

Village of Bald Head Island  
Structure Fire Water Flow Brief  
November 20-21, 2021

I am writing a short abstract to accompany the water flow graph depicting water pressures on scene during the, November 20, 2021, structure fire response on Bald Head Island between 2037 and approximately 0600 on November 21,2021.

Looking at the SCADA screen graph at approximately 2037 the system water pressure drops to approximately 45psi and maintains that average until the fire distribution pump is engaged. At approximately 2115 the system water pressure increases to 100 PSI where it remained for approximately 5-10 minutes. The fire distribution pump was turned off and the system water pressure went to approximately 50 PSI, plateaued at 63 PSI and then retreated to an average of approximately 57 PSI for the remainder of the event.

Hydrant flow tests proved to be accurate, what affected the water flow at the specific hydrants was the proximity of access that were exercised during the fire suppression process.

Please note, the variations on the attached graph are gauge readings only and need to be interpolated to present system pressures. The water gauge reading fluctuates visually on paper and are reflected as a more constant water system pressure.

