Customized Cost Analysis for Manhole Inflow

	A	B	C	D	E
1					
2	**S.S.I. Manhole Insert Cost Analysis Chart**				
3	**1" Water over**	**Inflow per hour**	**Total manholes**	**Number of manholes**	**Total Inflow**
4	**Manhole Covers**	**per manhole (gpm)**	**in system**	**affected (36%)**	**per hour**
5	**with no pick holes**	**(A4 x 60)**			**(B4 x D4)**
6	15 gpm inflow	900	2000	720	648,000
7					
8	**Inches of**	**Est. Hours of**	**Total Inflow**	**Treatment Cost**	**Treatment Costs**
9	**precipitation / yr.**	**precipitation / yr.**	**per year**	**per 1000 gallons**	**per year**
10	**(national average)**	**(national average)**	**(E4 x B9)**		**(E4 ÷ D9 x 1000)**
11	27	120	77,760,000	$2.00	$155,520
12					
13	**98% Inflow reduction**	**Adjusted annual**	**Annual**	**Est. cost per**	**Total est. cost**
14	**w/ Manhole Insert**	**treatment cost**	**Savings**	**Manhole Insert**	**of Manhole Inserts**
15	**(C9 x 2%)**	**(B9 ÷ 1000 x 1.75)**	**(E9 - B14)**		**(D14 x D4)**
16	1,555,200	$3,110	$152,410	$32.00	$23,040.00
17					
18		**1st year total**		**Total savings**	
19		**savings**		**over 5 years**	
20		**(C14 - E14)**		**B19 + (C14 x 4)**	
21		**$129,369.60**		**$739,008.00**	
22					
23	**How to customize this Inflow Analysis Chart**				
24	1. Input the total number of manholes in your system into the yellow section in column C. Press ENTER to calculate.				
25	2. If your Treatment cost per thousand gallons differs from ours, input your cost into the yellow section in column D. Presss ENTER to calculate.				