

**COBB COUNTY WATER SYSTEM – SYSTEM MAINTENANCE DIVISION
SANITARY SEWER FLOW RATES FOR OVERFLOW DETERMINATIONS
(Gallons per Minute @ V=2.0 fps & n=0.013)**

**Depth of
Flow
(inches)**

Pipe Size (inches)

	6	8	10	12	15	18	21	24	30
1	15	20	25	30	35	40	45	50	100
2	50	60	70	80	85	95	105	125	145
3	90	110	125	135	150	175	185	210	230
4	125	160	180	200	235	260	285	320	350
5	155	190	240	280	315	360	380	445	470
6	180	260	310	355	415	455	500	555	630
7		290	370	425	495	570	620	695	770
8		320	430	500	600	680	760	815	1010
9			465	575	690	800	890	965	1260
10			490	625	775	905	1005	1120	1360
11				685	870	1020	1135	1275	1490
12				715	935	1130	1260	1410	1630
13					1020	1240	1415	1580	1870
14					1070	1345	1520	1690	2110
15					1105	1425	1650	1850	2220
16						1495	1760	1990	2560
17						1550	1880	2110	2730
18						1595	1980	2285	2940
19							2050	2410	3100
20							2115	2530	3330
21							2160	2630	3510
22								2700	3780
23								2765	3900
24								2820	4040
25									4130
26									4200
27									4250
28									4320
29									4370
30									4400

OVERFLOW CALCULATION PROCEDURES

1. Determine time of initial caller notification of sewer overflow.
2. Measure the flow, if any, in inches in sewer immediately downstream of blockage and determine flow rate from table above.
3. Clear obstacles from blocked sewer, allow free & steady flow to stabilize, and note time.
4. Measure the flow in inches in the previously blocked sewer and determine flow rate from table above.
5. Subtract the flow rate from the downstream sewer determined in 2 above, if any, from the flow rate from the previously blocked sewer determined in 4 above and multiply by the elapsed minutes from notification to clearance.
6. Report total amount calculated to Supervisor or Superintendent.