

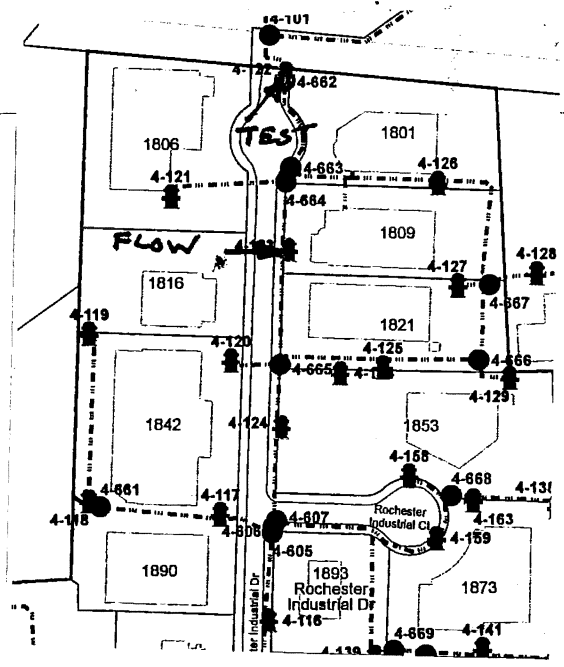
**CITY OF ROCHESTER HILLS
HYDRANT FLOW TEST**

Date: Dec 04, 2019 Time: 10AM Test Performed By: Wayne Rybak, Steve Boh
 Location: 1809 Rochester Industrial Calculations Performed By: Wayne Rybak

Number of Hydrants Flowing: 1
 Number of Outlets Open: 1
 Size of Outlet, D (Inches): 3 3/4
 Friction Loss Coefficient, C_d : 9
 Static Pressure, P_s (psi): 80
 Residual Pressure, P_r (psi): 58
 Pfto Pressure, P_p (psi): 30
 Residual Flow, Q_r (GPM): 2069/1717* $Q_r = 29.83 C_d D^2 (P_p)^{0.54} \# \text{Outlets}$
 Fire Flow at 20 psi, Q_f (GPM): 3557/2952* $Q_f = Q_r [(P_s - 20) / (P_s - P_r)]^{0.64}$
 Supply Main Size (pfto hydrant): 8"
 Supply Main Size (static hydrant): 8"

* MULTIPLIED BY .83 PER NFPA 291
 Drawing of Flow Test Site (include location of flow & test hydrant):

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Date	12/04/19	# of pages	1
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