

SEVER GOBBLER® PRESENTATION PART 1

Sewer Gobbler<sup>®</sup> is a Partner company with Gobbler Ltd.

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- Multiple reports in the press over recent days of unpermitted sewage discharges into rivers, watercourses and the sea have brought the issue of water treatment into the national debate.
- The time has now come for urgent action to improve the efficiency of our water treatment plants and minimise discharges - not least because any company breaching Environment Agency targets faces serious enforcement action, including fines of up to 10% of annual turnover and criminal prosecutions.
- Our product goes right to the heart of the problem dealing with the sludge that clogs our water treatment works. It offers an innovative, efficient and economical way for facilities to massively improve their day-to-day performance and to meet the progressively higher standards that environmental protection demands.

WE HAVE A REVOLUTIONARY ENZYME THAT TREATS SEWAGE ENABLING IT TO BECOME POTABLE WATER IN WEEKS RATHER THAN MANY MONTHS





## **COMPANY OVERVIEW**

We are a group of companies who specialise in protecting the environment and alleviating humanitarian issues that contribute to a variety of undesirable situations which create environmental and health issues.

Our technologies are innovatory, for example, we have a revolutionary enzyme that treats sewage enabling it to become potable water in weeks rather than many months.

The enzyme could be introduced into the local sewage works, and sewer networks, helping with the speed of processing, in turn increasing water supply availability.

Its introduction will have a major benefit for countries who struggle with health issues resulting from poor sewage disposal.



#### PROBLEMS

- Countries where untreated sewage is prevalent, leading to health, environmental and humanitarian issues.
- Lack of potable water and water for crop irrigation and general use.
- Foul odours generated from sewage plants, has a major impact on the quality of life for surrounding communities and businesses.
- Sewage plants are costly to build, run and maintain, high electrical and mechanical maintenance costs plus unscheduled down time.
- Consumer trend of increasing the disinfectant properties of commercial hygiene, cleaning disinfectants are transferred downstream and indiscriminately kill all bacteria good and bad which are needed for sewer plants to function correctly.

- Without good bacteria, sewer plants will cease to function.
- Weather conditions that add to the problems, storm water causing effluent overflow into lakes, rivers and the sea, polluting beaches and bathing areas.
- Sludge handling is the number one problem for wastewater treatment plants.
  What enters the plant must exit the plant.
- The more sludge removed the greater the expense in labour, offsite hauling and disposal, not to mention the huge carbon footprint resulting from offsite haulage. Costs vary from tens of thousands of US\$ in small plants to hundreds of thousands in larger facilities.

#### SOLUTIONS

- Sewer Gobbler<sup>®</sup> is a proprietary treatment of specially selected bacterial and Microbial strains which produce massive concentrations of digestive enzymes when introduced into wastewater and sewerage environments.
- Drastically reducing the volume of solids, with an immediate reduction in haulage costs and carbon footprint. It is the solution to reducing or eliminating costs previously outlined.
- Solids are reduced by bio-enzyme bacterial augmentation of the existing microorganisms through addition of biologically active bacterial seed cultures which produce massive amounts of enzymes on a regular preventative maintenance schedule.
- They help mother nature do a better job microbiologically rather than from continued use of chemical additives. Just like an aspirin that relieves some cold symptom but does not cure the cold, chemical additives temporarily relieve the symptoms of poor digestion, but do not cure the problem.

#### THE PRODUCT

- Biologically active seed cultures are microbial strains of naturally occurring micro-organisms that have been isolated and trained to produce large amounts of digestive enzymes when introduced into a waste system.
- The special eco-friendly bacterial enzyme producing strains are cultured to be thousands of times more active than those found in nature and are chosen for their natural resistance to harsh chemicals and detergents. This is the reason why proper enzyme producing microbial strains in a product are so important.
- Our bacteria are uniquely derived from soil cultures, and therefore metabolize faster reproduce at superior rates and live for longer.

- Every bacterium in Sewer Gobbler<sup>®</sup> is a miniature powerhouse enzyme factory which produces enzymes 24 hours a day. It is the main thrust of biologically active seed cultures.
- Regular dosing of sewage, wastewater plants and sewers ensures dominance over naturally occurring Less active bacteria for the ultimate results.
- We have a resource, a natural resource that for years we have disposed of, Sewer Gobbler<sup>®</sup> has seen the benefit to be had from treating this resource in a manner that will bring benefits to communities.

### THE MARKET

- Why should we be concerned about climate change? It's responsible for, potentially, irreparable damage to the planet which is the life support system for civilization.
- Human activity is causing the climate to change as well as having public health and environmental consequences all detrimental to global lifestyle.
- Sewer Gobbler<sup>®</sup> specialise in protecting the environment and alleviating humanitarian issues that contribute to a variety of undesirable situations which create environmental and health issues.

- To that end we promote Sewer Gobbler<sup>®</sup> so that we may achieve our aim.
- Establishments that generate an abundance of wastewater and sewage, can, by adopting Sewer Gobbler<sup>®</sup> transform not just their water requirement and its cost, but reduce the cost to a third party for disposing of wastewater and sewage and replace these costs by producing their water requirements from their own wastewater and sewage.

# **GROWTH, PROJECTIONS AND COMPETITION**

- Growth will come from marketing and the first user of Sewer Gobbler<sup>®</sup> will open the flood gates for demand.
- Return on investment will be astronomical, the enzyme provides social, economic and environmental benefits which will be attractive to many users.
- It represents commitment to sustainable economic growth, to conservation of ecological balance by avoiding depletion of natural resources and to application of innovative solutions.
- Projections; countries where health and other humanitarian issues are prevalent because of the lack of proper sanitation and sewage control.

- Properly designed wastewater and sewage disposal based around Sewer Gobbler<sup>®</sup> can free up land.
- Good urban design principles include greater green spaces and trees. In turn this can allow a wide range of high quality, distinctive homes, including affordable housing and commercial developments for all stages of life.
- Competition; to date there is no equivalent to Sewer Gobbler<sup>®</sup> available.

# CASE STUDY: FREE STATE PROVINCE, SOUTH AFRICA

The resort has 30+ rooms and executive rooms, restaurant and staff village. All the water passes through the system. To process their sewage waste and general water, there is a large conservancy tank, this is pumped into a small processing plant.

The processed water is then pumped into a oxidation pond allowing the water to evaporate. As with a previous job, the oxidation pond had died off and needed to be reactivated. A program was set up to treat and maintain the system.

## PROGRAM

The system was shock dosed with 20 litres of Sewer Gobbler® 1E8 waste degrader, then treated with 2 litres per day for 7 days. The system is then maintained once a month with 10 litres of Sewer Gobbler® waste degrader.

In addition to the above, housekeeping, at regular intervals, apply Sewer Gobbler® waste degrader and odour control to all the water outlets. This breaks down the soaps and body oils, reducing pipe blockages. The kitchen grease and fat traps are treated weekly with Fat Trap Gobbler (an enzyme and bacteria based grease, oil and fat degrader).

They have been on the program for the past 5 years without having to have the conservancy tank sucked out.

#### The following pictures show progress of treatment:



Oxidation pond six weeks after shock treatment, algae growth, indicating that the system was switching from anaerobic state (little or no oxygen) to an aerobic state (increased oxygen).



Oxidation pond six weeks months and one year after shock dosing. Through maintenance this quality of pond is maintained.

# **CASE STUDY: NORTH WEST REGION**



Closeup showing the level on contamination. The first picture is an area where the water flows close to a weir. The centre picture shows a portion of the pond bank. Fish gasping for air and oxygen from treated water. Soapy bubbles are from the treatment.



Thursday, one week later. The water has cleared and the birds returned to their ponds.



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