

As we go deeper into the soil, the texture may change to a loam, sandy loam, sandy clay loam, or sandy clay. Clay percentage usually peaks in the Bt horizon(s).

If a site is suspected of having soil mixing, then one would expect the surface horizon of the disturbed site to have a higher clay content (or lower sand content) than undisturbed sites in the same landscape and within the same soil series. This can be determined by measuring the sand, silt and clay in a series of samples collected from across the suspected site. This would indicate that subsoil (Bt horizon) has been mixed with the original topsoil. This fact, however, would not predict the effect, if any, this mixing would have on land use or soil fertility. If surface mixing has occurred, there is no need for deep profile sampling assuming that similar mixing has occurred to the depth the soil was disturbed.

Assessing the extent of mixing can be an even greater challenge. One can measure the deviation of (for example) sand or clay content from the sand or clay content of a disturbed site to that of a nearby undisturbed, adjacent site.

Proposal: Measure particle size (sand, organic matters, silt, and clay) with depth to 16 inches in samples along the 200-foot transects identified in “Soil Compaction” discussion above and attached mapping in Exhibits A - F. Core samples will be taken along each transect at 0, 25, 50, 75, 100, 125, 175 and 200 feet. The 100-foot sample will be obtained near the center of the pipeline easement. In addition to documenting the core samples with photo logs, graphs will be developed following a laboratory analysis of particle size, reflecting percent sand, organic matter, clay, and silt and clay across each transect and in each of the two samples per core (i.e. 0 – 8” and 8 – 16”.

3.0 Testing Locations and Schedule

The approximate locations of the transects to be sampled are depicted on the mapping attached as Exhibits A – F. The locations may be adjusted in the judgment of Sabal Trail’s consulting agronomists based on conditions that exist on the properties at the time of sampling. Sampling must be completed no later than April 15, 2018 because of anticipated cultivation activities and associated crop growth on the properties. To accommodate this sampling schedule Sabal Trail requests FERC’s review and approval of this plan no later than March 16, 2018. Collected soil