## FLOW & HYDRAULICS

## **Basic Flow:**

**Q** = A × V (Flow = Area × Velocity)

**Detention Time:** DT = Volume ÷ Flow Rate

## **Weir Formulas:**

**Rectangular Weir:**  $Q = 3.33 \times L \times H^1.5$ 

**V-Notch Weir:** Q = 2.5 × H<sup>2</sup>.5

Cipolletti Weir:  $Q = 3.367 \times L \times H^1.5$ 

Where: Q = flow (ft³/sec), L = length (ft), H = head (ft)