



BioRem **2000** **WATER TREATMENT**TM

Distributed By: beyond green cleaning (Pty) Ltd - Tel No.: +27 (861) 696 663 - Fax No.: +27 (862) 331 992
email: info@beyondgreen.co.za - website: www.beyondgreen.co.za

Water Treatment - Sludge:

- ✍ A powerful blend of microbes and natural botanical blends designed to reduce sludge and improve odor control in waste water applications.
- ✍ Reduces BOD, COD and TSS levels in waste water operations up to 90%.
- ✍ Reduces sludge volume in digesters (aerobic/anaerobic) and lagoons up to 50% .
- ✍ Reduces odor in waste water facilities, lift stations and holding ponds from 85% to 100%.
- ✍ Effluent quality is improved, reducing discharge pollutants.
- ✍ Resistant to many chemical shocks and decreases recovery time.
- ✍ Improves biological, sludge and nitrification/denitrification processes.
- ✍ Increases settling characteristics, reduces aeration requirements and sludge de-watering.

It is very effective in converting and decomposing organic matter at a high rate, dramatically improving the ratio of food to microorganisms (F/M).



Item Number	Unit Size
8601-020L	20 Litre

Water Treatment - FOG:



- ✍ A powerful blend of microbes and natural botanical blends designed to remove fat, oil and grease (FOG) from waste water applications.
- ✍ Reduces BOD, COD and TSS levels in waste water operations up to 90%.
- ✍ Reduces odor in waste water facilities, lift stations, holding ponds and landfill applications from 85% to 100%.
- ✍ Removes FOG deposits and prevents scum formation in holding tanks, sewers, drains and aeration basins.
- ✍ Effluent quality is improved, reducing discharge pollutants.
- ✍ Resistant to many chemical shocks and decreases recovery time.

FOG represents 10% of the organic substances found in waste water and coats the walls of structures and pipes creating maintenance problems.

Item Number	Unit Size
8602-020L	20 Litre

Water Treatment - H2S:

- ✍ A powerful blend of microbes and natural botanical blends designed to control hydrogen sulfide odors in waste water treatment applications.
- ✍ Reduces the population of hydrogen sulfide-forming bacteria.
- ✍ Reduces odor in waste water facilities from 85% to 100% .
- ✍ Reduces BOD, COD and TSS levels in waste water operations up to 90%.
- ✍ Effluent quality is improved by reducing discharge pollutants.
- ✍ Resistant to many chemical shocks and decreases recovery time.

The hydrogen sulfide is produced by the anaerobic microbes which emits the odor as a by-product of the sulfur-based respiration. By exchanging the respiration to another method, it eliminates the source of the odor but continues to digest waste in lift station and treatment



Item Number	Unit Size
8603-020L	20 Litre

Water Treatment - Oil Digestant:



- ✍ A powerful blend of 12 strains of microbes and natural botanical blends designed to digest hydrocarbons in waste water applications.
- ✍ Reduces BOD, COD and TSS levels in waste water operations up to 90%.
- ✍ Effluent quality is improved, reducing discharge pollutants.
- ✍ Resistant to many chemical shocks and decreases recovery time.
- ✍ Reduces sludge and odors.
- ✍ Changes the surface of particles from hydrophobic to hydrophilic.
- ✍ Converts hydrocarbons into carbon dioxide, water and biomass.

The unique characteristic of our microbial blend is its ability to adapt to the changing distribution of hydrocarbon by-products and produce more enzymes needed to digest a particular type of chemical. The food grade botanical extracts increase the attack ratio for the

Item Number	Unit Size
8608-020L	20 Litre

Water Treatment - Phosphorous:

- ✍ A powerful blend of microbes and natural botanical blends designed to remove phosphorous from waste water treatment applications.
- ✍ Reduces BOD, COD and TSS levels in waste water operations up to 90%.
- ✍ Reduces odor in waste water facilities, lift stations and holding ponds.
- ✍ Removes nitrogen and also captures and digests the soluble and organic phosphorous.
- ✍ Significantly reduces the phosphorous levels in a minimal amount of time.
- ✍ Reduces sludge and odor while improving effluent quality.
- ✍ Resistant to many chemical shocks and decreases recovery time.



Ferrous , Alum and other hazardous chemicals are used frequently to eliminate phosphorous in waste water operations. These products destroy the microbe population and produce 30 to 40% more sludge which cannot be used or digested.

Item Number	Unit Size
8604-020L	20 Litre

Water Treatment - Nh3:



- ✍ A powerful blend of microbes and natural botanical blends designed to remove ammonia from waste water treatment applications.
- ✍ Reduces BOD, COD and TSS levels in waste water operations up to 90%.
- ✍ Reduces odor in waste water facilities, lift stations and holding ponds from 85% to 100%.
- ✍ Significantly reduces the ammonia levels in a minimal amount of time.
- ✍ Reduces sludge and odor.
- ✍ Effluent quality is improved by reducing discharge pollutants.

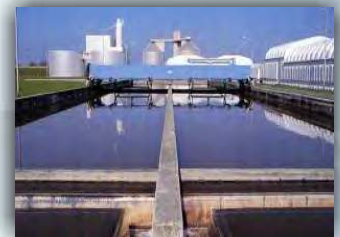
Ferrous, Alum and other hazardous chemicals are used frequently to eliminate ammonia in waste water operations. These products destroy the microbe population and produce 30 to 40% more sludge which cannot be used or digested.

Item Number	Unit Size
8605-020L	20 Litre

Water Treatment - Metal-Out:

- ✍ A powerful blend of microbes and natural botanical blends designed to remove heavy metals from waste water treatment applications.
- ✍ Reduces BOD, COD and TSS levels in waste water operations up to 90%.
- ✍ Reduces odor in waste water facilities, lift stations and holding ponds from 85% to 100%.
- ✍ Significantly reduces waste unlike flocculants.
- ✍ Reduces heavy metals by precipitation.
- ✍ Effluent quality is improved by reducing discharge pollutants.

Typical heavy metals present in metal finishing waste water are cadmium, chromium, copper, lead, nickel, silver, tin, and zinc.



Item Number	Unit Size
8606-020L	20 Litre

Odour Neutralizer:



- ✍ An all-natural botanical product, formulated to neutralize odor-producing compounds such as hydrogen sulfide, sulfides and mercaptans with Floratec Technology.
- ✍ Changes the environment to digest the waste by another method which does not produce odors.
- ✍ Applications include waste water treatment, lift stations, refuse containers and animal waste.
- ✍ Applied and dispensed by misting, fogging or spraying systems.
- ✍ It is non-toxic, non-reactive, non-flammable, biodegradable and ecologically safe.

Floratec Technology is based on the principle of using all natural vitamin and energy suppliers with existing microbes and enzymes, as well as minerals and essential salts. Other methods, such as adding more enzymes and microbes, only make the situation worse because they

Item Number	Unit Size
8607-020L	20 Litre

Water Treatment - Jet Pro:

- ✍ A highly concentrated product specifically formulated for use in jetting sewers.
- ✍ Contains all-natural, botanically blended sources including nutrients, stimulants and penetrants.
- ✍ Liquefies, removes and digests fats, oils and greases converting them into carbon dioxide and water.
- ✍ FOG will not re-coagulate or re-solidify.
- ✍ Leaves a protective film to slow down FOG build-up.
- ✍ Reduces sewer line cleaning time and frequency as well as odor emissions.
- ✍ Designed to be added directly to Jet Trucks or applied on effected area and rinsed with



Item Number	Unit Size
8600-020L	20 Litre

Water Treatment - FOG Blocks:

- ✍ A microbe-laden block designed for use in lift stations to digest fats, oils and greases ("FOG ") build-up and organic solids.
- ✍ Eliminates rancid odors in wastewater systems.
- ✍ Slowly dissolves and releases billions of microbes that consume FOG and organic solids.
- ✍ A consistent, automated system providing continuous treatment.
- ✍ Reduces labor time by eliminating dosage and metering pumps.

Flow Rate (GPD)	Blocks
25,000 - 49,999	1
50,000 - 74,999	2
75,000 - 99,999	3
100,000 - 149,999	4

Item Number	Unit Size
8602-1.5KG	12-1.5Kg

Water Treatment - Odour Blocks:

Flow Rate (GPD)	Blocks
25,000 - 49,999	1
50,000 - 74,999	2
75,000 - 99,999	3
100,000 - 149,999	4

- ✍ A microbe-laden block designed to neutralize odor-producing compounds including hydrogen sulfide and septic odors in industrial and commercial settings.
- ✍ Reduces the population of hydrogen sulfide-forming bacteria and alters the environment to eliminate bad odors.
- ✍ It is not a masking agent, odor neutralizer.
- ✍ A consistent, automated system providing continuous treatment.
- ✍ Reduces labor time by eliminating dosage and metering pumps.

Item Number	Unit Size
8607-1.5KG	12-1.5Kg

In the United States, the treatment and disposal of waste water became a health concern in major cities in the early 1900's. In 1972, the Federal Clean Water Act became law and established a far-reaching program for the control of pollution in U.S. Waterways. Specific areas of waste water treatment over the past 30 years have been altered due to changes in waste water characteristics, increases in industrial waste pre-treatment, new treatment processes, environmental and energy concerns as well as issues of land treatment and disposal.

The U.S. Environmental Protection Agency established acceptable levels of treatment prior to surface water discharge for each waste water plant in use. Each one of the permitted plants is monitored for compliance. Treatment facilities range from small flow stabilization ponds to new sophisticated high energy facilities.

Treatment plant optimization has become more costly and more complex in solving specific problems addressing various industries. No two waste treatment plants and/or problems are alike - each one has specific characteristics and a design regime to meet discharge goals. Therefore products that target these issues are needed. This is why the BioRem-2000 Water Treatment™ products were developed.

In addition, variances in waste water temperatures and pH have a wider operating range with BioRem-2000 Water Treatment™ products than with conventional biological parameters. Other process improvements with BioRem-2000 Water Treatment™ products are energy reduction, lower maintenance costs and chemical elimination, especially aluminum sulfate, ferric chloride and other hazardous chemicals.

Most of our bacterial products are designed to solve a specific problem or task. In designing a product, specific bacteria are selected based upon their natural abilities to degrade and digest a particular organic waste. Although we offer a full array of standardized solutions, we also offer custom products for more complex waste water treatment problems. Even if we do not have a standard formulation for your problem, we can develop the best tailor-made solution for your specific needs.