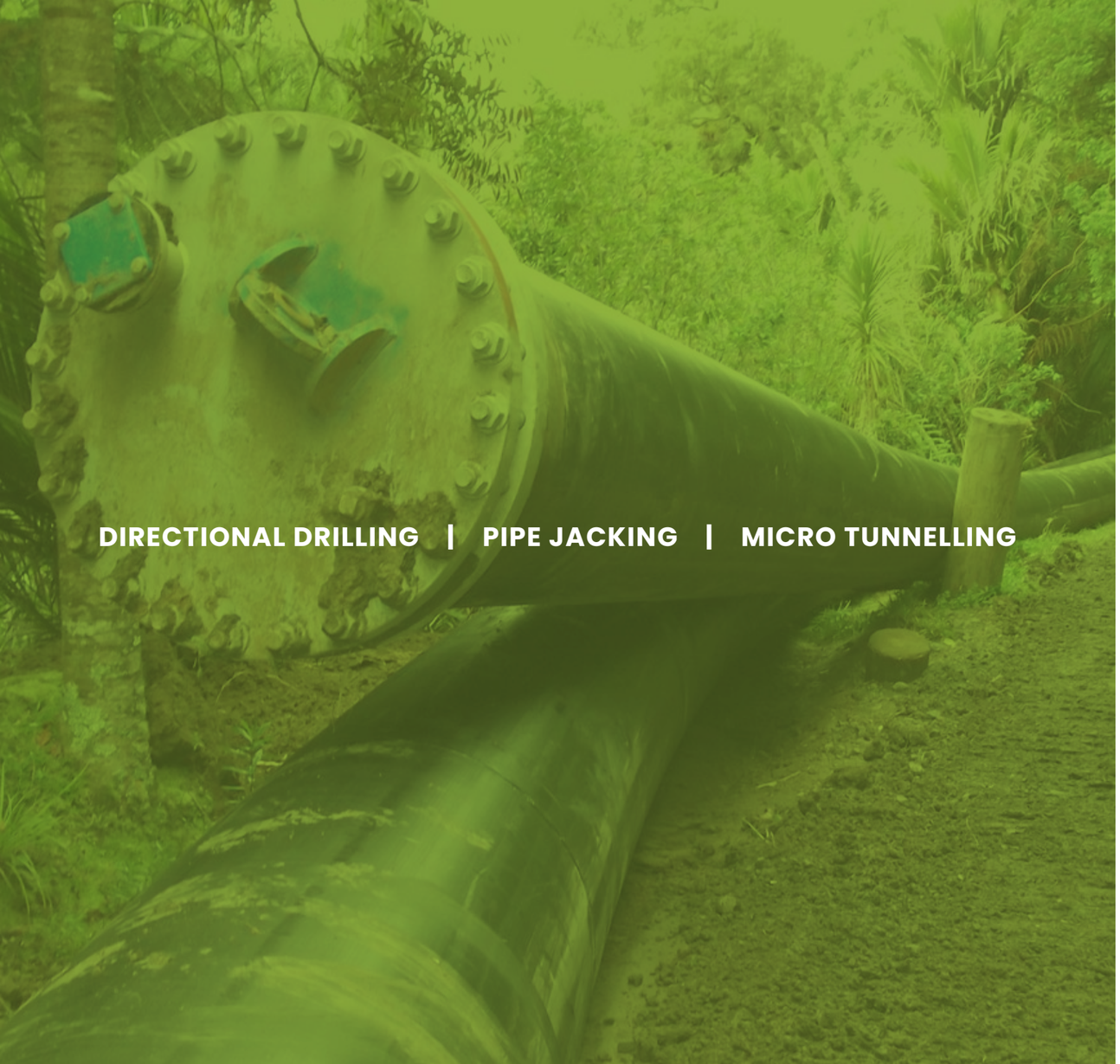

UNIVERSAL
UNDERGROUND



ABOUT US

OUR HISTORY

As one of New Zealand's leading underground utility contractors, Universal Underground brings experience, passion, and environmental awareness to every project we touch.

We welcome a challenge and have developed a well-rounded reputation for excellence, backed by our professional and efficient approach to every project.

SPECIALISTS IN
UNDER
GROUND
UTILITY
INSTALLATION

2006	Central Drilling Ltd incorporated. Owners Tim Mitchell and Gary Clarke. Formed to supply HDD services to FX Networks.
2008	Neil Vanner joined as Contracts Engineer. JT30 Drill rig and support equipment purchased.
2010	Maxi Rig purchased to undertake a large WaterCare project. Company name changed to Universal Underground.
2014	First under crossing of the Waikato River.
2013	Wellington Memorial Park project completed using ParaTrack-2 wire tracking.
2017	Purchased JT60 Ditchwitch drill rig with mud motor for hard rock drilling.
2019	Undertook first pipe jack/HDD combination project.
2020	Two additional Super sucker hydro vacs added to vacuum truck fleet.



OUR SERVICES

DIRECTIONAL DRILLING

When open excavations aren't feasible and experience matters, UUL provide expert horizontal direction drilling services for the installation of utility pipelines and conduits.

UUL has successfully completed HDD crossings across New Zealand and our record-setting Waitakare Ranges project is a testament to our highly respected HDD staff.

Regardless of scope, size or location, our trenchless technology ensures we can install underground utilities, such as gas, water, sewer, and fibre optic lines, with minimal environmental disturbance. With unparalleled service, our team will strive to ensure your project exceeds expectations, delivered on time and budget.





OUR SERVICES

PIPE JACKING

A specialist tunnelling method for the installation of underground pipelines where minimal surface disruption is required.

UUL's powerful hydraulic jacks are used to drive concrete pipes through the ground while the spoil is excavated by workers or by mechanical means inside a jacking pit.

UUL has been providing pipe jacking services to the New Zealand market since 2018 specialising in the installation of carrier pipes for water, sewer, stormwater and wastewater.



OUR SERVICES

MICRO TUNNELLING / BORING

Micro tunnelling is a versatile and reliable way to install utilities in small diameter tunnels to very tight grade tolerances.

Remotely controlled and laser-guided, micro tunnelling is a highly accurate method of pipe installation to grade and UUL has machines capable of tunnelling up to 200m.

Micro tunnelling provides a lower risk of caving and settlement of roadways, buildings, and adjacent facilities, making it the ideal solution for road and railways, and for when highly graded options are required such as wastewater and stormwater installations.

EQUIPMENT

OUR FLEET

With a fleet of dependable drill rigs and trucks, Universal Underground is well-equipped to tackle challenging projects, large or small.

UNIVERSAL	200X240	200,000lb
DITCHWITCH	JT60	60,000lb
	JT30	30,000lb
	20/20	20,000lb
VERMEER	24/40	24,000lb











PROJECT PROFILE

MEMORIAL PARK

- 710MM DIAMETER STORMWATER PIPE INSTALLATION
- SITE OF NATIONAL HISTORICAL IMPORTANCE
- ROBBINS UNIVERSAL 200X240 HDD RIG
- UUL FLUID RECYCLING PLANT

Credited for their vast experience and accurate drilling operations, the experts at UUL were selected to undertake the Memorial Park HDD project, and the installation of a gravity pipeline near Wellington's National War Memorial.

With challenging ground conditions, the team at UUL was able to accurately place the pipeline utilising a ParaTrack-2 location system. Due to issues with manmade electromagnetic interferences, this location technology was combined with a DCI Eclipse transmitter to provide additional comparative information to the drill operator.

The technically difficult project, which required a high level of time management and communication, was completed with optimal accuracy in testing and hugely variable conditions.











PROJECT PROFILE

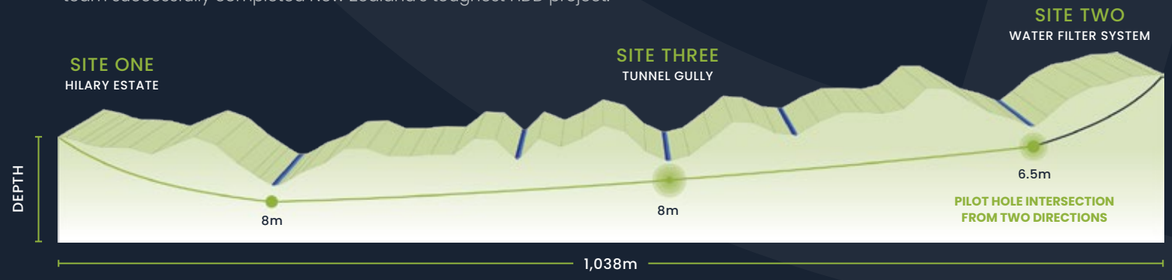
WAITAKERE RANGES

- 1038M OF TUNNEL WITH 200 TONS OF PIPE
- ROBBINS UNIVERSAL 200X240 HDD RIG
- DITCHWITCH JT30
- MUD MOTOR WITH DIGITRAK MAGNETIC STEERING SYSTEM

Replacement of a failing WWII era cast iron water main, with a new siphon pipeline to increase capacity, improve efficiency and provide a minimal maintenance solution.

An extremely challenging project, in a sensitive ecological environment across three separate drill sites, the UUL team successfully navigated rugged topography, dense bush and five streams to intersect twin drill holes in opposing directions.

A range of specialist equipment, including a mud motor with a Digitrak magnetic steering tool and vertical drill rig, was used to ensure the UUL team successfully completed New Zealand's toughest HDD project.







PROJECT PROFILE

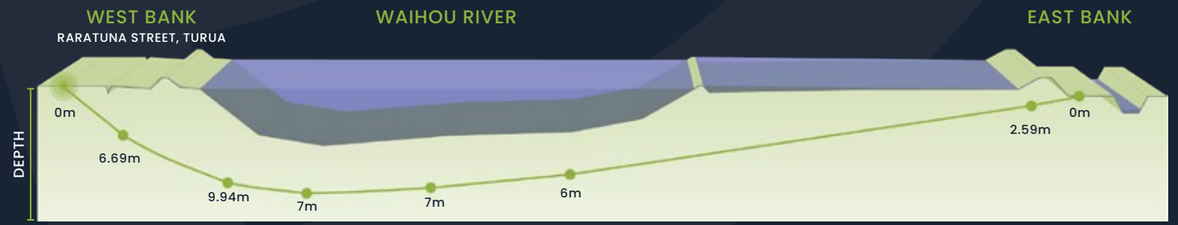
WAIHOU RIVER

- 500M RIVER CROSSING
- 160MM DIAMETER PE PIPE IN 17M
- ZERO ENVIRONMENTAL EFFECT

Replacement of a strategic power cable underneath the Waihou River required specialist equipment and expert services from the UUL team.

Locating the drill head seven metres below the riverbed, and six metres below the water, meant standard location equipment could not be utilised. Instead, an SST transmitter, which senses the earth's magnetic field to obtain its bearings before sending this information to the drill operator, was used to accurately control the drill head.

Having completed the textbook river crossing with professionalism and the right equipment, the UUL team handed the project back over to the client.



PROJECT PROFILE

COBHAM DRIVE

- WORLD-FIRST HDD/PIPE JACKING INTEGRATION
- 1.8M DIAMETER PIPE
- ROBBINS UNIVERSAL 200X240 HDD RIG

Innovation was at the heart of UUL's successful completion of a stormwater pipe upgrade beneath Hamilton City's four-lane, Cobham Drive highway.

A combination of pipe jacking and HDD allowed for this heavily complex project to be completed quickly.

An initial jacking pit construction, used to establish an accurate 0.2% grade pilot hole, allowed for UUL's large Universal rig to be installed and operated as a directional drill/pipe jacking operation. Despite encountering an unexpected abandoned 600mm diameter concrete pipe 10m into the shot, UUL's expertise meant they could navigate this challenge and complete the project without requiring an expensive traditional TBM operation.







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