

IRR 2015 Sch A-9 F.Z17.XLSM
12/15/2014

CENTRAL VALLEY PROJECT
SCHEDULE OF IRRIGATION ESTIMATED OPERATION & MAINTENANCE COSTS
BY FACILITY AND/OR COMPONENT
2015 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	\$ 975,814	\$ -	\$ 975,814
Buchanan Reservoir	\$ 417,524	\$ -	\$ 417,524
Clair A. Hill Whiskeytown Dam	\$ 254,928	\$ -	\$ 254,928
Columbia-Mowry System	\$ 152,957	\$ 14,272	\$ 167,229
Coleman National Fish Hatchery	\$ 3,076,971	\$ -	\$ 3,076,971
Delta Cross Channel	\$ 79,733	\$ -	\$ 79,733
Folsom D & R	\$ 1,099,147	\$ -	\$ 1,099,147
Folsom Pumping Plant	\$ 411,968	\$ -	\$ 411,968
Friant D & R	\$ 1,398,541	\$ -	\$ 1,398,541
Gianelli, WR Pump Generator Plant	\$ -	\$ 2,727,778	\$ 2,727,778
Less: WRGPGP Dir Pump	\$ -	\$ -	\$ -
Regeneration Credit	\$ -	\$ (2,587,893)	\$ (2,587,893)
Hidden Reservoir	\$ 194,806	\$ -	\$ 194,806
Hill, CA Whiskeytown Dam	\$ -	\$ -	\$ -
New Melones D&R	\$ 847,520	\$ 1,718	\$ 849,238
New Melones Long Term Operating Plan	\$ 90,336	\$ -	\$ 90,336
Nimbus D&R	\$ 169,857	\$ -	\$ 169,857
Sacramento River	\$ 834,314	\$ -	\$ 834,314
San Joaquin River	\$ 118,400	\$ -	\$ 118,400
San Luis Unit - Other Routine O&M Costs - Joint	\$ 4,029,491	\$ -	\$ 4,029,491
Security Costs	\$ 3,388,683	\$ -	\$ 3,388,683
Shasta D&R	\$ 1,331,335	\$ 123,607	\$ 1,454,942
Trinity D&R & Clair Eagle Lake	\$ 95,317	\$ -	\$ 95,317
Water Forum - American River Division	\$ 64,358	\$ -	\$ 64,358
Total Storage 2/	\$ 19,032,001	\$ 279,483	\$ 19,311,484
Conveyance			
Delta Barriers - Unfunded	\$ 2,716,800	\$ -	\$ 2,716,800
DMC Regulatory Actions	\$ 101,541	\$ -	\$ 101,541
Hydrologic operating Modeling - Delta Division	\$ 19,113	\$ -	\$ 19,113
DMC Subsidence Study	\$ 5,000	\$ -	\$ 5,000

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Facility/Contractor		Estimated O&M & Corps Expense	Estimated Project Use Energy Cost	Total Estimated Costs
Ref			< A-11>	(B+C)
	Friant-Kern Canal	\$ 69,667	\$ -	\$ 69,667
	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	\$ -	\$ -	\$ -
4/	Water Wheeling Cost -Unfunded	\$ -		\$ -
	Tehama-Colusa Canal	\$ 85,625	\$ -	\$ 85,625
	Tehama-Colusa Canal Fish Facilities	\$ -	\$ -	\$ -
	Total Conveyance	\$ 3,016,673	\$ -	\$ 3,016,673
	Less: Direct Billed	\$ (299,873)	\$ -	\$ (299,873)
	Net Conveyance	\$ 2,716,800	\$ -	\$ 2,716,800
<u>Conveyance Pumping</u>				
	Corning Pumping Plant	\$ -	\$ 195,975	\$ 195,975
	Dos Amigos Pumping Plant	\$ 8,510	\$ 2,117,685	\$ 2,126,195
	O'Neill Pump Gen Plant - Federal	\$ -	\$ 1,086,386	\$ 1,086,386
	Jones Pumping Plant	\$ -	\$ 10,463,187	\$ 10,463,187
	Total Conveyance Pumping	\$ 8,510	\$ 13,863,234	\$ 13,871,744
	Less: Direct Billed	\$ (8,510)	\$ (13,863,234)	\$ (13,871,744)
	Net Conveyance Pumping	\$ -	\$ -	\$ -
<u>Direct Pumping</u>				
	Colusa County WD	\$ -	\$ 332,173	\$ 332,173
	Corning WD	\$ -	\$ 69,287	\$ 69,287
	Cross Valley Canal Contractors (Dos Amigos & Banks)	\$ -	\$ 309,960	\$ 309,960
	Dunnigan WD	\$ -	\$ 5,470	\$ 5,470
	Kanawha WD	\$ -	\$ 52,855	\$ 52,855
	Orland-Artois WD	\$ -	\$ 77,258	\$ 77,258
	Panoche WD	\$ -	\$ 959	\$ 959
	Proberta WD	\$ -	\$ 4,287	\$ 4,287
	San Benito County WD			
	Gianelli, WR Pump Generator	1/ \$ -	\$ 95,115	\$ 95,115
	Pacheco PP	1/ \$ -	\$ 126,650	\$ 126,650
	Glenn Valley WD	\$ -	\$ -	\$ -
	Santa Clara Valley WD			
	Coyote PP	1/ \$ -	\$ 31,839	\$ 31,839
	Gianelli, WR Pump Generator	1/ \$ -	\$ 100,599	\$ 100,599
	Pacheco PP	1/ \$ -	\$ 133,952	\$ 133,952

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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	\$ -	\$ 573,580	\$ 573,580
	Westlands WD:			
	Pleasant Valley PP	\$ -	\$ 383,978	\$ 383,978
	Pleasant Valley Relifts	\$ -	\$ 48,962	\$ 48,962
	Westlands WD Relifts	\$ -	\$ 2,246,320	\$ 2,246,320
	Westside WD	\$ -	\$ 21,018	\$ 21,018
	Wintu PP (Bella Vista WD)	\$ -	\$ 74,340	\$ 74,340
	Total Direct Pumping	\$ -	\$ 4,688,602	\$ 4,688,602
<u>San Luis Drain & Kesterson Reservoir</u>				
	Kesterson reservoir	\$ -	\$ -	\$ -
	Total San Luis Drain & Kesterson Reservoir	\$ -	\$ -	\$ -
	Sub-total	\$ 21,748,801	\$ 4,968,085	\$ 26,716,886
<u>Extraordinary O&M</u>				
<u>Storage</u>				
	Folsom Dam	\$ 72,527	\$ -	\$ 72,527
	Various Facilities - PUE	\$ -	\$ 12,129	\$ 12,129
	Nimbus Dam	\$ 1,479,544	\$ -	\$ 1,479,544
	Trinity Dam	\$ 493,365	\$ -	\$ 493,365
	Total Ex O&M Storage: 2/	\$ 2,045,436	\$ 12,129	\$ 2,057,565
<u>Conveyance Pumping</u>				
	Corning Pumping Plant	\$ -	\$ 8,505	\$ 8,505
	Dos Amigos Pumping Plant	\$ -	\$ 91,904	\$ 91,904
	O'Neill Pump-Gen Plt	\$ -	\$ 47,147	\$ 47,147
	Jones Pumping Plant	\$ -	\$ 454,083	\$ 454,083
	Total Ex O&M Conveyance Pumping:	\$ -	\$ 601,639	\$ 601,639
<u>Direct Pumping</u>				
	Glenn Valley WD	\$ -	\$ -	\$ -
	Gianelli PGP - SFU	\$ -	\$ 8,494	\$ 8,494
	Contra Costa PP	\$ -	\$ -	\$ -
	Colusa CWD (Incl. Arb./Will O&M Office)	\$ -	\$ 14,416	\$ 14,416
	Corning WD	\$ -	\$ 3,007	\$ 3,007
	Dunnigan WD	\$ -	\$ 237	\$ 237

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Facility/Contractor	Estimated O&M & Corps Expense	Estimated Project Use Energy Cost	Total Estimated Costs
Ref		< A-11>	(B+C)
Kanawha WD	\$ -	\$ 2,294	\$ 2,294
Orland-Artois WD	\$ -	\$ 3,353	\$ 3,353
Panoche WD - SLC	\$ -	\$ 42	\$ 42
Westside WD	\$ -	\$ 912	\$ 912
Pleasant Valley PP	\$ -	\$ 16,664	\$ 16,664
Pleasant Valley Relifts	\$ -	\$ 2,125	\$ 2,125
Proberta WD	\$ -	\$ 186	\$ 186
San Luis WD Relifts	\$ -	\$ 24,892	\$ 24,892
State-Delta PP - Cross Valley Canal	\$ -	\$ 7,781	\$ 7,781
Westlands WD Relifts	\$ -	\$ 97,486	\$ 97,486
Wintu PP	\$ -	\$ 3,226	\$ 3,226
Dos Amigos PP - Cross Valley Canal	\$ -	\$ 5,671	\$ 5,671
Pacheco PP	\$ -	\$ 11,310	\$ 11,310
Coyote PP	\$ -	\$ 1,382	\$ 1,382
Total Ex O&M Direct Pumping:	\$ -	\$ 203,477	\$ 203,477
Total Extraordinary O&M:	\$ 2,045,436	\$ 817,245	\$ 2,862,681
<u>Water Marketing Expense</u>			
Suisun Marsh Protection	\$ 664,774	\$ -	\$ 664,774
Contract Administration	\$ 6,893,395	\$ -	\$ 6,893,395
Water & Power Systems Control	\$ 5,527,392	\$ -	\$ 5,527,392
Other Expenses	\$ 3,887,021	\$ -	\$ 3,887,021
Hazardous Material Management Program	\$ 439,047	\$ -	\$ 439,047
General Expense	\$ 1,373,505	\$ -	\$ 1,373,505
Cost Allocation Study cost - Unfunded	\$ 1,040,775	\$ -	\$ 1,040,775
Water Wheeling Cost -Unfunded	\$ 588,640	\$ -	\$ 588,640
Less: Non-Permanent Contractor Revenue	\$ (264,464)	\$ -	\$ (264,464)
Total Water Marketing	\$ 20,150,085	\$ -	\$ 20,150,085
Grand Total	\$ 43,944,321	\$ 5,785,330	\$ 49,729,651

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Footnotes:

1/ Suballocation of San Felipe Unit Direct Pumping Costs:

Contractor	2015 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	12,830	0.48599	\$ 95,115.23	\$ 126,650.03	\$ -	\$ 221,765.26
Santa Clara Valley WD	13,570	0.51401	\$ 100,599.15	\$ 133,952.10	\$ 31,839.41	\$ 266,390.66
Total San Felipe	26,399	1.00000	\$ 195,714.38	\$ 260,602.13	\$ 31,839.41	\$ 488,155.92
Total San Felipe	26,399	0.01377				
All Other Contractors	1,891,442	0.98623				
Total Storage Del.	1,917,842	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 2015 Storage Deliveries	26,399	1,891,442	1,917,842
Ratios	0.01377	0.98623	1.00000
Allocated William R. Gianelli PG Costs:			
Project Use Energy Costs	*	\$ 2,727,777.98	\$ 2,727,777.98
Regeneration Credit	\$ -	\$ (2,587,892.87)	\$ (2,587,892.87)
Allocated Storage O&M Costs	\$ 263,992.91	\$ 18,907,605.59	\$ 19,171,598.50
Allocated XO&M Storage Costs	\$ 28,332.66	\$ 2,029,231.88	\$ 2,057,564.54
ARRA	\$ -	\$ -	\$ -
Total	\$ 292,325.58	\$ 21,076,722.59	\$ 21,369,048.16
Cost per Acre-foot	\$ 11.07	\$ 11.14	

* 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)

General & Administrative (G&A) expenses have been incorporated into Water Marketing costs.

3/ 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 2015 projected deliveries for Irrigation to the total Irrigation & M&I deliveries.