

City of Columbus - Division of Water

Water Main Pressure Test Report

Job Name: Main Street Water Line Improvements

Date: X-XX-XX

Project No: XX-XXX

Contractor: XXXXXXXXXXXX

Contract No. XXXX

Section Tested: Section A, Section B, Section C

Section Description:

Main Street from anchor tee and valve to end cap, including all hydrant foot valves (Section A). Water Ave (Section B) and High St (Section C) side street connections included to end caps.

Allowable Leakage Calculations

Note: Stationing shown shall be as-built water main stationing

	Section A	Section B	Section C	Section D
Location	10+01 to 17+20	13+62	16+80	xxxx
Length of Pipe (Feet)	719	15	56	xxxx
Nominal Pipe Diameter (Inches)	8	8	8	xxxx
Test Pressure (150 PSI)	150	150	150	150
Allowable Leakage (2 hour test)	0.95	0.02	0.08	#VALUE!

Per 801.10, each section of water main must be tested independently from valve to valve.

If pressure varies by more than 5 psi during test, must pump back up to original starting pressure. If pressure drops but does not vary by more than 5 psi during test, only have to pump back up to original starting pressure at end of test to measure the leakage.

L= allowable leakage (gal/hr)
 S= length of pipe tested in feet
 D= nominal pipe diameter in inches
 P= test pressure (150 psi)

Formula:

$$L = \frac{SDVP}{148,000} \times 2 \text{ (for 2 hr test)}$$

Diameter of Barrel (inches): 14

Gallons per Inch: 0.6664

.0034 (Diameter of Barrel in inches)²

Time Started: 9:00

Time Stopped: 11:00

Time	Gauge Reading (PSI)	Distance from Top of Barrel to top of Water (inches)	Number of Inches Used	Remarks
9:00	150	30	0	Initial Reading
9:30	149	30	0	Intermediate Reading
10:00	149	30	0	Intermediate Reading
10:30	149	30	0	Intermediate Reading
11:00	150	31	1	Final Reading
		Total Inches Used	1	

Total Leakage (gallons):

0.6664

Allowable Leakage (gallons):

1.06

1.590636255 inches allowed
 25 16ths of an inch allowed

Test Results:

Pass

(Pass or Fail)

Inspector's Signature:

Inspector's Name & Cell Phone Number: