



COMPANY PROFILE

FUTURE ENVIRONMENTAL AS OEM

MANUFACTURE, DESIGN AND INSTALL ENVIRONMENTAL SYSTEMS INTO VARIOUS MARKET SEGMENTS.

FUTURE (FENVIRO) ENVIRONMENTAL SYSTEMS

- FENVIRO Wastewater Treatment Plants (**Sewage Plants**) – New/Upgrades/Maintenance
- FENVIRO **Grey Water Recycling** Systems – New/Upgrades/Maintenance
- FENVIRO **Washbays** – New/Upgrades/Maintenance/Spes HP Washers
- FENVIRO **Diesel bays** – New/Upgrades/Maintenance
- FENVIRO **Turnkey Construction Projects** – Civil & Steel
- FENVIRO **Oil and Water Separation Systems** – New/Upgrades/Maintenance
- FENVIRO **Water Purification** Systems
- FENVIRO **Water Recycling / Re-use** Systems
- FENVIRO **Water Reservoirs**
- FENVIRO UG **Drinking Water** Transfer / Pressure Systems
- FENVIRO UG **Showers**
- FENVIRO UG **Drill Water Pressure System**
- FENVIRO UG **Water Cooling** Systems
- FENVIRO **Dust Suppression**
- FENVIRO **Disinfection Systems** – Turnstiles/Chairlifts/Cages/ etc.
- FENVIRO **Boot Wash Bay & Recycling System**
- FENVIRO **Spes Washer & Service Plan**

The Water Act demands that ***where an effluent cannot be treated at the local municipal works, it MUST be treated at the source itself***, to such a level that it can safely be discharge directly back into the environment.

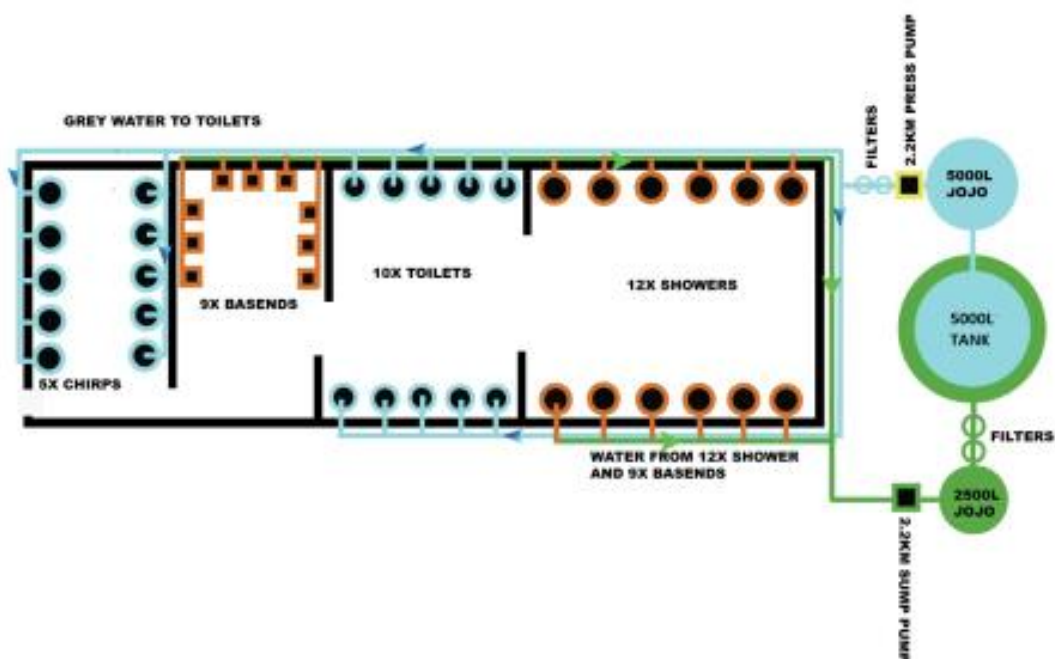
The **RAS System** consists of **five phases** taking place in five chambers. Each phase is in relation to the other phases.

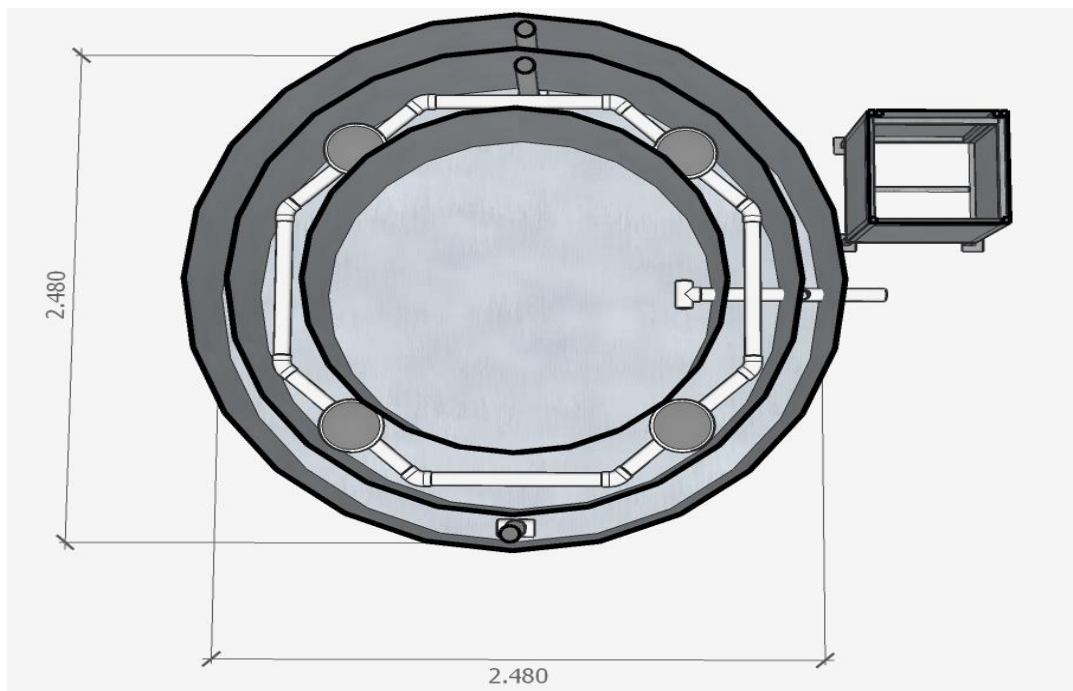
ADVANTAGES:

- Approved by a biochemical engineer
- Effluent is guaranteed to comply with DWAF Guidelines
- Easy to operate and do not require permanent staff on site.
- These plants are also safe for people, especially children, and animals as there are no open dams or pits.
- No foul odors.

NAME	TYPE	PERSON	APPLICATION
4KL UNIT	Fibre-Glass	0-15	Single Houses, Lodges and Small Installations
15KL UNIT	Fibre-Glass	16 -50	Cluster of Houses, Lodges, Construction Site
22KL UNIT	Fibre-Glass	51 – 200	Medium Flows, RDP, Industrial Sites
Industrial	Civil	200 - 20'000	Council, developments, High Flows







Future design and constructs Wash Bays for an array of vehicles from **LDV's to HDV's**, the **design incorporated an effluent separation system complete with a close-circuit system** which allows for recovery and re-use of the wash-water. The water recovered and re-used and will be free of silt and hydrocarbons.

TYPES:

- Fixed Wash Bays
- Movable Wash Bays
- Underground Wash Bays
- Under spray System Wash Bays

DESIGN:

- Designed to Clients Requirements
- Incorporates Effluent Separation



GLENCORE K 1.5 WASHBAY WATER CAN BE RECYCLED & RE-USED





OIL/WATER SEPARATORS

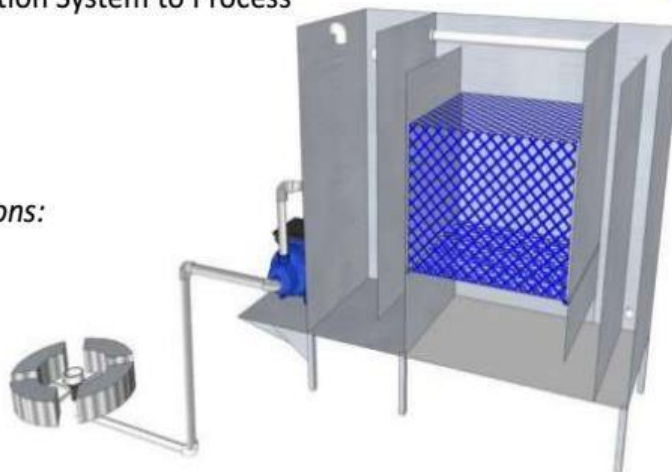
Oil Water Separators purpose is to **recover hydrocarbons** that have segregated from emulsion in an gravity waste water separation plant.

FACTORS CONSIDERED FOR EFFECTIVE SEPARATION:

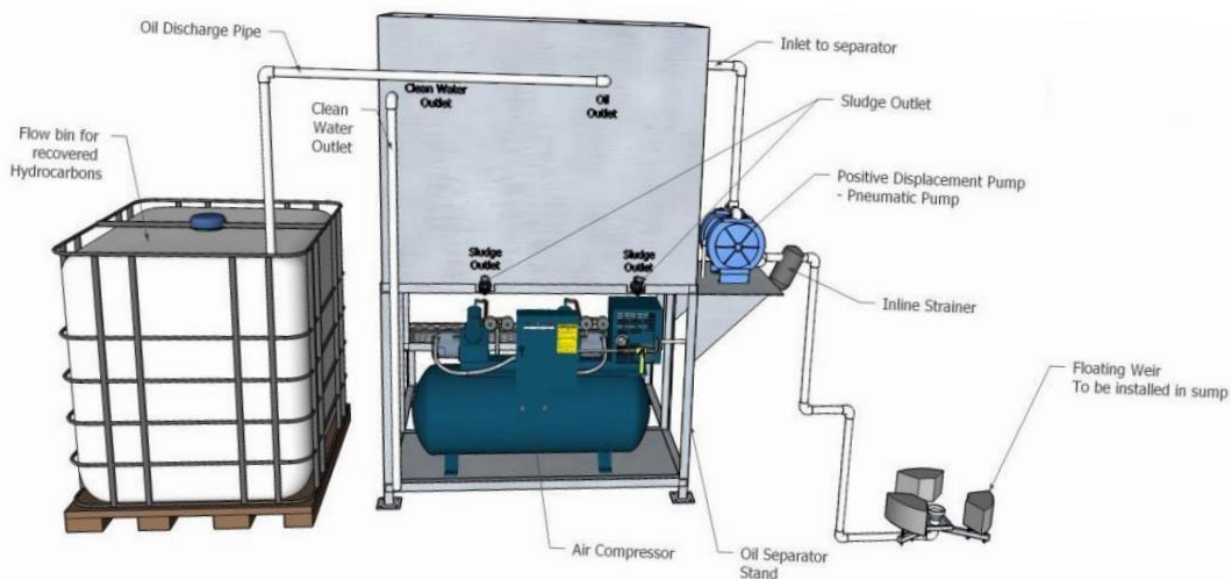
- Flow Rate
- Emulsifying Agents (Degreasers)
- Retention Time in primary settlement (Sump)
- Rate of Contamination
- Suitability of Oil Water Separation System to Process
- Maintenance Practice

APPLICATIONS:

- *Low to medium flow applications:*
300 to 5 000 L/Hour
- *High flow applications:*
10 000 to 90 000 L/Hour



WATER CAN BE RECYCLED & RE-USED





WATER PURIFICATION SYSTEMS

Future supplies **Water Treatment and Purification Systems** suitable for **a wide range of applications**. These systems treat and purify water for various applications from **Processed Water to Potable Water for human consumption**.

APPLICATIONS:

- Mine Drinking Water Disinfection
- Municipal Water Treatment Works
- Industrial Water Treatment
- Drinking Water Treatment

SYSTEM DESIGN:

- Micro Filtration
- Nano Filtration
- Reverse Osmosis
- Ultraviolet
- Ozone



DEGREASERS

FUTURE offers **Environmental** degreaser with a **retention time of less than six minutes**, resulting in no emulsification in the separation system. The **efficiency of separation system will increase** thus increasing the recovery rate of hydrocarbons. But all the time being a very efficient degreaser.

- All **Environmentally Friendly, Biodegradable** (No acids or Ammonia)
- **Ecological Safe** way to **remove and degrade oil contamination** from hard surfaces
- **Performance enhancing cleaning agents** to speed up penetration and removal of contaminants





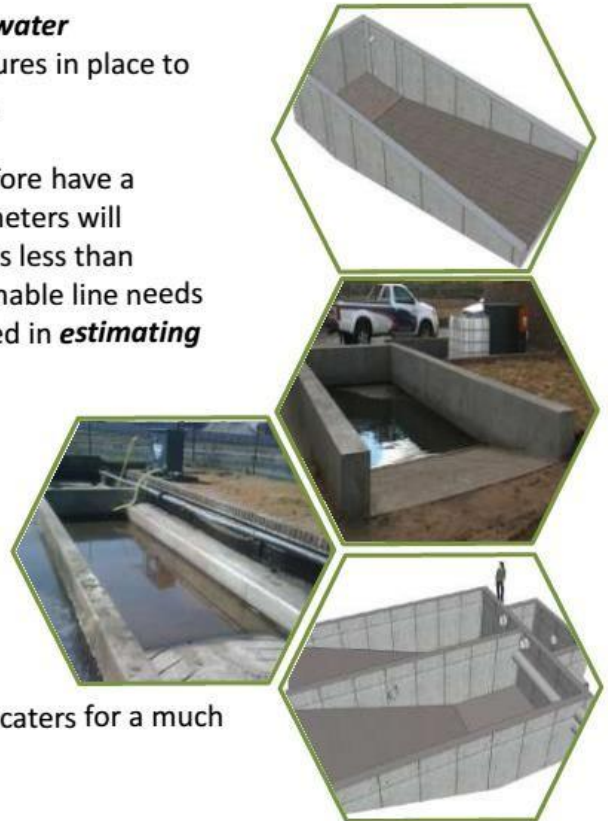
SEDIMENT CONTROL SYSTEMS

Sediment control is an **important part of an effective dirty water containment** system. It is necessary to have adequate measures in place to deal with the **collection of residue in the dirty water make**.

The smaller the particle size, the less it will weigh and therefore have a smaller downward force exerted. Particles with smaller diameters will therefore take longer to settle and it was noted that particles less than 0.02mm became impractical to model theoretically. A reasonable line needs to be drawn as to the **minimum particle size** to be considered in **estimating the trap efficiency of silt traps**.

FACTORS CONSIDERED FOR EFFECTIVE SEPARATION:

- 1 in 50 Year flood conditions.
- Percentage silt in the run-off water
- Settlement time of the sediment particles
- The settlement time will effect the retention capacity in some instances a flush basin will be incorporated which caters for a much lower flow rate and retention.
- Maintenance methodology



GLENCORE IMPALA DIESELBAY



Bundwall Shutters
Reinforcing
Cast Plinth
Floor Shuttering
Cast Ready-mix Concrete



RCL FOODS RESERVOIR TURNKEY PROJECT

FUTURE ENVIRONMENTAL was invited by Rainbow Farms to find a solution to the inconsistent water supply into the Factory.

FUTURE ENVIRONMENTAL suggested the supply and installation of a 2 Million (Mega) Liter Water Reservoir, as holding capacity for required usage.

FUTURE ENVIRONMENTAL was contracted to supply a Turnkey Project which included the following:

1. Site Specific Drawing & Geotechnical Studies
2. Excavation and Backfill - 2m Turf Soil
3. Concrete Base and Dwarf Wall
4. ABECO Steel Panel Reservoir (2 Mega Litre)
5. 8" Class 10 Supply and Delivery Pipelines
6. Pump House, Booster Pumps, Electrical Variable Speed Controls, Electrical connection and Steel Manifolds
7. Rand Water Supply Sump with RSV Gate Valves





FUTURE EPOXY COATED RESERVOIRS

Steel tanks have a wide range of applications in various industries due to their durability, strength, and versatility. Some of the common applications for steel tanks are:

- Above Ground Storage Tank – 1.6mm Steel Plates
- Municipal Potable Water Storage
- Food Processing Industry
- Rainwater Collection
- Irrigation Water Storage
- Wastewater/Gray Water Storage

Tank specifications

- | | |
|-------------------|--|
| • Colour | - Grey (BASALT -Grey) (other colours available at additional rate) |
| • Roof | - Corrugated Roof Sheetting 0.5mm (Galvanized) |
| • Inlet | - 1 x 80mm Table D screw-in Flange |
| • Outlet | - 1 x 80mm Table D screw-in Flange with valve |
| • Access Ladder | - Included |
| • Internal Ladder | - Excluded |
| • Manholes | - 1 x (600mm x 600mm) |
| • Level Indicator | - Excluded |
| • Vacuum Breaker | - 1 x HDPE Whirley Bird |

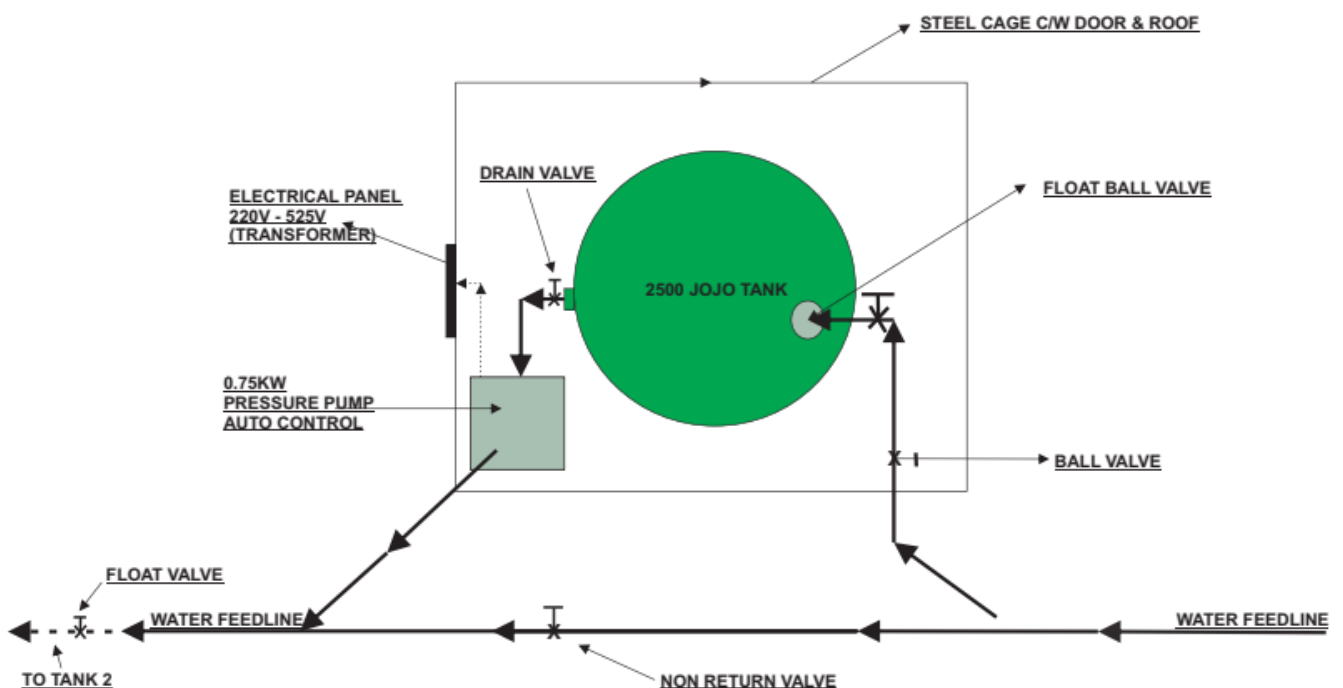




UG WATER TRANSFER SYSTEMS

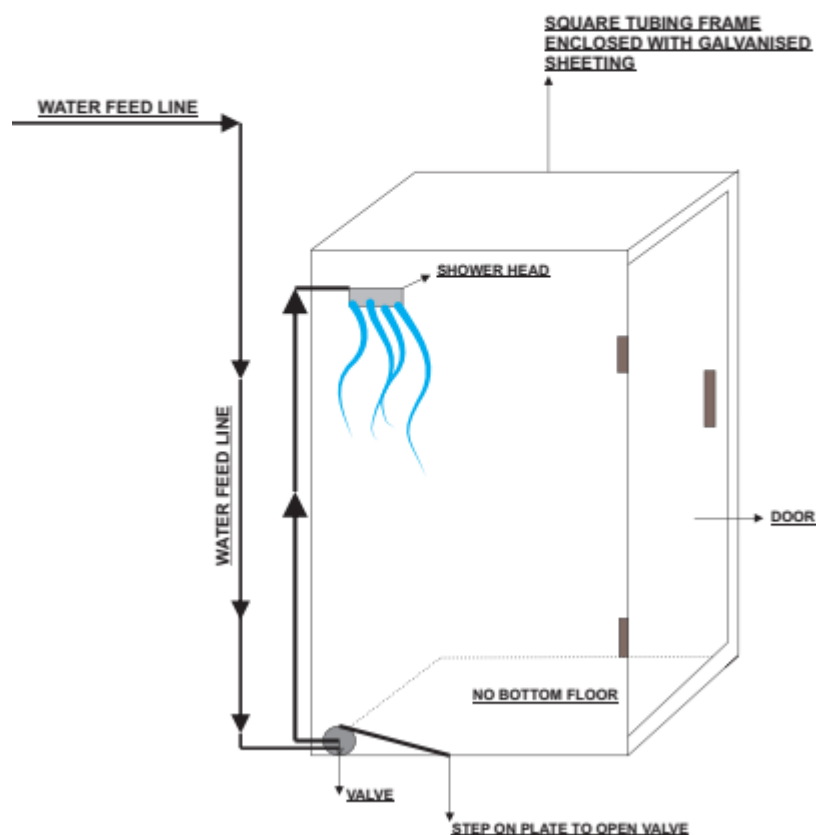


U/G DRINKING WATER TRANSFER SYSTEM





U/G SHOWER SYSTEMS



Safety showers are vital to mitigate the effects of exposure to polluting substances, especially skin and eye burns caused by corrosive liquids, abrasive dust or polluting gases, among other common risks in industrial and extractive operations.

One of the key factors for the competitive development of companies is safety, both for personnel and for the different operations daily carried out at their facilities. This implies optimizing and maximizing the prevention of occupational accidents and illnesses, especially when we are working in direct contact with risk inputs and hazardous substances.

SEPTIC TABS

Water Quality Enhancement is one of the Key Characteristics of this Product.

Bactallion septic and pit tabs are a unique proprietary tablets that allows aeration, oxygenation and biological treatment of stagnant, anaerobic and anoxic water. It is a tablet that had the ability to greatly enhance all aerobic biological action and have shown dramatic oxidation of Ammonia, Hydrogen Sulphate and greatly reduce solids. It has the ability to reduce COD levels like never before. Used in Pit toilets, septic tanks and French Drains. Effective in breaking down fats, bloods and sewage from industrial, commercial, food processing and domestic waste. Odour Control is done effectively over a Longer Period,

- Use 1 Tablet per 5000l of Septic Tanks monthly
- Use 1 Tablet per pit toilet
- Use 1 tablet per 10000l of waste water



OXY TABS

The Tablet is Great in Reducing Odours in a Very Short Period.

Bactallion Oxy Tabs are a unique Proprietary tablet that allows aeration and oxygenation of stagnant, anaerobic and anoxic Water. It is a tablet that has the ability to greatly enhance biological action. Oxygenation of water without electricity. Used as an oxygen aid in conjunction with all Bactallion products. Can be used in Fat Traps, Waste Water, Septic Tanks, Portable Toilets and all Environments that need dissolved oxygen. For Application Directions please talk to a Bactallion Representative.

- Available in 50g tablets
- Tubes of 20



BIO URINALS TABS

Bactallion Urinal tabs are a unique Proprietary tablet that Eliminates all Odours from Urinal and Bathrooms. Bactallion Urinals tabs do not mask smells but eradicates them with our unique biological blend. Bactallion Urinal tabs keeps pipes clean and bathrooms fresh. Contains no harsh chemicals and is completely environment positive meaning they are not just environment friendly but actually help the Environment.

- Use 1-3 tablets per urinal for up to one month
- Available in 15g tablets
- 3Kg Tubs of 200



URINAL MAT

Plastic Odourised Recyclable complete with Refill tablets



SEPTIC DUAL TABS

Contains a Pleasant Fragrance (Citrus)

Water Quality Enhancement

Bactallion Septic Dual Tablets are a unique Proprietary tablet that allows aeration, oxygenation and biological treatment of stagnant, anaerobic and anoxic water like found in Portable Toilet Conservancy Tanks. It is a tablet that has the ability to greatly enhance all aerobic biological action and have shown dramatic oxidation of Ammonia, Hydrogen Sulphate and greatly reduce solids and odours. Septic Dual Tabs contain a Fragrance and help mask Urine and faeces Odours

- Use one tablet per Portable Toilet per Cycle
- Available in 50g Tablets
- Tubes of 20



KFC FAT TRAP
BEFORE



KFC FAT TRAP
2 WEEKS AFTER



PACKAGING



SINGLE PACKAGING



CONTACT PERSON

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