ETHEKWINI MUNICIPALITY, KWAZULU-NATAL, SOUTH AFRICA





informal settlements and permanent housing

Peri-urban - often steep hillsides

Developed urban

Schools



Community ablution blocks

Informal pit latrines

Ventilated improved pit (VIP) latrines Flushing urine diversion toilets (No-Mix)* School toilet blocks

Mapping

CONTEXT DEFINITION

Social impact assessments

Water demand monitoring

Business opportunities

Social networking

Epidemiology

Urine diversion toilets with double pits

FIELD WORK **OPPORTUNITIES**

TECHNOLOGY TESTING

Toilet top-structures

Pedestal and flush systems

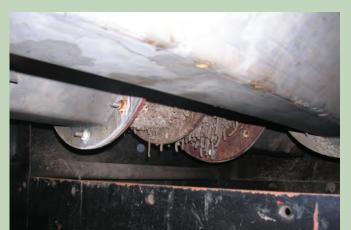
Toilet unit processes

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



















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



