

PART A

Objective: After completing this laboratory exercise the student will:

1. Be able to conduct hydrant flow tests and graphically represent flow test results.
2. Recognize that using multiple flow hydrants or outlets will yield the same curve as using single hydrants or outlets.

Procedure:

Watch the lab activity at OSU and then participate in the lab at SWJTU.

1. Using the indicated flow and test hydrants a flow test is to be conducted using a single outlet on the flow hydrant. Results are to be graphically recorded.

Static: _____

Residual: _____

Orifice Diameter: _____

Orifice Cd: _____

Pitot Pressure: _____

Calculated Flow: _____

2. Using the indicated flow and test hydrants a flow test is to be conducted using two outlets on the flow hydrant. Results are to be graphically recorded.

Static: _____

Residual: _____

Orifice 1 Diameter: _____

Orifice 2 Diameter: _____

Orifice 1 Cd: _____

Orifice 2 Cd: _____

Pitot Pressure 1: _____

Pitot Pressure 1: _____

Calculated Flow (total): _____

3. Results from your test are to be plotted on the graph below.

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