Fire Flow Results

June 10, 2016
Location: Main St. Chester, CT
Tested: 6/9/2016

\[ Q_R = Q_F \times \frac{h_R^{0.54}}{h_P^{0.54}} \]

- \( Q_R \) = Flow available at desired residue pressure
- \( Q_F \) = Flow during test
- \( h_R \) = Pressure drop to desired residue pressure (i.e. static - 20 psi)
- \( h_P \) = Pressure drop during the test

\[ \begin{align*}
Q_F &= 1350 \\
h_R &= 95 \quad 11.6942 \\
h_P &= 10 \quad 3.46737 \\
Q_R &= \text{Total Available Flow} \quad 4553.07
\end{align*} \]

Test Hydrant: On the South side of Main St across from School Ln.
Flow Hydrant: On the South side of Main St at the intersection of Middlesex Tpk
## Fire Flow

### Flushing Report

<table>
<thead>
<tr>
<th>Name</th>
<th>Ron D. + Bob S.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date</td>
<td>6/9/2016</td>
</tr>
<tr>
<td>Town</td>
<td>Chester</td>
</tr>
<tr>
<td>Temperature</td>
<td></td>
</tr>
<tr>
<td>Weather</td>
<td></td>
</tr>
<tr>
<td>Day / Night</td>
<td>(Check One)</td>
</tr>
<tr>
<td>Day #</td>
<td></td>
</tr>
</tbody>
</table>

### Hydrant Flowed

<table>
<thead>
<tr>
<th>STA. #</th>
<th>Street</th>
<th>Pitot</th>
<th>GPM</th>
<th>Nozzle Type DIA.</th>
<th>Station</th>
<th>Static</th>
<th>Residual Press.</th>
<th>Time</th>
<th>Start</th>
<th>Stop</th>
<th>Before</th>
<th>After</th>
<th>Total Gals</th>
</tr>
</thead>
<tbody>
<tr>
<td>+33</td>
<td>Main ST</td>
<td>65</td>
<td>1350</td>
<td>2</td>
<td>32</td>
<td>115</td>
<td>105</td>
<td>5</td>
<td>935</td>
<td>940</td>
<td>C</td>
<td>C</td>
<td>6750</td>
</tr>
</tbody>
</table>

**Flushing Condition of Water**
- B-Black, DB-Dk Brown, BR-Brown
- T-Tan, CS-Clear w/ specks, C-Clear

**Remarks:**

Total Gallons: [Blank]

Recorded By: [Blank]
Static Pressure = 115 psi

At 105 psi
Flow = 1350

Chester Library
Main Street, Chester
Fire Flow Graph 6/9/2016

FLOW — GAL PER MIN.

PRESSURE — LB PER SQ. IN.