

M&I Full Cost 2020 Sch FC-4.Z22
11/01/2019

CENTRAL VALLEY PROJECT
SCHEDULE OF PROJECTED M&I WATER DELIVERIES FOR FISCAL YEARS 2020-2030
AND PRESENT WORTH @ .07611 FOR CALCULATION OF CONSTRUCTION COST PER ACRE-FOOT

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YEAR	BLACK BUTTE D&R										CLEAR CREEK UNIT		CONTRA COSTA CANAL		COW CREEK UNIT	
	COUNTY OF COLUSA		ELK CREEK CSD		US FOREST SVC		WHITNEY CONST.		TOTAL		CLEAR CREEK CSD		CONTRA COSTA WD		BELLA VISTA WD	
	AF	PW	AF	PW	AF	PW	AF	PW	AF	PW	AF	PW	AF	PW	AF	PW
2020	7	6	14	13	14	13	4	4	39	36	1,634	1,518	96,890	90,037	4,190	3,894
2021	7	6	14	12	14	12	4	3	39	34	1,634	1,411	96,890	83,669	4,190	3,619
2022	7	6	14	11	14	11	4	3	39	31	1,634	1,311	96,890	77,751	4,190	3,363
2023	7	5	14	10	14	11	4	3	39	29	1,634	1,218	96,890	72,252	4,190	3,125
2024	7	5	14	10	14	10	4	3	39	27	1,634	1,132	96,890	67,142	4,190	2,904
2025	7	4	14	9	14	9	4	3	39	25	1,634	1,052	96,890	62,393	4,190	2,698
2026	7	4	14	8	14	8	4	2	39	23	1,634	978	96,890	57,980	4,190	2,508
2027	7	4	14	8	14	8	4	2	39	22	1,634	908	96,890	53,880	4,190	2,330
2028	7	4	14	7	14	7	4	2	39	20	1,634	844	96,890	50,069	4,190	2,165
2029	7	3	14	7	14	7	4	2	39	19	1,634	784	96,890	46,528	4,190	2,012
2030	7	3	14	6	14	6	4	2	39	17	1,634	729	96,890	43,237	4,190	1,870
P/T	75	50	154	102	156	103	44	29	429	284	17,969	11,885	1,065,788	704,939	46,095	30,488

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YEAR	CROSS VALLEY CANAL						DELTA-MENDOTA CANAL									
	COUNTY OF FRESNO		COUNTY OF TULARE		TOTAL		BYRON BETHANY ID		CITY OF TRACY		DEL PUERTO WD		DEPT OF VETERANS		PANOCHÉ WD	
	AF	PW	AF	PW	AF	PW	AF	PW	AF	PW	AF	PW	AFFAIRS	PW	AF	PW
2020	86	80	192	178	278	258	902	838	7,589	7,052	5	5	297	276	23	22
2021	86	74	192	166	278	240	902	779	7,589	6,553	5	5	297	257	23	20
2022	86	69	192	154	278	223	902	723	7,589	6,090	5	4	297	239	23	19
2023	86	64	192	143	278	207	902	672	7,589	5,659	5	4	297	222	23	17
2024	86	60	192	133	278	193	902	625	7,589	5,259	5	4	297	206	23	16
2025	86	55	192	124	278	179	902	581	7,589	4,887	5	3	297	192	23	15
2026	86	51	192	115	278	166	902	540	7,589	4,541	5	3	297	178	23	14
2027	86	48	192	107	278	155	902	501	7,589	4,220	5	3	297	165	23	13
2028	86	44	192	99	278	144	902	466	7,589	3,922	5	3	297	154	23	12
2029	86	41	192	92	278	133	902	433	7,589	3,644	5	3	297	143	23	11
2030	86	38	192	86	278	124	902	402	7,589	3,387	5	2	297	133	23	10
P/T	946	626	2,112	1,397	3,058	2,023	9,917	6,560	83,477	55,214	60	39	3,272	2,164	258	170

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YEAR	DELTA-MENDOTA CANAL				FOLSOM D&R													
	SAN LUIS WD		TOTAL		CITY OF FOLSOM		CITY OF ROSEVILLE		EL DORADO ID		SACRAMENTO CTY WA		SAN JUAN WD		PLACER CTY WA		TOTAL	
	AF	PW	AF	PW	AF	PW	AF	PW	AF	PW	AF	PW	AF	PW	AF	PW	AF	PW
2020	61	56	8,877	8,250	5,400	5,018	23,067	21,436	4,211	3,914	3,689	3,428	1,060	985	5,000	4,646	42,428	39,427
2021	61	52	8,877	7,666	5,400	4,663	23,067	19,920	4,211	3,637	3,689	3,186	1,060	915	5,000	4,318	42,428	36,638
2022	61	49	8,877	7,124	5,400	4,333	23,067	18,511	4,211	3,380	3,689	2,961	1,060	850	5,000	4,012	42,428	34,047
2023	61	45	8,877	6,620	5,400	4,027	23,067	17,202	4,211	3,141	3,689	2,751	1,060	790	5,000	3,729	42,428	31,639
2024	61	42	8,877	6,152	5,400	3,742	23,067	15,985	4,211	2,918	3,689	2,557	1,060	734	5,000	3,465	42,428	29,401
2025	61	39	8,877	5,717	5,400	3,477	23,067	14,855	4,211	2,712	3,689	2,376	1,060	682	5,000	3,220	42,428	27,322
2026	61	36	8,877	5,312	5,400	3,231	23,067	13,804	4,211	2,520	3,689	2,208	1,060	634	5,000	2,992	42,428	25,389
2027	61	34	8,877	4,937	5,400	3,003	23,067	12,828	4,211	2,342	3,689	2,052	1,060	589	5,000	2,780	42,428	23,594
2028	61	31	8,877	4,588	5,400	2,791	23,067	11,920	4,211	2,176	3,689	1,906	1,060	548	5,000	2,584	42,428	21,925
2029	61	29	8,877	4,263	5,400	2,593	23,067	11,077	4,211	2,022	3,689	1,772	1,060	509	5,000	2,401	42,428	20,374
2030	61	27	8,877	3,962	5,400	2,410	23,067	10,294	4,211	1,879	3,689	1,646	1,060	473	5,000	2,231	42,428	18,933
P/T	668	442	97,652	64,589	59,400	39,289	253,742	167,831	46,326	30,641	40,582	26,842	11,655	7,709	55,000	36,378	466,705	308,690

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YEAR	FOLSOM-SOUTH CANAL								FRIANT DAM					
	EAST BAY MUD		SACRAMENTO CTY WA		SMUD		TOTAL		COUNTY OF MADERA		FRESNO CTY WW #18		TOTAL	
	AF	PW	AF	PW	AF	PW	AF	PW	AF	PW	AF	PW	AF	PW
2020	9,309	8,650	4,286	3,983	7,767	7,218	21,362	19,851	69	64	100	93	169	157
2021	9,309	8,039	4,286	3,701	7,767	6,708	21,362	18,447	69	59	100	87	169	146
2022	9,309	7,470	4,286	3,439	7,767	6,233	21,362	17,143	69	55	100	81	169	136
2023	9,309	6,942	4,286	3,196	7,767	5,792	21,362	15,930	69	51	100	75	169	126
2024	9,309	6,451	4,286	2,970	7,767	5,383	21,362	14,803	69	48	100	70	169	117
2025	9,309	5,995	4,286	2,760	7,767	5,002	21,362	13,756	69	44	100	65	169	109
2026	9,309	5,571	4,286	2,565	7,767	4,648	21,362	12,784	69	41	100	60	169	101
2027	9,309	5,177	4,286	2,383	7,767	4,319	21,362	11,879	69	38	100	56	169	94
2028	9,309	4,810	4,286	2,215	7,767	4,014	21,362	11,039	69	36	100	52	169	87
2029	9,309	4,470	4,286	2,058	7,767	3,730	21,362	10,258	69	33	100	48	169	81
2030	<u>9,309</u>	<u>4,154</u>	<u>4,286</u>	<u>1,913</u>	<u>7,767</u>	<u>3,466</u>	<u>21,362</u>	<u>9,533</u>	<u>69</u>	<u>31</u>	<u>100</u>	<u>45</u>	<u>169</u>	<u>76</u>
P/T	102,397	67,728	47,146	31,184	85,442	56,513	234,985	155,425	757	501	1,105	731	1,862	1,232

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YEAR	FRIANT-KERN CANAL											
	ARVIN-EDISON WSD		CITY OF FRESNO		CITY OF LINDSAY		CITY OF ORANGE COVE		DELANO-EARLIMART ID		LINDSAY-STRATHMORE ID	
	AF	PW	AF	PW	AF	PW	AF	PW	AF	PW	AF	PW
2020	463	430	33,347	30,988	1,503	1,396	1,076	1,000	210	195	543	504
2021	463	400	33,347	28,797	1,503	1,298	1,076	929	210	181	543	469
2022	463	372	33,347	26,760	1,503	1,206	1,076	863	210	169	543	436
2023	463	345	33,347	24,867	1,503	1,121	1,076	802	210	157	543	405
2024	463	321	33,347	23,109	1,503	1,041	1,076	745	210	146	543	376
2025	463	298	33,347	21,474	1,503	968	1,076	693	210	135	543	350
2026	463	277	33,347	19,955	1,503	899	1,076	644	210	126	543	325
2027	463	257	33,347	18,544	1,503	836	1,076	598	210	117	543	302
2028	463	239	33,347	17,232	1,503	777	1,076	556	210	109	543	281
2029	463	222	33,347	16,014	1,503	722	1,076	517	210	101	543	261
2030	463	207	33,347	14,881	1,503	671	1,076	480	210	94	543	242
P/T	5,093	3,369	366,817	242,622	16,530	10,933	11,833	7,827	2,310	1,528	5,971	3,950

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YEAR	FRIANT-KERN CANAL						NEW MELONES D & R		SACRAMENTO RIVER					
	SHAFTER-WASCO ID		TERRA BELLA ID		TOTAL		STOCKTON EAST WD		CITY OF REDDING		CITY OF WEST SACRAMENTO		LAKE CA P.O.A.	
	AF	PW	AF	PW	AF	PW	AF	PW	AF	PW	AF	PW	AF	PW
2020	209	194	1,144	1,063	38,494	35,771	27,912	25,938	2,691	2,501	5,913	5,495	186	173
2021	209	180	1,144	988	38,494	33,241	27,912	24,104	2,691	2,324	5,913	5,106	186	160
2022	209	167	1,144	918	38,494	30,890	27,912	22,399	2,691	2,160	5,913	4,745	186	149
2023	209	156	1,144	853	38,494	28,705	27,912	20,815	2,691	2,007	5,913	4,409	186	138
2024	209	145	1,144	793	38,494	26,675	27,912	19,343	2,691	1,865	5,913	4,097	186	129
2025	209	134	1,144	737	38,494	24,789	27,912	17,975	2,691	1,733	5,913	3,808	186	120
2026	209	125	1,144	685	38,494	23,035	27,912	16,703	2,691	1,611	5,913	3,538	186	111
2027	209	116	1,144	636	38,494	21,406	27,912	15,522	2,691	1,497	5,913	3,288	186	103
2028	209	108	1,144	591	38,494	19,892	27,912	14,424	2,691	1,391	5,913	3,055	186	96
2029	209	100	1,144	549	38,494	18,485	27,912	13,404	2,691	1,292	5,913	2,839	186	89
2030	209	93	1,144	510	38,494	17,178	27,912	12,456	2,691	1,201	5,913	2,639	186	83
P/T	2,296	1,519	12,582	8,322	423,432	280,069	307,037	203,082	29,606	19,582	65,040	43,019	2,043	1,351

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YEAR	SACRAMENTO RIVER				SAN FELIPE UNIT (IN-BASIN)					
	RIVERVIEW GOLF & CC		TOTAL		SAN BENITO CTY WD		SANTA CLARA VALLEY WD		TOTAL	
	AF	PW	AF	PW	AF	PW	AF	PW	AF	PW
2020	18	17	8,808	8,185	4,001	3,718	85,208	79,181	89,209	82,899
2021	18	15	8,808	7,606	4,001	3,455	85,208	73,581	89,209	77,036
2022	18	14	8,808	7,068	4,001	3,211	85,208	68,377	89,209	71,588
2023	18	13	8,808	6,568	4,001	2,984	85,208	63,541	89,209	66,524
2024	18	12	8,808	6,104	4,001	2,772	85,208	59,047	89,209	61,819
2025	18	11	8,808	5,672	4,001	2,576	85,208	54,871	89,209	57,447
2026	18	11	8,808	5,271	4,001	2,394	85,208	50,990	89,209	53,384
2027	18	10	8,808	4,898	4,001	2,225	85,208	47,383	89,209	49,608
2028	18	9	8,808	4,551	4,001	2,067	85,208	44,032	89,209	46,100
2029	18	9	8,808	4,230	4,001	1,921	85,208	40,918	89,209	42,839
2030	18	8	8,808	3,930	4,001	1,785	85,208	38,024	89,209	39,809
P/T	196	130	96,885	64,082	44,009	29,109	937,288	619,946	981,297	649,055

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YEAR	SAN LUIS CANAL - FRESNO											
	CITY OF AVENAL		CITY OF COALINGA		CITY OF HURON		STATE OF CA		WESTLANDS WD		TOTAL	
	AF	PW	AF	PW	AF	PW	AF	PW	AF	PW	AF	PW
2020	2,229	2,071	5,108	4,747	876	814	5	4	2,687	2,497	10,906	10,134
2021	2,229	1,925	5,108	4,411	876	757	5	4	2,687	2,320	10,906	9,417
2022	2,229	1,789	5,108	4,099	876	703	5	4	2,687	2,156	10,906	8,751
2023	2,229	1,662	5,108	3,809	876	653	5	4	2,687	2,004	10,906	8,132
2024	2,229	1,545	5,108	3,540	876	607	5	3	2,687	1,862	10,906	7,557
2025	2,229	1,435	5,108	3,290	876	564	5	3	2,687	1,730	10,906	7,023
2026	2,229	1,334	5,108	3,057	876	524	5	3	2,687	1,608	10,906	6,526
2027	2,229	1,240	5,108	2,841	876	487	5	3	2,687	1,494	10,906	6,065
2028	2,229	1,152	5,108	2,640	876	453	5	2	2,687	1,389	10,906	5,636
2029	2,229	1,070	5,108	2,453	876	421	5	2	2,687	1,290	10,906	5,237
2030	2,229	995	5,108	2,280	876	391	5	2	2,687	1,199	10,906	4,867
P/T	24,521	16,219	56,191	37,166	9,639	6,376	52	34	29,559	19,551	119,961	79,345

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YEAR	SAN LUIS CANAL - TRACY								SHASTA D&R							
	PACHECO WD		PANOCHÉ WD		SAN LUIS WD		TOTAL		CENTERVILLE CSD		MOUNTAIN GATE CSD		SHASTA CWA		TOTAL	
	AF	PW	AF	PW	AF	PW	AF	PW	AF	PW	AF	PW	AF	PW	AF	PW
2020	4	4	78	72	435	404	517	480	621	577	554	515	122	114	1,297	1,206
2021	4	4	78	67	435	376	517	447	621	536	554	478	122	106	1,297	1,120
2022	4	3	78	63	435	349	517	415	621	498	554	445	122	98	1,297	1,041
2023	4	3	78	58	435	324	517	385	621	463	554	413	122	91	1,297	967
2024	4	3	78	54	435	301	517	358	621	430	554	384	122	85	1,297	899
2025	4	3	78	50	435	280	517	333	621	400	554	357	122	79	1,297	836
2026	4	2	78	47	435	260	517	309	621	371	554	332	122	73	1,297	776
2027	4	2	78	43	435	242	517	287	621	345	554	308	122	68	1,297	721
2028	4	2	78	40	435	225	517	267	621	321	554	286	122	63	1,297	671
2029	4	2	78	37	435	209	517	248	621	298	554	266	122	59	1,297	623
2030	4	2	78	35	435	194	517	231	621	277	554	247	122	55	1,297	579
P/T	46	30	858	566	4,785	3,164	5,689	3,760	6,828	4,516	6,094	4,031	1,347	891	14,269	9,437

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YEAR	SPRING CREEK CONDUIT								TEHAMA-COLUSA CANAL					
	CITY OF REDDING		SHASTA WA		SHASTA CSD		TOTAL		COLUSA COUNTY WD		KANAWA WD		TOTAL	
	AF	PW	AF	PW	AF	PW	AF	PW	AF	PW	AF	PW	AF	PW
2020	4,761	4,424	117	108	380	353	5,258	4,886	136	126	13	12	148	138
2021	4,761	4,111	117	101	380	328	5,258	4,540	136	117	13	11	148	128
2022	4,761	3,821	117	94	380	305	5,258	4,219	136	109	13	10	148	119
2023	4,761	3,550	117	87	380	283	5,258	3,921	136	101	13	9	148	110
2024	4,761	3,299	117	81	380	263	5,258	3,643	136	94	13	9	148	103
2025	4,761	3,066	117	75	380	245	5,258	3,386	136	87	13	8	148	95
2026	4,761	2,849	117	70	380	227	5,258	3,146	136	81	13	8	148	89
2027	4,761	2,648	117	65	380	211	5,258	2,924	136	75	13	7	148	82
2028	4,761	2,460	117	60	380	196	5,258	2,717	136	70	13	6	148	77
2029	4,761	2,286	117	56	380	182	5,258	2,525	136	65	13	6	148	71
2030	4,761	2,125	117	52	380	170	5,258	2,346	136	60	13	6	148	66
P/T	52,373	34,641	1,282	848	4,178	2,764	57,833	38,252	1,491	986	138	91	1,630	1,078

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YEAR	TOYON PIPELINE							
	CITY OF REDDING		CITY OF SHASTA LAKE		US FOREST SVC		TOTAL	
	AF	PW	AF	PW	AF	PW	AF	PW
2020	21	19	1,109	1,031	1	1	1,131	1,051
2021	21	18	1,109	958	1	1	1,131	977
2022	21	17	1,109	890	1	1	1,131	908
2023	21	16	1,109	827	1	1	1,131	844
2024	21	14	1,109	769	1	1	1,131	784
2025	21	13	1,109	714	1	1	1,131	728
2026	21	12	1,109	664	1	1	1,131	677
2027	21	12	1,109	617	1	1	1,131	629
2028	21	11	1,109	573	1	1	1,131	585
2029	21	10	1,109	533	1	0	1,131	543
2030	<u>21</u>	<u>9</u>	<u>1,109</u>	<u>495</u>	<u>1</u>	<u>0</u>	<u>1,131</u>	<u>505</u>
P/T	229	152	12,202	8,071	11	7	12,443	8,230

CENTRAL VALLEY PROJECT
SCHEDULE OF PROJECTED M&I WATER DELIVERIES FOR FISCAL YEARS 2020-2030
AND PRESENT WORTH @ .07611 FOR CALCULATION OF CONSTRUCTION COST PER ACRE-FOOT

FOOTNOTES

Note: Projected deliveries are based on the contractor's 7-year average of historical deliveries.