

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: XXXXXXXXXXX

Contract No. XXXX

Section Tested: Section D, Section E

Section Description:

Main Street from anchor tee and valve to main line valve at Sta 16+97 and valve on tee at cross connection at Water Ave (Sta 13+62)(Section D), valve on High St side street connection (Sta 16+80, 36' LT),

Allowable Leakage Calculations

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

	Section D	Section E	Section F	Section G
Location	10+01 to 16+97	16+80, 36' LT	XXXX	XXXX
Length of Pipe (Feet)	696	36	XXXX	XXXX
Nominal Pipe Diameter (Inches)	8	8	XXXX	XXXX
Test Pressure (150 PSI)	150	150	150	150
Allowable Leakage (2 hour test)	0.92	0.05	#VALUE!	#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: 8:00

Time Stopped: 10:00

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	150	30	0	Intermediate Reading
10:00	150	30	0	Intermediate Reading
10:30	150	30	0	Intermediate Reading
11:00	150	30	0	Final Reading
		Total Inches Used	0	

Total Leakage (gallons):

0

Allowable Leakage (gallons):

0.97

1.455582233 inches allowed
 23 16ths of an inch allowed

Test Results:

Pass

(Pass or Fail)

Inspector's Signature:

Inspector's Name & Cell Phone Number: