



CENTRAL VALLEY PROJECT
SCHEDULE OF IRRIGATION ESTIMATED OPERATION & MAINTENANCE COSTS
BY FACILITY AND/OR COMPONENT
2021 IRRIGATION WATER RATES

A	B	C	D
Facility/Contractor Ref	Estimated O&M & Corps Expense	Estimated Project Use Energy Cost < A-11>	Total Estimated Costs (B+C)
Storage			
American River	\$ 86,602	\$ -	\$ 86,602
Black Butte Reservoir	\$ 886,190	\$ -	\$ 886,190
Buchanan Reservoir	\$ 664,482	\$ -	\$ 664,482
Clair A. Hill Whiskeytown Dam	\$ 112,585	\$ -	\$ 112,585
Clear Creek Tunnel	\$ 38,663	\$ -	\$ 38,663
Columbia-Mowry System	\$ 231,845	\$ 21,784	\$ 253,629
Coleman National Fish Hatchery	\$ 1,415,731	\$ -	\$ 1,415,731
Delta Cross Channel	\$ 138,186	\$ -	\$ 138,186
Folsom D & R	\$ 874,621	\$ -	\$ 874,621
Folsom Pumping Plant	\$ 578,077	\$ -	\$ 578,077
Friant D & R	\$ 1,413,719	\$ -	\$ 1,413,719
Gianelli, WR Pump Generator Plant	\$ -	\$ 3,543,279	\$ 3,543,279
Less: WRGPGP Dir Pump	\$ -	\$ -	\$ -
Regeneration Credit	\$ -	\$ (2,535,511)	\$ (2,535,511)
Hidden Reservoir	\$ 353,939	\$ -	\$ 353,939
New Melones D&R	\$ 47,908	\$ -	\$ 47,908
New Melones Long Term Operating Plan	\$ 106,257	\$ -	\$ 106,257
Nimbus D&R	\$ 85,652	\$ -	\$ 85,652
Red Bluff Diversion Dam	\$ 299,880	\$ -	\$ 299,880
Sacramento River	\$ 291,527	\$ -	\$ 291,527
San Joaquin River	\$ 58,437	\$ -	\$ 58,437
San Luis Unit - Other Routine O&M Costs - Joint	\$ 2,891,490	\$ -	\$ 2,891,490
Security Costs	\$ 2,984,692	\$ -	\$ 2,984,692
Shasta D&R	\$ 998,689	\$ 263,941	\$ 1,262,630
Spring Creek Tunnel	\$ -	\$ -	\$ -
Trinity D&R & Clair Eagle Lake	\$ 160,306	\$ -	\$ 160,306
Water Forum - American River Division	\$ 18,426	\$ -	\$ 18,426
Total Storage including PUE Offset	\$ 14,737,903	\$ 1,293,493	\$ 16,031,396
Storage PUE Credit	\$ -	\$ (1,293,493)	\$ (1,293,493)
Conveyance			
DMC Regulatory Actions	\$ 41,184	\$ -	\$ 41,184
DMC Subsidence Study	\$ -	\$ -	\$ -

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Friant-Kern Canal	\$ 8,311	\$ -	\$ 8,311
Little Panoche Detention Dam	\$ 5,822	\$ -	\$ 5,822
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	\$ 37,090	\$ -	\$ 37,090
San Luis Canal - Federal Only	\$ -	\$ -	\$ -
Drainage Projects	\$ 1,761,000	\$ -	\$ 1,761,000
Total Conveyance	\$ 1,861,641	\$ -	\$ 1,861,641
Less: Direct Billed	\$ (1,861,641)	\$ -	\$ (1,861,641)
Net Conveyance	\$ -	\$ -	\$ -
<u>Conveyance Pumping</u>			
Corning Pumping Plant	\$ -	\$ 289,188	\$ 289,188
Dos Amigos Pumping Plant	\$ 1,650,775	\$ 3,953,631	\$ 5,604,406
O'Neill Pump Gen Plant - Federal	\$ -	\$ 1,888,821	\$ 1,888,821
Jones Pumping Plant	\$ -	\$ 17,261,488	\$ 17,261,488
Total Conveyance Pumping	\$ 1,650,775	\$ 23,393,128	\$ 25,043,903
Less: Direct Billed	\$ (1,650,775)	\$ (23,393,128)	\$ (25,043,903)
Net Conveyance Pumping	\$ -	\$ -	\$ -
<u>Direct Pumping</u>			
Colusa County WD	\$ -	\$ 494,015	\$ 494,015
Corning WD	\$ -	\$ 83,990	\$ 83,990
Cross Valley Canal Contractors (Dos Amigos & Banks)	\$ -	\$ 250,315	\$ 250,315
Dunnigan WD	\$ -	\$ 8,326	\$ 8,326
Kanawha WD	\$ -	\$ 55,956	\$ 55,956
Orland-Artois WD	\$ -	\$ 114,836	\$ 114,836
Panoche WD	\$ -	\$ 849	\$ 849
Proberta WD	\$ -	\$ 2,682	\$ 2,682
San Benito County WD			
Gianelli, WR Pump Generator	1/ \$ -	\$ 49,298	\$ 49,298
Pacheco PP	1/ \$ -	\$ 84,640	\$ 84,640
Glenn Valley WD	\$ -	\$ -	\$ -
Santa Clara Valley WD			
Coyote PP	1/ \$ -	\$ 37,593	\$ 37,593
Gianelli, WR Pump Generator	1/ \$ -	\$ 75,167	\$ 75,167
Pacheco PP	1/ \$ -	\$ 129,054	\$ 129,054

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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	\$ -	\$ 823,170	\$ 823,170
Westlands WD:			
Pleasant Valley PP	\$ -	\$ 665,750	\$ 665,750
Pleasant Valley Relifts	\$ -	\$ 95,847	\$ 95,847
Westlands WD Relifts	\$ -	\$ 3,943,770	\$ 3,943,770
Westside WD	\$ -	\$ 42,446	\$ 42,446
Wintu PP (Bella Vista WD)	\$ -	\$ 78,151	\$ 78,151
Total Direct Pumping	\$ -	\$ 7,035,855	\$ 7,035,855
Direct Pumping to WAPA (Specific Users)	\$ -	\$ (6,569,095)	\$ (6,569,095)
Direct Pumping Credit/to WAPA	\$ -	\$ (466,759)	\$ (466,759)
Direct Pumping in Ratesetting	\$ -	\$ (0)	\$ (0)
Sub-total	\$ 14,737,903	\$ -	\$ 14,737,903
<u>Non-Recurring O&M</u>			
<u>Storage</u>			
Gianelli Pump/Gen Plant - San Felipe Unit	\$ 50,272	\$ -	\$ 50,272
Gianelli Pump/Gen Plant - All Other Contractors	\$ 3,932,903	\$ -	\$ 3,932,903
Nimbus Dam - San Felipe Unit	\$ -	\$ -	\$ -
Nimbus Dam - All Other Contractors	\$ -	\$ -	\$ -
Shasta Dam - San Felipe Unit	\$ 10,310	\$ -	\$ 10,310
Shasta Dam - All Other Contractors	\$ 806,576	\$ -	\$ 806,576
Folsom Dam - San Felipe Unit	\$ 194	\$ -	\$ 194
Folsom Dam - All Other Contractors	\$ 15,161	\$ -	\$ 15,161
Friant Dam - San Felipe Unit	\$ 5,900	\$ -	\$ 5,900
Friant Dam - All Other Contractors	\$ 461,599	\$ -	\$ 461,599
San Luis Dam - San Felipe Unit	\$ 26,067	\$ -	\$ 26,067
San Luis Dam - All Other Contractors	\$ 2,039,283	\$ -	\$ 2,039,283
Clear Creek Tunnel - San Felipe Unit	\$ 683	\$ -	\$ 683
Clear Creek Tunnel - All Other Contractors	\$ 53,444	\$ -	\$ 53,444
Total Non-Recurring Storage	\$ 7,402,393	\$ -	\$ 7,402,393
<u>Water Marketing Expense</u>			
Suisun Marsh Protection	\$ 541,200	\$ -	\$ 541,200
Contract Administration	\$ 5,669,688	\$ -	\$ 5,669,688
Water & Power Systems Control	\$ 4,521,467	\$ -	\$ 4,521,467
Other Expenses	\$ 6,160,744	\$ -	\$ 6,160,744
Hazardous Material Management Program	\$ 315,946	\$ -	\$ 315,946
General Expense	\$ 388,278	\$ -	\$ 388,278
Cost Allocation Study cost	\$ -	\$ -	\$ -
Water Wheeling Cost	\$ 2,286,977	\$ -	\$ 2,286,977
Non-Recurring Water Marketing - SCCAO Tracy	\$ -	\$ -	\$ -
Less: Non-Permanent Contractor Revenue	\$ (1,000,000)	\$ -	\$ (1,000,000)
Total Water Marketing	\$ 18,884,300	\$ -	\$ 18,884,300
Grand Total	\$ 41,024,596	\$ -	\$ 41,024,596

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Footnotes:

1/ Suballocation of San Felipe Unit Direct Pumping Costs:

Contractor	2021 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	7,018	0.39608	\$ 49,298	\$ 84,640	\$ -	\$ 133,938
Santa Clara Valley WD	10,701	0.60392	\$ 75,167	\$ 129,054	\$ 37,593	\$ 241,814
Total San Felipe	17,719	1.00000	\$ 124,465	\$ 213,693	\$ 37,593	\$ 375,752
Total San Felipe	17,719	0.01262				
All Other Contractors	1,386,224	0.98738				
Total Storage Del.	1,403,943	1.00000				

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

	San Felipe Unit	All Other Contractors	Total
Projected 2021 Storage Deliveries	17,719	1,386,224	1,403,943
Ratios	0.01262	0.98738	1.00000
Allocated William R. Gianelli PG Costs:			
Project Use Energy Costs	*	\$ 3,543,279	\$ 3,543,279
Regeneration Credit	\$ -	\$ (2,535,511)	\$ (2,535,511)
Allocated Storage O&M Costs	\$ 189,598	\$ 14,834,030	\$ 15,023,628
Allocated Non-Recurring O&M Storage Costs	\$ 93,423	\$ 7,308,970	\$ 7,402,393
Total	\$ 283,021	\$ 23,150,768	\$ 23,433,789
Cost per Acre-foot	\$ 15.97	\$ 16.70	

* 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.