

Wastewater Disposal System Design

Laberge Mound Site

12-Apr-17

420 GPD Bedrooms = 3
140 1 - BR Apartment
560 Total
0.58 Average Daily Flow (GPM)

10 Allowable application per linear foot (GPD/LF)
56 Linear feet of Trench Required (FT)
56 Equivalent Linear feet of Bed Proposed (FT)

Dosing Requirements

1.5 Diameter of Distribution Pipe (Inches)
3 Number of Distribution Pipes
162 Length of Distribution Pipe (FT)
14.9 Distribution System Volume (Gallons)
5.00 Required Dose Volume Factor
74 Required Minimum Dose Volume (Gallons)
4.00 Minimum Required Doses per Day
140 Maximum Dose Allowed (Gallons)
75.00 Chosen Dose Volume (Gallons)
5.00 Recommended Pumping Duration per Dose (Minutes)
15.00 Recommended Pumping Rate w/o Inflow (GPM)
15.58 Recommended Pumping Rate with Inflow (GPM)
29.00 Chosen Flow Rate (GPM)

Distribution Requirements

10 Trench width (FT)
560 Total Trench Area (SF)
25 Maximum Area per orifice Hole (SF)
22 Required Number of Orifice Holes
27 Number of Orifice Holes Proposed
0.56 Avg. Flow per Orifice (GPM)

204.75 Effluent Elevation Head

BEd 1

24 Total # of orifices
560 Total Design Flow (GPD)
56 Total Length of Trench (FT)

29.0 Chosen Design Flow (GPM)
28.95 Total Actual Design Flow (GPM)
-0.17% Percent Delta from Design