

2011 purple code

Mound Design - Aitkin county

www.SepticResource.com (vers 15.2)

Property Owner: Robert Wander

Date: 10/20/2022

Site Address: 39545 State Hwy 18 Aitkin MN 56431

PID: 36-0-046200

Comments: Type III Because of Fill , Disturbed soils.

Instructions: = enter data = adjust if desired = computer calculated - DO NOT CHANGE!

1) bedroom Type Residential System

2) GPD design flow

3) Garbage disposal or pumped to septic Install 1650 Jacobson 2/Compartment tank

4) Gal Septic tank (code minimum) Gal Septic tank (design size / LUG req'd)

Tank options: Effluent filter & alarm req'd

5) GPD/ft² mound sand loading rate contour loading rate of req's a min ft. long rockbed

6) ft. rockbed width ft. rockbed length

7) ft lateral spacing ft perforation spacing (maximum of 3 for both)

1) bedroom manifold connection

8) laterals feet long perfs / lateral perfs total

(1/2 a perf means the first perf starts at the middle feed manifold)

9) inch perfs at feet residual head gives gpm flow rate per perforation

for this perf size & spacing, & pipe size on line 12, max perfs/lateral = , line #8 must be less --> OK

10) doses per day (4 minimum)

11) gallons per dose (treatment volume)

12) inch diameter laterals must be used to meet "4x pipe volume" requirement 1.50 5x

13) feet of inch supply line leads to gallons of drainback volume 2.00 3x

(Tip: "top feed" manifold to control the drainback)

14) gallons TOTAL pump out volume (treatment + drainback)

15) feet vertical lift from pump to mound laterals, leads to a:

16) GPM @ feet of head, Pump requirement (note: >50gpm may require an extra 3-6' of head)

17) gal Dose tank (code minimum) gal Dose tank (design size / LUG req'd) at gpi

leads to a

18) inch swing on Demand float, or timed dosing of min ON (confirm pump rate with drawdown test and adjust as necessary)

(this delivers Average flow, =70% of Peak design flow) hrs OFF

19) inches from bottom of tank to "Pump OFF" float

20) inches from bottom of tank to "Pump ON" float, or inches to "Timer ON" float if time dosed

21) inches from bottom of tank to "Hi Level" float, or inches to "Hi Level" float if time dosed

22) gallons reserve capacity (after High Level Alarm is activated)