



Fire Flow Testing Report

Trafalgar Engineering - Khalsa Gate & Pine Glen
Oakville, Ontario

Flow Hydrant #1		
Watermain Size	300mm PVC	
Location	RoH Fire Hydrant # WHY 41860	
Date & Time	Make/Model of Hydrant	Secondary Valve Location
September 5th @ 08:15	McAvity Brigadier B50-B	5m West
Static Pressure (psi)	Pitot 1 Port Open (psi)	Pitot 2 Ports Open (psi)
64	38	26

Residual Hydrant #1		
Watermain Size	400mm PVC	
Location	RoH Fire Hydrant #WHY 41859	
Date & Time	Make/Model of Hydrant	Secondary Valve Location
September 5th @ 08:15	McAvity Brigadier B50-B	0.5m West
Static Pressure (psi)	Residual Pressure 1 Port Open (psi)	Residual Pressure 2 Ports Open (psi)
64	62	60

Fire Flow Calculation #1	
Field Flow 1 Port Open (GPM)	TFF #1 1 Port Open at 20 psi (GPM)
1,034	5,488
Field Flow 2 Ports Open (GPM)	TFF #2 2 Ports Open at 20 psi (GPM)
1,721	6,282
Hydrant Classification	Hydrant Colour Code
AA	Light Blue

TFF = Theoretical Fire Flow GPM = US Gallons Per Minute

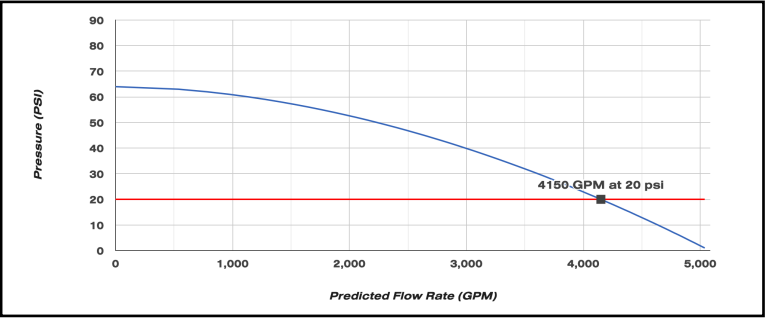
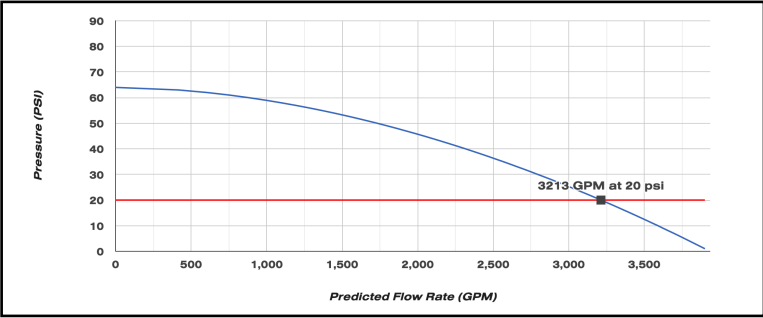
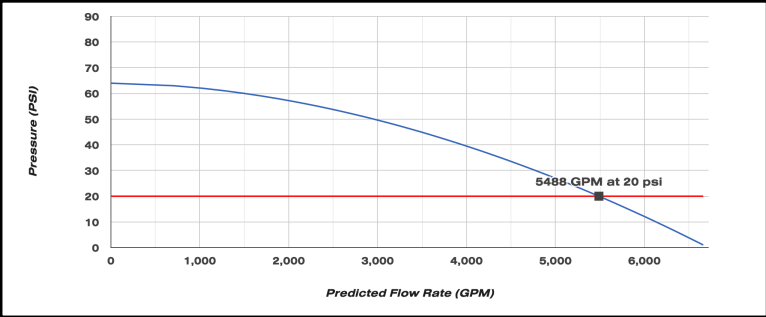
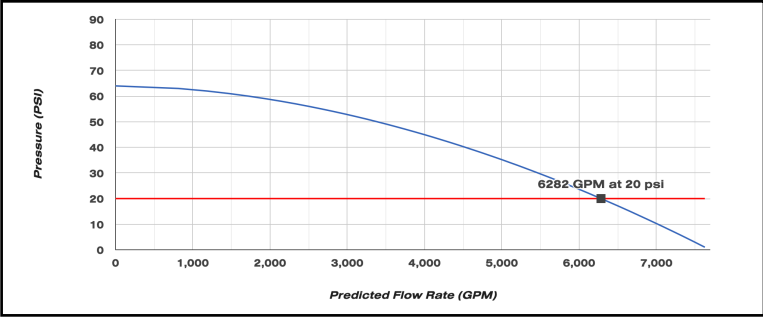
Flow Hydrant #2		
Watermain Size	400mm PVC	
Location	RoH Fire Hydrant #WHY 41859	
Date & Time	Make/Model of Hydrant	Secondary Valve Location
September 5th @ 08:30	McAvity Brigadier B50-B	0.5m West
Static Pressure (psi)	Pitot 1 Port Open (psi)	Pitot 2 Ports Open (psi)
64	35	21

Residual Hydrant #2		
Watermain Size	300mm PVC	
Location	RoH Fire Hydrant # WHY 41860	
Date & Time	Make/Model of Hydrant	Secondary Valve Location
September 5th @ 08:30	McAvity Brigadier B50-B	5m West
Static Pressure (psi)	Residual Pressure 1 Port (psi)	Residual Pressure 2 Ports (psi)
64	59	57

Fire Flow Calculation #2	
Field Flow 1 Port Open (GPM)	TFF #3 1 Port Open at 20 psi (GPM)
993	3,213
Field Flow 2 Ports Open (GPM)	TFF #4 2 Ports Open at 20 psi (GPM)
1,538	4,150
Hydrant Classification	Hydrant Colour Code
AA	Light Blue

TFF = Theoretical Fire Flow GPM = US Gallons Per Minute

This flow test report is representative of the static water pressure and flow rates only at the time the tests were completed. Results may vary during peak usage hours.



NFPA Classification and Marking of Hydrants			
Hydrant Classification	Colour Scheme	Hydrant Capacity (GPM)	Hydrant Capacity (L/min)
AA	Light Blue	>1500	>5700
A	Green	1000-1499	3800-5699
B	Orange	500-599	1900-3799
C	Red	<500	<1900

Source: NFPA.org (Zevotek 2024)