



**INTERGROUP**  
INFRASTRUCTURE

# INFRASTRUCTURE

New Zealand's Infrastructure &  
Industrial Services Specialists



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# INTERGROUP PROFILE

## The Intergroup Group of Companies has over 35 years of experience in providing services to:

- Local government authorities (such as Auckland Council/ Transport)
- State-owned enterprises (such as Airways Corporation of New Zealand)
- Contracting companies (such as Downer, Fulton Hogan, Leighton, City Care, Babcock NZ, and many of the smaller civil contractors)
- Large construction companies (such as Fletcher Construction, Hawkins and Mainzeal)
- Fast-food giants (such as MacDonaldis and Burger King).

We have recently expanded into civil construction, focusing on land development, the Ultra-Fast Broadband rollout and aspects related to utility protection, to complement Intergroup services.

## RESOURCES

Our head office/depot is in Springs Road, East Tamaki, Auckland. We have an offshore division, based in Auckland, and 16 branches nationwide.

With the acquisition of Transpacific Industrial Services, we now have nearly 500 staff and a fleet of over 400 specialised vehicles nationwide, making us well-equipped to provide our clients with availability and responsiveness, every time.

We have our own team of in-house mechanics and engineers for plant servicing, and stock spare parts at our depots, to ensure optimal plant reliability and efficiency.

## INNOVATION

Intergroup is taking an internationally leading role in high and ultra-high pressure water jetting technology.

One of our most significant innovations in recent years is hydroexcavation, which combines water jetting with excavation to remove the risk of services strike and tree root damage. It is now the preferred excavation method on the Ultra-Fast Broadband project.

## CUSTOMER SERVICE

Our fundamental objective is to give total customer satisfaction in an environment of continuous improvement and quality-based services. We run round the clock (24/7) operations and our staff are trained to go the extra mile to ensure that we meet this objective.

## QUALITY

In line with our customer satisfaction objective, high-quality workmanship and continuous improvement are a key focus for Intergroup.

Our ISO 9001:2008 accreditation, audited externally by Telarc, is testament to the comprehensiveness and robustness of our quality management systems and processes.

## ENVIRONMENTAL

Our ISO 14001:2004 accreditation for environmental management is independently audited by Telarc.

Over and above stringent environmental controls for compliance, we are also highly focused on improving our sustainability across the group.

Recent initiatives include:

- Investigations into re-using grease trap waste as a commodity
- Introduction of innovative environmentally-friendly plant into New Zealand, such as Juggler trucks

- Use of a bio-diesel blend in all of our vehicles to reduce our carbon footprint
- Building a fleet of modern, fuel efficient, emission-controlled vehicles.

## HEALTH AND SAFETY

The health and safety of our staff is extremely important to us.

Consequently, we are very proud of gaining Tertiary Accreditation - ACC Workplace Safety Management Practices, awarded in October 2011.

This accreditation is due to the hard work and dedication of our staff, including our full time in-house Health, Safety and Environmental advisers and trainers, in meeting our health and safety objectives, and aligns with our strategy to continually improve standards across the group.

## TOTAL PROJECT/CONTRACT MANAGEMENT

With more than 35 years' industry experience, we are able to offer our customers a full project/contract management service, including:

- Condition assessment
- Budgeting
- Consulting and advice
- Programming
- Works management
- Maintenance management
- Fiscal control
- Quality assurance to international standards



# CCTV (PIPE AND DRAIN INSPECTION)

Intergroup has 30+ years' CCTV experience and capability through Groutseal. You'll be 'smiling for the camera' when you see what we can do for you.





# YOU'LL BE SMILING FOR THE CAMERA.

## CCTV capabilities

### Investigation:

- Pipeline, soakhole and manhole inspections/ investigations
- Surveys for blockage, cracking, disjoints, damage, illegal connections and water infiltration
- Reporting via DVD, pipeline inspection reports, and as-built plans when required
- Specialised Panoramo system captures still images as it moves through the pipeline, which overlap to produce high-resolution 3D colour digital modelling and dimensioning
- Data inspection and analysis can be done back in the office- the image does not blur when mouse scrolling along the pipeline, even at the highest inspection speeds
- Panoramo downhole camera for detailed manhole and soakhole imaging and measurement
- Large tractor units and smaller units operated from the same van - for pipelines 50mm to 2m

in diameter and up to 500m long

- Zoom capability and powerful LED illumination (with additional bolt-on lighting) for focus and detail in any situation
- Deep sonde locator – for locating pipes up to 20m deep
- Digital inclinometer readouts of pipeline gradient, pitch and direction changes
- Boat inspections for partially submerged pipes

## Other service options

### Cleaning and Repair:

- Flushing (low or high pressure jets), descaling, polishing (fat removal) and root cutting
- Urethane pressure grouting to seal leaks in manholes, joints, lines and connections

### Vacuum loading:

- Environmentally-compliant removal of dry and wet waste
- Minimisation of blowbacks

### Waste removal:

- Transport, delivery, dewatering, treatment and disposal through a consented facility

### 24/7 emergency response:

- Rostered call-outs and surge capacity for availability, every time

### Total project management:

- Condition assessment, budgeting and maintenance planning right through to works management, fiscal control and quality assurance (to international standards)

## Applications include:

- Pipelines (stormwater, sanitary sewer, water supply)
- Industrial (plant ducting etc.)
- Building compliance
- Manholes and soakholes
- Marine (ship tanks and pipelines)
- Consent compliance
- Fault finding



**CCTV units big and small cater for pipelines from 50mm to 2m. They send information to the on-board systems that is reported via DVD and inspection reports.**

## Benefits to you

### Cost-Effectiveness, Speed and Efficiency

- One-stop shop for all industrial services needs
- Wide selection of plant (including multi-capable vans) and experienced operators enable a tailored service to suit your needs, budget and programme
- Data collection at a rate of up to 21m per min - reduced costs and greater productivity
- Extra-long cables for viewing up to 500m of pipe without stopping - improved efficiency
- Real-time viewing and/or video reporting for offsite analysis and cost-effectiveness

### Quality

- True 3D modelling with Panoramio for high-quality and detailed colour imaging
- Zoom capability and powerful LED illumination to enable clear focus and easy views of high or overhead inlets
- Pipeline Inspection Manual standards

### Risk Reduction and Reputation

- Operators you can count on - respected within the industry and asked for by name
- Quick trouble shooting with the ability to call on Intergroup's wider services and resources
- Vacuum loading for blowback minimisation and environmentally-compliant waste disposal

### Success stories

- An integral role assisting CityCare and SCIRT with emergency assessments of sewer, water supply and stormwater network integrity following the Christchurch earthquakes
- CCTV consent compliance work for new subdivisions in Christchurch; this has involved tight time pressures to get the post-earthquake rebuild underway
- CCTV services to facilitate the ongoing maintenance of Auckland's extensive sewer, water supply and stormwater networks for Watercare and other clients
- Cyclic CCTV sanitary sewer inspections and

cleaning for Gisborne District Council

- In the industrial sector, CCTV inspection and cleaning of Fonterra's milk powder ducting

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***"I've been using Intergroup for five years now. Their service is very good – we always get a quick response and they always do what we want. We get on well with the crews and they are willing to go the extra mile for us. Problems with drainage can occur at unusual times but they respond promptly no matter the hour and help us complete inspections with CCTV. They're a very good company, in my view."***

***Terry Bone, Drainage Supervisor, Downer***





# DRAINAGE MAINTENANCE

Intergroup has over 35 years' experience in maintaining stormwater drainage systems. Drainage maintenance remains part of the company's core business today. With quality maintenance by Intergroup, you will no longer be inundated by 'floods' of flooding complaints.



www.intergroup.co.nz

New Zealand's Infrastructure & Industrial Services Specialists

Tourism  
New Zealand  
Discover  
New Zealand



# TIRED OF THROWING MONEY DOWN THE DRAIN?

## Drainage maintenance capabilities

- Catchpits, cesspits, stormwater drains, grit chambers, manholes, soakholes and pipelines - removal of dirt build-up, fat, debris and silt
- Flushing hydro jets to 600L per minute with water recycling capability
- High-pressure root cutting
- Specialised one-man catchpit trucks for reduced labour costs or two-man catchpit trucks for heightened productivity
- Combination trucks (combining waterblasting/flushing and vacuuming capability) in varying sizes and power ratings
- Cleaning of deep soak holes (over 10m)
- Breathing apparatus and confined space entry

## Other service options

### CCTV inspection and repair:

- 30+ years' CCTV experience and capability through Groutseal – part of Intergroup
- Pipeline, soakhole and manhole investigations, surveys and reporting (including video)

- State-of-the-art Panoramio equipment for high-resolution 3D colour digital modelling

### Vacuum loading:

- Environmentally-friendly removal of dry/ wet waste
- Large fleet from 3,000L to 24,000L capacity (truck and trailer) – to suit your needs

### Waste removal:

- Transport, delivery, dewatering, treatment and disposal through a consented facility

### 24/7 emergency response:

- Rostered call-outs and surge capacity for availability, every time

### Total project management:

- Condition assessment, budgeting and maintenance planning right through to works management, fiscal control and quality assurance (to international standards)

## Benefits to you

### Cost-Effectiveness, Speed and Efficiency

- A one-stop shop for all your industrial services needs

- Wide selection of plant (e.g. single- or dual-operator, different sizes and power ratings) and experienced operators enable a tailored service to suit your needs, budget and programme
- Combination units in a single truck for cost-effectiveness and productivity

### Quality

- Maintenance advice from our experienced staff ensures your system performs effectively and proactively prevents issues
- Conformance to the requirements and needs of all customers, ranging from large entities like Auckland Council to individual home owners

### Risk Reduction and Reputation

- Eliminates flooding and inconvenience to customers and the public
- Protects our waterways and beaches from silting and toxic metal contamination
- Prevents environmental prosecution costs for property owners

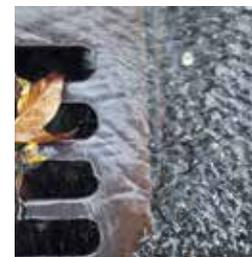
## Success stories

- An integral role assisting CityCare and SCIRT with emergency cleaning and maintenance of the drainage network following the Christchurch earthquakes
- Prior long-term service provider for the Tauranga City Council catchpit contract
- Nationwide culvert flushing work
- A direct contract with Auckland Council/ Transport, involving the cleaning and clearing of catchpits, soakholes, watercourses, culverts, megapits, special caged soakholes, sand filters and catchpit pollutant traps in the Isthmus South and East areas
- Subcontract cleaning/clearing of catchpits and soakholes, and CCTV drainage inspections, investigations and flushing services as required across Auckland
- Response to every storm event in Auckland in the last 20 years

On 3 July 2012, 22.2mm of rain in the space of just an hour and a half overwhelmed Auckland's stormwater network. Intergroup promptly mobilised plant and labour to 53 emergency flashflood calls from the Council call centre that day.

***"I had a call from Mr Hobson, who logged a job with us yesterday regarding flooding outside 9 Teviot Place Totaravale, just to say how appreciative he was of the contractors who came out and cleaned up the area, sucking up all the water, and removing leaves and rubbish etc. (He) said they left the street looking as though 'it' had never happened. He thought the guys were just brilliant."***

***- Christine Heys, Customer Services, Auckland Council***



***Maintenance keeps drains blockage free***



# BROOM BEAR ROAD SWEEPER

Safety issues get swept away. Introducing Intergroup's Broom Bear road sweeper. With big capacity and reach, Broom Bear's been designed to be dangerous on debris, but safe for the operator.





# INTERGROUP AND THE BROOM BEAR A POWERFUL COMBINATION.

## Broom Bear road sweeper - Tough on debris; easy on the operator

InterGroup has added to its fleet the new, state-of-the-art Broom Bear Road Sweeper.

The Broom Bear is one of the most rugged and efficient mechanical sweepers on the market today.

Broom Bear's flexibility means it can be used for:

- Residential street sweeping
- Motorway sweeping
- Milling cleanup
- Crosstown emergency cleanup
- Construction cleanup
- State highway and tollway sweeping
- Chip seal cleanup
- General urban street sweeping

### Speed and Efficiency

- Greater coverage - sweeps up to 3m width in one pass
- 12,000m<sup>2</sup> an hour (~10% faster than a miller)
- High-tip hopper working with a tip truck - never has to leave site
- Conveyor system for enhanced debris collection

- Greater water and hopper capacity – fewer stops, maximum uptime and profitability
- One vehicle does it all (no windows with tractor brooms, sucker trucks or hand sweepers)

### Value

- Greater fuel efficiency – single vehicle, single engine, greater coverage, fewer stops
- Can record waste/overchipping for future quantity amendment

### Safety and Environmental

- Fewer reversing manoeuvres due to greater capacity
- No need for hand sweepers – deft, long-reach gutter brooms and short wheelbase
- Reversing cameras and alarms
- Central controls – fully operable inside cab
- Fewer vehicles for traffic management
- Fuel efficiency reduces carbon footprint
- Higher driver position for improved vision
- Bigger, more visible operation
- Removes contaminants before they can enter/block storm drains

- Better dust suppression for public and worker health – constant water spray

### Reputation

- Enhanced performance mitigates public complaints re chip seal and millings (windscreens, car panelwork, tracking into garages and houses)
- Quieter - single engine, no vacuum fan, purely mechanical operation – hydraulically driven
- Minimises dust complaints
- In and out faster – minimal public disruption
- Manoeuvrability for performance in narrow streets, corners and cul-de-sacs

## Features and Specifications

### 1. Short Wheelbase

- 5.8m turning radius for manoeuvrability

### 2. Variable-Height Side-Shift Dump

- Unloading at heights from 80cm to 3m for easy roll off and clean dumping
- 30cm side shift capability for truck loading
- Up to 4.99 tonne capacity

*A 3m sweep on the Broom Bear keeps drains clear from blockages*



- 20-70 second dumping intervals

**3. Easy Access Controls and Flat Centre Console**

- Tactile for safety (maintain view of road)
- Central control of all sweep, dump, spray-water, conveyor and hopper operations

**4. Commercial Chassis/Single Engine**

- Powerful 230hp C7 Caterpillar engine
- Greater fuel efficiency, simple maintenance
- Freightliner Business Class chassis for safety and comfort

**5. Large Hopper**

- 50° dump angle for efficient offloading
- Increased capacity (4.1m<sup>3</sup>) for fewer stops

**6. Dual Side Brooms and Main Broom**

- Large 1.1m floating side brooms (four-way motion)
- Control of down/digging pressure and overall wear
- Up to 3.7m of coverage

- Fully floating main broom to avoid obstacles

**7. Large Water Tank System**

- 1,590L polyethylene removable tank for fewer stops
- 15gpm pump and 12 nozzles for effective dust control

**8. Powertrain**

- 3500 RDS transmission, 4.5 tonne front axle, 10.4 tonne 2-speed rear axle

**9. Conveyor System**

- Matched to broom speed for optimal loading
- Can be raised 8cm to avoid obstacles

**Customer satisfaction**

Over the last few years, Intergroup has used the Broom Bear successfully to clean up large volumes of loose chip on residential streets in Taupo, millings from pavement replacement work in Katikati, and for cleaning up reseal work right across the greater Auckland area.





# ROAD SWEEPING- REGENERATIVE

Intergroup has 30+ years of road sweeping experience across New Zealand. This has also involved work in urban environments requiring a high level of traffic management and noise control. Using us as your street cleaning provider will put you on the road to success.





# STREETS AHEAD OF THE COMPETITION.

## Capabilities

- One-off or cyclic road sweeping
- 24/7 emergency response

Our regenerative sweepers employ a closed loop, constantly re-circulating (regenerating) their air supply internally while cleaning.

The air is forced down onto the pavement on one side of the sweeping head, travels across the width of the head (collecting debris as it goes due to the air-swirling action of the head), and is then sucked up the pickup hose on the other side. Debris is removed from the air by centrifugal separation and retained in the hopper.

Gutter brooms on both sides of the machine help to brush material accumulated against the kerb into the path of the sweeper.

Compared with other sweepers, regenerative air sweepers have the following benefits:

- They can cover a wider area
- Because they air blast the pavement across the entire width of the sweeping head, they are also recognised as achieving a more thorough cleaning job over the entire pavement surface covered

- They can pick up smaller particles of debris - which are a leading cause of stormwater pollution and can also contribute to reduced air quality
- The closed loop prevents dust-laden air from being exhausted back into the atmosphere
- They are less expensive to operate and maintain (with fewer moving parts) – meaning savings can be passed on to customers

For this reason, they are typically considered the most effective sweeper type for areas requiring high-quality cleaning, such as:

- General urban street sweeping
- Residential street sweeping
- State highway and tollway sweeping
- Motorway sweeping

## Benefits to you

### Cost-Effectiveness, Speed and Efficiency

- A one-stop shop for all your road maintenance needs (sweeping and drainage maintenance)
- Logical and efficient cleaning regimes tailored to your needs, budget and programme

- Efficient truck utilisation – we select the right plant for job from our wide range of fleet
- Regenerative sweepers – full-width sweeping for speed and cost efficiency

### Risk Reduction and Reputation

- Removal of smaller particles of debris to reduce stormwater pollution
- Air recirculation in a closed loop reduces air pollution
- Containment of waste for safety and environmental protection
- Consented in-house dewatering, screening and mixing plant for waste minimisation
- Staff trained in safe work practices and traffic management
- Regular, quality maintenance will minimise flooding events, inconvenience and complaints

## Customer satisfaction

- Road sweeping and roadside drainage maintenance for Auckland Council/Transport and predecessors for the last 30 years –nobody



**Specialised catchpit trucks for faster cleaning**

knows the Auckland network better

- A direct road maintenance contract with Tauranga City Council
- Subcontract road maintenance services in Auckland, Christchurch and Taupo to large contracting companies such as Downer, Fulton Hogan, Transfield Services and HEB

### Success stories

***“Thanks for the great sweeping done on Thursday around the Dannemora area; it made a great improvement.”***

*Victoria Owen, Project Engineer, Transfield Services*

***“Downer has been using the services of Intergroup for over 10 years. During this time, we have found their performance to be consistently reliable, especially when it comes to emergency response. Their staff have an intimate knowledge of the roading and drainage network; plant is kept in excellent working condition with some great innovations introduced along the way.”***

*Simon Pollard, Contracts Manager, Downer*



***“Credit where credit due. This morning our street and footpaths had the best cleaning and sweeping... Looks a picture and long may it continue. Many thanks, much appreciated.”***

*Jock Ferguson, Takapuna resident*



# WATER CUTTING FOR ROADS AND RUNWAYS

More than just scratching the surface. Intergroup has rehabilitated road surfaces for improved friction from Cape Reinga to Marlborough, stripped rubber from Meremere racetrack and removed out of date airport runway markings.





# NEED TO GET A GRIP? CALL US.

## Water cutting capabilities

### Road surface rehabilitation:

- Water cutting of bitumen/asphaltic/concrete surfaces
- Restoration of road surfaces close to their original friction coefficients - for safer driving
- Preparation for resealing
- Removal of excess bituminous sheen and flushing
- Removal of algae, lichen, and other surface contamination in one hit
- Treatment of up to 1m in width in a single pass
- Ultra-high pressure water jetting units in a variety of configurations (to 55,000psi and 750hp)

### Line marking/rubber removal:

- Removal of markings (thermo plastic, cap, paint, rumble strip, anti-skid and many more)
- Removal of rubber build up
- Truck-mounted, containerised units quiet enough for work in built-up areas

## Other service options

### Vacuum loading:

- Easy removal of dry and wet waste
- Combination trucks (combining water jetting with vacuum loading) for efficiency

### Waste removal:

- Transport, delivery, dewatering, treatment and consented disposal of various waste types

### 24/7 emergency response:

- Rostered call-outs and surge capacity for availability, every time

### Total project management:

- Condition assessment, budgeting and maintenance planning right through to works management, fiscal control and quality assurance (to international standards)

## Benefits to you

### Cost-Effectiveness, Speed and Efficiency

- A one-stop shop for all your road maintenance needs
- Ultra high pressure water jetting - faster and more cost effective than resealing

- Deeper cutting for longer-lasting friction
- Multi-jet rotary units together with low flow - economical and ecologically-friendly
- 24/7 operations available to suit the location, road type, traffic and ambient temperatures
- Offloading/waste transfer and separate dewatering unit for continued operations

### Risk Reduction and Reputation

- Safer, non-slippery road surfaces
- Allows faster run off of rainwater - improving the driver's view of the carriageway
- Manoeuvrable rotary water cutters contain water pressure and provide safe operator distance
- Safety cameras, monitors, and hands-free headsets for live driver-operator communication
- Trained and experienced STMS for safety
- Containment of waste (with vacuum loading) for environmental protection - no slurry residue
- More environmentally friendly and less disruptive than resealing with new materials

## Removal of road markings and Lichen.



### Quality:

- Ultra high pressure water jetting (highest pressure in NZ) delivers streak-free surfaces close to their original friction coefficients
- Sand circle tests available to confirm finished texture

## Success stories

### Runways and Race Tracks

We have completed rubber removal from the starting position at Merimeri Race Track to prevent tear off from causing damage to the track surface and vehicles. With water cutting, we also quickly removed out-of-date runway number markings at Hamilton Airport.

### Roads

Intergroup has rehabilitated road surfaces from Cape Reinga to Marlborough for councils, road controlling authorities and contractors. This includes up to 65,000m<sup>2</sup> of road in Manawatu for Higgins, and a history of work for Fulton Hogan, HEB and Transfield Services. We have also removed line markings using water cutting

during the Tauranga Eastern Link project.

*“The guys at Intergroup were easy to get hold of and easy to work with. Their attitude was great, right down to the guys on site – they never grumbled. Their price was sharp and the work was quick. The finished product left us a good surface texture that will definitely increase safety on the road.”*

*Daniel Higgins, Supervisor, Higgins Contractors*



**Surface texture – the difference is clear!**



# VACUUM LOADING

Interclean provides vacuum loading for numerous clients in different sectors (including marine, industrial, local government, construction, dairy, civil contracting, and even fast foods) across New Zealand and internationally. With a focus on customer satisfaction, the only aspect of our service that 'sucks' is our vacuums.



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New Zealand's Infrastructure & Industrial Services Specialists

JUGGLER RECOVER / RECYCLE / REUSE

INTERGROUP

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HAZCHEM



# VACUUMS THAT REALLY SUCK. **SERVICE THAT DOESN'T.**

## Vacuum loading capabilities

- Removal of dry and wet waste
- Truck- or trailer-mounted mobile units - so we can come to you
- Varied fleet ranging from 3,000L to 24,000L capacity (truck and trailer) – selected to best suit different applications, access conditions and environments
- Wet or dry filtration methods for dust/small particle control
- Powerful vacuums for lifting in excess of 30m vertically and 200m horizontally (27" Hg)
- Excavated materials are immediately contained and removed from the worksite
- Dangerous goods certification, breathing apparatus and confined space entry available
- On-board waste separation and dewatering available for environmental friendliness and cost efficiency

## Other service options

### Water blasting:

- Cleaning of tanks, holding facilities etc.

### Waste removal:

- Transport, delivery, dewatering, treatment and consented disposal of various waste types

### Waste storage:

- Removal, storage and reinstatement of fuel and other materials for re-use

### 24/7 emergency response:

- Rostered call-outs and surge capacity for availability, every time
- Reactive response followed by proactive prevention measures

### Total project management option:

- Condition assessment, budgeting, advice and

maintenance planning right through to works management, fiscal control and quality assurance (to international standards)

## Applications

### Cleaning and maintenance of:

- Heavy oil tanks
- Fuel tanks
- Crude and sludge tanks (onshore and offshore)
- Septic tanks
- Greywater tanks
- Ballast tanks

## Benefits to you

### Cost-Effectiveness, Speed and Efficiency

- One-stop shop for your industrial services needs
- Wide selection of plant allows a tailored service to suit your needs, budget and programme
- Waste transfer/offloading capability allows continued operations for efficiency
- Powerful vacuums for maximum productivity



***Juggler trucks enable on-board separation and dewatering to reduce waste disposal***

- On-board dewatering to reduce disposal costs
- Risk Reduction and Reputation**
- Containment of waste for safety and environmental protection
  - Experienced staff trained in safe handling and confined space entry
  - 40 operators and a wide range of plant - rapid response to emergency call outs
  - Smart plant choices and operator experience reduce disruption in built-up areas
  - Consented facilities supply waste disposal certificates for proof of compliance
  - Dust control to reduce public complaints

**Success stories**

Intergroup provides vacuum loading for numerous clients in different industries, both across NZ and internationally.

This includes drainage maintenance (cesspit and soakhole cleaning), industrial services (various kinds of industrial waste), marine services (removal of sludge from ballast, fuel, sewage

and greywater tanks), liquid waste management (servicing of septic tanks and grease traps), drilling mud transportation and the removal of waste following road, runway and race track maintenance, pipeline flushing, hydroexcavation, hydrodemolition, concrete bowl cleaning, civil works, and more.

***“A gas outage crisis in late 2011 left us with approximately 200T of mixed raw materials in hoppers, which if left for too long would go hard and turn into concrete. Luckily for us, Intergroup were called out to site immediately. They worked day and night and completely emptied our hoppers. The quick response we got from the team was exceptional and they really saved us a lot of time and money, enabling us to get back up and running as quickly as possible.”***

*Ben Hansen, Batch and Furnace Manager, O I Glass*

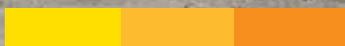


***Confined space vacuum loading completed safely***



# HYDRO EXCAVATION

A new wave in excavation. Using high-pressure water and a powerful vacuum to remove debris, hydroexcavation sounds tough, but it's gentle on services and tree roots.





# EXCAVATION RISKS GET WASHED AWAY.

## Hydroexcavators - The gentle giants of excavation

Intergroup 'set the standard' for hydroexcavation in New Zealand.

### Hydroexcavation:

- High-pressure water instead of manual chipping
- Will not damage services or tree roots – ideal in urban environments
- Is more precise than standard excavators, and faster than hand digging
- Removes clay and soil, gravels, basecourse, and rocks ranging to the size of a fist
- Has been made mandatory in overseas cities e.g. Brisbane (following a three-day power outage caused by a service strike).

### Combined power and accuracy for:

- Open trenching – without prior potholing
- Working around tree roots/services
- Potholing and investigation
- Services identification/confirmation
- Lighting pole installation
- Pile drilling

## Benefits to you

### Speed and Efficiency

- At least 3x faster than hand digging
- Confident drilling around tree roots and services
- No need to waste time and money on potholing prior to open trenching
- One vehicle does it all – no need for excavators, dump trucks and hand diggers
- Greater capacity water and waste holding – can run all day without leaving site
- Large fleet for nationwide availability
- Experienced crews adjust pressures and methods for optimal productivity

### Removes Risk

- Greater precision than standard excavators
- Won't cut through services
- Reduced risk of electrocution and explosion
- Reduced risk of liquidated damages
- Won't cut through tree roots – resource consent compliance and arborist satisfaction

### Reputation

- All waste contained in vacuum tank – no mess

in residential/commercial areas

- No complaints about services interruptions to homes, shops and offices
- Dust all but eliminated
- No harm to heritage/protected trees

## Features and Specifications

### 1. Powerful Water Jet

- Optimised pressures and flow rates for maximum cutting with minimum waste
- Hand held for precision

### 2. Large Water Tank System

- Capacity to last a whole day without stopping
- Refillable from road hydrants if required

### 3. Manoeuvrable Boom

- 360° rotation for flexibility
- Telescopic for maximum reach - and the ability to attach extra hoses as required
- Radio controlled for safety
- ≥27" of mercury vacuum loading
- Effective size ranges from 100mm to 400mm for variable power and precision



**Hydroexcavation allows you to safely dig without fear of hitting underground pipes or wires while keeping mess and scarring to a minimum.**

- Optimal airflow to prevent blockages
- Head attachment for pile drilling/street light bases (custom designed by Intergroup)

#### 4. Large Hopper

- All vacuumed solids and liquids contained in 8-15m<sup>3</sup> capacity vacuum tank
- Shuttle vacuum truck for onsite unloading

#### 5. Full Range of Safety Features

- GPS, beacons and alarms
- Earthing rods & wires; rubber-insulated top
- Gas detectors (as required)

### Success Stories

#### Ultra-Fast Broadband Network

- Excavation for open trenching without the need for initial potholing
- No risk of services strike or tree root damage

#### Victoria Park Tunnel - Auckland

- Exploratory holes uncovered two unknown power lines

- Removed risk of strike to main fibre optic cable connection with Australia
- Numerous archaeological finds without any damage

#### Alfred Street Upgrade- Auckland

- No damage to heritage Plane Tree roots

#### Lighting Pole Installation - Kumeu, Henderson and Otahuhu

- No augering or service damage

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*"The Intergroup guys are good value. They're easy to work with and have the right attitude. We can all work together as a team and do what needs to be done."*

*It was 7.30 at night and the hydroexcavator operator had packed up and was already on his way home. We called him up with an unexpected problem and he came right back to help. They just do what's required to help out.*

*You can't fault the hydroexcavators. They make*

*my life easier. You don't have to clear any mess away. They eliminate the need for diggers and productivity is much faster than hand digging – without a doubt.*

*If the arborists know you're using hydroexcavators, they know you're not ripping roots up out of the ground so they don't have to look over your shoulder with a clipboard.*

*There've been no strikes to services at all. We'll be using hydroexcavators for the full eight years on this job. I see Council making hydroexcavators for potholing compulsory in future. It just eliminates the risk."*

*- Cain Simpson, Foreman, Leighton Contractors*



# OUR SERVICES

Abseiling  
Abrasive blasting and industrial coatings  
CCTV (drain & pipe inspection)  
Civil construction  
Project management and consulting  
Concrete bowl cleaning  
Drainage maintenance  
Hydrodemolition  
Hydroexcavation  
Liquid waste management  
Road sweeping and maintenance  
Specialist industrial services  
Specialist marine services  
Ultra-high pressure water jetting  
Vacuum loading  
Water cutting for roads, runways and racetracks



## INTERGROUP

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