RECLAMATION
Managing Water in the West

U.S. Department of the Interior
Bureau of Reclamation

IRR 2014 Sch A-11 F.Z16.XLSM
09/30/2013

CENTRAL VALLEY PROJECT
SCHEDULE OF ESTIMATED IRRIGATION DIRECT PUMPING OPERATION & MAINTENANCE COSTS
2014 IRRIGATION WATER RATES

A	B	C	D	E	F	G	H	I	J	K
	2014 Projected Deliveries									
			Tehama-Colusa Canal Relifts						**Corning Canal Relifts**	
Facility/Contractor	**Wintu PP**		**Colusa County WD**	**Dunnigan WD**	**Glenn Valley WD**	**Kanawha WD**	**Orland-Artois WD**	**Westside WD**	**Corning WD**	**Proberta WD**
Ref	<Sch A-12>		<Sch A-12>	<Sch A-12>	<Sch A-12>	<Sch A-12>	<Sch A-12>	<Sch A-12>	<Sch A-12>	<Sch A-12>
Corning Canal										
Corning WD									10,793	
Proberta WD										2,105
Cow Creek Unit										
Bella Vista WD	5,533									
Tehama-Colusa Canal										
Colusa County WD			32,791							
Dunnigan WD				8,433						
Glenn Valley WD					962					
Kanawha WD						25,948				
Orland-Artois WD							31,372			
Westside WD								34,095		
Total Deliveries	5,533		32,791	8,433	962	25,948	31,372	34,095	10,793	2,105
Est. 2014 XO&M Cost	$ 38		$ 148	$ 2		$ 23	$ 30	$ 9	$ 32	$ 2
Est. 2014 O&M Cost	$ 58,946		$ 230,675	$ 3,626	$ -	$ 35,619	$ 47,137	$ 13,327	$ 49,971	$ 3,112
Total (Sch. A9)	$ 58,983		$ 230,823	$ 3,628	$ -	$ 35,642	$ 47,167	$ 13,336	$ 50,003	$ 3,114
Cost Per A/F	$ 10.66		$ 7.04	$ 0.43	$ -	$ 1.37	$ 1.50	$ 0.39	$ 4.63	$ 1.48

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		San Luis Canal Relifts								
				Westlands WD 1/					**Cross Valley Contractors 2/**	
Facility/Contractor		**Panoche WD**	**San Luis WD**	**Westlands WD Relifts**	**Pleasant Valley PP**	**Pleasant Valley Rifts**	**Total**		**State Delta PP**	**Dos Amigos PP**
Ref		<Sch A-12>	<Sch A-12>	<Sch A-12>	<Sch A-12>	<Sch A-12>	(E+F)		<Sch A-12>	<Sch A-12>
Cross Valley Canal										
County of Fresno									570	570
County of Tulare									1,009	1,009
Hills Valley ID									764	764
Kern-Tulare ID									11,393	11,393
Lower Tule River ID - CVC									6,428	6,428
Pixley ID									6,428	6,428
Tri-Valley WD									217	217
San Luis Canal										
Panoche WD -SLC		31,884								
San Luis WD - SLC			36,933							
Westlands WD - SLC				434,551	48,750	9,246	483,301			
Westlands WD - SLC (DD#2)				843	95	18	938			
Total Deliveries		31,884	36,933	435,394	48,845	9,264	484,239		26,809	26,809
Est. 2014 XO&M Cost		$ 0	$ 284	$ 1,435	$ 278	$ 30	$ 1,743		$ 43	$ 81
Est. 2014 O&M Cost		$ 754	$ 441,193	$ 2,230,776	$ 432,195	$ 46,990	$ 2,709,961		$ 67,490	$ 125,513
Total (Sch. A-9)		$ 755	$ 441,477	$ 2,232,211	$ 432,473	$ 47,020	$ 2,711,704		$ 67,533	$ 125,594
Cost Per A/F		$ 0.02	$ 11.95				$ 5.60		$2.52	$4.68

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FOOTNOTES

1/ Westlands WD & Westlands WD DD#2 (DD#2) deliveries are based on firm supplies:

		Allocated 2014 Deliveries	
	Ratios	**Westlands WD**	**DD#2**
Westlands WD Relifts:			
High Side - Relift Pumps	0.26957	130,281	253
Low Side (LS) - Gravity Feed	0.62957	304,269	590
Subtotal	0.89913	434,551	843
Pleasant Valley PP:			
High Side - Relift Pump	0.01913	9,246	18
Coalinga Canal, LS - Gravity	0.08174	39,505	77
Subtotal (Pleasant Valley PP)	0.10087	48,750	95
Total - WWD Deliveries	1.0000	483,301	938

2/ Cross Valley Canal Estimated 2014 Project Use Energy Cost

	Dos Amigos PP	State Delta PP
2014 PUE Estimate		
Direct Billed	$ 2,650,018	$ 223,147
Cross Valley Canal 2014 Projected Cost	$ 130,066	$ 69,938
Total	$ 2,780,084	$ 293,085

	Deliveries	Ratio	Dos Amigos PP	State Delta PP
M&I	973	0.03501	$ 4,553	$ 2,448
Irrigation	26,809	0.96499	$ 125,513	$ 67,490
Total	27,782	1.00000	$ 130,066	$ 69,938

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		Acre-Feet		**Ratio of Acre-Feet**				**For Water Ratesetting**	
		M&I	**Irrigation**	**M&I**	**Irrigation**	**Total**	**Total $**	**M&I**	**Irrigation**
Ref		<Sch A-12>	<Sch A-12>	(C/(C+D))	(D/(C+D))	(E+F)	<Meter Costs>	(E*H)	(F*H)
Used in Schedule 9									
Storage:									
Friant D&R		157	N/A	100.00%		100.00%	$ 8,776	$ 8,776	$ -
Shasta D&R (Includes Jdg F Carr PH)		1,623	3,467	31.89%	68.11%	100.00%	$ 158,116	$ 50,424	$ 107,693
Columbia Mowry (Based on Avg. KWH's)		64,714	481,617	11.85%	88.15%	100.00%	$ 12,396	$ 1,468	$ 10,927
Folsom Pump Plant		37,398	N/A	100.00%		100.00%	$ 31,846	$ 31,846	$ -
New Melones Dam & Reservoir		25,354	38,467	39.73%	60.27%	100.00%	$ 2,302	$ 914	$ 1,387
Gianelli WR Pump-Gen Plt		8,803	389,950	2.21%	97.79%	100.00%	$ 3,005,757	$ 66,355	$ 2,939,402
Regen. Credit - San Luis PP		8,803	389,950	2.21%	97.79%	100.00%	$ (2,384,096)	$ (52,632)	$ (2,331,465)
SFU Gianelli WR PGP (Direct Pumping)		95,581	25,185	79.15%	20.85%	100.00%	$ -	$ -	$ -
Conveyance Pumping:									
Corning Pumping Plant		N/A	15,608		100.00%	100.00%	$ 181,261	$ -	$ 181,261
Dos Amigos Pumping Plant		11,994	554,037	2.12%	97.88%	100.00%	$ 2,650,018	$ 56,151	$ 2,593,867
O'Neill Pump-Gen Plt		108,157	582,257	15.67%	84.33%	100.00%	$ 1,544,518	$ 241,956	$ 1,302,562
Regen. Credit - O'Neill Pump-Gen Plt		108,157	582,257	15.67%	84.33%	100.00%	$ (37,099)	$ (5,812)	$ (31,287)
Jones Pumping Plant		194,231	1,508,175	11.41%	88.59%	100.00%	$ 11,085,176	$ 1,264,729	$ 9,820,446
In-Lieu of Jones Pumping							$ 223,147	$ -	$ 223,147
Out-of-Basin Pumping:									
Coyote PP		45,718	6,202	88.06%	11.94%	100.00%	$ 142,651	$ 125,612	$ 17,039
Pacheco PP		95,581	25,185	79.15%	20.85%	100.00%	$ 610,027	$ 482,811	$ 127,217

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		Acre-Feet		**Ratio of Acre-Feet**				**For Water Ratesetting**	
		M&I	**Irrigation**	**M&I**	**Irrigation**	**Total**	**Total $**	**M&I**	**Irrigation**
Ref		<Sch A-12>	<Sch A-12>	(C/(C+D))	(D/(C+D))	(E+F)	<Meter Costs>	(E*H)	(F*H)
Used in Schedule 11 Page 1									
Direct Pumping:									
Glenn Valley WD		N/A	962		100.00%	100.00%		$ -	$ -
Gianelli PGP - SFU		95,581	25,185				$ 910,319	$ 720,479	$ 189,840
Contra Costa PP		92,635	-	100.00%		100.00%	$ 421,263	$ 421,263	$ -
Colusa CWD (Incl. Arb./Will O&M Office)		113	32,791	0.34%	99.66%	100.00%	$ 231,466	$ 791	$ 230,675
Corning WD		N/A	10,793		100.00%	100.00%	$ 49,971	$ -	$ 49,971
Dunnigan WD		N/A	8,433		100.00%	100.00%	$ 3,626	$ -	$ 3,626
Kanawha WD		4	25,948	0.01%	99.99%	100.00%	$ 35,624	$ 5	$ 35,619
Orland-Artois WD		N/A	31,372		100.00%	100.00%	$ 47,137	$ -	$ 47,137
Panoche WD - SLC		N/A	31,884		100.00%	100.00%	$ 754	$ -	$ 754
Westside WD		N/A	34,095		100.00%	100.00%	$ 13,327	$ -	$ 13,327
Pleasant Valley PP		5,738	39,581	12.66%	87.34%	100.00%	$ 494,854	$ 62,659	$ 432,195
Pleasant Valley Relifts		N/A	9,264		100.00%	100.00%	$ 46,990	$ -	$ 46,990
Proberta WD		N/A	2,105		100.00%	100.00%	$ 3,112	$ -	$ 3,112
San Luis WD Relifts		620	36,933	1.65%	98.35%	100.00%	$ 448,600	$ 7,406	$ 441,193
State-Delta PP - Cross Valley Canal		973	26,809	3.50%	96.50%	100.00%	$ 69,938	$ 2,448	$ 67,490
Westlands WD Relifts		2,790	435,394	0.64%	99.36%	100.00%	$ 2,245,069	$ 14,294	$ 2,230,776
Wintu PP		4,328	5,533	43.89%	56.11%	100.00%	$ 105,055	$ 46,109	$ 58,946
City of Shasta Lake (Shasta PP)		2,047	-	100.00%		100.00%	$ 32,754	$ 32,754	$ -
Dos Amigos PP - Cross Valley Canal		973	26,809	3.50%	96.50%	100.00%	$ 130,066	$ 4,553	$ 125,513
Reimbursable Billing							$ 5,148		
Project General							$ 8,739		
Nonreimbursable F&W							$ (38,608)		
							$ 22,500,000	$ 3,585,360	$ 18,939,360