

Los Diamantes Regional Pond
Proposed Conditions Basin Parameter Calculations

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Basin / Land Use	Sum of Area	Area (sq. mi.)	A	B	C	D	IA	INF	%IMP	Sed. Bulking Factor
RA 107A	0.0858		5.32	0.54	2.39	0.34	0.55	1.40	3.9	1.15
VACANT	0.0673	0.067	5.32	0.54	0.54	0.34				0.08
DRAINAGE POND	0.0185	0.019	0.00	0.00	1.85	0.00				0.02
RA 107B.1	0.0349		3.49	0.00	0.00	0.00	0.65	1.67	0.0	1.18
OPEN	0.0349	0.035	3.49	0.00	0.00	0.00				0.04
RA 107B.2	0.0338		3.38	0.00	0.00	0.00	0.65	1.67	0.0	1.18
OPEN	0.0338	0.034	3.38	0.00	0.00	0.00				0.04
RA 107C	0.0501		4.53	0.18	0.16	0.15	0.63	1.63	2.9	1.17
1/2 AC RESIDENTIAL	0.0054	0.005	0.05	0.18	0.16	0.15				0.01
OPEN	0.0448	0.045	4.48	0.00	0.00	0.00				0.05
RA 107D	0.0463		3.89	0.00	0.07	0.67	0.64	1.65	14.4	1.16
MAJOR ROAD	0.0074	0.007	0.00	0.00	0.07	0.67				0.01
OPEN	0.0389	0.039	3.89	0.00	0.00	0.00				0.05
RA 107E	0.0658		5.95	0.00	0.06	0.56	0.65	1.66	8.6	1.17
MAJOR ROAD	0.0063	0.006	0.00	0.00	0.06	0.56				0.01
OPEN	0.0595	0.060	5.95	0.00	0.00	0.00				0.07
RA 108A	0.1937		0.89	2.51	3.07	12.91	0.45	1.11	66.6	1.07
VACANT	0.0112	0.011	0.89	0.09	0.09	0.06				0.01
1/8 AC RESIDENTIAL	0.1612	0.161	0.00	2.42	2.42	11.28				0.17
MAJOR ROAD	0.0174	0.017	0.00	0.00	0.17	1.57				0.02
DRAINAGE POND	0.0038	0.004	0.00	0.00	0.38	0.00				0.00
RA 108B	0.0996		7.87	0.80	0.80	0.50	0.61	1.56	5.0	1.18
VACANT	0.0996	0.100	7.87	0.80	0.80	0.50				0.12
MAJOR ROAD	0.0000	0.000	0.00	0.00	0.00	0.00				0.00
RA 108C	0.0346		2.73	0.28	0.28	0.17	0.61	1.56	5.0	1.18
VACANT	0.0345	0.035	2.73	0.28	0.28	0.17				0.04
MAJOR ROAD	0.0000	0.000	0.00	0.00	0.00	0.00				0.00
Grand Total	0.6447									

Basin	Sheet Flow					Shallow Concentrated Flow					Channel/Pipe Flow					Channel/Pipe Flow					Total Time, Tc (hrs)	IA (in/hr)	INF (in/hr)	D (%)	Storage Coefficient, R (hrs)
	Length (ft)	Slope (ft/ft)	Adj. Slope (ft/ft)	Kn	Time (hrs)	Length (ft)	Slope (ft/ft)	Adj. Slope (ft/ft)	Kn	Time (hrs)	Length (ft)	Slope (ft/ft)	Adj. Slope (ft/ft)	Kn	Time (hrs)	Length (ft)	Slope (ft/ft)	Adj. Slope (ft/ft)	Kn	Time (hrs)					
RA 107A	400	0.043	0.042	1	0.036	95	0.084	0.057	2	0.003	1710	0.021	0.021	3	0.073					0.000	0.112	0.55	1.40	3.9	0.136
RA 107B.1	400	0.015	0.015	1	0.060	400	0.080	0.056	2	0.013	455	0.020	0.020	3	0.020					0.000	0.094	0.65	1.67	0.0	0.137
RA 107B.2	400	0.050	0.048	1	0.033	400	0.053	0.049	2	0.016	830	0.002	0.002	3	0.104					0.000	0.154	0.65	1.67	0.0	0.225
RA 107C	400	0.009	0.009	1	0.079	715	0.016	0.016	2	0.052	2275	0.037	0.037	3	0.073					0.000	0.204	0.63	1.63	2.9	0.265
RA 107D	400	0.018	0.018	1	0.056	50	0.060	0.052	2	0.002	1875	0.013	0.013	3	0.100					0.000	0.158	0.64	1.65	14.4	0.185
RA 107E	400	0.008	0.008	1	0.086	390	0.041	0.041	2	0.018	1840	0.011	0.011	3	0.109					0.000	0.212	0.65	1.66	8.6	0.260
RA 108A	200	0.045	0.044	1	0.017	1085	0.019	0.019	2	0.072	2185	0.022	0.022	3	0.090					0.000	0.180	0.45	1.11	66.6	0.161
RA 108B	400	0.030	0.030	1	0.043	365	0.025	0.025	2	0.022	2125	0.016	0.016	3	0.105					0.000	0.170	0.61	1.56	5.0	0.212
RA 108C	400	0.038	0.038	1	0.038	145	0.014	0.014	2	0.011	890	0.035	0.035	3	0.029					0.000	0.079	0.61	1.56	5.0	0.099