

BIOLYTIX™



**It's all in
the pod**

Gently aerated wastewater system in
a compact and simple to install pod.

ABOUT WATERFLOW

YOUR DEDICATED PARTNER IN WASTEWATER SOLUTIONS

We help Kiwis to choose and use the right sewage and wastewater systems for a cleaner New Zealand.

We manufacture, supply, install and design onsite wastewater systems (we even support you through council consent processes). From rural residential homes to housing developments, we know that every site is unique. Our wide range of wastewater products means we can design a system that's fit for purpose for every property and project.

With a deep commitment to advocating for the responsible treatment of wastewater, we bring clarity to a complex field, ensuring that wastewater is treated effectively for the benefit of our shared backyard, the environment. Our team of wastewater experts is here to simplify the process, sharing our knowledge generously and helping you discover the right wastewater solution for your project.

We're not just about systems, we're about stewardship. Not just for now, but for generations to come. Water, it's one of our most valuable but most wasted resources. When it comes to a cleaner New Zealand, we think protecting our water supply is a pretty good place to start.



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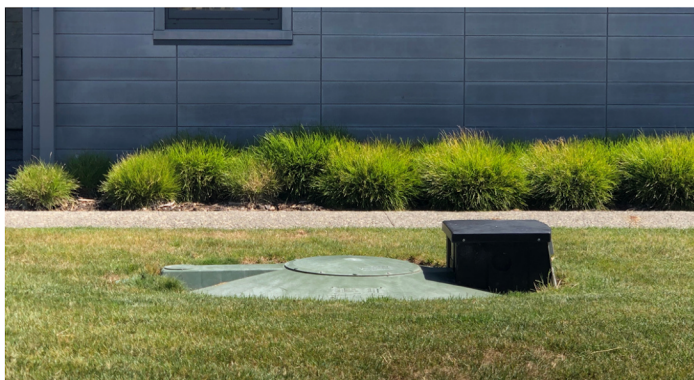
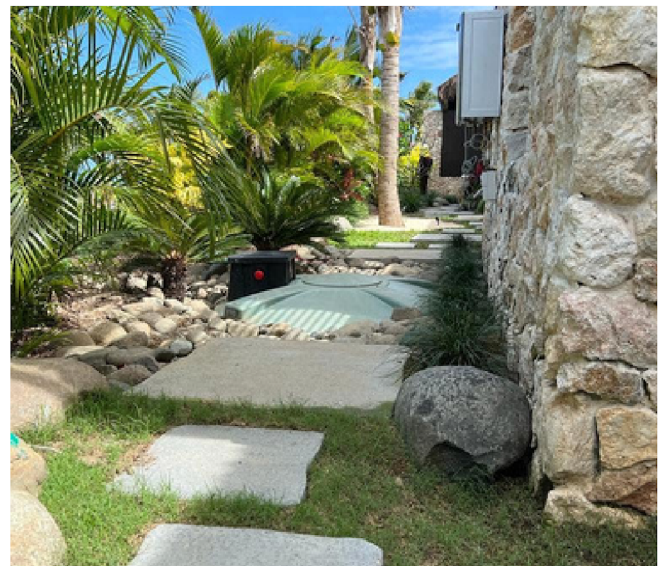
BENEFITS

WHY CHOOSE BIOLYTIX?

Vermifiltration is a powerhouse for efficient, odour-free wastewater treatment and Biolytix enhances this with additional aeration to achieve excellent waste breakdown to a Council-approved Secondary Treatment level. Employing nature to do the work, the Biolytix BioPod is engineered to meet the needs of billions of hard-working organisms that treat your wastewater. Providing a stable environment, food as they would naturally find it, and an abundance of oxygen. With these ideal conditions the biolytic organisms concentrate on what they do best; continually processing solids waste for free.

Nature's design, gently enhanced

Biolytix's unique system blends vermiculture with subtle aeration (a small aquarium air blower), achieving council-approved Secondary Treatment levels with natural processes, complemented with inspired technology. The Biolytix process is leading the world, in harnessing the energy in your waste (including sewage, toilet paper & food waste) to feed the powerhouse of organisms that break down and treat your waste completely naturally.



Low power excellence

Experience the future of wastewater treatment with Biolytix's energy-minimalist approach. Precision-engineered for efficient energy use, the Biolytix system delivers high-performance wastewater treatment while keeping electricity bills low.



Easy installation, anywhere

Minimise disruption to your landscape with a lightweight, compact, easy to install BioPod. From remote areas to challenging terrains to island landscapes, this single tank pod system is designed for seamless integration anywhere. The BioPod's simple single-pipe design connects seamlessly to existing plumbing with no alterations required.

Robust and hassle free

Sit back, relax and let 'nature' do the work with a system that demands little attention, yet never compromises on performance. A robust, hands-off natural treatment system that operates efficiently from day one, without the need for expensive suck-outs or complex servicing.



Made to go unnoticed

Whisper-quiet, odour-free operation. Enjoy the peace of your backyard with a system that blends in harmoniously. No septic smell and no loud pump noise.

Made for your backyard

BioLytx is a pod-based system, allowing us to build a modular system that's just right for your needs. Our wastewater experts will specify a solution that's just right for your specific site.



HOW IT WORKS

BIOLYTIX WASTEWATER TREATMENT



Household wastewater

BioPod Treatment
module

Treated water for final
disposal into the soil as per
Council Regulations



Wastewater does not need to be separated into grey water and black water, Biolytix works with all standard plumbing configurations.

The wastewater enters the pod, an injection moulded high grade polypropylene tank. Inside the tank, layers of trickling filter media are contained in open mesh bags. The filter materials are highly porous and fibrous, providing structure which significantly increases the treatment surface area and ability to retain moisture.

The resulting layered filter bed mimics a natural soil habitat, containing a diverse ecosystem of micro and macro-organisms. These organisms aerobically treat the wastewater as it percolates through the bed, prevent the accumulation of sludge, and keep the filter aerated.

A small, quiet air pump is used to provide additional air to the bed which ensures the optimal conditions for the waste processing ecosystem.

A geotextile filter layer separates the filter bed from the effluent storage sump. Its purpose is to remove fine solids from the treated effluent. Effluent drains into the central pump well, from where the now treated water is pumped to a land dispersal system (e.g. subsurface drip irrigation) and returned to the environment.



BIOPOD - BF6

Capacity: Total daily flow volume 1600L
 Type: Vermifiltration
 Treatment level: Secondary, Tertiary/UV
 Material: Plastic
 Application: Off-grid, tiny homes, Baches, Residential homes, Commercial, community



MULTIPOD - BF8

Capacity: Total daily flow volume 2400L
 Type: Vermifiltration
 Treatment level: Secondary, Tertiary/UV
 Material: Plastic
 Application: Off-grid, tiny homes, Baches, Residential homes, Commercial, community



CUSTOM & COMMERCIAL

Biolytix's pod-based design allows for designs to use multiple modules for high volume settings. For high-flow commercial settings, large developments, or any other special use requirements, reach out to us about a custom design.

The ecosystem inside the BioPod is based on an enhanced trickling filter process which mimics a natural soil habitat. It can be sustained indefinitely with solid material repeatedly broken down and resulting humic material becoming a part of the filter and part of the filtration process. The worms and other treatment organisms inside simply breed and replenish themselves. Because of the relative lack of mechanical components in the filter bed the BioPod only needs one annual service.



OUR SYSTEMS

FREQUENTLY ASKED QUESTIONS

How do I care for my BioPod?

Your BioPod is a living ecosystem of organisms, and some cleaning products have the ability to kill these organisms. When purchasing products such as cleaners and detergents be sure to check the label to see if the product is either biodegradable or safe to use in sewage systems. Remember that whatever goes down your drain has the ability to enhance the activity of the worm colony or to damage it.

Availability?

Systems are normally held in stock and ready for dispatch from the Waterflow yard.

Does it require Power?

The BioPod uses completely natural processes to break down and treat your waste so only requires extremely low supply of additional air. With subtle aeration (a small aquarium air blower) there is very little power required and is approximately 0.12 kwh per day (or approximately 3 cents per day).

Can the Grey Water be reused?

Yes, this water can then be used for surface or sub-surface irrigation e.g.; watering trees, hedges, plantings, orchards etc.

Does it require a Soakage Field?

Yes, you will need either driplines, or a soakage field or a combination of both depending on which your site. These options also depend on the council requirements for the area and the soil types etc on the site.

Is it accepted by Councils?

Yes backed by national test certification, Waterflow has worked with virtually all district and regional councils nationally to gain consent status acceptance. Waterflow will work through all the needed requirements and consents that your council requires.

What's needed for Council Consent?

In most cases an Onsite Disposal System will be a permitted activity and all the Council will require is a site assessment, which can be done by your WaterFlow installer.

What is the distance allowed for a System from a building?

Anything greater than 3 meters from the building, under permitted activity.

What are the Maintenance Requirements?

Maintenance is set out in a homeowner's manual. The homeowner can be trained to manage their system as it is very straightforward and mainly involves only simple visual checks on the system. Waterflow would recommend a yearly visit from an installer and some councils are now starting to insist on this.

How do I protect the Worm Colony?

You can help maintain an effective wastewater system on your site, by ensuring no toxic or high chlorine chemicals are put down the kitchen sink or toilets. A good practice guide will be provided with your new Biolytix System.

Do Antibiotics or sickness have any effect on the worm colony?

Antibiotics when used in the home through periods of sickness have proven to have no adverse effects on the Worm Colony.

Does temperature affect the Worm Colony?

The Tiger Worms are bred in Cromwell, Central Otago, where they have extreme temperatures ranging between -7° to 38°C. They are well adapted for all of New Zealand's harshest conditions.

What if the Worms die?

This would be very unusual and would have to be a result of prolonged flooding or toxic chemicals, but this will show up very quickly, through visual checks, and the BioPod can easily be reseeded with Tiger Worms.

Can I install it myself?

The Biolytix system, as with all sewage systems, involves sanitary drainage and must be installed by a Registered Drainlayer or preferably by an accredited WaterFlow installer.

Can I use my own Drain Layer?

Yes, it is possible, but the advantage of using an accredited installer is they will provide technical support before, during and after installation. And your warranty will remain intact.

What is the difference between Advanced Primary and Secondary Level Treatment?

It relates to the treatment level or purification of the wastewater, with Secondary being purer than the Advanced Primary level.

What shouldn't you flush down your toilet?

Dental floss, feminine hygiene products, diapers, cotton swabs, cigarette butts, cat litter, and other kitchen and bathroom items that can clog and potentially damage septic system components if they become trapped. Flushing household chemicals, gasoline, oil, pesticides, antifreeze, and paint can also stress or destroy the biological treatment taking place in the system or might contaminate surface or ground waters.

TESTIMONIALS

WATERFLOW SYSTEMS ARE IN 6,000+ BACKYARDS



Thank you for your services, you have an excellent working crew and you all in the offices there made the whole paperwork and organizing of the job processes so easy for me it was so good to leave it in your hands and not be doing it myself, as I had to with the rest of the stuff I've had to do during this time. Give my regards to all and a big thumbs up!

Thelma – Ruawai

Thanks again, were really impressed by your Company. I would have absolutely no hesitation in recommending anyone in both the product and your after care support. We really appreciate it!

Mark – Te Kauwhata

Thank you Hamish, we are pleased with the way that you finished the installation and particularly Jimmy's work with cleaning up the site. Please thank him for us.

Steven – Rakino Island

Waitoki School's decision to go with Water Flow NZ Ltd, was one of the wisest we have made. The quality of both product and service is exceptional. Their care of 'post installed product' is timely and professional. One of the trickier elements when installing in a school environment, is the installers ability to run a safe secure installation – and Water Flow stood out with their professional approach to working around children.

Waitoki School – Waitoki

Just wanted to add that you guy's have been amazing throughout this process, Gerry has been so great to deal with, himself and the other two guys were super efficient and very tidy completing the job on site and it was done on time even with my dates getting pushed out and not 100% confirmed until about a week out from the house arriving on site it felt like it was no issue to Gerry and he was very accommodating.

Emily – Hatuma

Ask us about Commercial sized systems

The Biolytix system is modular and scalable. We can custom design a wastewater system for high flow commercial settings.



No site too difficult

With only light machinery required, the modular design of the Biolytix pod system, makes it a perfect fit for tricky or hard to access sites.





Our team of wastewater experts are here to help.
Let's see if Biolytix could be right for your backyard.

GET STARTED WITH FREE SITE ASSESSMENT

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