



Pump Station Drawdown Test Circular Wet Well

Pump Station Name: _____

SC DHEC Project Name: _____

Date: _____ SC DHEC Permit Number: _____

Contractor: _____

Engineering Firm: _____

Pump Number	Start Depth (in.)	Stop Depth (in.)	Volume (gallons)	Test Time (min.)	Pumping Rate (gpm)	Gauge Pressure (psig)	Gauge Elevation (MSL)	Wet Well Water Surface (MSL)	Total Dynamic Head (ft.)

<p>Wet Well Volume Pumped</p> $V = 7.48 \frac{gal}{ft^3} \times 0.785D^2 \times (E_1 - E_2)$ <p>V = Volume pumped (gal) D = Wet well diameter (ft) E_1 = Pump start elevation (ft) E_2 = Pump stop elevation (ft)</p>	<p>Pumping Rate</p> $Q = \frac{V}{T}$ <p>Q = Pumping rate (gpm) V = Volume pumped (gal) T = Test rate (min)</p>	<p>Total Dynamic Head (TDH)</p> $TDH = (Z_G - Z_W) + P \frac{144 \frac{in^2}{ft^2}}{62.4 \frac{lb}{cf}}$ <p>TDH = Total pumping head (ft) Z_G = Gauge elevation (MSL) Z_W = Wet well water elevation (MSL) P = Gauge pressure (psig)</p>
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Contractor Representative: _____ Date: _____

Engineer Representative: _____ Date: _____

OJRSA Representative: _____ Date: _____