ACTIVE FIRE SOLUTIONS

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NFPA 291

Fire Hydrant Flow Test Report

Recommended Practice for Fire Flow Testing and Marking of Hydrants • Underground water supply / design flow test

PROJECT INFORMATION

Project / Building	1480 Richmond Road	**Date of Test**	October 30th 2026
Address / Location	1480 Richmond Road	**Time of Test**	8:00 AM
Client / Owner		**Work Order #**	
Water Purveyor	City of Ottawa	**Purpose of Test**	Sprinkler design

TEST HYDRANTS & WATER MAIN

Residual Hydrant	City of Ottawa - 360024H012	**Main Size / Material**	6" Ductile fed from 12"
Flow Hydrant 1	1480 Richmond Beside TD Bank	**Main Type**	Dead-end
Flow Hydrant 2		**Distance Between (ft)**	100' +

TEST DATA

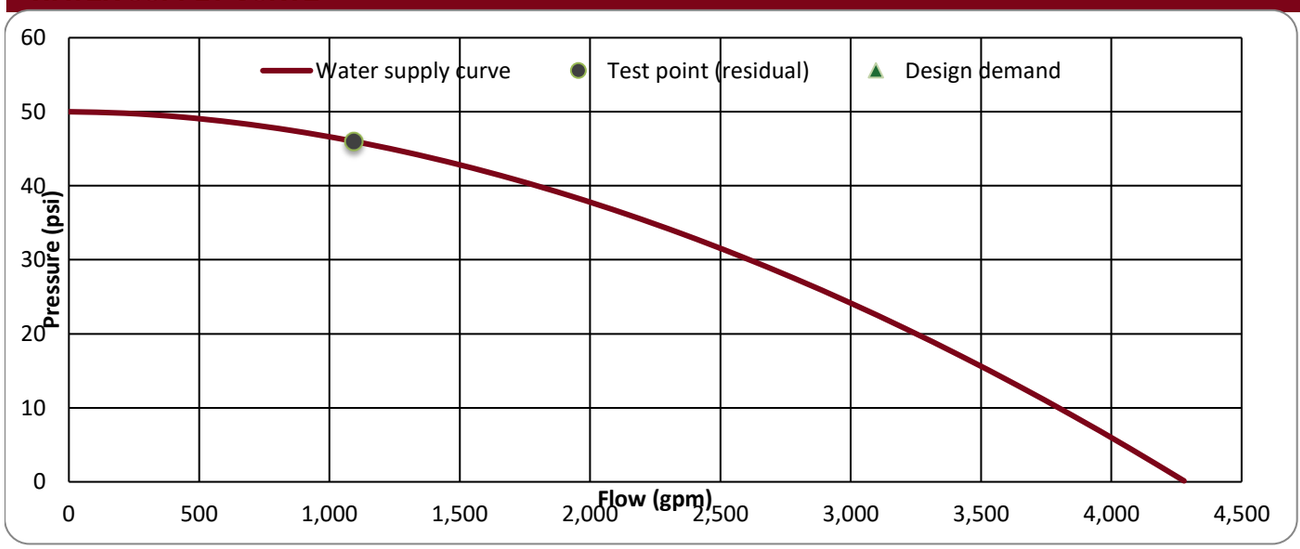
Flow Outlet	Flow Device	Nozzle / Pitot Pressure (psi)	Flow (gpm)	Notes
Outlet 1	Pitotless Nozzle 2" – on Hose Monster	11	547	
Outlet 2	Pitotless Nozzle 2" – on Hose Monster	11	547	
Outlet 3				

Flows read from Hose Monster FM-approved charts: Pitotless Nozzle 1¾" (PN1.75THD, 10–80 psi) and 2" (PN2THD, 10–70 psi) – use the "on Hose Monster" column when on the 2½" Hose Monster / Flusher, "open atmosphere" when direct on the hydrant. Open outlets: $Q = 29.83 \times c \times d^2 \times \sqrt{p}$. "Check" = reading outside the chart range.

Static Pressure (psi)	50	**Total Flow, Qf (gpm)**	**1,094**
Residual Pressure (psi)	46	**Pressure Drop (psi)**	4.0
Design Demand Flow (gpm)		**Available Flow @ 20 psi (gpm)**	**3,248**
Design Demand Pressure (psi)		**Available Pressure @ Design Flow (psi)**	
Water Supply vs. Design Demand		**NFPA 291 Hydrant Class (bonnet colour)**	**AA – Light Blue**

Q20 = Qf × ((S − 20) ÷ (S − R))^0.54 P at Q = S − (S − R) × (Q ÷ Qf)^1.85 Class AA ≥ 1500 gpm • A 1000–1499 • B 500–999 • C < 500 (rated at 20 psi residual)

WATER SUPPLY CURVE



REMARKS

Tested By (Printed Name)	Cert. / Licence No.	Witnessed By	Date	Signature
Tyler Preap	15002457	Daniel Walsh	October 30th 2026	