# Sediment Jar

With permission:

- Grab 1 soil sample from outside
- Fill a clear jar/bottle that has a lid <sup>3</sup>/<sub>4</sub> of the way with water
- Add your soil sample to your jar
- Put the lid on and shake the jar
- Leave the jar sit for 1+ hour





# Sediment Jar

### **Observation questions:**

- Have any layers formed?
- Is there anything floating up top?
- How many layers do you have and which is the thickest?

### **Remember:**

The heaviest/largest soil particles will settle first (sand) and the lightest/smallest soil particles will settle last (clay). Silt will be inbetween. Organic mater will float on top.

Note, samples with a lot of clay will take longest to settle, if your water is still murky it's probably because you have a lot of clay!



# Example Sediment Jar



# Sediment Jar Calculations

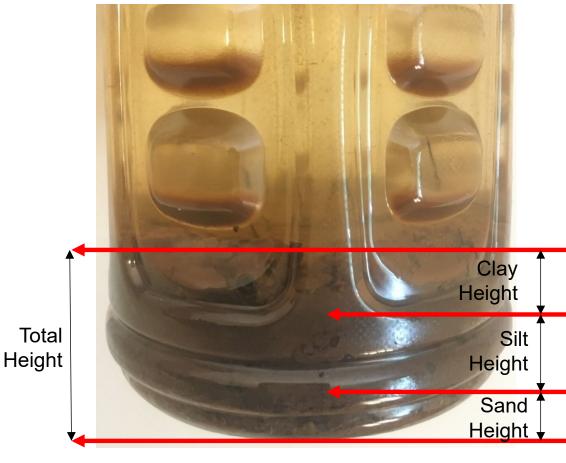
#### Steps:

- 1. Measure the total height of your settled sediment.
- 2. Measure the height of the individual layers.
- 3. Calculate the percentage of each layer.

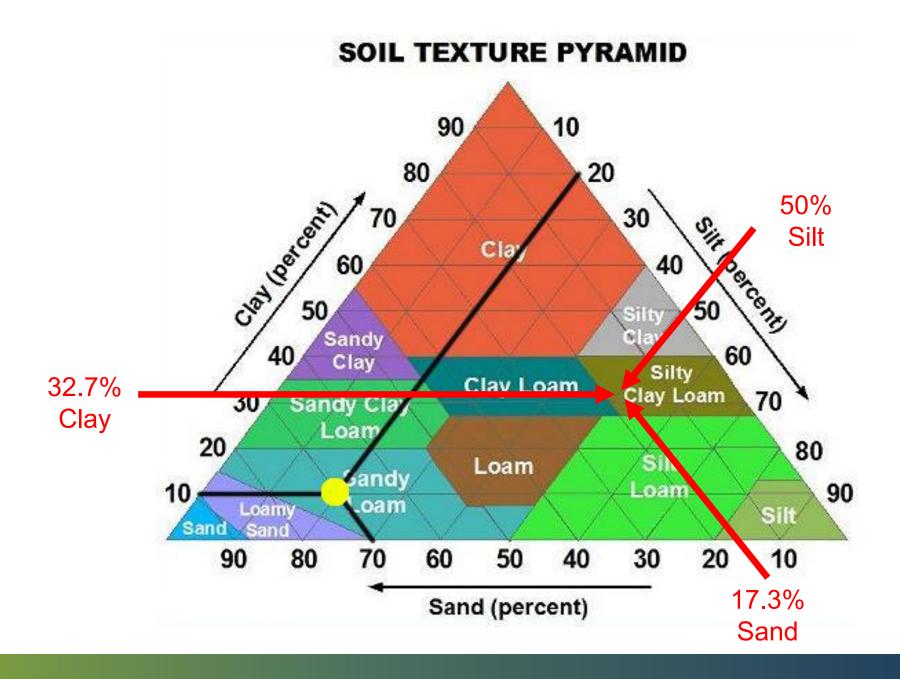
#### Example:

Total Height = 3 1/4 in Clay Layer Height = 1 1/16 in Silt Layer Height = 1 5/8 in Sand Layer Height = 9/16 in

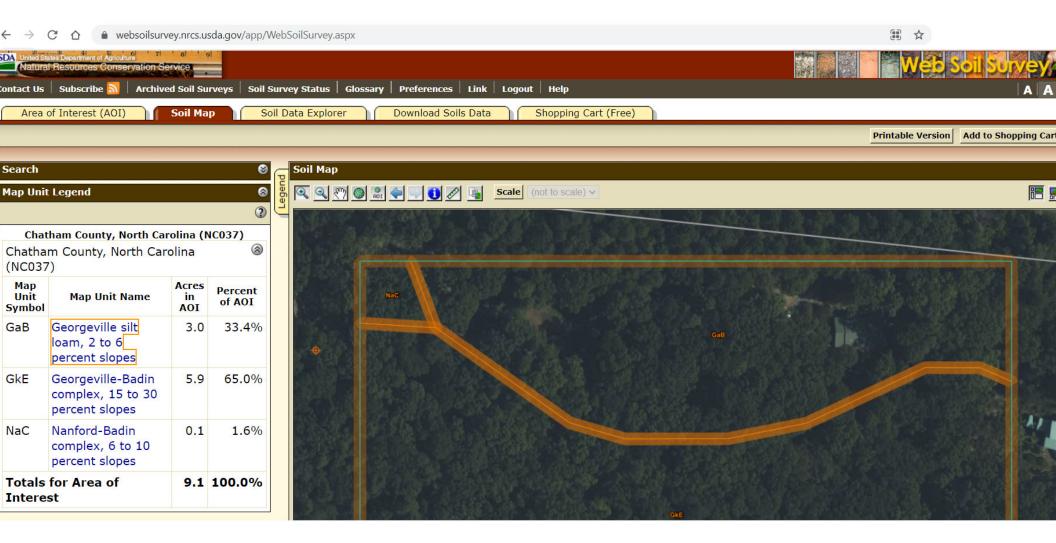
Clay% = 1.0625 / 3.25 \* 100 = **32.7%** Silt% = 1.625 / 3.25 \* 100 = **50%** Sand% = 0.5625 / 3.25 \* 100 = **17.3%** *Check that the Percentages Total 100%* 



### Soil Texture Pyramids



# Extension: Web Soil Survey



### 16.5% Sand, 50.6% Silt, 32.9% Clay

https://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx

### Soil Texture Pyramids

