

B12.0 PIPE or WELL CASING VOLUME and DISINFECTION Worksheet

PROJECT:		New Transmission Line		Disinfect to:			5.00 ppm		Disinfectant:			10.00% % Cl2 by weight	
Pipe #	Nominal Dia. (in.)	Length in Feet	Volume in Gallons	Volume in Cu-ft	Volume in Liters	Volume in Acre-feet	Water Weight (lbs.)	Water Weight (kg)	Disinfectant lbs. Required	Disinfectant gals. Required			
1	0.25		0.00	0.00	0.00	0	0	0	0.00	0.00			
2	0.5				0.00	0	0	0	0.00	0.00			
3	0.75				0.00	0	0	0	0.00	0.00			
4	1				0.00	0	0	0	0.00	0.00			
5	1.25				0.00	0	0	0	0.00	0.00			
6	1.5	560	51.38	6.87	194.47	0.000157685	0	0	0.00	0.00			
7	2		0.00	0.00	0.00	0	0	0	0.00	0.00			
8	2.5		0.00	0.00	0.00	0	0	0	0.00	0.00			
9	3				0.00	0	0	0	0.00	0.00			
10	4				0.00	0	0	0	0.00	0.00			
11	5				0.00	0	0	0	0.00	0.00			
12	6				0.00	0	0	0	0.00	0.00			
13	8	2,500	6,481		24,694.18	0.0200234	0	24,681	2.72	0.33			
14	10				0.00	0	0	0	0.00	0.00			
15	12	1,000	7,344		30,250.37	0.024528747	66,655	30,235	3.33	0.40			
			0.00	0.00	0.00	0	0	0	0.00	0.00			
			0.00	0.00	0.00	0	0	0	0.00	0.00			
			0.00	0.00	0.00	0	0	0	0.00	0.00			
21	24		0.00	0.00	0.00	0	0	0	0.00	0.00			
22	26		0.00	0.00	0.00	0	0	0	0.00	0.00			
23	28		0.00	0.00	0.00	0	0	0	0.00	0.00			
24	30		0.00	0.00	0.00	0	0	0	0.00	0.00			
25	32		0.00	0.00	0.00	0	0	0	0.00	0.00			
Custom Size			0.00	0.00	0.00	0	0	0	0.00	0.00			
TOTALS:		4,060	14,567.77	1,947.56	55,139.02	0.044709899	121,495	55,110	6.07	0.73			

HELP 1:
Enter the Project Title that you are entering data for here. (Follow the Help #'s to follow the normal sequence of entry or analysis.)

HELP 2:
Enter the Desired Chlorine Disinfection dose that you wish to use. Actual residuals may be less than this to account for Chlorine demand in the pipelines.

HELP 3:
Enter the percent of active Chlorine by weight in the disinfectant. Refer to the manufacturers specs if in doubt.

HELP 4:
Enter the length of each pipe size in feet in this yellow column. If there are multiple sections of the same pipe size, segments of similar sizes must be totaled, and then entered here.

HELP 6:
These dark grey columns represent the amount of disinfectant required for each pipe size or segment.

HELP 5:
Enter a segment of pipe with a custom diameter here if needed, i.e. 7.5 inch.

HELP 7:
This cell and the one to the right show the total amount of disinfectant required to achieve the desired dosage above.