



Hydrant Testing Ontario

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REPORT
N°. 2559

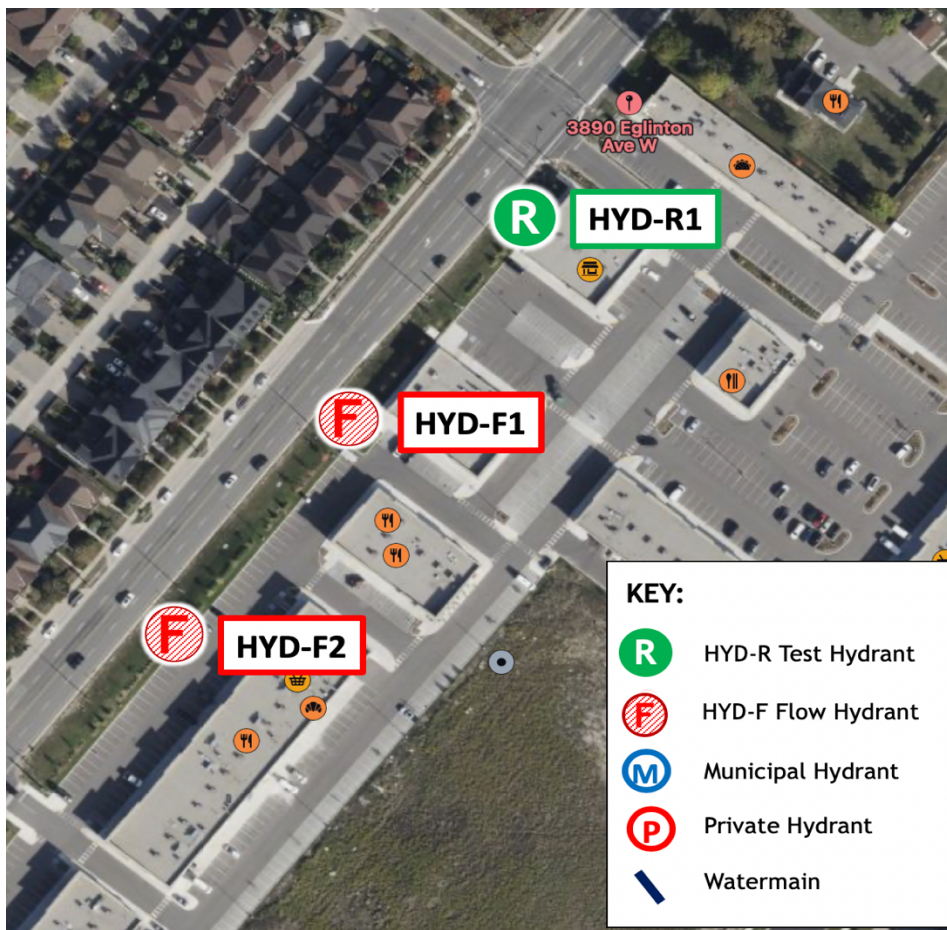
November 8, 2024

To: Wendy Li
NexTrans Consulting Engineers
520 Industrial Parkway South
Suite 201
Aurora ON 14G 6W8

RE: Hydrant Flow Test - 3650 Eglinton Ave W, Mississauga

Please find the Report for the following works

Scope: Conducted Hydrant Flow Test as per NFPA291 Recommended Practices for Water Flow Testing and Marking of Hydrants.





HYDRANT FLOW TEST

MISSISSAUGA

TEST 1

DATE: October 31, 2024

TIME: 12:50 PM

R - TEST HYDRANT 3890 EGLINTON AVE W

HYDRANT No. HYD-R1

HYDRANT MODEL: CENTURY

COLOUR: BLUE

STATIC PRESSURE psi (hr-20^{0.54}): 71

VARIANCE: 4.23%

Q - FLOW HYDRANT 45-3900 EGLINTON AVE W

HYDRANT No. HYD-F1

HYDRANT MODEL: CENTURY

COLOUR: BLUE

| No. Outlets | Residual Pressure ($h_f \cdot R^{0.54}$) | Orifice Dia Dia. (in.) (d^2) | Coefficient | Nozzle PSI (\sqrt{psi}) | Q = Flow (USGPM) $Q = 29.83 (c) (d2) (\sqrt{psi})$ |
|----------------------------|---|-------------------------------------|-------------|--------------------------------|---|
| 1 | 69 | 2.5 | 0.9 | 45 | 1126 |
| 2 | 68 | 2.5 | 0.9 | 25 | 839 |
| Q_F = Total Flow (USGPM) | | | | | 1678 |

Q_R = flow predicted @ 20 psi

7749

USGPM

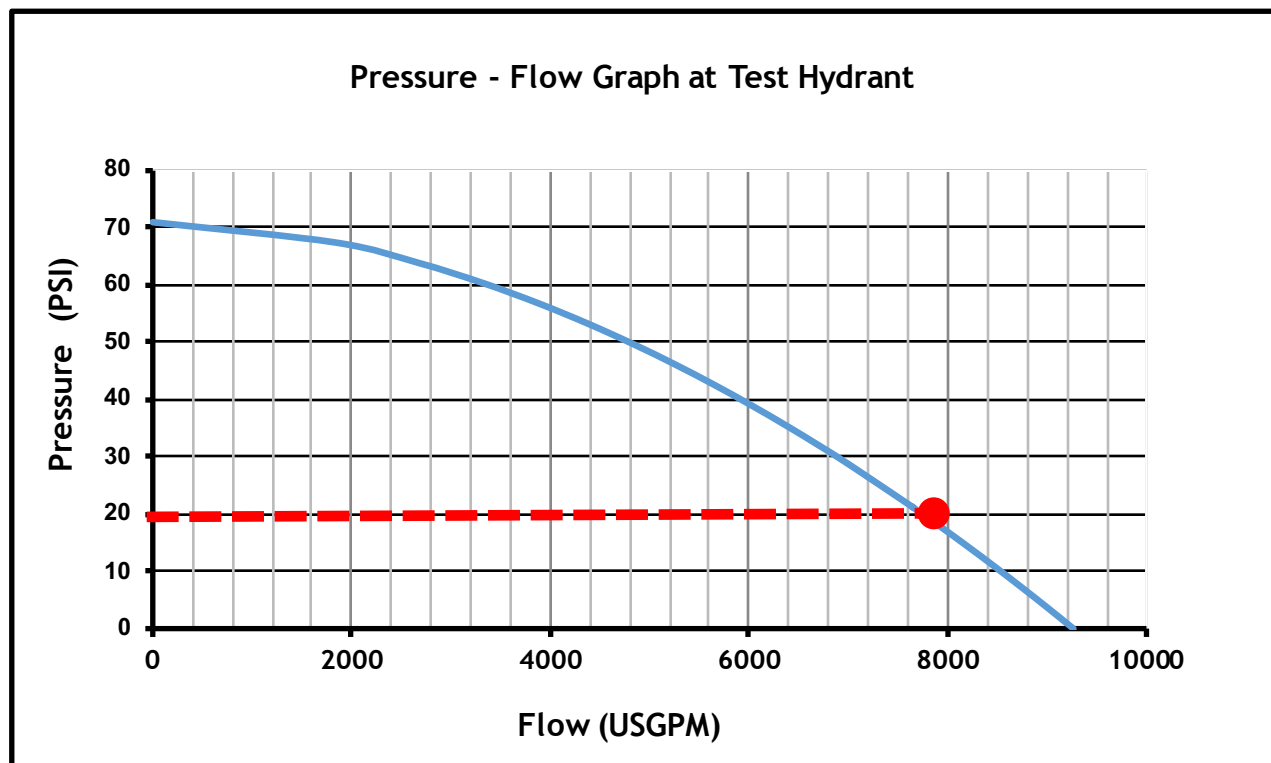
$$Q_R = Q_F \cdot (H_r - 20^{0.54}) / (H_f - R^{0.54})$$

489

L/s

NFPA Rating:

CLASS AA - BLUE





HYDRANT FLOW TEST

MISSISSAUGA

TEST 2

DATE: October 31, 2024

TIME: 1:15 PM

R -TEST HYDRANT 3890 EGLINTON AVE W

HYDRANT No. HYD-R1

HYDRANT MODEL: CENTURY

COLOUR: BLUE

STATIC PRESSURE psi (hr-20^{0.54}): 71

VARIANCE: 8.45%

Q - FLOW HYDRANT 25-3920 EGLINTON AVE W

HYDRANT No. HYD-F1/F2

HYDRANT MODEL: CENTURY

COLOUR: BLUE

| No. Outlets | Residual Pressure ($h_f - R^{0.54}$) | Orifice Dia Dia. (in.) (d^2) | Coefficient | Nozzle PSI (\sqrt{psi}) | Q = Flow (USGPM) $Q = 29.83 (c) (d2) (\sqrt{psi})$ |
|----------------------------|---|-------------------------------------|-------------|--------------------------------|---|
| 1 | 69 | 2.5 | 0.9 | 20 | 750 |
| 2 | 67 | 2.5 | 0.9 | 20 | 750 |
| 3 | 68 | 2.5 | 0.9 | 20 | 750 |
| 4 | 65 | 2.5 | 0.9 | 20 | 750 |
| Q_F = Total Flow (USGPM) | | | | | 3002 |

Q_R = flow predicted @ 20 psi

9533

USGPM

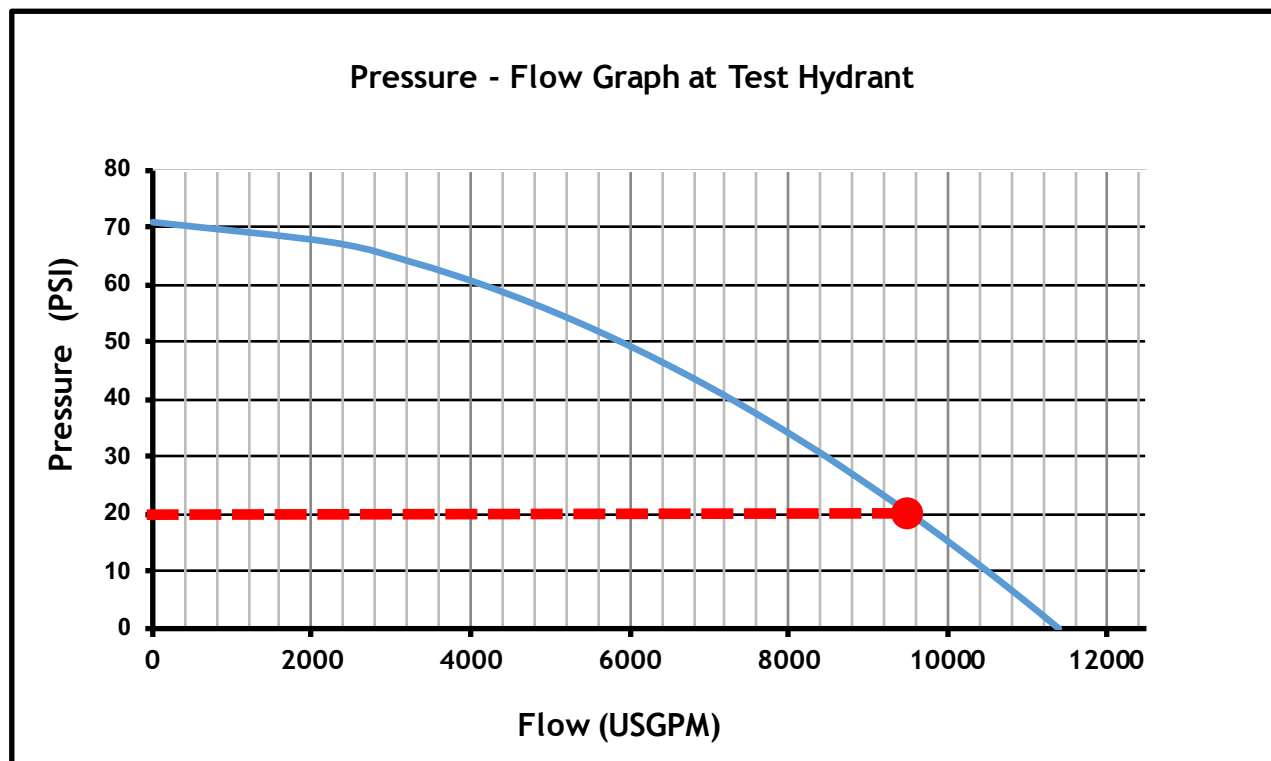
$$Q_R = Q_F * (H_r - 20^{0.54}) / (H_f - R^{0.54})$$

601

L/s

NFPA Rating:

CLASS AA - BLUE



Test Conclusion

The system at the time of testing produced a theoretical projected flow rate of:

| LOCATION | Total USGPM | USGPM at 20 psi | lps at 20 psi | Test # |
|----------------|----------------|--------------------|------------------|--------|
| EGLINTON AVE W | 1678 | 7749 | 489 | 1 |
| EGLINTON AVE W | 3002 | 9533 | 601 | 2 |

Hydrants are classified in accordance with their rated capacities as per NFPA291.

| COLOUR | CLASS | Available Flow @ 20psi |
|-------------|-----------|-------------------------|
| BLUE | AA | 1500 GPM or more |
| GREEN | A | 1000 - 1499 GPM |
| ORANGE | B | 500 - 999 GPM |
| RED | C | Below 500 GPM |

We strongly feel that all attempts have been made to ensure that the required data as stipulated was captured, stored and presented in an accurate, efficient and timely manner for the required period.

We look forward to working with you in the future.

Please feel free to contact the undersigned should you require any further information.

Best Regards



Rob Gamache E.P
Manager of Operations
Hydrant Testing Ontario
Info@HTOntario.ca