

WATER QUALITY – PROJECT INSPECTION RECORD, PAGE 2

$L = \frac{BJD \sqrt{P}}{1850}$ = (Pima County Health Dept.) Maximum allowable leakage in gallons per hour for the section of pipeline tested.

$L = \frac{ND \sqrt{P}}{7400}$ =(City of Tucson Specification) Maximum allowable leakage in gallons per hour for the section of pipeline tested.

L = Maximum allowable leakage in gallons per hour

N = The number of joints in the length of pipeline tested

D = Nominal diameter of pipe in inches that is being tested.

P = Testing pressure in PSI.

B = 0.50 for cast iron pipe with mechanical or rubber gasket joints and plastic pipe with rubber gasket joints.

J = Number of joints in length tested.

Calculation for Allowable Loss

4" Pipe = _____ Linear Feet

$\frac{(\quad) \times (\quad) \times (4) \times (\quad)}{1850 \text{ or } 7400} =$ gallons / hour

6" Pipe = _____ Linear Feet

$\frac{(\quad) \times (\quad) \times (6) \times (\quad)}{1850 \text{ or } 7400} =$ gallons / hour

8" Pipe = _____ Linear Feet

$\frac{(\quad) \times (\quad) \times (8) \times (\quad)}{1850 \text{ or } 7400} =$ gallons / hour

12" Pipe = _____ Linear Feet

$\frac{(\quad) \times (\quad) \times (12) \times (\quad)}{1850 \text{ or } 7400} =$ gallons / hour

16" Pipe = _____ Linear Feet

$\frac{(\quad) \times (\quad) \times (16) \times (\quad)}{1850 \text{ or } 7400} =$ gallons / hour

Total Allowable loss = _____ gallons / hour; X(2)= _____ gallons/2 hrs.

Test Information

Start Time: _____ End Time: _____ Date: _____
 Drop in water Level: _____ Loss in gal: _____

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