

# Department of Water Services

## Flow Test Report



Application Location: 225 VIRGINIA AVE SE

Job No:

Reason for Application: Hydrant Flow Test for Developer

Application Received: 5/11/10

Pressure Zone/Reservoir Elev: Low Serv/Brentwd Res/161'-168'

SO #: 10-78266

### Discharge Hydrant # 1

Location: VIRGINIA AVE INT 4TH ST SE SWC

Asset #: H07585

Outlet Dia. (in.): 2.5  
 Velocity Pressure: 50  
 Rate (gpm): 1055

### Discharge Hydrant # 2

Location: 2ND ST INT VIRGINIA AVE SE SEC

Asset #: H06955

Outlet Dia. (in.): 2.5  
 Velocity Pressure: 15  
 Rate (gpm): 578

### Discharge Hydrant # 3

Total Flow (gpm): 1632

### Residual Hydrant

Location: 3RD ST INT VIRGINIA AVE SE SEC

Asset #: H06836

FH Elevation (ft.): 39  
 Static Pressure (psi): 60  
 Residual Pressure (psi): 53  
 Pressure Loss (psi): 7

### Calculations

Reservoir Elevation (ft.): 165  
 Minus FH Elevation (ft.): 39  
 FH Water Level (ft.): 126  
 Divide By: 2.31  
 Theoretical FH Pressure (psi): 55

THEORETICAL HYDRANT PRESSURE = 55 psi. FLOW AVAILABLE AT 20 psi RESIDUAL = 9,327 gpm

Flow at 20psi is an APPROXIMATION only. Distribution system capacity in the future depends on: Demands / Pump Operation / Valve Positions / Water Main Deterioration / Water Main Breaks / Power Outages. WASA does not guarantee the availability of the above calculated flow at 20psi.

Test Performed By: \_\_\_\_\_

Date of Test: 5/27/10

Time of Test: 16:00

Test Checked By: Richard L. Penn

Test Approved By: [Signature]

June 21, 2010

Report #: R044

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