Occurrence of Helminth Eggs in On-site Sanitation Systems in eThekwini Municipality, South Africa

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On-site sanitation systems have one thing in common...
They all need to be desludged...

...leading to exposure.
Methodology

• Faecal sludge sampled at various depths in several on-site sanitation systems:
  ➢ Dry VIPs
  ➢ Wet VIPs
  ➢ UDDTs
  ➢ CAB
  ➢ PF
  ➢ And pellets from a LaDePa plant for processing VIP sludge.

• Samples were processed by sieving, zinc sulphate flotation, washing and examination by light microscopy for presence and viability of helminth eggs.
Median counts of **potentially viable** helminth eggs recovered from faecal sludge from several types of on-site sanitation systems (Error bars show 5th/95th percentiles)

WHO (2006), use of faeces in agriculture: <1 helminth egg/g total solids