Milford City ERC’s

Milford City provides this information as a general planning resource regarding available water and wastewater system capacity for future growth and development. The information presented is based on the City’s most recent master plans, engineering studies, and available ERC data.

The charts and figures provided are intended for informational purposes only and do not guarantee service availability, system capacity, or development approval for any specific project or property.

All proposed developments, subdivisions, commercial projects, and system connections are subject to review by Milford City and may require a development study, hydraulic analysis, engineering review, and approval by the City to determine actual system impacts and available capacity at the time of application.

System conditions, infrastructure demands, regulations, and available capacity may change over time.

WASTEWATER

Milford City ERC Calculations

Starting Year	2022		
Current Population	1,507		
Population Growth Rate through 2042	1.00%		
		ERC per Connection	Total Current ERCs
Current Residential Connections	626	1	626
Current Commercial Connections	51	2	102
Current Industrial Connections	2	2.5	5
Current Institutional Connections	4	1	4
Total	683		737
Population Per ERC	753.50		
Current Average Flow Per ERC (gpd)	147		
Future Average Flow per ERC (gpd)	147		

Year	Population	Estimated Residential Connections	Estimated Commercial Connections	Estimated Industrial Connections	Estimated Institutional Connections	Est. Total ERCs
2022	1,507	626.00	51.00	2.00	4.00	737.00
2023	1,522	632.26	51.51	2.02	4.04	744.37
2024	1,537	638.58	52.03	2.04	4.08	751.81
2025	1,553	644.97	52.55	2.06	4.12	759.33
2026	1,568	651.42	53.07	2.08	4.16	766.93
2027	1,584	657.93	53.60	2.10	4.20	774.59
2028	1,600	664.51	54.14	2.12	4.25	782.34
2029	1,616	671.16	54.68	2.14	4.29	790.16
2030	1,632	677.87	55.23	2.17	4.33	798.07
2031	1,648	684.65	55.78	2.19	4.37	806.05
2032	1,665	691.49	56.34	2.21	4.42	814.11
2033	1,681	698.41	56.90	2.23	4.46	822.25
2034	1,698	705.39	57.47	2.25	4.51	830.47
2035	1,715	712.45	58.04	2.28	4.55	838.77
2036	1,732	719.57	58.62	2.30	4.60	847.16
2037	1,750	726.77	59.21	2.32	4.64	855.63
2038	1,767	734.03	59.80	2.35	4.69	864.19
2039	1,785	741.37	60.40	2.37	4.74	872.83
2040	1,803	748.79	61.00	2.39	4.78	881.56
2041	1,821	756.28	61.61	2.42	4.83	890.38
2042	1,839	763.84	62.23	2.44	4.88	899.28

WATER

The 20 year projected source capacity requirement is calculated as follows:

Projected Required Source Capacity - 20 Yrs

Residential Use:

Indoor

766 ERC's x (800 gpd / ERC) x (1 day / 24 hr) x (1 hr / 60 min.) = 425.56 gpm

Outdoor (Assume 100% of ERC's)

766 ERC's x (1 acre / 4 ERC's) x (3.96 gpm / irr. acre) = 758.34 gpm

Commercial Use:

Indoor

134 ERC's x (800 gpd / ERC) x (1 day / 24 hr) x (1 hr / 60 min.) = 74.72 gpm

Outdoor (Assume 100% of ERC's)

134 ERC's x (1 acre / 4 ERC's) x (3.96 gpm / irr. acre) = 132.66 gpm

Industrial Use:

Indoor

11 ERC's x (800 gpd / ERC) x (1 day / 24 hr) x (1 hr / 60 min.) = 5.84 gpm

Outdoor (Assume 100% of ERC's)

11 ERC's x (1 acre / 4 ERC's) x (3.96 gpm / irr. acre) = 10.40 gpm

Hospitals & Schools Use:

Indoor

13 ERC's x (800 gpd / ERC) x (1 day / 24 hr) x (1 hr / 60 min) = 7.00 gpm

Outdoor (Assume 100% of ERC's)

13 ERC's x (1 acre / 4 ERC's) x (3.96 gpm / irr. acre) = 12.48 gpm

Bulk Water Sales (Metered Hydrant)

1 Metered Hydrant (6,985,000 gal / month) x (1 month / 30 days) x (1 day / 1440 minutes) = 161.69 gpm

Total Projected Required Source Capacity = 1,588.69 gpm
Total Available Source Capacity = 900.00 gpm
Estimated Projected Source Capacity Deficit = (689) gpm