



M&I 2022 Sch A-11 F.Z24.XLSM
09/21/2021

CENTRAL VALLEY PROJECT
SCHEDULE OF ESTIMATED M&I DIRECT PUMPING OPERATION & MAINTENANCE COSTS
2022 M&I WATER RATES

A	B	C	D	E	F	G	H	I	J	K
Ref	Projected 2022 Deliveries									
	Contra Costa PP <Sch A-12>	Dos Amigos PP-CVC <Sch A-12>	Pleasant Valley PP <Sch A-12>	San Luis WD Relifts <Sch A-12>	State- Delta PP <Sch A-12>	T-C Canal Relifts Colusa County WD <Sch A-12>	T-C Canal Relifts Kanawha WD <Sch A-12>	Westlands WD Relifts <Sch A-12>	Wintu PP <Sch A-12>	Shasta PP <Sch A-12>
Contra Costa Canal										
Contra Costa WD	84,489									
Cow Creek Unit										
Bella Vista WD									3,934	
Cross Valley Canal										
County of Fresno		86				86				
County of Tulare		192				192				
San Luis Canal - Fresno										
City of Coalinga			5,584							
Westlands WD								2,670		
San Luis Canal - Tracy										
San Luis WD				442						
Tehama-Colusa Canal										
Colusa County WD						125				
Kanawha WD								23		
Toyon Pipeline										
City of Shasta Lake										1,178
Total Deliveries	84,489	278	5,584	442	278	125	23	2,670	3,934	1,178
Est. 2022 Non-Recurring O&M Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Est. 2022 O&M Cost	\$ 1,225,017	\$ 2,383	\$ 152,889	\$ 10,279	\$ 3,603	\$ 1,890	\$ 40	\$ 23,193	\$ 124,821	\$ 1,755
Total (Sch. A-9)	\$ 1,225,017	\$ 2,383	\$ 152,889	\$ 10,279	\$ 3,603	\$ 1,890	\$ 40	\$ 23,193	\$ 124,821	\$ 1,755
Direct Pumping: 1/										
Cost Per A/F Remittance to WAPA	\$ 14.50			\$ 23.28		\$ 15.10	\$ 1.79	\$ 8.69		
Cost Per A/F Offset for Direct Pumping		\$ 8.57	\$ 27.38		\$ 12.96				\$ 31.73	\$ 1.49
Other PUE Remittance to WAPA: 1/										
Paid as Other PUE	\$ 259,553			\$ 2,178		\$ 400	\$ 9	\$ 4,914		
Paid thru Direct Pumping PUE	\$ 3.07			\$ 4.93		\$ 3.20	\$ 0.38	\$ 1.84		
Credit in O&M Rate for Other PUE	\$ (3.07)			\$ (4.93)		\$ (3.20)	\$ (0.38)	\$ (1.84)		

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A	B	C	D	E	F	G	H	I	J	K
	San Felipe Out-of-Basin									
Ref	Gianelli PP <Sch A-12>	Coyote PP <Sch A-12>	Pacheco PP <Sch A-12>							
San Felipe Unit										
San Benito County WD	5,406		5,406							
Santa Clara Valley WD	81,932	81,932	81,932							
Total Deliveries	87,338	81,932	87,338							
Est. 2022 Non-Recurring O&M Cost	\$ -	\$ -	\$ -							
Est. 2022 O&M Cost	\$ 234,664	\$ 91,063	\$ 1,031,645							
Total (Sch. A-9)	\$ 234,664	\$ 91,063	\$ 1,031,645							
Direct Pumping: 1/										
Cost Per A/F Remittance to WAPA	\$ 2.69	\$ 1.11	\$ 11.81							
Cost Per A/F Offset for Direct Pumping										
Other PUE Remittance to WAPA: 1/										
Paid as Other PUE	\$ 49,719.89	\$ 19,294.16	\$ 218,582.12							
Paid thru Direct Pumping PUE	\$ 0.57	\$ 0.24	\$ 2.50							
Credit in O&M Rate for Other PUE	\$ (0.57)	\$ (0.24)	\$ (2.50)							

FOOTNOTES:

1/ Project Use Energy payment is being remitted to Western Area Power Authority for storage and direct pumping based on the deliveries of a select few contractors. The rates for the select few contractors are reduced as a credit in the O&M rates. All contractors will ultimately pay for the storage and direct pumping service but as an offset to the amount paid by the select few.

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A	B		C		D		E		F		G		H		I	
Ref	Acre-Feet		Ratio of Acre-Feet		Total		Total \$		For Water Ratesetting		M&I		Irrigation			
	<Sch A-12>	<Sch A-12>	(B/(B+C))	(C/(B+C))	(D+E)	<Meter Costs>	(D*G)	(E*G)								

Used in Schedule 9

Storage:

Friant D&R	176	N/A	100.00%	100.00%	\$ 10,354	\$ 10,354	\$ -
Shasta D&R (Includes Jdg F Carr PH)	1,157	2,674	30.20%	69.80%	\$ 405,016	\$ 122,328	\$ 282,688
Columbia Mowry (Based on Avg. KWH's)	86,894	481,773	15.28%	84.72%	\$ 20,103	\$ 3,072	\$ 17,031
Folsom Pump Plant	32,649	N/A	100.00%	100.00%	\$ 85,936	\$ 85,936	\$ -
New Melones Dam & Reservoir	24,682	21,013	54.01%	45.99%	\$ -	\$ -	\$ -
Gianelli WR Pump-Gen Plt	253,396	1,422,453	15.12%	84.88%	\$ 4,502,730	\$ 680,833	\$ 3,821,897
Regen. Credit - San Luis PP	253,396	1,422,453	15.12%	84.88%	\$ (4,188,525)	\$ (633,324)	\$ (3,555,201)
SFU Gianelli WR PGP (Direct Pumping)	87,338	19,767	81.54%	18.46%	\$ -	\$ -	\$ -

Offsetting Revenue for PUE Paid to WAPA

\$ 269,199	\$ 566,415
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Conveyance Pumping (Direct Bill):

Corning Pumping Plant	N/A	6,011	100.00%	100.00%	\$ 185,319	\$ -	\$ 185,319
Dos Amigos Pumping Plant	11,809	444,421	2.59%	97.41%	\$ 3,911,106	\$ 101,231	\$ 3,809,875
O'Neill Pump-Gen Plt	99,569	466,158	17.60%	82.40%	\$ 2,362,627	\$ 415,826	\$ 1,946,801
Regen. Credit - O'Neill Pump-Gen Plt	99,569	466,158	17.60%	82.40%	\$ (194,242)	\$ (34,187)	\$ (160,055)
Jones Pumping Plant	153,777	1,075,398	12.51%	87.49%	\$ 12,166,647	\$ 1,522,120	\$ 10,644,527
In-Lieu of Jones Pumping					\$ 453,277	\$ -	\$ 453,277

Total Conveyance Pumping Direct Bill

\$ 2,004,989	\$ 16,879,743
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2022 M&I WATER RATES

A	B		C		D		E		F		G		H		I		
Ref	Acre-Feet		Ratio of Acre-Feet			Total \$		For Water Ratesetting									
	M&I <Sch A-12>	Irrigation <Sch A-12>	M&I (B/(B+C))	Irrigation (C/(B+C))	Total (D+E)	Total \$ <Meter Costs>	M&I (D*G)	Irrigation (E*G)									
Used in Schedule 11 Page 1																	
Direct Pumping:																	
Gianelli PGP - SFU	87,338	19,767	81.54%	18.46%	100.00%	\$ 287,773	\$ 234,664	\$ 53,110									
Contra Costa PP	84,489	-	100.00%		100.00%	\$ 1,225,017	\$ 1,225,017	\$ -									
Colusa CWD (Incl. Arb./Will O&M Office)	125	24,421	0.51%	99.49%	100.00%	\$ 370,667	\$ 1,890	\$ 368,777									
Kanawha WD	23	21,122	0.11%	99.89%	100.00%	\$ 37,858	\$ 40	\$ 37,818									
Orland-Artois WD	N/A	16,780		100.00%	100.00%	\$ 88,965	\$ -	\$ 88,965									
Pleasant Valley PP	-	17,656		100.00%	100.00%	\$ 483,405	\$ -	\$ 483,405									
Pleasant Valley Relifts	N/A	22,070		100.00%	100.00%	\$ 78,222	\$ -	\$ 78,222									
San Luis WD Relifts	442	28,144	1.54%	98.46%	100.00%	\$ 665,412	\$ 10,279	\$ 655,134									
Westlands WD Relifts	2,670	356,797	0.74%	99.26%	100.00%	\$ 3,122,226	\$ 23,193	\$ 3,099,032									
Coyote PP - Out of Basin	40,966	6,137	86.97%	13.03%	100.00%	\$ 104,704	\$ 91,063	\$ 13,641									
Pacheco PP - Out of Basin	87,338	19,767	81.54%	18.46%	100.00%	\$ 1,265,128	\$ 1,031,645	\$ 233,484									
Paid Directly As PUE to WAPA								2,617,791			5,111,586						
Glenn Valley WD	N/A	875		100.00%	100.00%	\$ -	\$ -	\$ -									
Corning WD	N/A	5,458		100.00%	100.00%	\$ 55,197	\$ -	\$ 55,197									
Dunnigan WD	N/A	6,424		100.00%	100.00%	\$ 7,150	\$ -	\$ 7,150									
Westside WD	N/A	29,768		100.00%	100.00%	\$ 64,618	\$ -	\$ 64,618									
Proberta WD	N/A	205		100.00%	100.00%	\$ 492	\$ -	\$ 492									
Panoche WD - SLC	N/A	18,586		100.00%	100.00%	\$ 393	\$ -	\$ 393									
Pleasant Valley PP (City of Coalinga)	5,584	-	100.00%		100.00%	\$ 152,889	\$ 152,889	\$ -									
State-Delta PP - Cross Valley Canal (CVC)	278	14,505	1.88%	98.12%	100.00%	\$ 191,606	\$ 3,603	\$ 188,003									
Dos Amigos PP - CVC (Offset with Direct Pumping)	278	14,505	1.88%	98.12%	100.00%	\$ 126,733	\$ 2,383	\$ 124,350									
Wintu PP	3,934	2,845	58.03%	41.97%	100.00%	\$ 215,096	\$ 124,821	\$ 90,275									
City of Shasta Lake (Shasta PP)	1,178	-	100.00%		100.00%	\$ 1,755	\$ 1,755	\$ -									
Offsetting Revenue for PUE Paid to WAPA								285,452			530,478						
Direct Pumping Total								\$ 2,903,242			\$ 5,642,064						
Reimbursable Billing						\$ 5,820											
Project General						\$ 20,409											
Nonreimbursable F&W						\$ 7,990											
Nonreimbursable Demo Treatment						\$ 4,650											
						\$ 28,304,522	\$ 5,177,430	\$ 23,088,223									

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2022 M&I WATER RATES

A	B		C		D		E		F		G	
	Cost to Determine Ratio				Ratio				Distribution			
Ref	M&I		Irrigation		M&I		Irrigation		M&I		Irrigation	
Offsetting Revenue for Storage PUE Paid to WAPA	\$	269,199	\$	566,415								
Offsetting Revenue for Direct Pumping PUE Paid to WAPA	\$	285,452	\$	530,478								
Offsetting Revenue for Unpaid Costs from Current B6A	\$	-	\$	-								
Total Offsetting Revenue	\$	554,650	\$	1,096,893								

Determination of PUE sent to WAPA:

Based on Direct Pumping Cost:

Gianelli PGP - SFU	\$	234,664	\$	53,110	8.96%	1.04%	\$	49,720	11,397
Contra Costa PP	\$	1,225,017	\$	-	46.80%		\$	259,553	
Colusa CWD (Incl. Arb./Will O&M Office)	\$	1,890	\$	368,777	0.07%	7.21%	\$	400	79,136
Kanawha WD	\$	40	\$	37,818	0.00%	0.74%	\$	9	8,115
Orland-Artois WD	\$	-	\$	88,965		1.74%	\$	-	19,091
Pleasant Valley PP	\$	-	\$	483,405		9.46%	\$	-	103,734
Pleasant Valley Relifts	\$	-	\$	78,222		1.53%	\$	-	16,786
San Luis WD Relifts	\$	10,279	\$	655,134	0.39%	12.82%	\$	2,178	140,585
Westlands WD Relifts	\$	23,193	\$	3,099,032	0.89%	60.63%	\$	4,914	665,020
Coyote PP - Out of Basin	\$	91,063	\$	13,641	3.48%	0.27%	\$	19,294	2,927
Pacheco PP - Out of Basin	\$	1,031,645	\$	233,484	39.41%	4.57%	\$	218,582	50,103
Total for Determining Rates to Remit to WAPA	\$	2,617,791	\$	5,111,586	100.00%	100.00%	\$	554,650	\$ 1,096,893