

Slope Flow Spreadsheet

NEFCO "Hot Spots" Priority Report

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Yn/D (1/4 Pipe) =	0.0634	Yn/D (1/2 Pipe) =	0.232
A/D^2 =	0.1535	A/D^2 =	0.3927

Identification MH# to MH#	Length (feet)	Rim Elevation	Manhole Depth (ft.)	Flow Line (upper)	Flow Line (lower)	Size of Pipe (inches)	Pipe Material	Slope (ft./ft.)	Manning's "n"	at 1/4 Pipe			at 1/2 Pipe		
										Q (mgd)	Q (gpm)	V (ft./s)	Q (mgd)	Q (gpm)	V (ft./s)
EPA Min. Slope (0.22%)	100	1000	10.00	990	989.78	12	RCP	0.0022	0.0130	0.148	102.68	1.49	0.54	375.72	2.13
0.50%	100	1000	10.00	990	989.5	12	RCP	0.0050	0.0130	0.223	154.79	2.25	0.82	566.42	3.21
1.00%	100	1000	10.00	990	989	12	RCP	0.0100	0.0130	0.315	218.91	3.18	1.15	801.04	4.54
2.00%	100	1000	10.00	990	988	12	RCP	0.0200	0.0130	0.446	309.58	4.49	1.63	1,132.85	6.43
3.00%	100	1000	10.00	990	987	12	RCP	0.0300	0.0130	0.546	379.16	5.50	2.00	1,387.45	7.87
4.00%	100	1000	10.00	990	986	12	RCP	0.0400	0.0130	0.630	437.81	6.35	2.31	1,602.08	9.09
5.30%	100	1000	10.00	990	985	12	RCP	0.0500	0.0130	0.705	489.49	7.10	2.58	1,791.19	10.16
6.00%	100	1000	10.00	990	984	12	RCP	0.0600	0.0130	0.772	536.21	7.78	2.83	1,962.15	11.13
7.00%	100	1000	10.00	990	983	12	RCP	0.0700	0.0130	0.834	579.17	8.41	3.05	2,119.36	12.02
8.00%	100	1000	10.00	990	982	12	RCP	0.0800	0.0130	0.892	619.16	8.99	3.26	2,265.69	12.85
9.00%	100	1000	10.00	990	981	12	RCP	0.0900	0.0130	0.946	656.72	9.53	3.46	2,403.13	13.63
10.00%	100	1000	10.00	990	980	12	RCP	0.1000	0.0130	0.997	692.24	10.05	3.65	2,533.12	14.37