

IRR 2019 Sch A-9 F.Z21.XLSM

03/27/2019

CENTRAL VALLEY PROJECT
SCHEDULE OF IRRIGATION ESTIMATED OPERATION & MAINTENANCE COSTS
BY FACILITY AND/OR COMPONENT
2019 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		\$ 123,686	\$ -	\$ 123,686
Black Butte Reservoir		\$ 731,408	\$ -	\$ 731,408
Buchanan Reservoir		\$ 597,586	\$ -	\$ 597,586
Clair A. Hill Whiskeytown Dam		\$ 166,020	\$ -	\$ 166,020
Clear Creek Tunnel		\$ 34,761	\$ -	\$ 34,761
Columbia-Mowry System		\$ 221,633	\$ 19,476	\$ 241,109
Coleman National Fish Hatchery		\$ 3,152,619	\$ -	\$ 3,152,619
Delta Cross Channel		\$ 148,758	\$ -	\$ 148,758
Folsom D & R		\$ 1,073,692	\$ -	\$ 1,073,692
Folsom Pumping Plant		\$ 330,266	\$ -	\$ 330,266
Friant D & R		\$ 1,361,150	\$ -	\$ 1,361,150
Gianelli, WR Pump Generator Plant		\$ -	\$ 4,663,723	\$ 4,663,723
Less: WRGPGP Dir Pump		\$ -	\$ -	\$ -
Regeneration Credit		\$ -	\$ (3,139,821)	\$ (3,139,821)
Hidden Reservoir		\$ 317,772	\$ -	\$ 317,772
New Melones D&R		\$ 54,428	\$ -	\$ 54,428
New Melones Long Term Operating Plan		\$ 120,719	\$ -	\$ 120,719
Nimbus D&R		\$ 155,651	\$ -	\$ 155,651
Sacramento River		\$ 309,763	\$ -	\$ 309,763
San Joaquin River		\$ 59,761	\$ -	\$ 59,761
San Luis Unit - Other Routine O&M Costs - Joint		\$ 3,110,292	\$ -	\$ 3,110,292
Security Costs		\$ 4,253,221	\$ -	\$ 4,253,221
Shasta D&R		\$ 2,306,147	\$ 204,837	\$ 2,510,984
Spring Creek Tunnel		\$ 126	\$ -	\$ 126
Trinity D&R & Clair Eagle Lake		\$ 476,748	\$ -	\$ 476,748
Water Forum - American River Division		\$ 26,316	\$ -	\$ 26,316
Total Storage including PUE Offset	2/ 3/	\$ 19,132,523	\$ 1,748,215	\$ 20,880,738
Storage PUE Credit	3/	\$ -	\$ (1,748,215)	\$ (1,748,215)
Conveyance				
DMC Regulatory Actions		\$ 55,233	\$ -	\$ 55,233
Hydrologic operating Modeling - Delta Division		\$ -	\$ -	\$ -
DMC Subsidence Study		\$ 5,000	\$ -	\$ 5,000

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Facility/Contractor		Estimated O&M & Corps Expense	Estimated Project Use Energy Cost < A-11>	Total Estimated Costs (B+C)
Ref				
	Friant-Kern Canal	\$ 6,366	\$ -	\$ 6,366
	Little Panoche Detention Dam	\$ 9,606	\$ -	\$ 9,606
	Los Banos Creek Detention Dam - Maint. Joint	\$ -	\$ -	\$ -
	Madera Canal	\$ 1,000	\$ -	\$ 1,000
	Red Bluff Diversion Dam	\$ 319,600	\$ -	\$ 319,600
	South Delta Hydrodynamics Fish Inv.	\$ -	\$ -	\$ -
	San Luis Canal	\$ -	\$ -	\$ -
	Water Wheeling Cost -Unfunded	\$ -	\$ -	\$ -
	Tehama-Colusa Canal	\$ 39,410	\$ -	\$ 39,410
	San Luis Canal - Federal Only	\$ 17,291	\$ -	\$ 17,291
	Drainage Projects	\$ 2,167,000	\$ -	\$ 2,167,000
	Total Conveyance	\$ 2,620,506	\$ -	\$ 2,620,506
	Less: Direct Billed	\$ (2,620,506)	\$ -	\$ (2,620,506)
	Net Conveyance	\$ -	\$ -	\$ -
<u>Conveyance Pumping</u>				
	Corning Pumping Plant	\$ -	\$ 209,175	\$ 209,175
	Dos Amigos Pumping Plant	\$ -	\$ 4,380,217	\$ 4,380,217
	O'Neill Pump Gen Plant - Federal	\$ -	\$ 1,445,702	\$ 1,445,702
	Jones Pumping Plant	\$ -	\$ 16,140,481	\$ 16,140,481
	Total Conveyance Pumping	\$ -	\$ 22,175,576	\$ 22,175,576
	Less: Direct Billed	\$ -	\$ (22,175,576)	\$ (22,175,576)
	Net Conveyance Pumping	\$ -	\$ -	\$ -
<u>Direct Pumping</u>				
	Colusa County WD	\$ -	\$ 417,689	\$ 417,689
	Corning WD	\$ -	\$ 65,499	\$ 65,499
	Cross Valley Canal Contractors (Dos Amigos & Banks)	\$ -	\$ 441,081	\$ 441,081
	Dunnigan WD	\$ -	\$ 6,591	\$ 6,591
	Kanawha WD	\$ -	\$ 49,241	\$ 49,241
	Orland-Artois WD	\$ -	\$ 99,444	\$ 99,444
	Panoche WD	\$ -	\$ 222	\$ 222
	Proberta WD	\$ -	\$ 1,764	\$ 1,764
	San Benito County WD			
	Gianelli, WR Pump Generator 1/	\$ -	\$ 84,209	\$ 84,209
	Pacheco PP 1/	\$ -	\$ 79,406	\$ 79,406
	Glenn Valley WD	\$ -	\$ -	\$ -
	Santa Clara Valley WD			
	Coyote PP 1/	\$ -	\$ 23,674	\$ 23,674
	Gianelli, WR Pump Generator 1/	\$ -	\$ 68,391	\$ 68,391
	Pacheco PP 1/	\$ -	\$ 64,490	\$ 64,490

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Facility/Contractor	Estimated O&M & Corps Expense	Estimated Project Use Energy Cost < A-11>	Total Estimated Costs (B+C)
Ref			
San Luis WD	\$ -	\$ 646,190	\$ 646,190
Westlands WD:			
Pleasant Valley PP	\$ -	\$ 731,604	\$ 731,604
Pleasant Valley Relifts	\$ -	\$ 88,599	\$ 88,599
Westlands WD Relifts	\$ -	\$ 3,601,963	\$ 3,601,963
Westside WD	\$ -	\$ 41,387	\$ 41,387
Wintu PP (Bella Vista WD)	\$ -	\$ 75,494	\$ 75,494
Total Direct Pumping	\$ -	\$ 6,586,936	\$ 6,586,936
Direct Pumping to WAPA (Specific Users)	\$ -	\$ (5,954,899)	\$ (5,954,899)
Direct Pumping Credit/to WAPA 3/	\$ -	\$ (632,038)	\$ (632,038)
Direct Pumping in Ratesetting	\$ -	\$ -	\$ -
Sub-total	\$ 19,132,523	\$ -	\$ 19,132,523
<u>Non-Recurring O&M</u>			
<u>Storage</u>			
Gianelli Pump/Gen Plant - San Felipe Unit	\$ 61,545	\$ -	\$ 61,545
Gianelli Pump/Gen Plant - All Other Contractors	\$ 4,054,955	\$ -	\$ 4,054,955
Nimbus Dam - San Felipe Unit	\$ 1,594	\$ -	\$ 1,594
Nimbus Dam - All Other Contractors	\$ 105,016	\$ -	\$ 105,016
Shasta Dam - San Felipe Unit	\$ 14,804	\$ -	\$ 14,804
Shasta Dam - All Other Contractors	\$ 975,361	\$ -	\$ 975,361
Folsom Dam - San Felipe Unit	\$ 13,115	\$ -	\$ 13,115
Folsom Dam - All Other Contractors	\$ 864,085	\$ -	\$ 864,085
CN Fish Hatchery - San Felipe Unit	\$ 412	\$ -	\$ 412
CN Fish Hatchery - All Other Contractors	\$ 27,113	\$ -	\$ 27,113
Total Non-Recurring Storage 2/	\$ 6,118,000	\$ -	\$ 6,118,000
<u>Water Marketing Expense</u>			
Suisun Marsh Protection	\$ 588,104	\$ -	\$ 588,104
Contract Administration	\$ 5,929,765	\$ -	\$ 5,929,765
Water & Power Systems Control	\$ 6,755,357	\$ -	\$ 6,755,357
Other Expenses	\$ 2,865,245	\$ -	\$ 2,865,245
Hazardous Material Management Program	\$ 361,677	\$ -	\$ 361,677
General Expense	\$ 398,106	\$ -	\$ 398,106
Cost Allocation Study cost	\$ 775,000	\$ -	\$ 775,000
Water Wheeling Cost	\$ 1,420,171	\$ -	\$ 1,420,171
Non-Recurring Water Marketing - SCCAO Tracy	\$ -	\$ -	\$ -
Less: Non-Permanent Contractor Revenue	\$ (1,000,000)	\$ -	\$ (1,000,000)
Total Water Marketing	\$ 18,093,425	\$ -	\$ 18,093,425
Grand Total	\$ 43,343,948	\$ -	\$ 43,343,948

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Footnotes:

1/ Suballocation of San Felipe Unit Direct Pumping Costs:

Contractor	2019 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	10,665	0.55183	\$ 84,209	\$ 79,406	\$ -	\$ 163,615
Santa Clara Valley WD	8,662	0.44817	\$ 68,391	\$ 64,490	\$ 23,674	\$ 156,554
Total San Felipe	19,327	1.00000	\$ 152,600	\$ 143,896	\$ 23,674	\$ 320,169
Total San Felipe	19,327	0.01495				
All Other Contractors	1,273,366	0.98505				
Total Storage Del.	1,292,693	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 2019 Storage Deliveries	19,327	1,273,366	1,292,693
Ratios	0.01495	0.98505	1.00000
Allocated William R. Gianelli PG Costs:			
Project Use Energy Costs	*	\$ 4,663,723	\$ 4,663,723
Regeneration Credit	\$ -	\$ (3,139,821)	\$ (3,139,821)
Allocated Storage O&M Costs	\$ 289,385	\$ 19,067,452	\$ 19,356,836
Allocated Non-Recurring O&M Storage Costs	\$ 91,467	\$ 6,026,533	\$ 6,118,000
Total	\$ 380,852	\$ 26,617,886	\$ 26,998,738
Cost per Acre-foot	\$ 19.71	\$ 20.90	
Schedule A-12 Storage Deliveries	26,437	1,833,323	
Cost per Acre-foot	\$ 14.41	\$ 14.52	

* 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.