

### Procedures for pH measuring Organic and Mineral Soils

- 1) Measure out into 2 (A&B) sets of 50mL centrifuge tubes:

*Forest Floor Soil (FF): 10.000-10.010g*

*Canopy Soil (C): 2.000-2.010g*

- 2) Pipet into tubes of soil:

**Set A:** *FF:* 15mL DI H<sub>2</sub>O/ 10g soil

*C:* 18mL DI H<sub>2</sub>O/ 2g soil

**Set B:** *FF:* 15mL KCl/ 10g soil

*C:* 18mL KCl/ 2g soil

- 3) Shake tubes well to blend liquid and soils. Let sit for at least 10 minutes.
- 4) Using the pH meter (instructions posted by meter) measure and record data on sheet.
- 5) DO NOT THORW SOIL IN TRASH OR SINK! Pour soils into large glass beaker and rinse tubes with DI H<sub>2</sub>O into beaker.
- 6) Place full beakers into oven and heat soil at 120c for at least 16 hours, then can dispose of soil in regular trash bin.
- 7) Citrnox tubes very well and acid wash tubes.

Note: I have found no significant difference between KCl and H<sub>2</sub>O in pH. I usually choose to do only one.