



WaterFlow

Bringing Clarity to Wastewater

Products & Services

Smarter wastewater & sewage systems,
for a cleaner New Zealand

www.waterflow.co.nz

0800 628 356

sales@waterflow.co.nz

ABOUT US

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.



www.waterflow.co.nz

0800 628 356

sales@waterflow.co.nz

TABLE OF CONTENTS

Our Process	3
Our Approach - The WaterFlow Way	4
NaturalFlow Systems	5-6
EconoTreat Systems	7-8
BioPod Systems	9-10
Land Application Systems	11-12
Custom Commercial Projects	13
Pumps & Filters	14
Rainwater Tanks	15
Drainage	16
Customer Testimonials	17

OUR PROCESS

WE MAKE IT EASY FOR YOU

At WaterFlow we are with you every step of the way.

That includes helping you to comply with industry regulations and resource, building and council consents. We know the ins and outs, what to expect and how to keep your project flowing smoothly. When you choose WaterFlow as your trusted wastewater partner, you'll get dedicated expertise and support throughout our process:

**1. Get in touch**

Tell us about your project. The earlier you bring us in, the more we can help by advising of any considerations that might affect planning or building.

**2. Free site assessment**

Our trained site evaluators consider your plans, preferences, and technical aspects of your site - like slope, soakage, proximity to waterways, and council requirements.

**3. Proposal**

You'll receive a detailed site-specific proposal. We don't hide costs and we'll make it clear what's required and what's outside of our proposal.

**4. Consent documentation**

Once you've accepted your proposal, our approved designers or engineering partners will prepare an Onsite Wastewater Report.

**5. Resource consent (if required)**

Some sites require Resource Consent due to size, flow volume, slope, or another factor. If this is the case, we will inform you and support you through the process.

**6. Building consent**

You'll submit WaterFlow's wastewater report with your building consent. If you only require a wastewater consent, we are happy to assist with this process,

**7. Installation**

Once your building consent has been approved and we have been notified our team will reach out to arrange installation. All installations are undertaken by accredited installers.

**8. Sign off**

Following installation, we will provide producer statements for Code of Compliance, and as-built drawings.

**9. Ongoing support**

We're here to provide life-long support. We are always on hand to answer queries and are committed to ongoing system service requirements,

THE WATERFLOW WAY

TAILORED WASTEWATER SOLUTIONS

Choosing the right wastewater treatment for your site can be overwhelming. That's why we're different in our approach to wastewater.

We start by assessing your site and discussing your plans and dreams for your property. We then can help you select the most suitable location for your disposal area which will also help determine the most appropriate land application system for your site. From there we can evaluate which wastewater treatment system will be the best fit for you and your lifestyle. Having a wide range of treatment options means we can take an agnostic approach and genuinely select the right system for your backyard.

Practically, Wastewater Treatment and Disposal has two Systems:



The treatment system

This is where the sewage or wastewater is treated and purified, ready to be safely reintroduced back into the environment.

We pride ourselves on offering a wide range of wastewater treatment systems, not just a single solution. Our extensive range of systems ensures we're equipped to recommend the best solution for your lifestyle and your backyard, every time.

The disposal field

This is where the treated wastewater is reintroduced into the environment.

The disposal field, or Land Application System, will have the biggest impact on your backyard, as it can take up a large area and is nearer the surface. Get us involved early so we can design a system that fits with your vision for your property.



NATURALFLOW™

NaturalFlow systems offer an eco-smart twist on sewage treatment. Harnessing the humble worm, they chew through waste without a gulp of electricity.

Nature is one huge recycling mechanism and keeping it simple is our philosophy, using power free natural aerating processes to treat your sewage water. The NaturalFlow harnesses Mother Nature's recycling mechanisms of nature; harnessing its forces that have been quietly working together for thousands of years to break down and decompose waste all around us and positions them in an enclosed eco-system module that simulates the natural forest floor. The NaturalFlow System uses vermiculture to reduce the solids by up to 95 per cent, creating in the process valuable water-soluble nutrients that can be recycled safely back into the environment.



Kind to the environment and your wallet

With no power required in the treatment processes NaturalFlow systems are designed to be as robust as nature itself. Combining various forms of well researched and established passive treatments and natural processes, which are very proficient at treating sewage and wastewater.

Nature's way

Let the worms do the work. NaturalFlow's simple design leaves nature to do what it does best. A self-sustaining ecosystem of worms and other organisms breaks down waste naturally, with no interference.



Set it. Forget it. Easy

Our systems, inspired by nature's simplicity, work silently in the background. These low-maintenance, odourless wonders dodge the dreaded suck-outs and keep your backyard fresh for you to enjoy.



Ready for the rush

NaturalFlow systems are built for life's surges, deftly handling shock-loading so an influx of guests never overwhelms your backyard's tranquillity. This dynamic ecosystem naturally adapts to the ebbs and flows of household water usage, ensuring that your system remains unfazed and odourless, even at peak times.

OUR SYSTEMS

NATURALFLOW PRODUCT OPTIONS



NF8000

Capacity: Total daily flow volume 1600L
 Type: Vermifiltration
 Treatment level: Advanced Primary
 Material: Plastic
 Application: 3-8 bedroom houses, sleepouts, baches and holiday homes, marae, schools, small commercial facilities



NF11000

Capacity: Total daily flow volume 1600L
 Type: Vermifiltration
 Treatment level: Secondary
 Material: Plastic
 Application: 3-8 bedroom houses, sleepouts, baches and holiday homes, marae, schools, small commercial facilities



NFCS50

Capacity: Total daily flow volume 5000L
 Type: Vermifiltration
 Treatment level: Advanced Primary
 Material: Concrete
 Application: 3-8 bedroom houses, sleepouts, baches and holiday homes, marae, schools, small commercial facilities



NF TINY HOME

Capacity: Total daily flow volume 440L
 Type: Vermifiltration
 Treatment level: Advanced Primary
 Material: Plastic
 Application: Off-grid, tiny homes, sheds with minimal water usage



ECONOTREAT™

Precision aerated wastewater treatment for unparalleled environmental protection. Advanced Secondary Treatment level certified for even the most sensitive ecosystems.

Offering unmatched purification, EconoTreat is the go-to for high-grade wastewater treatment, especially in ecologically sensitive areas.

Its Aerated Advanced Secondary Treatment reduces nitrogen output, ensuring unmatched environmental protection. Breathe easy, knowing your wastewater system is safeguarding the environment in your backyard and beyond. OSET certified Advanced Secondary Treatment level.



Council-friendly compliance

With Nationwide trust and OSET certification EconoTreat's Advanced Secondary Treatment system makes compliance a breeze. Enjoy smooth sailing through consent processes.



Long lasting Irrigation Systems

Ensuring a clear flow, EconoTreat extends the life of irrigation systems by reducing wear and tear from contaminants. Avoid future hassle and cost with a treatment system that's kind to your disposal system and PCDI friendly.



No job too big

Scalable solutions, tailored to meet the demands of your space. From private homes to high-flow commercial facilities, there's no wastewater challenge too big. We'll customise your system so that it's fit for purpose today, and in the future.

Quiet and efficient

Operated by a single blower, EconoTreat residential systems use less power than most aerated systems at only 1.3KWH per day. This energy efficient blower offers quiet operation for minimal disturbance and operation that goes virtually un-noticed.

OUR SYSTEMS

ECONOTREAT PRODUCT OPTIONS



ET32P

Capacity: Total daily flow volume 2000L
 Type: Aerated Treatment
 Treatment level: Advanced Secondary, De-Nitrification
 Material: Plastic
 Application: 3-8 bedroom houses, baches and holiday homes, marae, schools, rural commercial facilities, ablution blocks



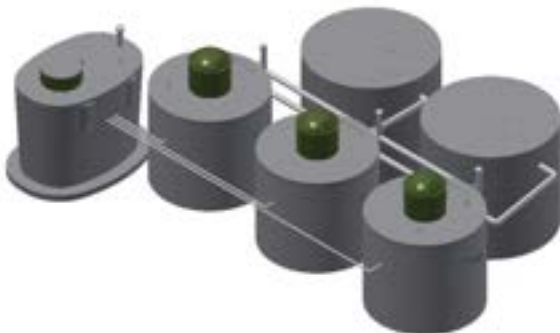
ET52C

Capacity: Total daily flow volume 2200L
 Type: Aerated Treatment
 Treatment level: Advanced Secondary, De-Nitrification
 Material: Concrete
 Application: 3-8 bedroom houses, sleepouts, baches and holiday homes, marae, schools, small commercial facilities



ET60C

Capacity: Total daily flow volume 3000L
 Type: Aerated Treatment
 Treatment level: Advanced Secondary, De-Nitrification
 Material: Concrete
 Application: commercial facilities, rural businesses, cafes, large ablution facilities, marae and community



CUSTOM COMMERCIAL

Commercial situations are not 'one size fits all'. We work with you to make the necessary design considerations before prescribing a product for commercial facilities.
 Type: Aerated Treatment
 Treatment level: Advanced Secondary, De-Nitrification, Tertiary/UV
 Material: Concrete

BIOPOD™

Nature meets innovation in a gently aerated wastewater system that's compact and simple to install, even on challenging sites.

Vermifiltration is a powerhouse for efficient, odour-free wastewater treatment. BioPod (previously Biolytix) enhances this with additional aeration to achieve efficient waste breakdown to a council-approved Secondary Treatment level. Employing nature to do the work, 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.



Low power excellence

Engineered for efficient energy use. BioPod consumes up to 90% less energy than most aerated sewage treatment systems. You get a high-performance wastewater treatment, and you keep your electricity bills low.



Easy to install, anywhere

BioPod minimises disruption to your landscape with its lightweight compact and easy-install system. With a simple single-pipe design, BioPod connects seamlessly to plumbing with no need to separate black and grey water before it enters the system.



Robust and hassle-free

Biolytix is a hands-off system that operates without the need for suck-outs. Once installed, it's time to sit back and relax with a system that demands little attention or frequent servicing yet never compromises on performance. Easy.

Made to go unnoticed

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



BIO32

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



BIOM32

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

BioPod'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 the 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 (most competing systems require 3-4 services each year), though this can depend on individual council's requirements.

Low maintenance requirements, along with a lightweight and compact pod design makes BioPod a preferred option for remote sites with limited access or fragile environments which are vulnerable to disruption during installation.



LAND APPLICATION SYSTEMS

IRRIGATION

Irrigation systems are the most common method of discharging wastewater to the ground; this is due to the relatively low cost and ease of installation. There are two irrigation options you can use, depending on your site: Pressure compensating drip irrigation (PCDI) or Low Pressure Effluent Distribution (LPED).

LPED - Low Pressure Effluent Distribution

This is a favourite of ours, as it is the most robust irrigation system available. Using larger 25mm distribution laterals with drilled holes, it is much less prone to blockage and crushing. The larger holes are covered with an innovative squirt guard, developed by Waterflow. These systems do require a rectangle area and must run across contour, which limits the options around where and how it can be positioned onsite. There are also more council regulations around topsoil and slope for this method.



PCDI - Pressure Compensating Drip Irrigation

This is a very common irrigation system, used with the majority of secondary treatment systems. While it has finer emitters and requires more care, it can be laid across low contour in any shape you desire; this makes it much more favourable when trying to fit a specific area of planting or lawn.



SOAKAGE SYSTEMS

Soakage systems utilise the earth's natural ability to soak up discharged water; therefore they work best in ground with low clay content. Evapotranspiration via plants can assist the take up of moisture. Soakage systems handle higher loading rates, so can reduce your discharge area by up to 50%. They also utilise much larger holes or orifices than irrigation systems making them very robust and essentially removing any chance of blockages in the system. These systems cost more to install, but in some situations it's a worthwhile investment.



Soakage Beds

Constructed in the ground using drainage metal and a central distribution pipe. These beds can vary in width from 1.5 - 3.0m



ETS Beds - Evapotranspiration

Evapotranspiration Beds are similar to soakage beds, but are mounded and utilise plantings to help take up water.



Raised Mounds

Similar in principle to ETS Beds, these are built up above ground. Normally used in high water tables or flood prone areas.



Soakage Trenches

Less common than soakage beds, they are constructed in the same way; the only variation being they are narrower and sometimes deeper.



Bore Holes

A series of deep holes, (0.6m diameter, up to 6m deep), discharge much deeper in the ground. Only used in very limited situations, bore holes will require a resource consent.

TAILORED DESIGN

CUSTOM SYSTEMS FOR COMMERCIAL USE

Reliable water harvesting and wastewater treatment systems.

When dealing with commercial and industrial waste, care needs to be taken. After all, the financial success of the business is based around everything on site working smoothly including the wastewater treatment system. When thinking about your commercial wastewater treatment system, we'll help you choose the right option, considering sources and volume of waste, fluctuations in flow volume, and council compliance requirements.

**A robust system that is tailored to your site**

And serves you long term.

You want to be running your business, not thinking about whether your wastewater treatment system is working. It should be working efficiently and effectively in the background. We'll assess your site to recommend a solution that can handle the flow and has longevity.

Look after your Finances

With a system that considers all factors.

Failure to factor in every dimension can lead to costly remediation; incomplete treatment can cause blockage and long-lasting soil damage. In many cases, waste is combined just because it is convenient, while the organisation is unaware of the detriment and costs being incurred. We'll work with you to bring you the best results.



Big job? We're up for the challenge.

Bring us in early so we can help keep your project on track and flowing smoothly.

ONE STOP SHOP

EVERYTHING YOU NEED FOR ONSITE WATER MANAGEMENT

From fittings and filters to pipes and pumps, we've got everything required to get the job done. Ready to replace, repair or upgrade some componentry in your system? We're here to help. With over 20 years of industry experience, we know which products to choose and recommend for performance and price, and we have excellent long-term relationships with a wide range of suppliers. Not only can we help you pick the right part first time, we'll also save you the cost and hassle of shopping around. When it comes to on-site water management, we know our stuff – right down to the last valve.



Wastewater pumps

We cover a range from large macerating grinder pumps to smaller submersible discharge pumps, including controllers and alarms if necessary. We can also provide complete pump stations for various situations.

Drinking water pumps

We recommend ESYBOX and DAB pumps. The ESYBOX surface mounted pump is a high end, soft start, multi-stage pump, that gives you the water you want when you need it. The DAB range of submersible pumps install inside your water tank and run cool and extremely quiet. A range of great value that won't let you down.



Water filtration

Have the peace of mind, knowing that your cup is free from foreign contaminants. Installed between you and the tank, a filter system will ensure sparkling clean water every time. We can offer supply and installation of a range of water filters including **Sediment Filters**, **Carbon Filters**, and **UV Filtration**.

We're here to help.

Our team of experts are here to help you choose and use the right products for your project.

WATER TANKS

RAINWATER HARVESTING & STORAGE

Ask us to add water tanks to your project! With all the complexities of a house project It makes sense to use less subcontractors. We can supply and install your complete wastewater and drinking water systems.



Plastic or concrete?

Plastic water tanks are far more common, due to cost and ease of installation, and they do a great job of holding water. Lightweight means it is easy to position them onsite; and while they can only be partially buried, they do have a range of colour options to help them blend in to their surroundings.

The major benefits of concrete are: the insulation properties during hot weather, and the ability to fully bury them. However they do require Hiab access to get them into position onsite, which can be especially challenging during the winter months.

Each site will have different requirements, ask us what would be best for your site.



SITE WORKS

WASTEWATER & STORMWATER DRAINAGE

Complete the package with drainage connections for your wastewater and stormwater systems. All our installers are qualified drainlayers, who can complete all your drainage work outside of the house. The plumber is responsible for everything within the walls, from the under slab drains to the final fit-off. We can save you time and cost, by having one contractor onsite doing the whole job.

Drainage connections include:

- Wastewater from the house to the sewage system
- Stormwater from the downpipes- to the water tank
- Overflow connections from the water tanks to a dispersal area
- Can also include general stormwater management such as cut-off drains and minor site contouring.

We will arrange the drainage inspections and provide as-built drainage plans to cover all council regulations, ensuring your build is compliant.



TESTIMONIALS

WE'RE 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

Our Papakainga in Pouto (currently 8 homes on site) had major septic issues and due to Health & Safety reasons the Council was justified in demanding an upgrade. Natural flow provided an environmentally sustainable system that uses a natural process to treat our wastewater to a very high standard. This was extremely important to us as the Papakainga lies adjacent to the Kaipara Harbour. To date we have experienced great service and maintenance of the system and the Council is happy too.

Pouto Papakainga – Pouto

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

LET'S TALK

GET CLARITY WITH A **FREE SITE ASSESSMENT**

Get honest, non-biased advice.

We can carry out a free site assessment to really understand your property, what you are trying to achieve and what needs to be taken into consideration, so we can help you to **choose and use the best system for your site.**

Our team of wastewater experts are
here to help.

0800 628 356

www.waterflow.co.nz

sales@waterflow.co.nz



*"We work hard to protect our
shared backyard."*



WaterFlow

Bringing Clarity to Wastewater

www.waterflow.co.nz

0800 628 356

sales@waterflow.co.nz