

IRR 2016 Sch A-9 F.Z18.XLSM
12/29/2015

CENTRAL VALLEY PROJECT
SCHEDULE OF IRRIGATION ESTIMATED OPERATION & MAINTENANCE COSTS
BY FACILITY AND/OR COMPONENT
2016 IRRIGATION WATER RATES

A		B	C	D
Facility/Contractor		Estimated O&M & Corps Expense	Estimated Project Use Energy Cost	Total Estimated Costs
Ref			< A-11>	(B+C)
Storage				
	Black Butte Reservoir	\$ 946,913	\$ -	\$ 946,913
	Buchanan Reservoir	\$ 531,263	\$ -	\$ 531,263
	Clair A. Hill Whiskeytown Dam	\$ 254,871	\$ -	\$ 254,871
	Columbia-Mowry System	\$ 152,260	\$ 20,012	\$ 172,272
	Coleman National Fish Hatchery	\$ 3,039,356	\$ -	\$ 3,039,356
	Delta Cross Channel	\$ 79,369	\$ -	\$ 79,369
	Folsom D & R	\$ 957,637	\$ -	\$ 957,637
	Folsom Pumping Plant	\$ 351,351	\$ -	\$ 351,351
	Friant D & R	\$ 1,400,018	\$ -	\$ 1,400,018
	Gianelli, WR Pump Generator Plant	\$ -	\$ 4,226,298	\$ 4,226,298
	Less: WRGPGP Dir Pump	\$ -	\$ -	\$ -
	Regeneration Credit	\$ -	\$ (2,637,187)	\$ (2,637,187)
	Hidden Reservoir	\$ 223,999	\$ -	\$ 223,999
	Hill, CA Whiskeytown Dam	\$ -	\$ -	\$ -
	New Melones D&R	\$ 838,423	\$ 3,622	\$ 842,045
	New Melones Long Term Operating Plan	\$ 89,369	\$ -	\$ 89,369
	Nimbus D&R	\$ 170,027	\$ -	\$ 170,027
	Sacramento River	\$ 723,485	\$ -	\$ 723,485
	San Joaquin River	\$ 106,671	\$ -	\$ 106,671
	San Luis Unit - Other Routine O&M Costs - Joint	\$ 3,872,944	\$ -	\$ 3,872,944
	New Melones Security	\$ 32,000	\$ -	\$ 32,000
	Security Costs	\$ 3,488,793	\$ -	\$ 3,488,793
	Shasta D&R	\$ 1,321,513	\$ 240,466	\$ 1,561,979
	Trinity D&R & Clair Eagle Lake	\$ 95,422	\$ -	\$ 95,422
	Water Forum - American River Division	\$ 54,887	\$ -	\$ 54,887
	Total Storage including PUE Offset	\$ 18,730,571	\$ 1,853,211	\$ 20,583,782
	Storage PUE Credit	\$ -	\$ (1,853,211)	\$ (1,853,211)
Conveyance				
	DMC Regulatory Actions	\$ 81,432	\$ -	\$ 81,432
	Hydrologic operating Modeling - Delta Division	\$ 17,970	\$ -	\$ 17,970
	DMC Subsidence Study	\$ 5,000	\$ -	\$ 5,000

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Ref			< A-11>	(B+C)
	Friant-Kern Canal	\$ 37,272	\$ -	\$ 37,272
	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	\$ 81,120	\$ -	\$ 81,120
	Tehama-Colusa Canal Fish Facilities	\$ -	\$ -	\$ -
	Total Conveyance	\$ 241,721	\$ -	\$ 241,721
	Less: Direct Billed	\$ (241,721)	\$ -	\$ (241,721)
	Net Conveyance	\$ -	\$ -	\$ -
<u>Conveyance Pumping</u>				
	Corning Pumping Plant	\$ -	\$ 184,209	\$ 184,209
	Dos Amigos Pumping Plant	\$ -	\$ 1,659,150	\$ 1,659,150
	O'Neill Pump Gen Plant - Federal	\$ -	\$ 1,341,439	\$ 1,341,439
	Jones Pumping Plant	\$ -	\$ 10,390,256	\$ 10,390,256
	Total Conveyance Pumping	\$ -	\$ 13,575,053	\$ 13,575,053
	Less: Direct Billed	\$ -	\$ (13,575,053)	\$ (13,575,053)
	Net Conveyance Pumping	\$ -	\$ -	\$ -
<u>Direct Pumping</u>				
	Colusa County WD	\$ -	\$ 491,565	\$ 491,565
	Corning WD	\$ -	\$ 42,404	\$ 42,404
	Cross Valley Canal Contractors (Dos Amigos & Banks)	\$ -	\$ 239,379	\$ 239,379
	Dunnigan WD	\$ -	\$ 5,224	\$ 5,224
	Kanawha WD	\$ -	\$ 87,405	\$ 87,405
	Orland-Artois WD	\$ -	\$ 66,851	\$ 66,851
	Panoche WD	\$ -	\$ 1,851	\$ 1,851
	Proberta WD	\$ -	\$ 847	\$ 847
	San Benito County WD			
	Gianelli, WR Pump Generator 1/	\$ -	\$ 143,155	\$ 143,155
	Pacheco PP 1/	\$ -	\$ 147,275	\$ 147,275
	Glenn Valley WD	\$ -	\$ -	\$ -
	Santa Clara Valley WD			
	Coyote PP 1/	\$ -	\$ 48,979	\$ 48,979
	Gianelli, WR Pump Generator 1/	\$ -	\$ 161,728	\$ 161,728
	Pacheco PP 1/	\$ -	\$ 166,383	\$ 166,383

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Facility/Contractor		Estimated O&M & Corps Expense	Estimated Project Use Energy Cost	Total Estimated Costs
Ref			< A-11>	(B+C)
	San Luis WD	\$ -	\$ 938,772	\$ 938,772
	Westlands WD:			
	Pleasant Valley PP	\$ -	\$ 479,144	\$ 479,144
	Pleasant Valley Relifts	\$ -	\$ 80,203	\$ 80,203
	Westlands WD Relifts	\$ -	\$ 2,673,937	\$ 2,673,937
	Westside WD	\$ -	\$ 36,778	\$ 36,778
	Wintu PP (Bella Vista WD)	\$ -	\$ 66	\$ 66
	Total Direct Pumping	\$ -	\$ 5,811,945	\$ 5,811,945
	Direct Pumping to WAPA (Specific Users)	\$ -	\$ (5,485,396)	\$ (5,485,396)
	Direct Pumping Credit/to WAPA	\$ -	\$ (326,549)	\$ (326,549)
	Direct Pumping in Ratesetting	\$ -	\$ 0	\$ 0
	Sub-total	\$ 18,730,571	\$ -	\$ 18,730,571
	Non-Recurring O&M			
	Storage			
	Gianelli Pump/Gen Plant - San Felipe Unit	\$ 44,182	\$ -	\$ 44,182
	Gianelli Pump/Gen Plant - All Other Contractors	\$ 3,197,318	\$ -	\$ 3,197,318
	Trinity Dam - Fixed Wheel Gate Overhaul - San Felipe Unit	\$ 3,737	\$ -	\$ 3,737
	Trinity Dam - Fixed Wheel Gate Overhaul - All Other Contractors	\$ 270,463	\$ -	\$ 270,463
	Total Non-Recurring Storage	\$ 3,515,700	\$ -	\$ 3,515,700
	Total Non-Recurring O&M	\$ 3,515,700	\$ -	\$ 3,515,700
	Water Marketing Expense			
	Suisun Marsh Protection	\$ 588,104	\$ -	\$ 588,104
	Contract Administration	\$ 5,972,757	\$ -	\$ 5,972,757
	Water & Power Systems Control	\$ 5,432,583	\$ -	\$ 5,432,583
	Other Expenses	\$ 3,616,225	\$ -	\$ 3,616,225
	Hazardous Material Management Program	\$ 367,026	\$ -	\$ 367,026
	General Expense	\$ 1,367,809	\$ -	\$ 1,367,809
	Cost Allocation Study cost	\$ 991,568	\$ -	\$ 991,568
	Water Wheeling Cost	\$ 1,584,300	\$ -	\$ 1,584,300
	Less: Non-Permanent Contractor Revenue	\$ (15,162)	\$ -	\$ (15,162)
	Total Water Marketing	\$ 19,905,210	\$ -	\$ 19,905,210
	Grand Total	\$ 42,151,481	\$ -	\$ 42,151,481

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Footnotes:

1/ Suballocation of San Felipe Unit Direct Pumping Costs:

Contractor	2016 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	8,663	0.46954	\$ 143,155	\$ 147,275	\$ -	\$ 290,430
Santa Clara Valley WD	9,787	0.53046	\$ 161,728	\$ 166,383	\$ 48,979	\$ 377,091
Total San Felipe	18,450	1.00000	\$ 304,883	\$ 313,658	\$ 48,979	\$ 667,520
Total San Felipe	18,450	0.01363				
All Other Contractors	1,335,270	0.98637				
Total Storage Del.	1,353,720	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 2016 Storage Deliveries	18,450	1,335,270	1,353,720
Ratios	0.01363	0.98637	1.00000
Allocated William R. Gianelli PG Costs:			
Project Use Energy Costs	*	\$ 4,226,298	\$ 4,226,298
Regeneration Credit	\$ -	\$ (2,637,187)	\$ (2,637,187)
Allocated Storage O&M Costs	\$ 258,897	\$ 18,735,773	\$ 18,994,671
Allocated Non-Recurring O&M Storage Costs	\$ 47,919	\$ 3,467,781	\$ 3,515,700
ARRA	\$ -	\$ -	\$ -
Total	\$ 306,816	\$ 23,792,666	\$ 24,099,482
Cost per Acre-foot	\$ 16.63	\$ 17.82	

* 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/ General & Administrative (G&A) expenses have been incorporated into Water Marketing costs. Reimbursable costs for Irrigation and M&I are based on 18.5 percent of the total G&A costs included on Table 6 .

Irrigation's share is based on the ratio of 2016 projected deliveries for Irrigation to the total Irrigation & M&I deliveries.

4/ 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.