Characterisation of Pit Sludge Management, Sludge Biochemical Degradation, and Respective Impacts on Public Health in Unplanned Settlements of Malawi

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Sampling

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Sampling at different depths through the drop hole in a confined space
Existing emptying practices

- Use of chlorine
- Fluidisation
- Fishing out of non-faecal matter before emptying

- Unlined latrines avoided as they are susceptible to collapse after emptying

Water jet employed for cleaning also utilised for agitating hard sludge

Desludging after excessive hydration due to presence of hard sludge
Trial sampler

Accessibility
The sampling that worked

Motorised vacuum pump hired from Waste and Environmental Solutions (WES) a private company specialising in pit emptying.

10 pits in Ntopwa (Unlined)
10 pits in Milare (Lined)
Thank you for your attention!!