
Engineering Fees	1,234	1,183	1,057	822	182	109	29	87	286	723	1,081	1,207	8,000
Consulting	6,170	5,915	5,285	4,110	911	545	145	434	1,430	3,613	5,406	6,037	40,000
Membrane Cleaning Pilot	2,314	2,218	1,982	1,541	341	204	54	163	536	1,355	2,027	2,264	15,000
Disposal expense	8,484	8,133	7,267	5,652	1,252	749	199	597	1,966	4,969	7,433	8,301	55,000
	309,726	296,910	265,296	206,341	45,711	27,341	7,263	21,788	71,771	181,392	271,362	303,061	2,008,963
District Engineer	1,697	1,627	1,453	1,130	250	150	40	119	393	994	1,487	1,660	11,000
Deputy General Manager/CFO	231	222	198	154	34	20	5	16	54	136	203	226	1,500
Senior Accountant	771	739	661	514	114	68	18	54	179	452	676	755	5,000
Administrative Assistant	77	74	66	51	11	7	2	5	18	45	68	75	500
Finance & Info Sys Coordinator	154	148	132	103	23	14	4	11	36	90	135	151	1,000
Associate & Assistant Engineers	1,311	1,257	1,123	873	194	116	31	92	304	768	1,149	1,283	8,500
Intern (Temp Emp)	77	74	66	51	11	7	2	5	18	45	68	75	500

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ACCT No.	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	ANNUAL BUDGET 19-20
PR Taxes, Benefits & Overhead	2,159	2,070	1,850	1,439	319	191	51	152	500	1,265	1,892	2,113	14,000
	6,478	6,210	5,549	4,316	956	572	152	456	1,501	3,794	5,676	6,339	42,000
Directors Fees	848	813	727	565	125	75	20	60	197	497	743	830	5,500
Insurance - Property & Liability	2,622	2,514	2,246	1,747	387	231	61	184	608	1,536	2,297	2,566	17,000
Insurance - Earthquake	848	813	727	565	125	75	20	60	197	497	743	830	5,500
Insurance - FL Dam Failure Liability	77	74	66	51	11	7	2	5	18	45	68	75	500
	4,396	4,214	3,765	2,929	649	388	103	309	1,019	2,575	3,852	4,301	28,500
Salaries, Benefits & Overhead:													
Field Maintenance Supervisor	1,851	1,774	1,585	1,233	273	163	43	130	429	1,084	1,622	1,811	12,000
Maintenance Technicians	8,484	8,133	7,267	5,652	1,252	749	199	597	1,966	4,969	7,433	8,301	55,000
PR Taxes, Benefits & O.H.	5,167	4,954	4,426	3,443	763	456	121	363	1,197	3,026	4,527	5,056	33,500
	15,502	14,861	13,278	10,328	2,288	1,368	363	1,090	3,592	9,079	13,582	15,168	100,500
Potable Water Pump Station - PG&E	154	148	132	103	23	14	4	11	36	90	135	151	1,000
SCADA System: DSL ATM/Telemetr	1,928	1,848	1,652	1,285	285	170	45	136	447	1,129	1,689	1,887	12,500
Wireless Alarm Sys Chg (Mission)	231	222	198	154	34	20	5	16	54	136	203	226	1,500
Forest Lake Treatment Facility (PG&	6,941	6,654	5,945	4,624	1,024	613	163	488	1,608	4,065	6,081	6,792	45,000
Forest Lake Eyewash Station (CalAn	154	148	132	103	23	14	4	11	36	90	135	151	1,000
Poppy Hill Booster Pump Station - PG	231	222	198	154	34	20	5	16	54	136	203	226	1,500
Catholic Protection	231	222	198	154	34	20	5	16	54	136	203	226	1,500
	9,872	9,463	8,456	6,577	1,457	871	231	694	2,288	5,782	8,649	9,660	64,000
Reclamation Source Water	771	739	661	514	114	68	18	54	179	452	676	755	5,000
Water Treatment Cost	463	444	396	308	68	41	11	33	107	271	405	453	3,000
4th Fairway Dry Weather Diversion	10,797	10,351	9,249	7,193	1,594	953	253	760	2,502	6,324	9,460	10,565	70,000
	12,031	11,534	10,306	8,015	1,776	1,062	282	846	2,788	7,046	10,541	11,773	78,000
Other Professional Svcs	154	148	132	103	23	14	4	11	36	90	135	151	1,000
Permits	3,933	3,771	3,369	2,620	581	347	92	277	911	2,304	3,446	3,849	25,500
Fuel	386	370	330	257	57	34	9	27	89	226	338	377	2,500
Training & Tuitions	925	887	793	617	137	82	22	65	214	542	811	906	6,000
SCADA System software/IT consultin	771	739	661	514	114	68	18	54	179	452	676	755	5,000
Reclamation Line Distribution Sys	1,542	1,479	1,321	1,028	228	136	36	109	357	903	1,351	1,509	10,000
Viscaino Rd/Poppy Hills Pump Statio	463	444	396	308	68	41	11	33	107	271	405	453	3,000

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ACCT No.	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	ANNUAL BUDGET 19-20
Call Out Mileage Expense	308	296	264	206	46	27	7	22	71	181	270	302	2,000
Forest Lake Reservoir - R & M	3,856	3,697	3,303	2,569	569	340	90	271	894	2,258	3,379	3,773	25,000
Poppy Hills Storage Tank (2.5 million)	771	739	661	514	114	68	18	54	179	452	676	755	5,000
Rescue & Safety Supplies & Equipment	154	148	132	103	23	14	4	11	36	90	135	151	1,000
Forest Lake Chemicals	6,941	6,654	5,945	4,624	1,024	613	163	488	1,608	4,065	6,081	6,792	45,000
RF Communication Sys for SCADA	154	148	132	103	23	14	4	11	36	90	135	151	1,000
Forest Lake Reservoir - Materials & S	4,627	4,436	3,964	3,083	683	408	109	326	1,072	2,710	4,054	4,528	30,000
	24,988	23,954	21,404	16,647	3,688	2,206	586	1,758	5,790	14,635	21,893	24,451	162,000
Consulting	7,712	7,393	6,606	5,138	1,138	681	181	543	1,787	4,517	6,757	7,546	50,000
Other Professional Services	7,712	7,393	6,606	5,138	1,138	681	181	543	1,787	4,517	6,757	7,546	50,000
	68,949	66,096	59,059	45,934	10,176	6,087	1,617	4,850	15,977	40,380	60,409	67,466	525,000
General Manager	267	256	229	178	39	24	6	19	62	156	234	261	1,730
Project Accountant	2,190	2,099	1,875	1,459	323	193	51	154	507	1,282	1,918	2,142	14,195
Engineering Assistant	0	0	0	0	0	0	0	0	0	0	0	0	0
Secretary/Finance Tech.	1,090	1,045	934	726	161	96	26	77	253	638	955	1,067	7,066
Payroll Taxes & Benefits	1,773	1,700	1,519	1,181	262	157	42	125	411	1,038	1,554	1,735	11,496
Indirect Overhead	5,320	5,099	4,557	3,544	785	470	125	374	1,233	3,115	4,661	5,205	34,487
Office Supplies & Postage	0	0	0	0	0	0	0	0	0	0	0	0	0
Audit & Consulting Fees	3,085	2,957	2,642	2,055	455	272	72	217	715	1,807	2,703	3,019	20,000
Employee Training	0	0	0	0	0	0	0	0	0	0	0	0	0
Directors Fees	185	177	159	123	27	16	4	13	43	108	162	181	1,200
Legal Notices	0	0	0	0	0	0	0	0	0	0	0	0	0
Legal Fees	0	0	0	0	0	0	0	0	0	0	0	0	0
Insurance Expense	5,043	4,835	4,320	3,360	744	445	118	355	1,169	2,954	4,419	4,935	32,697
	8,314	7,970	7,121	5,539	1,227	734	195	585	1,926	4,869	7,284	8,135	53,897
	13,633	13,069	11,677	9,082	2,012	1,203	320	959	3,159	7,984	11,944	13,340	88,384

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ACCT No.	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	ANNUAL BUDGET 19-20
General Manager	185	177	159	123	27	16	4	13	43	108	162	181	1,200
Admin Services Manager	694	665	595	462	102	61	16	49	161	407	608	679	4,500
Accountant	639	612	547	425	94	56	15	45	148	374	559	625	4,140
Chief Tech Officer	710	680	608	473	105	63	17	50	164	416	622	694	4,600
Payroll Taxes & Benefits & O.H.	658	631	564	439	97	58	15	46	153	386	577	644	4,268
	2,886	2,766	2,472	1,922	426	255	68	203	669	1,690	2,528	2,824	18,708
CAL-Am Water Meter Svc. Chg.	4,968	4,762	4,255	3,310	733	439	116	349	1,151	2,910	4,353	4,861	32,208
Legal Fees	386	370	330	257	57	34	9	27	89	226	338	377	2,500
Software Maint Fees	578	554	495	385	85	51	14	41	134	339	507	566	3,750
	8,239	7,898	7,057	5,489	1,216	727	193	580	1,909	4,825	7,219	8,062	57,166
PBCo / IRWUG Representative	7,796	7,473	6,677	5,193	1,151	688	183	548	1,806	4,565	6,830	7,628	50,539
	408,343	391,446	349,767	272,041	60,266	36,047	9,575	28,725	94,623	239,148	357,765	399,556	2,730,051
	636,757	610,408	545,415	424,212	93,977	56,210	14,931	44,793	147,552	372,920	557,887	623,056	4,045,366
POTABLE WATER COSTS	1,041	998	892	694	154	92	24	73	241	610	912	1,019	6,750
	635,716	609,410	544,523	423,518	93,823	56,118	14,906	44,719	147,311	372,310	556,975	622,037	4,038,616
Interest Income - Reserve Funds	4,242	4,066	3,633	2,826	626	374	99	298	983	2,484	3,716	4,151	27,500
Interest Income- Union Bank	15	15	13	10	2	1	0	1	4	9	14	15	100
Interest Income - Well Fargo/Phase I	0	0	0	0	0	0	0	0	0	0	0	0	0
Water Entitlements	0	0	0	0	0	0	0	0	0	0	0	0	0
Gain/(loss) on Mkt Value of Securities	0	0	0	0	0	0	0	0	0	0	0	0	0
Interest Income-County	15	15	13	10	2	1	0	1	4	9	14	15	100
Interest Income - Bank of Amer.	23	22	20	15	3	2	1	2	5	14	20	23	150
Other Income	0	0	0	0	0	0	0	0	0	0	0	0	0
Bank Charges - BoA	(19)	(18)	(17)	(13)	(3)	(2)	(0)	(1)	(4)	(11)	(17)	(19)	(125)
Bond Carrying Costs	(4,432)	(4,249)	(3,797)	(2,953)	(654)	(391)	(104)	(312)	(1,027)	(2,596)	(3,883)	(4,337)	(28,735)
O&M Reserve Funds	0	0	0	0	0	0	0	0	0	0	0	0	0

CAWD/PBCSD Reclamation Project
Monthly Budget Projections
2019-20

ACCT No.	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	ANNUAL BUDGET 19-20
Contribution to Capital Repl. Fund	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	(156)	(149)	(133)	(104)	(23)	(14)	(4)	(11)	(36)	(91)	(136)	(152)	(1,010)
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	23,137	22,180	19,818	15,414	3,415	2,042	543	1,628	5,361	13,550	20,271	22,639	150,000
Principal Payment - COP's	(354,772)	(340,092)	(303,881)	(236,352)	(52,359)	(31,318)	(8,319)	(24,956)	(82,209)	(207,774)	(310,829)	(347,138)	(2,300,000)
L/C Carrying Costs	(14,380)	(13,785)	(12,317)	(9,580)	(2,122)	(1,269)	(337)	(1,012)	(3,332)	(8,422)	(12,599)	(14,071)	(93,228)
Amortization Expense	(246,798)	(236,586)	(211,395)	(164,419)	(36,424)	(21,786)	(5,787)	(17,361)	(57,189)	(144,539)	(216,229)	(241,488)	(1,600,000)
Arbitrage Rebate to IRS	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Income/(Expense)	0	0	0	0	0	0	0	0	0	0	0	0	0
Interest on Principal Advanced	(11,007)	(10,552)	(9,428)	(7,333)	(1,625)	(972)	(258)	(774)	(2,551)	(6,446)	(9,644)	(10,770)	(71,360)
Past LC fees/Bond Carry Cost payable	(85,145)	(81,622)	(72,931)	(56,724)	(12,566)	(7,516)	(1,997)	(5,990)	(19,730)	(49,866)	(74,599)	(83,313)	(552,000)
Subtotal	(688,966)	(660,457)	(590,135)	(458,994)	(101,682)	(60,819)	(16,155)	(48,465)	(159,650)	(403,496)	(603,629)	(674,141)	(4,466,588)
	(689,121)	(660,606)	(590,268)	(459,097)	(101,705)	(60,833)	(16,159)	(48,476)	(159,686)	(403,588)	(603,765)	(674,293)	(4,467,598)
	193,392	185,390	165,650	128,839	28,542	17,072	4,535	13,604	44,814	113,261	169,438	189,231	1,171,018

CAWD/PBCSD Reclamation Project
Non-Operating Expenses
Fiscal Year 2019-20

ITEM	Acct No.	Actual 2017-18	Estimated Actual 2018-19	2018-19 Budget	Proposed 2019-20 Budget	Comments
NON-OPERATING EXPENSES: Project - Bond Carrying Costs	99956	27,600	26,409	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	111	185	125	125	Stop payments (0 @ \$20) & wire transfer fees (5 @ \$25)
L/C Carrying Costs	99959	121,690	105,926	112,020	93,228	Estimated at \$7,769/mo
COP Interest Expense	99958	129,309	99,932	174,440	150,000	Assumes 2.00% on \$7,500,000
COP Principal Payment	22041	2,000,000	2,100,000	2,100,000	2,300,000	Per COP Schedule
Interest on Principal Advanced	99957	56,567	56,487	39,000	71,360	
Past LC fees/Bond Carry Cost payable	22041	552,000	552,000	552,000	552,000	\$5,520,000 monthly through 2022 (10 years)
Interest Payment to MPWMD					29,500	Assume \$1M @ 2.95%, payable semi-annually
Abandoned Well Costs/R&D Water Costs		84,764	2,375	0	0	
Contribution to Capital Replacement Fund	11.1	0	0	0	0	Goal \$2M in 2022 ; current balance \$1.1M
Amortization Exp	99962	1,617,720	1,617,720	1,592,200	1,600,000	
TOTAL NON OPERATING EXPENSES		4,589,761	4,561,034	4,598,520	4,824,948	4.92% increase from 18-19 budget 5.78% increase from projected YTD 18-19 actual

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

CAWD/PBCSD Reclamation Project
 Capital Budget
 Fiscal Year 2019-20

CAWD/PBCSD Reclamation Project										FY 2019/20 thru 2024/25									
Project #	PROJECT	19/20	20/21	21/22	22/23	23/24	24/25	Unscheduled											
CAPITAL PROJECTS																			
1	CAWD Sulfuric/Citric Chemical Storage and Feed Project	\$ 290,000																	
2	CAWD Secondary Eff Diversion Flood Mitigations	\$ 25,000	\$ 25,000																
3	CAWD PLC Programming Update	\$ 50,000																	
4	CAWD Sound Barriers for MF/RO Pad	\$ 35,000																	
5	CAWD WWTP Phase 2 - Reclamation Share	\$ 32,000	\$ 160,000	\$ 160,000															\$ 300,000
6	CAWD Filter Rehabilitation (Coag Flocc Rehab)	\$ 30,000																	
7	CAWD Asset Analysis		\$ 30,000																
8	CAWD Cathodic Protection Testing of Reclamation line		\$ 25,000																
9	CAWD Painting of Tertiary Building and Pad		\$ 25,000	\$ 25,000	\$ 25,000														
10	CAWD Floor Drain Improvements		\$ 15,000																
11	CAWD Ammonia Tank Replacement			\$ 75,000															
12	CAWD Cerium Chloride Bulk Tank				\$ 75,000														
13	CAWD Filter Feed Piping to MF permanent																		\$ 400,000
14	PBCSD Storage Tank Rehabilitation	\$ 1,600,000																	
15	PBCSD Flow Meter Remote Measuring system (13)		\$ 100,000																
16	PBCSD MPC Coastline Well																		
CAPITAL PURCHASES																			
a	CAWD Flygt Pump backup to filter feed to MF	\$ 30,000																	
b	CAWD Ammonia Distillation Unit (50% CAWD)	\$ 17,758																	
c	CAWD Laboratory Ion Chromatograph (10% CAWD)		\$ 150,000																
d	CAWD Laboratory Autoclave (50% CAWD)			\$ 16,000															
e	CAWD Laboratory Muffle Furnace (50% CAWD)			\$ 13,500															
f	CAWD Laboratory BOD Incubator (50% CAWD)			\$ 13,000															
g	PBCSD SCADA System Remote Hardware		\$ 80,000																
TREATMENT & DISPOSAL TOTAL		\$ 2,209,758	\$ 610,000	\$ 302,500	\$ 100,000	\$ -	\$ -	\$ 700,000											
RECLAMATION SHARE		\$ 2,200,879	\$ 595,000	\$ 281,250	\$ 100,000	\$ -	\$ -	\$ 700,000											
CAWD SHARE		\$ 8,879	\$ 15,000	\$ 21,250	\$ -	\$ -	\$ -	\$ -											
Total		\$ 2,209,758	\$ 610,000	\$ 302,500	\$ 100,000	\$ -	\$ -	\$ 700,000											

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	\$1,217	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 (est)	15.37	915.80	931.17	6,596,523.00	\$7,084	4.24%
2019-20	0.00	1,000.00	1,000.00	6,875,416.76	\$6,875	4.23%

Actual 2018-19	Potable AF	Reclaimed AF	Total AF	Total Water Sales	Cost per AF	Cost per AF Budget Variance
Jul-18	0.00	155.00	155.00	748,286.47	4,828.00	-0.3185
Aug-18	0.00	142.00	142.00	711,975.75	5,014.00	-0.2922
Sep-18	0.00	116.00	116.00	640,115.81	5,518.00	-0.2211
Oct-18	0.00	103.00	103.00	605,106.78	5,875.00	-0.1707
Nov-18	0.00	50.00	50.00	455,846.26	9,117.00	0.287
Dec-18	15.37	2.00	17.37	322,565.99	18,570.00	1.6214
Jan-19	0.00	4.00	4.00	329,558.74	82,390.00	10.6304
Feb-19	0.00	1.00	1.00	321,533.50	321,534.00	44.3888
Mar-19 est.	0.00	33.60	33.60	0.00	0.00	-1
Apr-19 est.	0.00	78.20	78.20	0.00	0.00	-1
May-19 est.	0.00	111.40	111.40	0.00	0.00	-1
Jun-19 est.	0.00	119.60	119.60	0.00	0.00	-1
YTD	15.37	915.80	931.17	4,134,989.30	4,441.00	-0.3731

Actual 2017-18	Potable AF	Reclaimed AF	Total AF	Total Water Sales	Cost per AF	Cost per AF Budget Variance
Jul-17	0.00	150.00	150.00	717,069.31	4,780.00	-0.3252
Aug-17	0.00	126.00	126.00	647,879.51	5,142.00	-0.2741
Sep-17	0.00	143.00	143.00	698,385.46	4,884.00	-0.3106
Oct-17	0.00	116.00	116.00	617,767.03	5,326.00	-0.2482
Nov-17	0.00	24.00	24.00	342,413.36	14,267.00	1.014
Dec-17	0.00	52.00	52.00	426,555.58	8,203.00	0.158
Jan-18	0.00	6.00	6.00	288,535.53	48,089.00	5.7884
Feb-18	0.00	40.00	40.00	390,457.71	9,761.00	0.3779
Mar-18	0.00	10.00	10.00	300,832.37	30,083.00	3.2466
Apr-18	0.00	53.00	53.00	427,819.40	8,072.00	0.1395
May-18	0.00	151.00	151.00	720,678.50	4,773.00	-0.3262
Jun-18	0.00	161.00	161.00	749,908.68	4,658.00	-0.3425
YTD	0.00	1,032.00	1,032.00	6,328,302.44	6,132.00	-0.1344

1 AF = 43,560 cu ft

Operating Costs - billed per AF usage	
Operating Expenses	2,736,801.28
MPWMD fee	90,000.00
	<u>2,826,801.28</u>
Estimated AF	1,000.00
Price per AF	2,826.80

Non Operating Costs - billed per Agreement %	
Non Operating Expenses	3,197,098.00
Capital Budget	2,200,879.00
Prior Yr Capital	(349,361.52)
Loan from MPWMD	<u>(1,000,000.00)</u>
	4,048,615.48

		Monthly
MPCC-Dunes	12.13%	40,907.89
MPCC-Shore	12.13%	40,907.89
Cypress Point	12.13%	40,907.89
Poppy Hills	12.13%	40,907.89
Pebble Beach	12.13%	40,907.89
Spyglass Hill	12.13%	40,907.89
Spanish Bay	12.13%	40,907.89
PB Range	3.63%	12,230.19
Peter Hay	3.50%	11,808.46
PB Resorts	3.50%	11,808.46
Equestrian Center	3.00%	10,121.54
Stevenson School	1.50%	5,060.77
	100.00%	337,384.62

CAWD/PBCSD Reclamation Project

Cash Flow Analysis

As of March 31, 2019

Projected to June 30, 2019

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 3-31-19		2,019,567.90
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 3-31-18	0.00	
A/R at 3-31-19	(572,950.64)	
A/R at 6-30-13	1,518,947.77	
Other a/r at 3-31-19	(3,996.09)	
Other a/r at 6-30-13	15,337.58	
Capital at 3-31-19	(2,031,392.87)	
Capital at 6-30-13	8,104.11	
Water resale rights 3-31-19	(64,708,702.32)	
Water resale rights 6-30-13	63,232,989.26	
Restricted cash at 3-31-19	(1,156.36)	
Restricted cash at 6-30-13	1,136.12	
A/P at 3-31-19	280,376.98	
A/P at 6-30-13	(318,874.33)	
Due to MPWMD 3-31-19	56,917.00	
Due to MPWMD 6-30-13	0.00	
Accrual to Cash adjustments		5,469,823.21
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 at 3-31-19	(1,575,000.00)	
PBCo prior bond cost payments at 3-31-19	(414,000.00)	
Debt payments		(15,490,213.00)
Unrestricted Cash per Balance Sheet at 3-31-19		1,314,533.99
Unrestricted cash per Balance Sheet at 6-30-13		(1,289,200.47)
Increase (Decrease) in Unrestricted cash		25,333.52
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		<u>349,361.52</u>

**CAWD-PBCSD Reclamation Project
Budget 2019-20**

1 FY 2019-20 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 Lif: 15 Years
Est Residual Li: 15 Years
% Consumed: 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. Upon completion of design this project would be put out for public bid.

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 increase recovery.

Budget Impact/Other

	Prior Yr	19-20	20-21	21-22	22-23	23-24	Total
Labor		\$ 100,000					\$ 100,000
Engineering		\$ 40,000					\$ 40,000
Parts & Supplies		\$ 150,000					\$ 150,000
Chemicals							\$ -
Utility							\$ -
Other							\$ -
Total		\$ 290,000	\$ -	\$ -	\$ -	\$ -	\$ 290,000

CAWD-PBCSD Reclamation Budget 2019-20

2 FY 2019-20 Budget
CAWD/PBCSD Reclamation Project

Project Name: Secondary Eff Diversion Flood Mitigations
Agency: CAWD
Total Cost: \$ 50,000
CY Budget \$ 25,000

Contact: Treanor
Area: Secondary Effluent Diversion
Asset Type: Hatch
Avg Useful Lif 30 years
Est Residual Li NA
% Consumed I 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. 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	19-20	20-21	21-22	22-23	23-24	Total
Labor		\$ 7,500	\$ 7,500				\$ 15,000
Engineering							\$ -
Parts & Supplies		\$ 17,500	\$ 17,500				\$ 35,000
Chemicals							\$ -
Utility							\$ -
Other							\$ -
Total		\$ 25,000	\$ 25,000	\$ -	\$ -	\$ -	\$ 50,000

**CAWD-PBCSD Reclamation Budget
2019-20**

3 FY 2019-20 Budget
CAWD/PBCSD Reclamation Project

Contact: Foley
Area: Tertiary/MF/RO
Asset Type: SCADA/PLC
Avg Useful Lif 15 years
Est Residual Li 0 years
% Consumed L 100%
Category: Maintenance
Urgency: High
Carry Forward: Yes

Project Name: PLC Programming Update
Agency: CAWD
Total Cost: \$ 50,000
CY Budget \$ 50,000

Asset Description

The PLC Programming is a critical aspect of the operation of the Reclamation facilities. Ongoing improvements and SCADA migration to the new SCADA system and PLC platform is required to maintain the system in good working condition. Programming to integrate various process improvements at Reclamation would be included in this budget item. These may include: Sand Filter integration work, and Sulfuric Acid/Citric Acid system programming which will be implemented in this fiscal year.

Year Built: 2000, 2010
Rehabilitation Date (Extending life of Asset): NA
Rehab Life Extension: 15 years

Justification

PLC programming updates are required to keep pace with operational changes and to maintain and optimize process control.

Budget Impact/Other

	Prior Yr	19-20	20-21	21-22	22-23	23-24	Total
Labor							\$ -
Engineering	\$ 50,000	\$ 50,000					\$ 50,000
Parts & Supplies							\$ -
Chemicals							\$ -
Utility							\$ -
Other							\$ -
Total	\$	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ 50,000

CAWD-PBCSD Reclamation Budget
2019-20

4 **FY 2019-20 Budget**
CAWD/PBCSD Reclamation Project

Contact: Treanor
Area: MF/RO
Asset Type: Miscellaneous
Avg Useful Lif: 10 years
Est Residual Li: NA
% Consumed: NA
Category: O&M
Urgency: High
Carry Forward: No

Project Name: Sound Barriers for MF/RO Pad
Agency: CAWD
Total Cost: \$ 35,000
CY Budget: \$ 35,000

Asset Description

The MF/RO Pad has a multitude of mechanical equipment that is relatively noisy. The MF/RO Pad does not have any walls which means that sound can carry out of the structure. This project would involve installing sound curtains around the North and West sides of the structure to mitigate noise escaping from this process area.

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

Justification

Reduction of low dB sound occurring offsite.

Budget Impact/Other

	Prior Yr	19-20	20-21	21-22	22-23	23-24	Total
Labor	\$	10,000					\$ 10,000
Engineering							\$ -
Parts & Supplies	\$	25,000					\$ 25,000
Chemicals							\$ -
Utility							\$ -
Other							\$ -
Total	\$	35,000	\$ -	\$ -	\$ -	\$ -	\$ 35,000

**CAWD-PBCSD Reclamation Budget
2019-20**

5 FY 2019-20 Budget
CAWD/PBCSD Reclamation Project

Project Name: WWTP Phase 2 - Reclamation Share
Agency: CAWD
Total Cost: \$ 352,000
CY Budget \$ 32,000

Contact:
Area
Asset Type:
Avg Useful Life:
Est Residual Life:
% Consumed Life:
Category:
Urgency:
Carry Forward:

Asset Description

CAWD is currently working on design of electrical rehabilitation in the effluent building and the lab building. These projects included costs which are attributable to reclamation. Currently it is estimated that about 4% of the total project is attributable to Reclamation.

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

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	19-20	20-21	21-22	22-23	23-24	Total
Labor							\$ -
Engineering		\$ 32,000	\$ 160,000	\$ 160,000			\$ 352,000
Parts & Supplies							\$ -
Chemicals							\$ -
Utility							\$ -
Other							\$ -
Total		\$ 32,000	\$ 160,000	\$ 160,000	\$ -	\$ -	\$ 352,000

**CAWD-PBCSD Reclamation Budget
2019-20**

6 FY 2019-20 Budget
CAWD/PBCSD Reclamation Project

Contact: Waggoner
Area: Tertiary
Asset Type: Process Equip (Liquid)
Avg Useful Lif: 35
Est Residual Li: 10
% Consumed L: 57
Category: Capital equipment
Urgency: very important
Carry Forward: yes

Project Name: Filter Rehabilitation
Agency: CAWD
Total Cost: \$ 30,000
CY Budget \$ 30,000

Asset Description

The tertiary Coagulation/Flocculation, sand filter system. Which includes the sandfilters wash water equipment (Delta Stack Clarifier and sludge pumps).

Year Built: 1993
Rehabilitation Date (Extendng life of Asset): 2017-2019
Rehab Life Extension: 15 yars

Justification

To finish off the Rehabilitation of the sand filter reject wash water system to optimize the sandfilters for pretreatment to the Micro Filtration Process

Budget Impact/Other

	Prior Yr	19-20	20-21	21-22	22-23	23-24	Total
Labor							\$ -
Engineering							\$ -
Parts & Supplies	\$50,000.00	\$ 30,000					\$ 30,000
Chemicals							\$ -
Utility							\$ -
Other							\$ -
Total		\$ 30,000	\$ -	\$ -	\$ -	\$ -	\$ 30,000

CAWD-PBCSD Reclamation Budget 2019-20

7 **FY 2019-20 Budget**
CAWD/PBCSD Reclamation Project

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

Project Name: Asset Analysis
Agency: CAWD
Total Cost: \$ 30,000
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 (Extendng life of Asset): NA
Rehab Life Extension: NA

Justification

Long Term Budget Planning

Budget Impact/Other

	Prior Yr	19-20	20-21	21-22	22-23	23-24	Total
Labor							\$ -
Engineering			\$ 30,000				\$ 30,000
Parts & Supplies							\$ -
Chemicals							\$ -
Utility							\$ -
Other							\$ -
Total		\$ -	\$ 30,000	\$ -	\$ -	\$ -	\$ 30,000

CAWD-PBCSD Reclamation Budget 2019-20

8 FY 2019-20 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: \$ 25,000
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 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	19-20	20-21	21-22	22-23	23-24	Total
Labor							\$ -
Engineering			\$ 25,000				\$ 25,000
Parts & Supplies							\$ -
Chemicals							\$ -
Utility							\$ -
Other							\$ -
Total		\$ -	\$ 25,000	\$ -	\$ -	\$ -	\$ 25,000

CAWD-PBCSD Reclamation Budget
2019-20

9 **FY 2019-20 Budget**
CAWD/PBCSD Reclamation Project

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

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

Asset Description

The Structures that house and equipment within thoses structures that require paint to protect the equipment from failure.

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

Justification

To protect equipment from exposure to th weather and wash down activities by the operation staff. Removing rust and repainting both the structures, piping and machinery will prolong the life of all these assets.

Budget Impact/Other

	Prior Yr	19-20	20-21	21-22	22-23	23-24	Total
Labor							\$ -
Engineering							\$ -
Parts & Supplies			\$ 25,000	\$ 25,000	\$ 25,000		\$ 75,000
Chemicals							\$ -
Utility							\$ -
Other							\$ -
Total		\$ -	\$ 25,000	\$ 25,000	\$ 25,000	\$ -	\$ 75,000

CAWD-PBCSD Reclamation Budget 2019-20

10 FY 2019-20 Budget
CAWD/PBCSD Reclamation Project

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

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

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 accumulate 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	19-20	20-21	21-22	22-23	23-24	Total
Labor			\$ 5,000				\$ 5,000
Engineering							\$ -
Parts & Supplies			\$ 10,000				\$ 10,000
Chemicals							\$ -
Utility							\$ -
Other							\$ -
Total		\$ -	\$ 15,000	\$ -	\$ -	\$ -	\$ 15,000

**CAWD-PBCSD Reclamation Budget
2019-20**

11 FY 2019-20 Budget
CAWD/PBCSD Reclamation Project

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

Project Name: Ammonia Tank Replacement
Agency: CAWD
Total Cost: \$ 75,000
CY Budget \$ -

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 (Extendng 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 double contained storage tank to reduce the number of deliveries through out the year.

Budget Impact/Other

	Prior Yr	19-20	20-21	21-22	22-23	23-24	Total
Labor				\$ 20,000			\$ 20,000
Engineering				\$ 10,000			\$ 10,000
Parts & Supplies				\$ 35,000			\$ 35,000
Chemicals							\$ -
Utility							\$ -
Other				\$ 10,000			\$ 10,000
Total		\$ -	\$ -	\$ 75,000	\$ -	\$ -	\$ 75,000

**CAWD-PBCSD Reclamation Budget
2019-20**

12 FY 2019-20 Budget
CAWD/PBCSD Reclamation Project

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

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

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

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 gallon totes that the operation staff manually transports on the tertiary building floor.

Budget Impact/Other

	Prior Yr	19-20	20-21	21-22	22-23	23-24	Total
Labor					\$15,000		\$ 15,000
Engineering					\$ 10,000		\$ 10,000
Parts & Supplies					\$ 40,000		\$ 40,000
Chemicals							\$ -
Utility							\$ -
Other					\$ 10,000		\$ 10,000
Total		\$ -	\$ -	\$ -	\$ 75,000	\$ -	\$ 75,000

CAWD-PBCSD Reclamation Budget 2019-20

13 FY 2019-20 Budget
CAWD/PBCSD Reclamation Project

Contact: Treanor
Area: Tertiary
Asset Type: Piping (buried)
Avg Useful Lif NA
Est Residual Li NA
% Consumed I NA
Category: Capital Improvement
Urgency: Unscheduled
Carry Forward: No

Project Name: Permanent Sand Filter Feed Effluent Piping to MF
Agency: CAWD
Total Cost: \$ 400,000
CY Budget \$ -

Asset Description

CAWD has recently constructed a temporary piping system for conveying water from the Sand Filter Effluent to the MF System in order to test run these systems in series to reduce the load on the MF by removing suspended solids in the sand filters and to increase recovery in the RO by removing phosphorous via coagulation and flocculation upstream of the Sand Filters. The temporary conveyance piping installed will not have a long lifecycle and if the test operation works well it may be desirable to install more permanent conveyance infrastructure.

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

Justification

This work is unsheduled pending results of pilot testing Coag/Flocc and Sand Filters. The justification would be for long term operation of the Coag/Flocc/Sand Filters upstream of the MF/RO facility if test runs show positive results in reducing loading of the MF membrane and increasing recovery of the RO system.

Budget Impact/Other

	Prior Yr	19-20	20-21	21-22	22-23	23-24	Total
Labor							\$ -
Engineering							\$ -
Parts & Supplies							\$ -
Chemicals							\$ -
Utility							\$ -
Other							\$ -
Total		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

**CAWD-PBCSD Reclamation Budget
2019-20**

14 FY 2019-20 Budget
CAWD/PBCSD Reclamation Project

Contact: Becker
Area: Viscaino
Asset Type: Tank
Avg Useful Lif NA
Est Residual Li NA
% Consumed L NA
Category: Capital Improvement
Urgency:
Carry Forward: No

Project Name: Storage Tank Rehabilitation
Agency: PBCSD
Total Cost: \$ 1,600,000
CY Budget \$ 1,600,000

Asset Description

Rehabilitation of the 2.5MG recycled water storage tank including structural repairs, cathodic protection replacement, and interior and exterior coating.

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

Justification

Budget Impact/Other

	Prior Yr	19-20	20-21	21-22	22-23	23-24	Total
Labor							\$ -
Engineering		\$ 1,600,000					\$ 1,600,000
Parts & Supplies							\$ -
Chemicals							\$ -
Utility							\$ -
Other							\$ -
Total		\$ 1,600,000	\$ -	\$ -	\$ -	\$ -	\$ 1,600,000

CAWD-PBCSD Reclamation Budget
2019-20

15 **FY 2019-20 Budget**
CAWD/PBCSD Reclamation Project

Contact: Becker
Area: Irrigation System
Asset Type: Tank
Avg Useful Lif NA
Est Residual Li NA
% Consumed I NA
Category: Capital Improvement
Urgency: Unscheduled
Carry Forward: No

Project Name: Flow Meter Measuring System
Agency: PBCSD
Total Cost: \$ 100,000
CY Budget

Asset Description
Replace the irrigation meters and remote sensors on vault lids to allow recycled water meter readings to be electronically recorded without lifting the meter vault doors.

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

Justification

Budget Impact/Other							
	Prior Yr	19-20	20-21	21-22	22-23	23-24	Total
Labor							\$ -
Engineering			\$ 100,000				\$ 100,000
Parts & Supplies							\$ -
Chemicals							\$ -
Utility							\$ -
Other							\$ -
Total		\$ -	\$ 100,000	\$ -	\$ -	\$ -	\$ 100,000

**CAWD-PBCSD Reclamation Budget
2019-20**

16 FY 2019-20 Budget
CAWD/PBCSD Reclamation Project

Contact: Becker
Area: Source Wells
Asset Type: Wells
Avg Useful Lif NA
Est Residual Li NA
% Consumed I NA
Category: Capital Improvement
Urgency: Unscheduled
Carry Forward: No

Project Name: MPCC Coastline Well
Agency: PBCSD
Total Cost: \$ 100,000
CY Budget \$ 100,000

Asset Description

Drill well near MPCC coastline to augment water supply.

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

Justification

Water supply

Budget Impact/Other

	Prior Yr	19-20	20-21	21-22	22-23	23-24	Total
Labor							\$ -
Engineering		\$ 100,000					\$ 100,000
Parts & Supplies							\$ -
Chemicals							\$ -
Utility							\$ -
Other							\$ -
Total		\$ 100,000	\$ -	\$ -	\$ -	\$ -	\$ 100,000

**CAWD-PBCSD Reclamation Budget
2019-20**

a **FY 2019-20 Budget**
CAWD/PBCSD Reclamation Project

Contact: Waggoner
Area Tertiary
Asset Type: Pump Station
Avg Useful Lif 15 years
Est Residual Li new
% Consumed I 0
Category: Capital Equipment
Urgency: 2=Very Important
Carry Forward: No

Project Name: Flygt Pump backup to filter feed to MF
Agency CAWD
Total Cost: \$ 30,000
CY Budget \$ 30,000

Asset Description

Feed (Back up) pump and controls to send Tertiary Filtered water from the Emergency Reject Sump to the Micro Filtration System.

Year Built: 2019
Rehabilitation Date (Extendng life of Asset): N/A
Rehab Life Extension: N/A

Justification

This pump will provide redundancy to the new flow process from the Coagulation/Flocculation system followed by Sand filtration to feed the Micro Filtration process.

Budget Impact/Other

	Prior Yr	19-20	20-21	21-22	22-23	23-24	Total
Labor							\$ -
Engineering							\$ -
Parts & Supplies		\$28,000					\$ 28,000
Chemicals							\$ -
Utility							\$ -
Other		\$ 2,000					\$ 2,000
Total		\$ 30,000	\$ -	\$ -	\$ -	\$ -	\$ 30,000

**CAWD-PBCSD Reclamation Budget
2019-20**

b FY 2019-20 Budget
CAWD/PBCSD Reclamation Project

Contact: Waggoner
Area: Misc Structures
Asset Type: Support Equipment
Avg Useful Lif 15 years
Est Residual Li 1 Years
% Consumed L 98%
Category: Capital Equipment
Urgency: 1=Critical
Carry Forward: No

Project Name: Ammonia Distillation Unit (50% CAWD)
Agency: CAWD
Total Cost: \$ 17,758
CY Budget \$ 17,758

Asset Description

The Ammonia Distillation unit is used to digest ammonia in the wastewater to obtain a mg/L values that is used for plant process control for a the plant including anaerobic digestion. The same value results are used for the NPDES Permit on the ocean outfall line for both Secondary ar Pollutants limitations.

Year Built: 3-Jan
Rehabilitation Date (Extending life of Asset): 18-Feb
Rehab Life Extension: 1 Year

Justification

The current Ammonia Distillation unit (Foss Kjeltec 2200) has been in operation since January 2003. The Foss North American, Inc. represer informed CAWD staff that Foss ended their support services and has no replacement parts available to purchase after 2018. CAWD staff recc is to purchase the current replacement model Foss Kjeltec 8200 distillation unit recommended by the manufacturer.
50% CAWD

Budget Impact/Other

	Prior Yr	19-20	20-21	21-22	22-23	23-24	Total
Labor		\$5,720					\$ 5,720
Engineering							\$ -
Parts & Supplies		\$11,130					\$ 11,130
Chemicals							\$ -
Utility							\$ -
Other		\$908					\$ 908
Total		\$ 17,758	\$ -	\$ -	\$ -	\$ -	\$ 17,758

**CAWD-PBCSD Reclamation Budget
2019-20**

c FY 2019-20 Budget
CAWD/PBCSD Reclamation Project

Contact: Waggoner
Area: Misc Structures
Asset Type: Support equipment
Avg Useful Lif: 10 years
Est Residual Li: 1 Year
% Consumed L: 97
Category: Capital Equipment
Urgency: 2+ Very Important
Carry Forward: Yes

Project Name: Laboratory Ion Chromatograph (10% CAWD)
Agency: CAWD
Total Cost: \$ 150,000
CY Budget: \$ -

Asset Description

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

Year Built: 5-Jul
Rehabilitation Date (Extending life of Asset): N/A
Rehab Life Extension: N/A

Justification

The Ion Chromatography unit is coming to the end of its useful life as outlined by the manufacturer service representative. The manufacture of Chromatography unit will stop supporting parts and services in the next two years. Once that support stops replacement parts and consumables will be difficult to obtain along with service request of the equipment.
10% CAWD

Budget Impact/Other

	Prior Yr	19-20	20-21	21-22	22-23	23-24	Total
Labor							\$ -
Engineering							\$ -
Parts & Supplies			\$150,000				\$ 150,000
Chemicals							\$ -
Utility							\$ -
Other							\$ -
Total		\$ -	\$ 150,000	\$ -	\$ -	\$ -	\$ 150,000

**CAWD-PBCSD Reclamation Budget
2019-20**

d FY 2019-20 Budget
CAWD/PBCSD Reclamation Project

Contact: Waggoner
Area: Misc Structure
Asset Type: Support Equipment
Avg Useful Lif: 20 years
Est Residual Li: 20 years
% Consumed L: 89
Category: Capital Equipment
Urgency: 3=Important
Carry Forward: yes

Project Name: Laborator Autoclave (50% CAWD)
Agency: CAWD
Total Cost: \$ 16,000
CY Budget: \$ -

Asset Description

The autoclave is used to conduct NPDES permit coliform tests and to destroy samples that are completed prior to disposal. It is essential to cc permit required analysis and maintain compliance with EPA and ELAP requirements.

Year Built: Jun-93
Rehabilitation Date (Extendng 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.
50% CAWD

Budget Impact/Other

	Prior Yr	19-20	20-21	21-22	22-23	23-24	Total
Labor							\$ -
Engineering							\$ -
Parts & Supplies				\$ 16,000			\$ 16,000
Chemicals							\$ -
Utility							\$ -
Other							\$ -
Total		\$ -	\$ -	\$ 16,000	\$ -	\$ -	\$ 16,000

CAWD-PBCSD Reclamation Budget 2019-20

e **FY 2019-20 Budget**
CAWD/PBCSD Reclamation Project

Contact: Waggoner
Area Misc Structures
Asset Type:
Avg Useful Lif 10 Years
Est Residual Li 3 years
% Consumed L 77
Category: Capital Equipment
Urgency: 3-Important
Carry Forward: Yes

Project Name: Laboratory Muffle Furnace (50% CAWD)
Agency CAWD
Total Cost: \$ 13,500
CY Budget \$ -

Asset Description

The muffle furnace is used in the laboratory to provide the Operations Department with process control data on the Volatile Total Suspended data from the percent volatile solids is used for monthly and annual NPDES reporting.

Year Built: 2011
Rehabilitation Date (Extending life of Asset): 16-Apr-16
Rehab Life Extension:

Justification

The muffle furnace was purchased during 2011 and repaired in 2016. The service report stated that this unit model is no longer produced and limited at this time.
50% CAWD

Budget Impact/Other

	Prior Yr	19-20	20-21	21-22	22-23	23-24	Total
Labor							\$ -
Engineering							\$ -
Parts & Supplies				\$ 13,500			\$ 13,500
Chemicals							\$ -
Utility							\$ -
Other							\$ -
Total		\$ -	\$ -	\$ 13,500	\$ -	\$ -	\$ 13,500

**CAWD-PBCSD Reclamation Budget
2019-20**

f FY 2019-20 Budget
CAWD/PBCSD Reclamation Project

Contact: Waggoner
Area: Misc Structures
Asset Type: Support Equipment
Avg Useful Lif: 10 years
Est Residual Li: 5 years
% Consumed: 80
Category: Capital Equipment
Urgency: 2=Very Important
Carry Forward: Yes

Project Name: Laboratory BOD Incubator (50% CAWD)
Agency: CAWD
Total Cost: \$ 13,000
CY Budget: \$ -

Asset Description

The BOD incubator is used to incubate the BOD analysis samples at a specific temperature of 20.0 C. This is a NPDES required analysis for and for CAWD NPDES permit.

Year Built: 2004
Rehabilitation Date (Extending life of Asset): 9-Jul-18
Rehab Life Extension: 2 years

Justification

The incubator was purchased in 2004 and remains operating 24 hours a day and is close to its average useful life. Service technicians replaced compressor in 2017 which can give the unit 2 to 3 years of useful service. The BOD analysis is a NPDES permit requirement making this a critical equipment in the laboratory to remain compliant to the permits.
50% CAWD

Budget Impact/Other

	Prior Yr	19-20	20-21	21-22	22-23	23-24	Total
Labor							\$ -
Engineering							\$ -
Parts & Supplies				\$ 13,000			\$ 13,000
Chemicals							\$ -
Utility							\$ -
Other							\$ -
Total		\$ -	\$ -	\$ 13,000	\$ -	\$ -	\$ 13,000

CAWD-PBCSD Reclamation Budget 2019-20

g **FY 2019-20 Budget**
CAWD/PBCSD Reclamation Project

Contact: Becker
Area SCADA
Asset Type: Support Equipment
Avg Useful Life:
Est Residual Life:
% Consumed Life:
Category: Capital Equipment
Urgency: 2=Very Important
Carry Forward: Yes

Project Name: SCADA System Remote Hardware
Agency PBCSD
Total Cost: \$ 80,000
CY Budget \$ -

Asset Description

Update of the SCADA System Hardware & Software at Reclamation facilities

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

Justification

Budget Impact/Other

	Prior Yr	19-20	20-21	21-22	22-23	23-24	Total
Labor							\$ -
Engineering							\$ -
Parts & Supplies			\$ 80,000				\$ 80,000
Chemicals							\$ -
Utility							\$ -
Other							\$ -
Total		\$ -	\$ 80,000	\$ -	\$ -	\$ -	\$ 80,000