



# ERGOFITO

A BIOLOGICAL SOLUTION TO A BIOLOGICAL  
PROBLEM



# ERGOFITO HAS NOT COPIED NATURE, IT IS NATURE

- Ergofito is the natural group of bacteria that decompose all that is inert and organic.
- In fresh or salt water, in any type of soils and in air, the results are the same, clean up
- Over and above organic matter, Ergofito is also able to break down all Sulphides, Phosphates and Nitrates into proteins then to amino acids







DECOMPOSITION IS THE  
KEY



# ALL ORGANIC MATTER IS DEGRADABLE BY BACTERIA

- SEWAGE
- HYDROCARBONS
- MOST FACTORY EFFLUENTS
- ABATTOIR WASTE
- MOST MEDICAL WASTE
- SUGARS





# SIMPLE AND EASY APPLICATION

- IN A SEWAGE PLANT ERGOFITO IS APPLIED AT THE HEAD GATES.
- ALL PH ADJUSTING CAN CEASE
- ALL CHLORINATION CAN CEASE
- ERGOFITO IS A SINGLE PRODUCT APPLIED ONCE A DAY



- ALL SMELLS WILL DISAPPEAR RAPIDLY
- COLOUR OF THE MIX IN THE AERATOR WILL ALTER DUE TO DECOMPOSITION
- A RAPID ABATEMENT WILL OCCUR OF :
  - COD
  - TSS
  - NITRATES
  - PHOSPHATES
  - PATHOGENS



# TYPICAL RESULTS IN A WWTP

info@alabbott.co.za

SOUTH AFRICA

*Certificate of Analysis*  
**OVERSTRAND MUNICIPALITY : SC 1774/2017**  
**Hawston Sewage Treatment Plant**

Grab samples of raw sewage and various process effluents collected on 25 August 2017

Report no.: 3907

SAMPLE	Raw Sewage	Aeration Tank	Settling Tank	Final Effluent	ATML	RAS	DSVI	Cake		General Limit
pH (at 25 °C)	-	-	-	-	-	-	-	-	-	5.5-9.5
pH (at 25 °C) Field	7.46	7.40	7.31	8.67	-	-	-	-	-	5.5-9.5
Settleable Solids (ml/l)	15.0	1000	<0.10	<0.10	-	-	-	-	-	N/A
Conductivity (mS/m) (at 25 °C)	195	-	-	133	-	-	-	-	-	150(F + 70)
Faecal Coliforms (count per 100 ml)	-	-	-	<1	-	-	-	-	-	1000 Max.
Chemical Oxygen Demand (mg/l)	1016	-	59.9	158	-	-	-	-	-	75.0 Max.
Chemical Oxygen Demand ( Filtered) (mg/l)	-	58.6	-	59.8	-	-	-	-	-	(Algae removed)
Total Kjeldahl Nitrogen ( mg/l as N)	106	-	-	-	-	-	-	-	-	N/A
Ammonia Nitrogen (mg/l as N)	94.9	4.1	1.7	3.7	-	-	-	-	-	6.0 Max.
Nitrate Nitrogen. (mg/l as N)	-	0.87	-	0.32	-	-	-	-	-	15.0 Max.
Nitrite Nitrogen (mg/l as N)	-	0.29	-	<0.20	-	-	-	-	-	15.0 Max.
Total Suspended Solids (mg/l)	-	-	-	70	7400	12700	3688	-	-	25 Max.
Volatile Suspended Solids (mg/l)	-	-	-	-	7040	-	-	-	-	N/A

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SAMPLE	Raw Sewage	Aeration Tank	Settling Tank	Final Effluent	ATML	RAS	DSVI	Cake		General Limit
Total Phosphate (mg/l as P)	13.6	-	-	-	-	-	-	-	-	N/A
Ortho Phosphate (mg/l as P)	-	-	-	3.7	-	-	-	-	-	10 Max.
Free Chlorine (mg/l)	-	-	-	<0.05	-	-	-	-	-	0.25 Max.
Total Chlorine (mg/l)	-	-	-	<0.05	-	-	-	-	-	N/A
Dissolved Oxygen (mg/l)	-	0.25	0.22	-	-	-	-	-	-	N/A

F = Feed water

ATML = Aeration Tank Mix Liquor

RAS = Return Activated Sludge

  
**N.VAN BINSBERGEN (Pr.Sci.Nat.)**  
**DIRECTOR**







# HOW MUCH IS APPLIED

## **Calculating the amount of Ergofito Aqua GW required:**

You will require an average of 5 grams per m<sup>3</sup> per day. As an example, if the WWTP treats 500 m<sup>3</sup> of raw sewage per day you will require the following:

$500\text{m}^3 * 5 \text{ grams} = 2\,500 \text{ grams} = 2,5 \text{ kg}$  of Ergofito Aqua GW per day.

*NB: The above is a general indication, depending on the temperature of the water and the size of the WWTP, the daily dosage may vary between 2 grams to 10 grams per m<sup>3</sup> per day. The larger the WWTP the lower the dosage.*







ALL QUESTIONS WELCOMED