RECLAMATION
Managing Water in the West

U.S. Department of the Interior
Bureau of Reclamation

2017 Full Cost Additional Service Water Rates Sch TR-2b.Z19.xlsm
12/20/2016

CENTRAL VALLEY PROJECT
SCHEDULE OF M&I FULL COST ADDITIONAL SERVICE WATER RATES
AS OF SEPTEMBER 30, 2015
2017 SPECIAL WATER RATES

A	B	C	D	E	F	G	H	I	J	K
			Allocation of	Unpaid M&I Construction				Unpaid M&I Construction		
	Total M&I	Ratio	Construction	Net Unpaid	Annualized Costs	Annual	FY 2017	Cost Per Acre Foot		
	Construction	of	Repayment	Construction	14	Interest @	Projected	Construction		
	at 9/30/2015	Total	at 9/30/2015 [1/]	at 9/30/2015	Remaining Years	0.077540	Deliveries	Only	Interest	Total
Ref	<Sch A-4>	(B/$115,929,248)	(C*$112,931,848)	(B-D)	(E/14)	(E*0.077540)	<Sch S-6>	(F/H)	(G/H)	(I+J)
Component / Facility										
Storage										
San Felipe Unit	$ 6,258,130	0.053982	$ 6,096,324	$ 161,807	$ 11,558	$ 12,546	69,583	$ 0.17	$ 0.18	$ 0.35
All Other Contractors	$ 28,250,209	0.243685	$ 27,519,788	$ 730,421	$ 52,173	$ 56,637	218,519	$ 0.24	$ 0.26	$ 0.50
Total Storage	$ 34,508,339	0.297667	$ 33,616,112	$ 892,228	$ 63,731	$ 69,183				
Conveyance										
Contra Costa Canal System [2/]	$ -			$ -	$ -	$ -		$ -	$ -	$ -
All Other Contractors	$ 18,482,654	0.159430	$ 18,004,777	$ 477,877	$ 34,134	$ 37,055	150,103	$ 0.23	$ 0.25	$ 0.48
Total Conveyance	$ 18,482,654	0.159430	$ 18,004,777	$ 477,877	$ 34,134	$ 37,055				
Conveyance Pumping										
Dos Amigos Pumping Plant										
Construction only [3/]	$ 211,223	0.001822	$ 205,761	$ 5,461	$ 390	$ 423	8,956	$ 0.04	$ 0.05	$ 0.09
PUE only	$ 457,100	0.003943	$ 445,282	$ 11,819	$ 844	$ 916	9,179	$ 0.09	$ 0.10	$ 0.19
								$ 0.13	$ 0.15	$ 0.28
O'Neill P-Generator/Pumping Plant										
Construction only	$ 1,246,950	0.010756	$ 1,214,710	$ 32,240	$ 2,303	$ 2,500	79,932	$ 0.03	$ 0.03	$ 0.06
PUE only	$ 1,435,564	0.012383	$ 1,398,446	$ 37,117	$ 2,651	$ 2,878	79,932	$ 0.03	$ 0.04	$ 0.07
								$ 0.06	$ 0.07	$ 0.13
Jones Pumping Plant										
Friant Kern/Madera										
Construction only [4/ 5/]	$ 604,052	0.005211	$ 588,434	$ 15,618	$ 1,116	$ 1,211	33,053	$ 0.03	$ 0.04	$ 0.07
PUE only [4/ 5/]	$ 3,112,240	0.026846	$ 3,031,772	$ 80,468	$ 5,748	$ 6,240	33,053	$ 0.17	$ 0.19	$ 0.36
								$ 0.20	$ 0.23	$ 0.43

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	Total M&I Construction at 9/30/2015	Ratio of Total	Allocation of Construction Repayment at 9/30/2015 [1/]	Unpaid M&I Construction Net Unpaid Construction at 9/30/2015	Unpaid M&I Construction Annualized Costs 14 Remaining Years	Unpaid M&I Construction Annual Interest @ 0.077540	FY 2017 Projected Deliveries	Unpaid M&I Construction Cost Per Acre Foot Construction Only	Unpaid M&I Construction Cost Per Acre Foot Interest	Unpaid M&I Construction Cost Per Acre Foot Total
Ref	<Sch A-4>	(B/$115,929,248)	(C*$112,931,848)	(B-D)	(E/14)	(E*0.077540)	<Sch S-6>	(F/H)	(G/H)	(I+J)
Component / Facility										
All Other Contractors										
Construction only [4/ 6/]	$ 1,179,365	0.010173	$ 1,148,872	$ 30,493	$ 2,178	$ 2,364	86,712	$ 0.03	$ 0.03	$ 0.06
PUE only [4/ 6/]	$ 6,077,971	0.052428	$ 5,920,822	$ 157,149	$ 11,225	$ 12,185	86,712	$ 0.13	$ 0.14	$ 0.27
								$ 0.16	$ 0.17	$ 0.33
Total Conveyance Pumping	$ 14,324,464	0.123562	$ 13,954,099	$ 370,365	$ 26,455	$ 28,718				
Direct Pumping										
Bella Vista WD (Wintu PP)	$ 656,927	0.005667	$ 639,942	$ 16,985	$ 1,213	$ 1,317	3,397	$ 0.36	$ 0.39	$ 0.75
Colusa County WD Relift PP	$ 3,595	0.000031	$ 3,502	$ 93	$ 7	$ 7	106	$ 0.06	$ 0.07	$ 0.13
Contra Costa PP (Contra Costa WD)	$ 4,365,478	0.037656	$ 4,252,607	$ 112,871	$ 8,062	$ 8,752	72,096	$ 0.11	$ 0.12	$ 0.23
Kanawha WD	$ 21	0.000000	$ 20	$ 1	$ 0	$ 0	5	$ 0.01	$ 0.01	$ 0.02
Pleasant Valley PP (City of Coalinga)	$ 39,562	0.000341	$ 38,540	$ 1,023	$ 73	$ 79	4,010	$ 0.02	$ 0.02	$ 0.04
Pleasant Valley WD Canalside Relift PP (City of Coalinga)	$ 159,685	0.001377	$ 155,556	$ 4,129	$ 295	$ 320	4,010	$ 0.07	$ 0.08	$ 0.15
San Benito County WD										
Pacheco PP	$ 164,188	0.001416	$ 159,943	$ 4,245	$ 303	$ 329				
Gianelli, WR PGP	$ 274,256	0.002366	$ 267,165	$ 7,091	$ 507	$ 550				
Total San Benito County WD	$ 438,445	0.003782	$ 427,109	$ 11,336	$ 810	$ 879	3,037	$ 0.27	$ 0.29	$ 0.56
San Luis WD Canalside Relift PP	$ 101,106	0.000872	$ 98,492	$ 2,614	$ 187	$ 203	1,489	$ 0.13	$ 0.14	$ 0.27
Santa Clara Valley WD										
Coyote PP	$ 1,158,132	0.009990	$ 1,128,188	$ 29,944	$ 2,139	$ 2,322				
Pacheco PP	$ 4,023,788	0.034709	$ 3,919,752	$ 104,037	$ 7,431	$ 8,067				
Gianelli, WR PGP	$ 6,720,917	0.057974	$ 6,547,145	$ 173,772	$ 12,412	$ 13,474				
Total Santa Clara WD	$ 11,902,837	0.102673	$ 11,595,084	$ 307,753	$ 21,982	$ 23,863	66,546	$ 0.33	$ 0.36	$ 0.69

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	Total M&I Construction at 9/30/2015	Ratio of Total	Allocation of Construction Repayment at 9/30/2015 [1/]	Unpaid M&I Construction: Net Unpaid Construction at 9/30/2015	Unpaid M&I Construction: Annualized Costs 14 Remaining Years	Annual Interest @ 0.077540	FY 2017 Projected Deliveries	Unpaid M&I Construction Cost Per Acre Foot: Construction Only	Unpaid M&I Construction Cost Per Acre Foot: Interest	Unpaid M&I Construction Cost Per Acre Foot: Total
Ref	<Sch A-4>	(B/$115,929,248)	(C*$112,931,848)	(B-D)	(E/14)	(E*0.077540)	<Sch S-6>	(F/H)	(G/H)	(I+J)
Component / Facility										
Shasta Pumping Plant (City of Shasta Lake)	$ 558,853	0.004821	$ 544,404	$ 14,449	$ 1,032	$ 1,120	1,210	$ 0.85	$ 0.93	$ 1.78
State Delta PP (Cross Valley Canal)	$ 16,152	0.000139	$ 15,735	$ 418	$ 30	$ 32	222	$ 0.13	$ 0.15	$ 0.28
Westlands WD Relifts	$ 602,770	0.005199	$ 587,185	$ 15,585	$ 1,113	$ 1,208	2,197	$ 0.51	$ 0.55	$ 1.06
Total Direct Pumping	$ 18,845,432	0.162560	$ 18,358,175	$ 487,257	$ 34,804	$ 37,782				
Subtotal	$ 86,160,889	0.743220	$ 83,933,163	$ 2,227,726	$ 159,123	$ 172,738				
Other Costs										
Deferred Interest Capitalized	$ 21,277,763	0.183541	$ 20,727,617	$ 550,146	$ 39,296	$ 42,658				
Programmatic EIS Capitalized	$ 3,544,928	0.030578	$ 3,453,273	$ 91,656	$ 6,547	$ 7,107				
All others	$ 4,945,667	0.042661	$ 4,817,795	$ 127,872	$ 9,134	$ 9,915				
Total Other Costs	$ 29,768,359	0.256780	$ 28,998,685	$ 769,674	$ 54,977	$ 59,680	288,102	$ 0.19	$ 0.21	$ 0.40
Total	$ 115,929,248	1.000000	$ 112,931,848	$ 2,997,400	$ 214,100	$ 232,418				

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FOOTNOTES:

1/ Refer to M&I Water Rates, Schedule A-2Ba.

2/ Contra Costa WD's conveyance costs are recovered through a repayment contract.

3/ Cross Valley Canal contractors are charged for PUE constrcution component only. Therefore their deliveries are not included in determining the "Construction only" rate.

4/ Suballocation of Jones Pumping Plant costs:

	Historical & Projected Deliveries (1981-2030) <Sch A-7>	Ratio	M&I Construction Costs at 9/30/2015	Project Use Energy BOR	Project Use Energy DOE	Project Use Energy Total
Jones Pumping Plant:						
Delta-Mendota Exchange	2,521,078	0.338647	$ 604,052	$ 1,683,704	$ 1,428,536	$ 3,112,240
All Other Contractors	4,923,476	0.661353	$ 1,179,669	$ 3,288,148	$ 2,789,823	$ 6,077,971
Total	7,444,554	1.000000	$ 1,783,721 **a/**	$ 4,971,852 **a/**	$ 4,218,359 **a/**	$ 9,190,211

a/ Jones Pumping Plant - Conveyance Pumping:

Total Construction Cos	$ 10,973,932	**(M&I Sch A-5)**
less: BOR PUE	$ 4,971,852	**(M&I Sch A-5)**
less: DOE PUE	$ 4,218,359	**(M&I Sch A-5)**
Capital Allocation	$ 1,783,721	

5/ FY 2017 projected deliveries include Friant Dam and Friant-Kern Canal

6/ FY 2017 projected deliveries for Jones PP do not include Delta Mendota Exchange contractors' deliveries.