## FLOW RATE AS A FUNCTION OF PRESSURE HEAD AND HOLE DIAMETER IN DRILLED PVC PIPE

## **Drilled Hole Diameter** (inches)

Pressure Head		3/32*	1/8**	5/32	3/16	7/32	1/4
(feet)	(PSI)	Flow Rate (gallons per minute)					
1	0.43	0.10	0.18	0.29	0.42	0.56	0.74
2	0.87	0.15	0.26	0.41	0.59	0.80	1.04
3	1.30	0.18	0.32	0.50	0.72	0.98	1.28
4	1.73	0.21	0.37	0.58	0.83	1.13	1.48
5	2.16	0.23	0.41	0.64	0.93	1.26	1.65
6	2.60	0.25	0.45	0.70	1.02	1.38	1.81

<sup>\*</sup>This size is not recommended.

 $Q = 449 \text{ CA } (2gh) \frac{1}{2}$ 

Where: Q = flow per orifice (gpm)

C = 0.6 for sharp-edged orifices

A = cross-sectional area of orifice (ft<sup>2</sup>)

 $g = gravitational constant = 32.2 \text{ ft/sec}^2$ 

h = pressure head (ft)

Where: Q = flow per orifice (gpm)

 $d = diameter of orifice (ft^2)$ 

h = pressure head (ft)

 $Q = 11.79 d^2 h_{\frac{1}{2}}$ 

Where: Q = flow per orifice (gpm)

d = diameter of orifice (inches)

h = pressure head (ft)

<sup>\*\*</sup>Not recommended for entire system, and only for relatively clear effluents.