

IRR 2018 Sch A-9 F.Z20.XLSM
09/22/2017

CENTRAL VALLEY PROJECT
SCHEDULE OF IRRIGATION ESTIMATED OPERATION & MAINTENANCE COSTS
BY FACILITY AND/OR COMPONENT
2018 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			
Black Butte Reservoir	\$ 690,480	\$ -	\$ 690,480
Buchanan Reservoir	\$ 574,865	\$ -	\$ 574,865
Clair A. Hill Whiskeytown Dam	\$ 257,240	\$ -	\$ 257,240
Columbia-Mowry System	\$ 148,990	\$ 20,744	\$ 169,734
Coleman National Fish Hatchery	\$ 3,152,619	\$ -	\$ 3,152,619
Delta Cross Channel	\$ 77,665	\$ -	\$ 77,665
Folsom D & R	\$ 1,316,238	\$ -	\$ 1,316,238
Folsom Pumping Plant	\$ 426,758	\$ -	\$ 426,758
Friant D & R	\$ 1,364,020	\$ -	\$ 1,364,020
Gianelli, WR Pump Generator Plant	\$ -	\$ 4,295,041	\$ 4,295,041
Less: WRGPGP Dir Pump	\$ -	\$ -	\$ -
Regeneration Credit	\$ -	\$ (3,168,149)	\$ (3,168,149)
Hidden Reservoir	\$ 220,281	\$ -	\$ 220,281
Hill, CA Whiskeytown Dam	\$ -	\$ -	\$ -
New Melones D&R	\$ 69,082	\$ -	\$ 69,082
New Melones Long Term Operating Plan	\$ 91,412	\$ -	\$ 91,412
Nimbus D&R	\$ 172,403	\$ -	\$ 172,403
Sacramento River	\$ 471,693	\$ -	\$ 471,693
San Joaquin River	\$ 107,571	\$ -	\$ 107,571
San Luis Unit - Other Routine O&M Costs - Joint	\$ 3,745,100	\$ -	\$ 3,745,100
Security Costs	\$ 3,981,059	\$ -	\$ 3,981,059
Shasta D&R	\$ 1,524,702	\$ 215,430	\$ 1,740,132
Trinity D&R & Clair Eagle Lake	\$ 96,309	\$ -	\$ 96,309
Water Forum (AR)/American River Division	\$ 146,494	\$ -	\$ 146,494
Total Storage including PUE Offset 2/ 3/	\$ 18,634,980	\$ 1,363,065	\$ 19,998,045
Storage PUE Credit 3/	\$ -	\$ (1,363,065)	\$ (1,363,065)
Conveyance			
DMC Regulatory Actions	\$ 77,343	\$ -	\$ 77,343
Hydrologic operating Modeling - Delta Division	\$ 17,069	\$ -	\$ 17,069
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	\$ 37,284	\$ -	\$ 37,284
Los Banos Creek Detention Dam - Maint. Joint	\$ 5,927	\$ -	\$ 5,927
Madera Canal	\$ 13,000	\$ -	\$ 13,000
South Delta Hydrodynamics Fish Inv.	\$ -	\$ -	\$ -
San Luis Canal	\$ -	\$ -	\$ -
Water Wheeling Cost -Unfunded	\$ -	\$ -	\$ -
Tehama-Colusa Canal	\$ 40,525	\$ -	\$ 40,525
San Luis Canal - Federal Only	\$ 27,258	\$ -	\$ 27,258
Drainage Projects	\$ 2,167,000	\$ -	\$ 2,167,000
Total Conveyance	\$ 2,390,406	\$ -	\$ 2,390,406
Less: Direct Billed	\$ (2,390,406)	\$ -	\$ (2,390,406)
Net Conveyance	\$ -	\$ -	\$ -
<u>Conveyance Pumping</u>			
Corning Pumping Plant	\$ -	\$ 183,937	\$ 183,937
Dos Amigos Pumping Plant	\$ -	\$ 2,430,379	\$ 2,430,379
O'Neill Pump Gen Plant - Federal	\$ -	\$ 1,579,897	\$ 1,579,897
Jones Pumping Plant	\$ -	\$ 11,335,205	\$ 11,335,205
Total Conveyance Pumping	\$ -	\$ 15,529,417	\$ 15,529,417
Less: Direct Billed	\$ -	\$ (15,529,417)	\$ (15,529,417)
Net Conveyance Pumping	\$ -	\$ -	\$ -
<u>Direct Pumping</u>			
Colusa County WD	\$ -	\$ 367,580	\$ 367,580
Corning WD	\$ -	\$ 58,941	\$ 58,941
Cross Valley Canal Contractors (Dos Amigos & Banks)	\$ -	\$ 291,027	\$ 291,027
Dunnigan WD	\$ -	\$ 7,412	\$ 7,412
Kanawha WD	\$ -	\$ 32,448	\$ 32,448
Orland-Artois WD	\$ -	\$ 84,438	\$ 84,438
Panoche WD	\$ -	\$ 1,068	\$ 1,068
Proberta WD	\$ -	\$ 1,580	\$ 1,580
San Benito County WD			
Gianelli, WR Pump Generator	1/ \$ -	\$ 132,785	\$ 132,785
Pacheco PP	1/ \$ -	\$ 144,959	\$ 144,959
Glenn Valley WD	\$ -	\$ -	\$ -
Santa Clara Valley WD			
Coyote PP	1/ \$ -	\$ 25,387	\$ 25,387
Gianelli, WR Pump Generator	1/ \$ -	\$ 107,350	\$ 107,350
Pacheco PP	1/ \$ -	\$ 117,192	\$ 117,192

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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	\$ -	\$ 590,317	\$ 590,317
Westlands WD:			
Pleasant Valley PP	\$ -	\$ 567,867	\$ 567,867
Pleasant Valley Relifts	\$ -	\$ 75,479	\$ 75,479
Westlands WD Relifts	\$ -	\$ 2,576,556	\$ 2,576,556
Westside WD	\$ -	\$ 25,985	\$ 25,985
Wintu PP (Bella Vista WD)	\$ -	\$ 69,079	\$ 69,079
Total Direct Pumping	\$ -	\$ 5,277,451	\$ 5,277,451
Direct Pumping to WAPA (Specific Users)	\$ -	\$ (4,822,359)	\$ (4,822,359)
Direct Pumping Credit/to WAPA	\$ -	\$ (455,093)	\$ (455,093)
Direct Pumping in Ratesetting	\$ -	\$ -	\$ -
Sub-total	\$ 18,634,980	\$ -	\$ 18,634,980
<u>Non-Recurring O&M</u>			
<u>Storage</u>			
Gianelli Pump/Gen Plant - San Felipe Unit	\$ 64,855	\$ -	\$ 64,855
Gianelli Pump/Gen Plant - All Other Contractors	\$ 4,057,395	\$ -	\$ 4,057,395
Trinity Dam	\$ 369,000	\$ -	\$ 369,000
Shasta Dam	\$ 215,619	\$ -	\$ 215,619
Folsom Dam	\$ 46,930	\$ -	\$ 46,930
CN Fish Hatchery	\$ 412,875	\$ -	\$ 412,875
Total Non-Recurring Storage	\$ 5,166,674	\$ -	\$ 5,166,674
<u>Water Marketing Expense</u>			
Suisun Marsh Protection	\$ 588,104	\$ -	\$ 588,104
Contract Administration	\$ 6,016,157	\$ -	\$ 6,016,157
Water & Power Systems Control	\$ 6,213,098	\$ -	\$ 6,213,098
Other Expenses	\$ 3,307,781	\$ -	\$ 3,307,781
Hazardous Material Management Program	\$ 361,677	\$ -	\$ 361,677
General Expense	\$ 1,853,664	\$ -	\$ 1,853,664
Cost Allocation Study cost	\$ 775,000	\$ -	\$ 775,000
Water Wheeling Cost	\$ 1,550,271	\$ -	\$ 1,550,271
Non-Recurring Water Marketing - SCCAO Tracy	\$ 1,069,875	\$ -	\$ 1,069,875
Less: Non-Permanent Contractor Revenue	\$ (273,278)	\$ -	\$ (273,278)
Total Water Marketing	\$ 21,462,349	\$ -	\$ 21,462,349
Grand Total	\$ 45,264,003	\$ -	\$ 45,264,003

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Footnotes:

1/ Suballocation of San Felipe Unit Direct Pumping Costs:

Contractor	2018 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	12,443	0.55296	\$ 132,785	\$ 144,959	\$ -	\$ 277,744
Santa Clara Valley WD	10,059	0.44704	\$ 107,350	\$ 117,192	\$ 25,387	\$ 249,929
Total San Felipe	22,502	1.00000	\$ 240,135	\$ 262,151	\$ 25,387	\$ 527,673
Total San Felipe	22,502	0.01573				
All Other Contractors	1,407,738	0.98427				
Total Storage Del.	1,430,239	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 2018 Storage Deliveries	22,502	1,407,738	1,430,239
Ratios	0.01573	0.98427	1.00000
Allocated William R. Gianelli PG Costs:			
Project Use Energy Costs	*	\$ 4,295,041	\$ 4,295,041
Regeneration Credit	\$ -	\$ (3,168,149)	\$ (3,168,149)
Allocated Storage O&M Costs	\$ 296,843	\$ 18,574,310	\$ 18,871,153
Allocated Non-Recurring O&M Storage Costs	\$ 64,855	\$ 5,101,819	\$ 5,166,674
Total	\$ 361,699	\$ 24,803,021	\$ 25,164,719
Cost per Acre-foot	\$ 16.07	\$ 17.62	

* 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.