Rheology, Extrusion and Pelletisation of Faecal Sludge

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Rheological properties of fecal sludge

Pit emptying auger

Screw extruder
Diagram of a VIP latrine showing the layers from which the samples were selected in the front and back sections.
Rheometer

Moisture and ash content

Penetrometer
Finding 1

Viscosity of fecal sludge depends on pit section, which is related to the different moisture and ash content.
More liquid behavior dominant than plastic

To increase plasticity of fecal sludge → addition of sawdust or dried fecal sludge
Thanks for your attention!

We invite you to visit our poster for further details.

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