Sewer Area Study Table

* Calculated using Kutter's Formula with n=0.013

** Design capacity keeps three decimal places at least

*** Based on current land use and coefficients per LA County, (Attach supporting calculations)

**** For pipes < 15", design capacity of the sewer mainline is defined as 1/2 full = 100% capacity (d/D)

***** For pipes ≥ 15", design capacity of the sewer mainline is defined as 3/4 full = 100% capacity (d/D)

Kutter's Formula

$$C = \frac{41.65 + \frac{0.00281}{s} + \frac{1.811}{n}}{1 + \frac{n}{\sqrt{R}}\left(41.65 + \frac{0.00281}{s}\right)}$$

$$V = C\sqrt{RS}$$

$$Q = CA\sqrt{RS}$$

Street Name	Segment		Pipe		* Design capacity		Area (Acres)	Zoning Coeff.	Calculated Flow (cfs)	***Cumulative Calculated Flow (cfs)	PC orCI Construction Plan #	%Full	Comment	Jurisdiction
	M.H. #	M.H. #	Size (in.)	Slope (%)	1/2 Full(<15")	3/4 Full(≥15")						Cumulative Flow / Capacity		
Sample A	1	2	8	0.4	0.349		3	0.004	0.012	0.012	PC 123456	3.44%	OK	LA County
Sample B	3	4	15	1.4		6.891	3	0.004	0.012	0.024	PC 456789	0.35%	OK	LA County
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