Facilities Offered by the Pollution Research Group to Support Faecal Sludge Research

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Overview

1. Sanitation Systems
2. Laboratory
3. Mechanical
4. Field Testing
5. Systems and Prototypes
6. Training and Sharing
7. Costs
8. Contact Details
Sanitation Systems

- Partnership with eThekwini Water and Sanitation
  - VIP latrines
  - Urine Diversion toilets
  - Community Ablution Blocks
  - Pour-flush toilets
  - Black Soldier Flies
  - Conventional Systems

- Orientation for city leaders and officials
- Social and technical orientation
- Sampling and data gathering
Laboratory

- health and safety for analysing faeces and urine
- comprehensive equipment for faecal sludge characterisation
- preparation for external specialised assays
- multiple samples and replicates
- trained technicians and researchers
  - physical, chemical, microbiological, agricultural
- Standard Operating Procedures (SOPs)
- lab-scale piloting
Systems and Prototypes

- Pour-flush latrines
- pedestal / coating evaluation
- anaerobic baffled reactor
- agricultural reuse of excreta streams
- thermal processing
- anaerobic digestion
Mechanical Workshop

• equipment construction
• modification
Field testing (Newlands Mashu)

• laboratory
• pilot plants
• demonstration
• agricultural tests
Training and Sharing

• training (home or away)
• development of SOPs
• host researchers (short / long term)
• data
Cost

- 2015 – 2017 BMGF funding covers laboratory and staff
- consumables cost only
- own or PRG staff
More Information

PRG delegates at FSM3

other presentations and posters

http://prg.ukzn.ac.za