

Appendix C

Contractor Water Needs Assessments

SANTA CLARA VALLEY WD

Water Needs Assessment

Contractor ID: 202845

San Felipe

Contractor's Water Supply Sources and Quantities (acre-feet)

Date: 5/31/2006 2:52:07

Timeframe 1	Surface Water Supply								Groundwater Supply				Total Supply 13
	Reference Delivery 2	USBR Total Deliv/Max 3	SWP 4	Local 5	Local Source 6	Trsfr / Rtm / Recycle In 7	Trsfr / Out 8	District 9	Private 10	Safe Yield 11	Recharge 12		
1995	152,500 *	109,250	28,756	168,536	HetchH/Local resv	15	16,000	0	159,078		114,402	335,233	
2003	0	0										0	
2025	152,500 *	152,500	74,000	164,800	HetchH/Local resv	14,400	0	0	165,000		132,000	438,700	

Contractor's Agricultural Water Demands

Maximum Productive Acres: 11,304

Timeframe 1	Crop Water Requirement (acre-feet) 15	District Irrig. Efficiency (%) 16	Effective Precip (acre-feet) 17	Reference Effective Precip (acre-ft) 18	Calculated Net Crop Water Req (acre-feet) 19	USBR Net Crop Water Req (acre-feet) 20	Average Irrigated Acres (acres) 21	Reference Irrigated Acres (acres) 22	Calculated FDR (AF/acre) 23	USBR FDR (AF/acre) 24	Conveyance Loss (acre-feet) 25	Total Ag Demand (acre-feet) 26
1995	71,266	75	45,953	18,879	33,751	75,514	37,757	37,757	0.89	2.00	0	33,751
2003	49,213	75	10,471		51,656		26,177		1.97		0	51,656
2025	49,213	85	10,471	10,471	45,579	47,119	26,177	26,177	1.74	1.80	0	45,579

Contractor's M&I Water Demands

Timeframe 1	Residential Water Demand			Nonresidential Water Demand			Loss	Ref Urban Per Capita Dmd (gpcd) 35	Calc Urban Per Capita Dmd (gpcd) 36	Total M&I Demand (acre-feet) 37	Total Ag + M&I Dmd (acre-feet) 38	Unmet Demand (acre-feet) 39
	Population 28	Per Capita Demand (gpcd) 29	Total Demand (acre-feet) 30	Industrial (acre-feet) 31	Comm / Instit. (acre-feet) 32	Total Demand (acre-feet) 33	Unacc. / Distr. (acre-feet) 34					
1995	1,599,100	174.0	311,620	0	0	0	0	274.0	174.0	311,620	345,371	10,138
2003						0	0			0	51,656	51,656
2025	2,175,800	117.3	285,998	263,997	0	263,997	0	257.0	225.7	549,995	595,574	156,874

* Represents Maximum Contract Amount

Notes: 2025 M&I Demand Data: from 2020 average data submitted by SCWD 5/2/00 FAX; no breakdown of industrial & commercial demnds. 2025 supply: CVP supply = max contract amount; Transfer In=recycled water; 40 TAF env demnd could decrease local supply--not shown. 2003 only includes information on currently agricultural cropping and water use and assumes a 75% irrigation efficiency. 2025 agricultural information based on 2003 cropping and water use and assumes an 85% efficiency.

WESTLANDS WD

Contractor ID: 203220

West San Joaquin

Water Needs Assessment

Contractor's Water Supply Sources and Quantities (acre-feet)

Date: 5/25/2006 9:14:46

Timeframe 1	Surface Water Supply						Groundwater Supply				Total Supply 13	
	Reference Delivery 2	USBR Total Deliv/Max 3	SWP 4	Local 5	Local Source 6	Trsf / Rtm / Recycle In 7	Trsf / Out 8	District 9	Private 10	Safe Yield 11		Recharge 12
1989	1,062,509	1,130,463	0	0		32,865	5,420	0	175,000		0	1,332,908
1996	0	0										0
1999	0	0										0
2025	*	*	0	0		0	4,938	0	175,000		0	170,062
2026	*	1,150,000	0	0		0	4,938	0	175,000		0	1,320,062
2030 Distrib Dist 2	*	2,675	0	0		4,198	0	0	0		0	6,873

Contractor's Agricultural Water Demands

Maximum Productive Acres: 532,700

Timeframe 1	Crop Water Requirement (acre-feet) 15	District Irrig. Efficiency (%) 16	Effective Precip (acre-feet) 17	Reference Effective Precip (acre-ft) 18	Calculated Net Crop Water Req (acre-feet) 19	USBR Net Crop Water Req (acre-feet) 20	Average Irrigated Acres (acres) 21	Reference Irrigated Acres (acres) 22	Calculated FDR (AF/acre) 23	USBR FDR (AF/acre) 24	Conveyance Loss (acre-feet) 25	Total Ag Demand (acre-feet) 26
1989	1,150,449	75	65,249	155,765	1,446,933	1,401,883	515,000	519,216	2.81	2.70	319	1,447,252
1996	1,229,209	75	163,895	163,895	1,420,419	1,420,419	546,315	546,315	2.60	2.60		
1999	1,269,094	75	163,754	163,754	1,473,787	1,473,787	545,847	545,847	2.70	2.70		
2025	1,366,756	85	181,830	181,830	1,394,030	1,394,030	606,100	606,100	2.30	2.30	319	1,394,349
2026	1,139,266	85	151,230		1,162,395		504,100		2.31		66,003	1,228,398
2030	10,560	85	1,330		10,859		3,598		3.02		343	11,202

Contractor's M&I Water Demands

Timeframe 1	Residential Water Demand			Nonresidential Water Demand			Loss	Ref Urban Per Capita Dmd (gpcd) 35	Calc Urban Per Capita Dmd (gpcd) 36	Total M&I Demand (acre-feet) 37	Total Ag + M&I Dmd (acre-feet) 38	Unmet Demand (acre-feet) 39
	Population 28	Per Capita Demand (gpcd) 29	Total Demand (acre-feet) 30	Industrial (acre-feet) 31	Comm / Instit. (acre-feet) 32	Total Demand (acre-feet) 33	Unacc. / Distr. (acre-feet) 34					
1989						0	0			0	1,447,252	114,344
1996						0	0			0	0	0
1999						0	0			0	0	0
2025						0	0			0	1,394,349	1,224,287
2026						0	0			0	1,228,398	-91,664
2030						0	0			0	11,202	4,329

* Represents Maximum Contract Amount

Notes: In order to limit this to an assessment of agricultural water needs, M&I water demand in the amount of 5,420 AF in 1989 and 4,938 AF in 2025 are shown as transfers out. 2030 is 2025 assessment for Westlands Distribution District #2 and includes an assignment of 4198 AF from Mercy Springs Water District, 5% conveyance loss and effective precipitation proportional to WWD 2025 estimate.