

SANITATION FIELD WORK OPPORTUNITIES

ETHEKWINI MUNICIPALITY, KWAZULU-NATAL, SOUTH AFRICA

LANDSCAPE



Dense urban - informal settlements and permanent housing

Peri-urban - often steep hillsides

Developed urban

Schools

Rural

← INCREASINGLY URBAN INCREASINGLY RURAL →

PREDOMINANT SANITATION SYSTEM



Community ablution blocks

Informal pit latrines

Ventilated improved pit (VIP) latrines

Flushing urine diversion toilets (No-Mix)* School toilet blocks

Urine diversion toilets with double pits

FIELD WORK OPPORTUNITIES

TECHNOLOGY TESTING

- Toilet top-structures
- Pedestal and flush systems
- Toilet unit processes
- Pit-emptying devices
- Sludge processing, disposal and re-use



SAMPLE COLLECTION AND CHARACTERISATION

- Faeces
- Urine
- Mixed samples
- Faecal sludge
- Odour
- Soil sampling—pollution plumes
- Menstrual management products



CONTEXT DEFINITION

- Mapping
- Social impact assessments
- Water demand monitoring
- Social networking
- Business opportunities
- Epidemiology



INTEGRATION

- DEWATS (decentralised wastewater treatment)
- Agricultural trials
- Logistics models & collection systems
- Economics models
- Environmental remediation
- Sanitation system analysis
- Modelling of conventional wastewater treatment plants
- Educational materials

