

# WASHED SIEVE ANALYSIS



CLIENT: McClure  
DATE: 4/14/2011  
SAMPLE: Septic Sand Split 1 of 2

ANGUS McDONALD  
GARY SHARPE  
& ASSOCIATES, INC.

SINCE 1966

MOIST WEIGHT = 0.738 Kg  
TOTAL DRY WEIGHT = 0.702 Kg  
DRY WEIGHT AFTER WASH = 0.700 Kg

Water Content 5.13%  
Unified Soil Classification System  
Grain Size Comparison

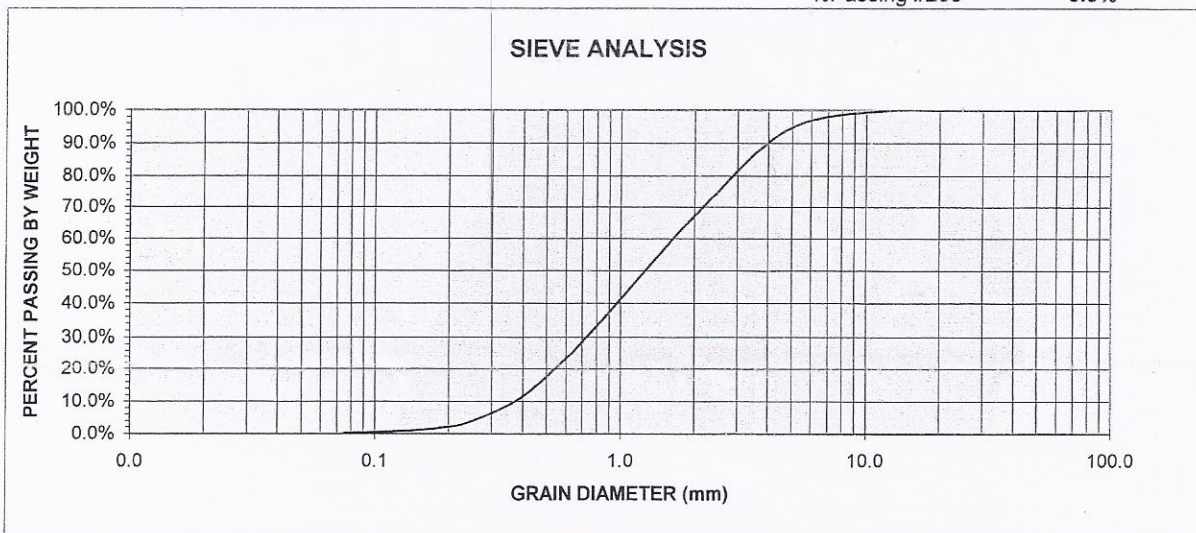
Cobbles 0.0%  
Coarse Gravel 0.0%  
Fine Gravel 6.0%  
Coarse Sand 26.8%  
Medium Sand 54.1%  
Fine Sand 12.8%  
Silt & Clay 0.3%

Uniformity Coeff. 4.76  
Permeability Range \*\*  
Dense 151 ft/day  
Loose 454 ft/day

Sieve Size (mm)	Weight Retained	% Retained	% Passing
3"	75.0	0.000	0.0%
1 1/2"	37.5	0.000	0.0%
1"	25.0	0.000	0.0%
3/4"	19.0	0.000	0.0%
1/2"	12.5	0.000	0.0%
#4	4.75	0.042	6.0%
#10	2.00	0.188	26.8%
#20	0.850	0.224	31.9%
#40	0.425	0.156	22.2%
#60	0.250	0.064	9.1%
#80	0.180	0.016	2.3%
#100	0.150	0.004	0.6%
#140	0.106	0.004	0.6%
#200	0.075	0.002	0.3%
Passing #200	0.002	0.3%	

2000 CT. Health Code Septic Fill Specs  
%Retained on #4 6.0%  
% Passing #4-#200 (Fill less Gravel) Permitted  
%Passing #4 100.0% 100%  
%Passing #10 71.5% 70%-100%  
%Passing #40 13.9% \*10%-50%  
%Passing #100 1.2% 0%-20%  
%Passing #200 0.3% 0%-5%

Weight of Material Passing #200 Sieve = Total Dry Weight - Dry Weight After Wash



\* Percent Passing the #40 sieve can be increased to no greater than 75% if the percent passing the #100 sieve does not exceed 10% and the #200 does not exceed 5%.

\*\* Based on empirical relationship by Hazen (1911) relating permeability to the D<sub>10</sub> grain size.  
Accuracy diminishes with >5% passing the #200 Sieve or permeability values <.3 ft/day.  
Relationship invalid when D<sub>10</sub> < .1mm or D<sub>10</sub> > 3mm