







SANITATION = Dignity
RECYCLE SANITATION = Dignity + Water Saving
GOOD SANITATION = Good Health = Clean Environment

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St. Ita

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Introduction

KEY CRITERIA

- Dignity to every man, woman and child
- No sewage pollution
- Be a totally flush toilet
- Acceptable by the people
- Totally safe, hygienic and healthy
- Complete environmentally friendly
- Totally odourless
- Limited external water usage
- No dependency on expensive time consuming civil reticulation
- No electricity needed
- Affordability





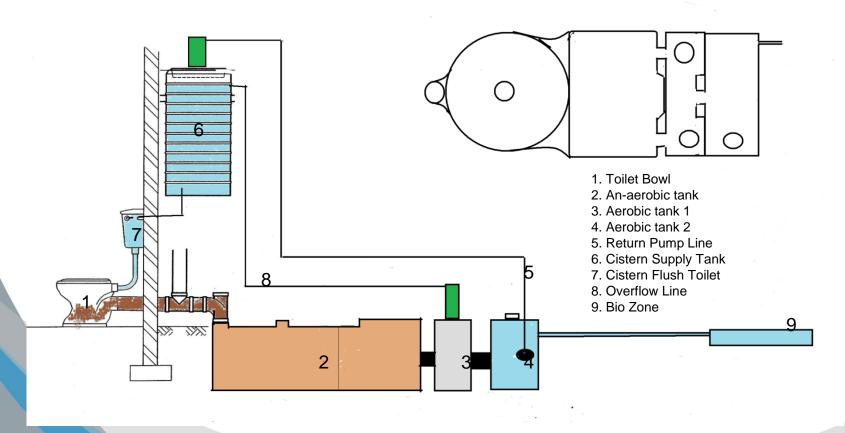
The New World Sanitation Concept

- The principle is that naturally-occurring micro-organisms as opposed to chemical possesses, are selected as a biological additive to the digester tank of the self-sustainable flushable, portable and/or fixed biological water-borne toilet.
- The biological process occurring in the digester tank converts raw sewage into re-usable filtered water, ready for re-use to the toilet cistern.





The NWS Flow Pattern Design







- Rural areas, because of the difficulty in installing water-borne sewerage due to topographic factors, or to distances between villages
- Rural schools, which lack infra-structure
- Farming communities, for the same reason
- Camp sites, including holiday sites
- Densely populated informal settlements
- Special events
- Disaster management



NWS Products

Portable Low Linear Density Polyethylene Recycle Toilet unit

The full unit is for areas were the housing are still informal and non permanent to allow that the unit can be removed and reuse elsewhere once the people receives their permanent housing.





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NWS Products

Low Linear Density Polyethylene Recycle Digester unit

• The recycle unit is for areas where people can build or already have available their own top structures with a flush toilet.

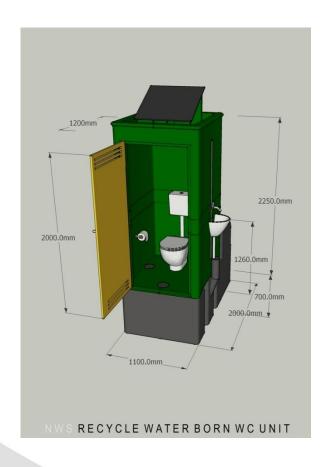


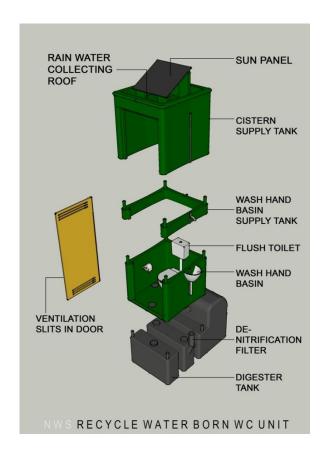




NWS Future Products













Apart from a one-off installation, local sustainable small business units will/can be established for the monthly and quarterly maintenance tasks stated hereunder.

Monthly Maintenance:

The re-seeding of the digester unit
 (NO EXTERNAL WATER IS ADDED AT THIS SERVICE)

Quarterly Maintenance:

- Pump/suck out An-aerobic tank and fat trap(if applicable)
- Add 500 litres of raw water to An-aerobic tank
- Re-seed with NWS Bacteria Blend through toilet bowl



Job Creation and Water saving



Micro Contractors:

- The monthly maintenance provide for the micro contractor (usually women) an excellent opportunity due to the ease of the task at hand.
- For a micro contractor to have a turnover of R 1 575.00 per month, they need to service 75 units.
- The service means only collecting the packets of bacteria blend from the local Municipality and go and flush it into the toilet once a month.

Water usage comparison

Normal water borne toilet:

Cistern flush capacity :9 liters per flush

Average family of 6 people using the toilet 4 times per day
 :216 liters per day

Average flush water per 3 months :19 440 liters per 90 days

New World Sanitations CC recycle unit:

Quarterly maintenance water replacement :1000 liters per 90 days



Summery



- Educated people = Growth
- Basic education start at home
 - Life skills
 - Hygiene
 - Self-respect
 - Water awareness
 - Environmental awareness





Thank you for the opportunity to present our products!

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