



M&I 2021 Sch A-9 F.Z23.xlsm  
12/09/2020

CENTRAL VALLEY PROJECT  
SCHEDULE OF ESTIMATED M&I OPERATION & MAINTENANCE COSTS  
BY FACILITY AND/OR COMPONENT  
2021 M&I 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				
<b>Storage</b>				
	American River	\$ 16,807	\$ -	\$ 16,807
	Black Butte Reservoir	\$ 53,457	\$ -	\$ 53,457
	Clair A. Hill Whiskeytown Dam	\$ 22,022	\$ -	\$ 22,022
	Clear Creek Tunnel	\$ 18,150	\$ -	\$ 18,150
	Columbia-Mowry System	\$ 43,005	\$ 3,690	\$ 46,695
	Coleman National Fish Hatchery	\$ 274,756	\$ -	\$ 274,756
	Delta Cross Channel	\$ 15,045	\$ -	\$ 15,045
	Folsom D&R	\$ 169,741	\$ -	\$ 169,741
	Folsom Pipeline	\$ -	\$ -	\$ -
	Folsom PP	\$ 107,227	\$ 139,788	\$ 247,015
	Friant D&R	\$ 276,394	\$ 17,321	\$ 293,715
	Gianelli, WR PGP	\$ -	\$ 650,429	\$ 650,429
	Regeneration Credit	\$ -	\$ (465,436)	\$ (465,436)
	New Melones D&R	\$ 9,298	\$ -	\$ 9,298
	New Melones Long Term Operating Plan	\$ 20,622	\$ -	\$ 20,622
	Nimbus D&R	\$ 16,738	\$ -	\$ 16,738
	Red Bluff Diversion Dam	\$ 6,880	\$ -	\$ 6,880
	San Joaquin River	\$ 11,425	\$ -	\$ 11,425
	Sacramento River	\$ 6,956	\$ -	\$ 6,956
	Security Costs	\$ 581,099	\$ -	\$ 581,099
	San Luis Unit - Other Routine O&M Costs - Joint.	\$ 1,887,970	\$ -	\$ 1,887,970
	Shasta Dam and Reservoir	\$ 193,819	\$ 101,543	\$ 295,362
	Spring Creek Tunnel	\$ -	\$ -	\$ -
	Trinity Dam and Clair Engle Lake	\$ 31,111	\$ -	\$ 31,111
	Water Forum - American River Division	\$ 3,576	\$ -	\$ 3,576
	<b>Total Storage including PUE Offset</b>	<b>\$ 3,766,097</b>	<b>\$ 447,334</b>	<b>\$ 4,213,431</b>
	<b>Storage PUE Credit</b>	<b>\$ -</b>	<b>\$ (447,334)</b>	<b>\$ (447,334)</b>

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Facility/Contractor  Ref	Estimated O&M & Corps Expense	Estimated Project Use Energy Cost <A-11>	Total Estimated Costs (B+C)
<b><u>Conveyance</u></b>			
DMC Regulatory Actions	\$ 5,274	\$ -	\$ 5,274
Friant-Kern Canal	\$ 689	\$ -	\$ 689
Little Panoche Detention Dam	\$ 178	\$ -	\$ 178
Los Banos Creek Detention Dam - Oper. Joint	\$ 6	\$ -	\$ 6
Tehama-Colusa Canal	\$ 885	\$ -	\$ 885
San Luis Canal - Federal Only	\$ -	\$ -	\$ -
Folsom-South Canal (Water Ratesetting)	\$ 65,600	\$ -	\$ 65,600
Total Conveyance	\$ 72,632	\$ -	\$ 72,632
Less Direct Billed	\$ (7,032)	\$ -	\$ (7,032)
Net Conveyance	\$ 65,600	\$ -	\$ 65,600
<b><u>Conveyance Pumping</u></b>			
Dos Amigos Pumping Plant	\$ 55,300	\$ 102,896	\$ 158,196
O'Neill Pump Gen Plant - Federal	\$ -	\$ 437,576	\$ 437,576
Jones Pumping Plant	\$ -	\$ 2,561,019	\$ 2,561,019
Jones Switchyard	\$ -	\$ -	\$ -
Total Conv. Pumping (Direct Billed)	\$ 55,300	\$ 3,101,491	\$ 3,156,791
Less Direct Billed	\$ (55,300)	\$ (3,101,491)	\$ (3,156,791)
Net Conveyance Pumping	\$ -	\$ -	\$ -
<b><u>Direct Pumping</u></b>			
Colusa County WD	\$ -	\$ 2,352	\$ 2,352
Contra Costa PP (Contra Costa WD)	\$ -	\$ 1,130,719	\$ 1,130,719
Kanawha WD	\$ -	\$ 45	\$ 45
Pleasant Valley PP (City of Coalinga)	\$ -	\$ 204,464	\$ 204,464
San Benito County WD			
Gianelli, WR PGP	1/ \$ -	\$ 38,195	\$ 38,195
Pacheco PP	1/ \$ -	\$ 65,576	\$ 65,576
San Luis WD Relifts	\$ -	\$ 13,588	\$ 13,588
Santa Clara Valley WD			
Coyote PP	1/ \$ -	\$ 298,624	\$ 298,624
Gianelli, WR PGP	1/ \$ -	\$ 597,093	\$ 597,093
Pacheco PP	1/ \$ -	\$ 1,025,142	\$ 1,025,142
Shasta PP (City of Shasta Lake)	\$ 125,000	\$ 9,422	\$ 134,422
State-Delta PP (Cross Valley Canal)	\$ -	\$ 974	\$ 974
Westlands WD Relifts	\$ -	\$ 30,923	\$ 30,923
Wintu PP (Bella Vista WD)	\$ -	\$ 90,225	\$ 90,225

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Facility/Contractor	Estimated O&M & Corps Expense	Estimated Project Use Energy Cost <A-11>	Total Estimated Costs (B+C)
Ref			
Dos Amigos PP (Cross Valley Canal)	\$ -	\$ 2,617	\$ 2,617
Total Direct Pumping	\$ 125,000	\$ 3,509,959	\$ 3,634,959
Direct Pumping to WAPA (Specific Users)	\$ -	\$ (3,202,258)	\$ (3,202,258)
Direct Pumping Credit/to WAPA	\$ -	\$ (307,702)	\$ (307,702)
Direct Pumping in Ratesetting	\$ 125,000	\$ -	\$ 125,000
Sub Total	\$ 3,956,697	\$ -	\$ 3,956,697
<b>Non-Recurring O&amp;M</b>			
<b>Storage</b>			
Gianelli Pump/Gen Plant - San Felipe Unit	\$ 681,981	\$ -	\$ 681,981
Gianelli Pump/Gen Plant - All Other Contractors	\$ 1,918,794	\$ -	\$ 1,918,794
Nimbus Dam - San Felipe Unit	\$ -	\$ -	\$ -
Nimbus Dam - All Other Contractors	\$ -	\$ -	\$ -
Shasta Dam - San Felipe Unit	\$ 41,572	\$ -	\$ 41,572
Shasta Dam - All Other Contractors	\$ 116,964	\$ -	\$ 116,964
Folsom Dam - San Felipe Unit	\$ 781	\$ -	\$ 781
Folsom Dam - All Other Contractors	\$ 2,199	\$ -	\$ 2,199
Friant Dam - San Felipe Unit	\$ 23,967	\$ -	\$ 23,967
Friant Dam - All Other Contractors	\$ 67,433	\$ -	\$ 67,433
San Luis Dam - San Felipe Unit	\$ 353,620	\$ -	\$ 353,620
San Luis Dam - All Other Contractors	\$ 994,930	\$ -	\$ 994,930
Delta Cross Channel - San Felipe Unit	\$ 2,776	\$ -	\$ 2,776
Delta Cross Channel - All Other Contractors	\$ 7,811	\$ -	\$ 7,811
Total Non-Recurring O&M Storage	\$ 4,212,829	\$ -	\$ 4,212,829
<b>Water Marketing Expense</b>			
Suisun Marsh Protection	\$ 90,720	\$ -	\$ 90,720
Water Contract Administration	\$ 1,070,312	\$ -	\$ 1,070,312
Water & Power Systems Control	\$ 738,554	\$ -	\$ 738,554
Other Expenses	\$ 999,189	\$ -	\$ 999,189
Hazardous Materials Management Program	\$ 42,533	\$ -	\$ 42,533
General Expense	\$ 61,918	\$ -	\$ 61,918
Cost Allocation Study Cost	\$ -	\$ -	\$ -
Water Wheeling	\$ 424,210	\$ -	\$ 424,210
Non-Permanent Contractor Revenue	\$ (332,707)	\$ -	\$ (332,707)
Total Water Marketing	\$ 3,094,729	\$ -	\$ 3,094,729
Grand Total	\$ 11,264,255	\$ -	\$ 11,264,255

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**Footnotes:**

1/ Suballocation of San Felipe Unit Direct Pumping Costs:

	Projected FY 2021 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	5,438	0.060122	\$ 38,195	\$ 65,576		\$ 103,771
Santa Clara Valley WD	85,005	0.939878	\$ 597,093	\$ 1,025,142	\$ 298,624	\$ 1,920,860
	<b>90,442</b>	<b>1.000000</b>	<b>\$ 635,288</b>	<b>\$ 1,090,718</b>	<b>\$ 298,624</b>	<b>\$ 2,024,631</b>
Total San Felipe	90,442	0.262222				
All Other Contractors	254,465	0.737778				
Total Storage	<b>344,907</b>	<b>1.000000</b>				

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 2021 Storage Deliveries	<b>90,442</b>	<b>254,465</b>	<b>344,907</b>
Ratios	<b>0.262222</b>	<b>0.737778</b>	<b>1.000000</b>
Allocated Gianelli, WR Pump Generator Costs			
Project Use Costs	*	\$ 650,429	\$ 650,429
Regeneration Credit	\$ -	\$ (465,436)	\$ (465,436)
Allocated Storage O&M Costs	\$ 1,056,345	\$ 2,972,093	\$ 4,028,438
Allocated Storage O&M Costs - Non-Recurring O&M	\$ 1,104,697	\$ 3,108,131	\$ 4,212,829
Total	<b>\$ 2,161,042</b>	<b>\$ 6,265,217</b>	<b>\$ 8,426,259</b>
Cost per Acre-foot (to Schedule A-8)	<b>\$23.89</b>	<b>\$24.62</b>	

\*San Felipe Unit contractors' share of the William R. Gianelli PG PUE has been included in the direct pumping section (see Schedule A-11, page 2)

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.