

## **ADAPT Organic Layer Sampling protocol for C14 and C13 determination**

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Radiocarbon dating and analyses are conducted at the CEN's laboratory on specific samples. Sampling for C-14 and C-13 determinations is done as follows:

- Mineral soils (epigenetic permafrost)
  - o One sample at the base of the organic layer
  - o Deepest carbon in soil profile or core if any
  
- Organic soils and syngenetic permafrost
  - o One sample below living vegetation mat (remove any living or potentially living rootlet or other plant part)
  - o Deepest available organic matter at the bottom of pit or in core

Note: Conventional C-14 dating is done at the CEN radiocarbon laboratory. Samples for C-14 AMS dating are only prepared by the CEN laboratory and once prepared, these samples are sent to an external laboratory for dating.

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