



CENTRAL VALLEY PROJECT
SCHEDULE OF IRRIGATION ESTIMATED OPERATION & MAINTENANCE COSTS
BY FACILITY AND/OR COMPONENT
2022 IRRIGATION WATER RATES

A		B	C	D
Facility/Contractor		Estimated O&M & Corps Expense	Estimated Project Use Energy Cost < A-11 >	Total Estimated Costs (B+C)
Ref				
Storage				
	American River	\$ 86,432	\$ -	\$ 86,432
	Black Butte Reservoir	\$ 815,110	\$ -	\$ 815,110
	Buchanan Reservoir	\$ 735,607	\$ -	\$ 735,607
	Clair A. Hill Whiskeytown Dam	\$ 122,286	\$ -	\$ 122,286
	Clear Creek Tunnel	\$ 38,598	\$ -	\$ 38,598
	Columbia-Mowry System	\$ 239,426	\$ 17,031	\$ 256,457
	Delta Cross Channel	\$ 142,704	\$ -	\$ 142,704
	Folsom D & R	\$ 1,078,268	\$ -	\$ 1,078,268
	Folsom Pumping Plant	\$ 634,240	\$ -	\$ 634,240
	Friant D & R	\$ 1,504,640	\$ -	\$ 1,504,640
	Gianelli, WR Pump Generator Plant	\$ -	\$ 3,821,897	\$ 3,821,897
	Less: WRGPGP Dir Pump	\$ -	\$ -	\$ -
	Regeneration Credit	\$ -	\$ (3,555,201)	\$ (3,555,201)
	Hidden Reservoir	\$ 261,059	\$ -	\$ 261,059
	New Melones D&R	\$ 47,816	\$ -	\$ 47,816
	New Melones Long Term Operating Plan	\$ 106,051	\$ -	\$ 106,051
	Nimbus D&R	\$ 122,983	\$ -	\$ 122,983
	Sacramento River	\$ 438,167	\$ -	\$ 438,167
	San Joaquin River	\$ 58,336	\$ -	\$ 58,336
	San Luis Unit - Other Routine O&M Costs - Joint	\$ 4,465,680	\$ -	\$ 4,465,680
	Security Costs	\$ 2,982,260	\$ -	\$ 2,982,260
	Shasta D&R	\$ 1,303,237	\$ 282,688	\$ 1,585,925
	Trinity D&R & Clair Eagle Lake	\$ 159,992	\$ -	\$ 159,992
	Water Forum - American River Division	\$ 18,390	\$ -	\$ 18,390
	Total Storage including PUE Offset	\$ 15,361,282	\$ 566,415	\$ 15,927,697
	Storage PUE Credit	\$ -	\$ (566,415)	\$ (566,415)
	Storage PUE Credit	\$ -	\$ (566,415)	\$ (566,415)
Conveyance				
	DMC Regulatory Actions	\$ 44,154	\$ -	\$ 44,154

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Facility/Contractor Ref	Estimated O&M & Corps Expense	Estimated Project Use Energy Cost < A-11>	Total Estimated Costs (B+C)
Friant-Kern Canal	\$ 8,383	\$ -	\$ 8,383
Little Panoche Detention Dam	\$ 5,866	\$ -	\$ 5,866
Los Banos Creek Detention Dam - O&M Joint	\$ 234	\$ -	\$ 234
Madera Canal	\$ 8,000	\$ -	\$ 8,000
South Delta Hydrodynamics Fish Inv.	\$ -	\$ -	\$ -
San Luis Canal	\$ -	\$ -	\$ -
Water Wheeling Cost -Unfunded	\$ -	\$ -	\$ -
Tehama-Colusa Canal	\$ 36,945	\$ -	\$ 36,945
San Luis Canal - Federal Only	\$ -	\$ -	\$ -
Drainage Projects	\$ 1,623,794	\$ -	\$ 1,623,794
Total Conveyance	\$ 1,727,376	\$ -	\$ 1,727,376
Less: Direct Billed	\$ (1,727,376)	\$ -	\$ (1,727,376)
Net Conveyance	\$ -	\$ -	\$ -
Conveyance Pumping			
Corning Pumping Plant	\$ -	\$ 185,319	\$ 185,319
Dos Amigos Pumping Plant	\$ -	\$ 3,809,875	\$ 3,809,875
O'Neill Pump Gen Plant - Federal	\$ -	\$ 1,786,745	\$ 1,786,745
Jones Pumping Plant	\$ -	\$ 11,097,804	\$ 11,097,804
Total Conveyance Pumping	\$ -	\$ 16,879,743	\$ 16,879,743
Less: Direct Billed	\$ -	\$ (16,879,743)	\$ (16,879,743)
Net Conveyance Pumping	\$ -	\$ -	\$ -
Direct Pumping			
Colusa County WD	\$ -	\$ 368,777	\$ 368,777
Corning WD	\$ -	\$ 55,197	\$ 55,197
Cross Valley Canal Contractors (Dos Amigos & Banks)	\$ -	\$ 312,353	\$ 312,353
Dunnigan WD	\$ -	\$ 7,150	\$ 7,150
Kanawha WD	\$ -	\$ 37,818	\$ 37,818
Orland-Artois WD	\$ -	\$ 88,965	\$ 88,965
Panoche WD	\$ -	\$ 393	\$ 393
Proberta WD	\$ -	\$ 492	\$ 492
San Benito County WD			
Gianelli, WR Pump Generator	1/ \$ -	\$ 20,134	\$ 20,134
Pacheco PP	1/ \$ -	\$ 88,514	\$ 88,514
Glenn Valley WD	\$ -	\$ -	\$ -
Santa Clara Valley WD			
Coyote PP	1/ \$ -	\$ 13,641	\$ 13,641
Gianelli, WR Pump Generator	1/ \$ -	\$ 32,976	\$ 32,976
Pacheco PP	1/ \$ -	\$ 144,970	\$ 144,970

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Facility/Contractor Ref	Estimated O&M & Corps Expense	Estimated Project Use Energy Cost < A-11 >	Total Estimated Costs (B+C)
San Luis WD	\$ -	\$ 655,134	\$ 655,134
Westlands WD:			
Pleasant Valley PP	\$ -	\$ 483,405	\$ 483,405
Pleasant Valley Relifts	\$ -	\$ 78,222	\$ 78,222
Westlands WD Relifts	\$ -	\$ 3,099,032	\$ 3,099,032
Westside WD	\$ -	\$ 64,618	\$ 64,618
Wintu PP (Bella Vista WD)	\$ -	\$ 90,275	\$ 90,275
Total Direct Pumping	\$ -	\$ 5,642,064	\$ 5,642,064
Direct Pumping to WAPA (Specific Users)	\$ -	\$ (5,111,586)	\$ (5,111,586)
Direct Pumping Credit/to WAPA	\$ -	\$ (530,478)	\$ (530,478)
Direct Pumping in Ratesetting	\$ -	\$ (0)	\$ (0)
Sub-total	\$ 15,361,282	\$ -	\$ 15,361,282
Non-Recurring O&M			
Storage			
Gianelli Pump/Gen Plant - San Felipe Unit	\$ -	\$ -	\$ -
Gianelli Pump/Gen Plant - All Other Contractors	\$ 1,835,027	\$ 14,936	\$ 1,849,964
All Other Storage	\$ 2,783,722	\$ 16,786	\$ 2,800,508
Total Non-Recurring Storage	\$ 4,618,749	\$ 31,722	\$ 4,650,471
Conveyance			
Less Direct Billed	\$ 976,801	\$ -	\$ 976,801
Net Conveyance Pumping	\$ (976,801)	\$ -	\$ (976,801)
Conveyance Pumping			
Less Direct Billed	\$ 1,465,202	\$ 945,350	\$ 2,410,551
Net Conveyance Pumping	\$ (1,465,202)	\$ (945,350)	\$ (2,410,551)
Direct Pumping			
Net Conveyance Pumping	\$ -	\$ -	\$ -
Direct Pumping	\$ 25,500	\$ 315,984	\$ 341,483
Total Non-Recurring Costs	\$ 4,644,249	\$ 347,706	\$ 4,991,955
Water Marketing Expense			
Suisun Marsh Protection	\$ 541,200	\$ -	\$ 541,200
Contract Administration	\$ 6,320,088	\$ -	\$ 6,320,088
Water & Power Systems Control	\$ 6,502,238	\$ -	\$ 6,502,238
Other Expenses	\$ 9,970,160	\$ -	\$ 9,970,160
Hazardous Material Management Program	\$ 315,458	\$ -	\$ 315,458
General Expense	\$ 403,662	\$ -	\$ 403,662
Coleman National Fish Hatchery	\$ 1,979,071	\$ -	\$ 1,979,071
Water Wheeling Cost	\$ 1,965,351	\$ -	\$ 1,965,351
Less: Non-Permanent Contractor Revenue	\$ (451,421)	\$ -	\$ (451,421)
Total Water Marketing	\$ 27,545,807	\$ -	\$ 27,545,807
Grand Total	\$ 47,551,338	\$ 347,706	\$ 47,899,043

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Footnotes:

1/ Suballocation of San Felipe Unit Direct Pumping Costs:

Contractor	2022 Projected Deliveries (Sch A-12)	Ratios	Direct Pumping Allocation (Sch A-11)			
			William R. Gianelli Pump-Generator Plant PUE	Pacheco PP	Coyote PP	Grand Total
San Benito County WD	7,494	0.37910	\$ 20,134	\$ 88,514	\$ -	\$ 108,648
Santa Clara Valley WD	12,273	0.62090	\$ 32,976	\$ 144,970	\$ 13,641	\$ 191,587
Total San Felipe	19,767	1.00000	\$ 53,110	\$ 233,484	\$ 13,641	\$ 300,234
Total San Felipe	19,767	0.01371				
All Other Contractors	1,422,453	0.98629				
Total Storage Del.	1,442,219	1.00000				

2/ Storage Costs are broken down between San Felipe Unit Contractors and all others as follows:

	San Felipe Unit Storage	All Other Contractors Storage	Total
Projected 2022 Storage Deliveries	19,767	1,422,453	1,442,219
Ratios	0.01371	0.98629	1.00000
Allocated Gianelli, WR Pump Generator Costs - Routine			
Project Use Costs	*	\$ 3,821,897	\$ 3,821,897
Regeneration Credit	\$ -	\$ (3,555,201)	\$ (3,555,201)
Allocated Storage O&M Costs	\$ 214,712	\$ 15,446,289	\$ 15,661,001
Allocated Storage O&M Costs - Non-Recurring O&M	\$ 38,395	\$ 2,762,113	\$ 2,800,508
Allocated Gianelli, WR Pump Generator Costs- XM			\$ -
Gianelli (includes PUE)		1,849,963.54	\$ 1,849,964
Total	\$ 253,107	\$ 20,325,061	\$ 20,578,168
Cost per Acre-foot (to Schedule A-8)	\$ 12.80	\$ 14.29	

* San Felipe Unit contractors' share of the William R. Gianelli PG PUE has been included in the direct pumping section (See Schedule 11, page 4)

3/ 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. Refer to schedule A-11 for calculation details.

4/ Billing process to be determined.

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5/ Non-recurring Direct Pumping (XM) rate to Schedule A-2A.

	Irrigation Costs Estimate for 2022	Projected Deliveries from Sch A-12	2022 Water Rate	
Corning WD - CC	\$ 3,091.31	5,458	\$	0.57
Proberta WD - CC	\$ 27.54	205	\$	0.13
State-Delta PP - Cross Valley Canal (CVC)	\$ 10,529.12	14,505	\$	0.73
Dos Amigos PP - CVC (Offset with Direct Pumping)	\$ 6,964.22	14,505	\$	0.48
Wintu PP - Bella Vista WD - Cow Creek	\$ 5,055.84	2,845	\$	1.78
Gianelli PGP - SFU	\$ 28,474.15	19,767	\$	1.44
Coyote PP - Santa Clara Valley WD - SFU	\$ 763.95	12,273	\$	0.06
Pacheco PP - SFU	\$ 13,076.26	19,767	\$	0.66
Panoche WD - SLC	\$ 21.99	18,586	\$	0.00
San Luis WD Relifts - SLC	\$ 36,690.74	28,144	\$	1.30
Pleasant Valley PP - Westlands WD - SLC	\$ 27,073.07	396,523	\$	0.07
Pleasant Valley Relifts - Westlands WD - SLC	\$ 4,380.81	396,523	\$	0.01
Westlands WD Relifts - SLC	\$ 173,561.28	396,523	\$	0.44
Colusa CWD (Incl. Arb./Will O&M Office) - TCC	\$ 20,653.34	24,421	\$	0.85
Dunnigan WD - TCC	\$ 400.44	6,424	\$	0.06
Glenn Valley WD - TCC	\$ -	875	\$	-
Kanawha WD - TCC	\$ 2,117.98	21,122	\$	0.10
Orland-Artois WD - TCC	\$ 4,982.49	16,780	\$	0.30
Westside WD - TCC	\$ 3,618.95	29,768	\$	0.12
Total	341,483.50			