

Pumping Station Force Main	Length (feet)	Diameter (inches)	Material	Year Installed	Nominal Force Main Capacity		Required Capacity 2030		Required Capacity 2060		Excess Available Capacity 2060 (mgd)	Additional Required Capacity 2060 Based on 8 fps	Addition Required	
					8 fps Velocity (mgd)	Pressure (mgd)	Low (mgd)	High (mgd)	Low (mgd)	High (mgd)			High	Low
Total (Miles)	27.1													
Notes:														
	1.	MMSD has 50-million gallons of treated storage at the NSWTP that is used if the effluent flows exceed 78.6 mgd. If flows extend for a period of time, discharge to Nine Springs Creek will occur via an overflow structure.												
	2.	Estimates for velocities in Force Mains 2, 3, and 4 are based on all pumping stations pumping at firm capacity at the same time.												
	3.	Material abbreviations: CIP – Cast Iron Pipe DIP – Ductile Iron Pipe PVC – Polyvinyl Chloride Pipe RCCP – Reinforced Concrete Cylinder Pipe												