									Sub-Area 2			
	Peak Flow Below Cuttle Weir (cfs)	Peak Flow	Sub-Area 2	Sub-Area 2		Upper Reach		Middle Reach	Area of			
		near Mill	Main	Main	Upper Reach	Overbank	Middle Reach	Overbank	Inundation			
		Creek	Channel	Channel	Overbank	Hydraulic	Overbank	Hydraulic	Santa Ana			
		Confluence	Velocity ^a	Depth ^b	Velocity ^{c, g}	Flood Depth ^d	Velocity ^{c, g}	Flood Depth	River only ^e			
		(cfs)	(ft/s)	(<i>ft</i>)	(ft/s)	(<i>ft</i>)	(ft/s)	^{d,g} (ft)	(acres)			
5-YEAR FLOOD												
No Project	500	2,000	3.6	5.2	0.0	0.0	1.6	0.8	361			
Project ^f	0	1,500	3.1	4.8	0.0	0.0	1.3	0.5	296			
Effect of Project h, i, j	-500	-500	-0.5	-0.4	0.0	0.0	-0.3	-0.3	-65			
Percent Change	-100.0%	-25.0%							-18.1%			
10-YEAR FLOOD												
No Project	500	4,200	4.1	6.3	0.0	0.0	2.3	1.1	496			
Project ^f	0	3,700	3.6	6.1	0.0	0.0	2.3	1.0	461			
Effect of Project h, i, j	-500	-500	-0.5	-0.2	0.0	0.0	0	-0.1	-35			
Percent Change	-100.0%	-11.9%							-6.9%			
				20-Year	Flood							
No Project	2,500	8,000	4.8	7.7	0.0	0.0	2.7	2.0	623			
Project ^f	1,000	6,500	4.5	7.1	0.0	0.0	2.5	1.6	579			
Effect of Project h, i, j	-1,500	-1,500	-0.3	-0.6	0.0	0.0	-0.2	-0.4	-44			
Percent Change	-60.0%	-18.8%							-7.1%			
50-YEAR FLOOD												
No Project	3,800	15,500	5.8	9.0	0.0	0.0	1.0	0.4	764			
Project ^f	2,300	14,000	5.5	8.8	0.0	0.0	0.5	0.2	735			
Effect of Project h, i, j	-1,500	-1,500	-0.3	-0.2	0.0	0.0	-0.5	-0.2	-29			
Percent Change	-39.5%	-9.7%							-3.8%			

Table 6.1-3. Effects of Muni/Western Diversion of up to 1,500 cfs in Sub-Area 2

									Sub-Area 2		
		Peak Flow	Sub-Area 2	Sub-Area 2		Upper Reach		Middle Reach	Area of		
	Peak Flow	near Mill	Main	Main	Upper Reach	Överbank	Middle Reach	Overbank	Inundation		
	Below	Creek	Channel	Channel	Överbank	Hydraulic	Overbank	Hydraulic	Santa Ana		
	Cuttle	Confluence	Velocity ^a	Depth ^b	Velocity c, g	Flood Depth ^d	Velocity ^{c, g}	Flood Depth	River only ^e		
	Weir (cfs)	(cfs)	(ft/s)	(ft)	(ft/s)	(ft)	(ft/s)	d,g (ft)	(acres)		
100-Year Flood											
No Project	5,000	25,000	6.5	10.3	0.0	0.0	1.3	0.5	862		
Project ^f	3,500	23,500	6.3	10.1	0.0	0.0	1.3	0.5	841		
Effect of Project h, i, j	-1,500	-1,500	-0.2	-0.2	0.0	0.0	0.0	0.0	-21		
Percent Change	-30.0%	-6.0%							-2.4%		

Table 6.1-3. Effects of Muni/Western Diversion of up to 1,500 cfs in Sub-Area 2 (continued)

Notes:

⁴ Main channel velocity is median value of cross section average velocities.

^b Main channel depth is median value of the maximum depths of the cross section.

^c Overbank velocity is average velocity of the cross section velocities.

^d Overbank hydraulic flood depth is the median value of the hydraulic flood depths for each cross section. The hydraulic flood depth is the cross section area of the flow divided by the top width of the flow.

^e Inundation Area is only approximate and includes only the Santa Ana River. Mill Creek, City Creek and Plunge Creek inundation areas would be unaffected.

^f Project is diversion of up to 1,500 cfs by Muni/Western.

^g Average for main overbank area (right side as one looks downstream) in the vicinity of the Wooly Star Preserve.

^h Small positive effects of Project due to calculation methods (including tolerance levels) and do not reflect significant differences.

ⁱ Effects of Project may not appear to be the difference between baseline and Project because of displayed rounding.

^j Under 5- and 10-year floods, water available for Muni/Western diversion is estimated to be no more than 500 cfs.