Mounding analysis for 24819 by JTL on 9-27-22

Criteria:

Length of field:

180 feet

Width of Field:

52 feet

Rate of application:

9,900 GPD over 9,906 s.f. area

9,900 gal = 1590 c.f.

1590 c.f. / 9,906 s.f. = 0.16 ft/day

Aquifer hydraulic conductivity:

148 ft/day is used, which is the average hydraulic conductivity of coarse sand per DEP guidelines, and is corroborated by in-situ perc. Testing at <2 min/inch.

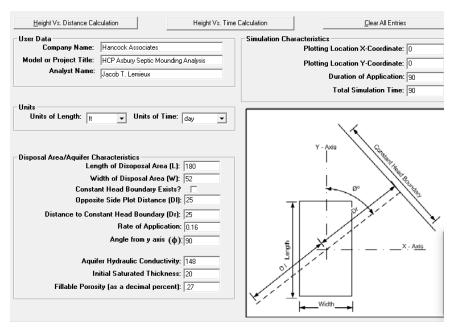
Fillable Porosity:

0.27 was used for coarse sand per DEP guidance

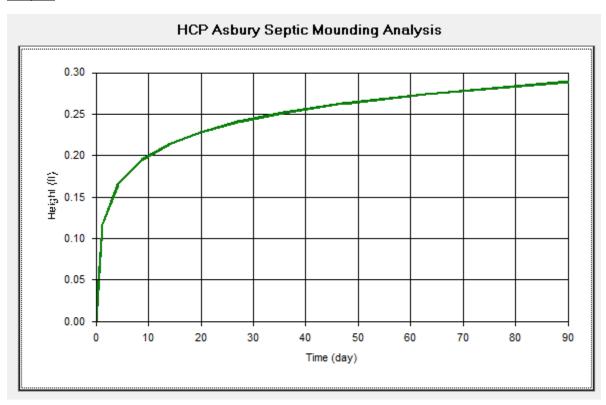
Initial Saturated Thickness:

soil testing on site has discovered no refusal on site, an assumed saturated thickness of <u>20</u>' has been used.

<u>Input</u>



Output:



<u>Conclusion:</u> Peak mounding beneath the system after 90-days of function (per DEP guidelines) is slightly less than 0.3′. 0.3′ has been used conservatively.