Brontrager Residence, 32100 Routt County Road #5, Routt County, Colorado, OWTS Calculations

Facility to be Served:

Residence with 2 bedrooms: 4 persons @ 75 Gal./day each = <u>300 Gal./day design</u> flow

Minimum tank size = 750 Gallons, plus a 300 gallon dosing tank with an automatic siphon.

Absorption Field Sizing: Using 'Infiltrator' Quick 4 Plus Chambers.

<u>Long Term Acceptance Rate (LTAR) = 0.30 Gal./ sq. ft. / day</u> (per C. Peters of Routt County)

(300 Gal./day) * (.7 Chamber factor) * (.9 dosing factor) / (0.30 Gal./day/ sq. ft) = 630 sq. ft. (required absorption area)

System design using Infiltrator Quick 4 chambers:

630 sq. ft. / 11.33 sq. ft./chamber = $\underline{56}$ chambers required (2 rows of 19, & 1 rows of 18)

