



BRC

PILING AND FOUNDATIONS

GEOTECH
SOLUTIONS FOR
**THE STRUCTURES
OF TOMORROW**

CAPABILITY STATEMENT
2024-25

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ACKNOWLEDGEMENT OF COUNTRY

BRC acknowledges First Nations Australians as the Traditional Owners of the land and sea upon which we work. We recognise their living cultural and natural landscapes and pay our respects to Elders past, present and emerging.

ABOUT US

BRC

BRC has forged a reputation for the design and delivery of high quality piling, retaining walls and foundation support systems over 35 years in operation. We are a trusted contractor for the delivery of specialist geotech solutions to support commercial, public infrastructure, industrial and mining projects.

Established in Victoria since 1988, BRC operates Australia wide, with offices in Melbourne and Brisbane. Our people can apply extensive geotechnical engineering knowledge of to accommodate complex subsurface conditions – above and below the water table – Australia wide.

With a fleet of specialist rigs and tooling, as well as ISO certified quality, safety and environmental management systems, we have the capability and capacity to meet site and project specific requirements in metro, regional, remote or marine locations.

BRC Piling & Foundations Pty Ltd is incorporated and domiciled in Australia, with a new management team in place since 2018 following our acquisition by Delta Group.



DELTA GROUP

Delta Group is a diversified contractor with more than 35 years of experience delivering complex structural demolition, civil and environmental engineering, and project management solutions to blue chip commercial and industrial clients.

As one of the largest contractors of their type in the world today, Delta Group has the financial, operational and organisational capacity to manage hundreds of projects at any one time.



REVENUE

FY23
\$952m

FY22
\$850m

FY21
\$640m

FY20
\$618m

FY19
\$478m



PROJECTS DELIVERED

2023
848

2022
732

2021
634

2020
538

2019
520



Our people are what set us apart and why our clients trust us to deliver complex geotech solutions on time, on budget and without incident. **We solve problems others can't or won't. We work hard. We work together. And we deliver what we say we will**

OUR PEOPLE



JOSH MURRAY BE, BBUS
MANAGER

After 7 years of experience as Project Manager for Delta Group's Victoria, New South Wales and South Australian Divisions, Josh joined BRC Piling & Foundations to lead delivery as Construction Manager in mid 2020. Following a restructure of the business under new (private) owners Josh was promoted to Manager to lead the business from mid 2022. With an exceptional eye for detail, strong leadership qualities and business acumen, and in depth knowledge of civil construction and engineering – from estimating to site based programming and sequencing of works – Josh has driven recent growth and expansion in Victoria and beyond.



DEAN TOYAHN
OPERATIONS MANAGER

Dean is a widely respected construction industry veteran, with more than 22 years experience and unparalleled knowledge of specialist piling and foundations works. Having joined BRC in 2001, there's very little Dean has not experienced on a construction site – metro, regional, remote or marine. His leadership qualities, understanding of IR, site safety and enviro controls, QA, and knowledge of specialist machinery for all ground conditions are what drive our people to deliver our projects on time, on budget and without incident.



DANIEL RYAN BSC, MENG
SENIOR PROJECT MANAGER

With more than 6 years' experience as a civil construction engineer for Delta Group across Victoria and South Australia Divisions where he played a key role in establishing Delta Group in SA, Danny joined BRC Piling & Foundations as Senior Project Manager in 2022. His understanding of complex civil construction and engineering methods across large, medium and small or boutique project scopes ensures the safe and timely delivery of our specialist piling and foundations services. His experience involving a range of subsurface conditions and geotechnical challenges drives high quality outcomes and the effective sequencing of people and plant to exceed client expectations.



RUHUL KHAN BENG, MENG, PHD (GEOTECH), MIEAUST, CPENG, NER, PE/RBP, RPEQ
PRINCIPAL DESIGN ENGINEER

Ruhul brings more than 20 years' experience as a Principal Design Engineer to BRC. Prior to joining the team, he worked as a senior and principal design engineer for GHD and AECOM Australia, as well as a consulting geotechnical design engineer on major infrastructure and marine-mining projects. Ruhul has led the introduction of 2D and 3D Finite Element Modelling Programs in addition to traditional piling, structural and geotechnical design software, and is responsible for reviewing all designs as sound, feasible, sustainable and safe solutions. Should non-conformances arise during construction, Ruhul will manage and resolve any matter through to close out.

OUR PURPOSE

We exist to deliver geotech solutions for the structures of tomorrow.

OUR VALUES

SAFETY

Safety is ingrained in our culture, guiding every aspect of our operations. We prioritise the well-being of our team, stakeholders, and the environment through rigorous standards and proactive measures. With advanced technologies and expert practices, we foster a safety-first environment, ensuring reliable and responsible piling solutions that set the standard for safety excellence in our industry.

QUALITY

We are dedicated to delivering unparalleled quality in every aspect of our piling solutions. Our commitment to excellence drives us to employ cutting-edge technology, adhere to rigorous industry standards, and leverage our expertise to ensure robust, durable, and precise results. We strive to exceed expectations, providing clients with reliable, innovative solutions that stand the test of time.

HONESTY

Honesty is the cornerstone of our operations. We uphold the highest ethical standards in all our dealings, fostering transparent communication and trust with our clients, partners, and stakeholders. With integrity as a guiding principle, we deliver reliable piling solutions, ensuring accountability and mutual respect in every project we undertake.

PROBLEM SOLVING

We excel in innovative problem-solving to deliver effective piling and geotechnical solutions tailored to our clients' unique challenges. With a proactive approach and expertise in advanced techniques, we navigate complexities with precision and creativity. Our commitment to solving problems efficiently ensures successful project outcomes and client satisfaction, setting us apart as leaders in the industry.

COLLABORATION

Collaboration is key to our success. We value partnerships built on mutual respect and open communication, working closely with clients, engineers, and stakeholders to achieve shared goals. By fostering collaborative relationships, we leverage diverse perspectives and expertise to innovate and deliver superior piling solutions that meet and exceed expectations, ensuring lasting success for all involved. We are proud that over 70% of our revenue is generated through repeat clients.

ACCOUNTABILITY

Accountability is fundamental to our approach. We take ownership of our commitments, ensuring transparency and reliability in every project. Through meticulous planning and execution, we uphold industry standards and client expectations, delivering piling solutions with integrity and precision. Our dedication to accountability fosters trust and satisfaction, reinforcing our reputation as a dependable leader in the industry.

Whether it's temporary or permanent structural support systems, challenging subsurface soil conditions, or restricted site access and adjacent structure protection – **we pride ourselves on the capability to deliver for our clients**



FOUNDATION PILING

Foundation piling involves the installation of deep, well-designed piles to support and stabilise structures. Our piling expertise has been called upon to support residential, commercial, and industrial projects, together with our qualified and experienced team and company owned fleet of specialist plant and equipment.

BORED PILES

Bored piles can be used in constructing retaining walls, as stand-alone foundations, or as part of a group of capped piles. Cast in place with high capacity, bored piles are excellent for deep excavations with nearby adjacent structures, as well as public infrastructure projects involving tunnels, roads and bridges. Bored piles come in a variety of lengths, diameters, shapes and materials, and are suitable in all soil conditions.

CFA PILES

Continuous Flight Auger (CFA) Piles are cast in-place piles constructed by pumping concrete down a hollow stemmed auger. This process allows cost effective construction in poor ground conditions. CFA piling provides reduced vibration and noise emission compared with some other techniques.

MICRO PILES

Micro piling works are undertaken to overcome a range of complex or variable subsurface conditions – including mid-works modifications to accommodate changing soil profiles. BRC have the rigs and tooling to carry out micro piling works to support different structures and loads, as well as site specific geotechnical requirements.

SPECIALIST PILING

Our team possesses extensive marine and large open bored piling experience. With our innovative approaches and meticulous attention to detail, we deliver outstanding results in challenging ground conditions and complex construction environments.

LARGE OPEN BORED PILING

BRC are highly regarded for our capacity to deliver complex piling solutions involving large open bored piles in challenging and variable subsurface conditions. Our company owned fleet include 135t SR100 and 90t SR95 drill rigs with the capability to install piles up to 4m in diameter and 100m in depth.

MARINE

Whether it is bridges, pontoons, jetties or piers in fresh and saltwater marine environments, BRC Piling & Foundations have experience in the design and delivery of specialist marine piling solutions. We have the lightweight rigs and tooling to accommodate work from a piling barge or site specific makeshift structure, including craneage and rigging solutions to complete over-water tremie pours.



EARTH RETENTION

When it comes to earth retention, BRC offers top-tier solutions tailored to site and/or project specific needs. Our earth retention services encompass a range of methods designed to secure soil and prevent its movement or collapse. We utilise advanced engineering practices to create retaining walls, soldier piles, and other structures that provide stability and support for excavations, embankments and more.

GROUND ANCHORS

Ground anchors are an effective method to counteract forces that could destabilise structures and foundations and can be used in all soil types. Ground anchors can be used as a stand alone shoring or retention solution, or as part of an integrated ground engineering solution where they can reduce pile diameters, size and distancing.

SOIL NAILS

Congested site footprints and strict programming or sequencing of civil works are common on suburban and CBD construction sites. Soil nails offer a range of advantages where soil conditions allow, including fast and cost efficient installation at the same time as excavation works begin, as well as smaller and more agile plant, or suspended (crane) work platforms.

SECANT PILES & CONTIGUOUS PILES

Secant and Contiguous Piles are common embedded retaining wall methods that allow for construction of below ground structures extending to site boundaries. For deeper excavations, particularly in CBD locations, Secant and Contiguous Piles minimise vibrations and can support loads from adjacent structures, and can be propped or cantilevered depending on site and project specific requirements.

SOLDIER PILES

Soldier Piles are another form of embedded retaining wall which allow for excavations to proceed and lower the ground level in front of the wall. As excavations progress, the retained height of the wall can be increased using propping or ground anchoring methods. Shotcrete Piles are most commonly used in single sided basement (embedded retaining) walls that have been constructed with Secant or Contiguous Piles.

SHEET PILES

Sheet piling is most commonly used to provide temporary excavation support for the construction of basement structures, including below ground car parks and lift cores. Sheet piles are also common to specialist marine works programmes involving coffer dams or seawalls and riverbank protection. Sheet piles are installed in sequences and can be constructed of recycled steel and re-used.



OUR CLIENTS



Thanks to the entire BRC team, including the design and execution teams. Your outstanding efforts in completing the programme ahead of the completion date will contribute to the overall success of our project.

Ali Baluwala
SENIOR PROJECT MANAGER
DELTA GROUP

From initial tender to project completion, BRC were open and easy to work with. Despite numerous challenges outside of their control, they comfortably completed their bored piling scope within a tight rail occupation program, all while working to high quality and safety standards. The crews on site were professional and hardworking, with all requests from the head contractor taken on board and actioned without fail. Would be very keen to work with BRC again on future projects.

Alex Greaves
SENIOR PROJECT ENGINEER
DJILANG ALLIANCE VIC

TESTIMONIALS

BRC Piling Supervisor Brent 'Keno' Pereira runs a great worksite where all his operators are approved on 3D Safety, signed onto 3D Safety and SWMS, carry out their START Cards, Daily Plant Inspections, all plant inducted and all workers are aware of their job roles and work to them well.

Robin Williams
SAFETY MANAGER, SOMERTON INTERMODAL TERMINAL
ACCIONA

BRC we're great to work with on our Hampton Hill development, as they have been for many years over multiple developments. They are always willing to help out where they can, are very organised and work with you to get the best outcome possible. I look forward to continuing our relationship into the future.

Vaughen Halifax
PROJECT MANAGER
LOWE GROUP



We're fiercely proud of what we have achieved and why. Our people, plant and management systems are proven in all subsurface conditions, and our reputation for **large open bored piling solutions** involving up to 5m in diameter is second to none

OUR PROJECTS

SOUTH GEELONG TO WAURN PONDS DUPLICATION PROJECT

Djilang Alliance

The South Geelong to Waurn Ponds Duplication Project involved the expansion of the train track alignment in South Geelong on behalf of Djilang Alliance. BRC provided services such as bored piles, soil nails and sheet piles. The project faced challenges due to difficult ground conditions and the proximity of fully operational rail corridor. BRC successfully installed 19 bored piles, totaling 10m in depth, along with 332m³ of concrete and 70t of steel for cages. The project adhered to strict government regulations and maintained a focus on quality, safety and environmental compliance.

SCOPE OF WORKS

- Install piles along the train track alignment
- Mobilise necessary equipment and resources
- Excavate pile locations
- Inspections to ensure compliance
- Check pile integrity tests
- Prepare and submit ITPs on pile installation activities
- Supply and install reinforcement cages
- Supply and install concrete using under water 'tremmie' technique

UNIQUE ATTRIBUTES

- Adherence to rail work regulations and guidelines, including live rail corridor
- RIW workforce training and certification
- Key stakeholder engagement as a result of high-profile government funded project

KEY CHALLENGES

- Heavy basaltic clay subsurface conditions requiring specialised piling techniques
- Hard basalt rock layer beneath the clay requiring drilling through rock for pile installation
- Construction area within the vicinity of a live rail corridor, including coordination and implementation of safety measures
- Presence of groundwater across construction area, including implementation of drainage measure

KEY OUTPUTS

19 BORED PILES

pile diameter 1050 and 1350mm, depth around 10m

332M³ CONCRETE

70T STEEL

for cages

TWO WEEKS

time taken to complete this job with two crews

OUR PROJECTS

MICROSOFT DATA CENTRE TRUGANINA

Kapitol Group

Kapitol Group engaged BRC Piling & Restorations for the construction of a 120,000m² facility for Microsoft in Truganina, Victoria. BRC provided a comprehensive range of services, including bored piles, soil nails, and sheet piles. The project faced challenges such as variable subsurface conditions and strict environmental controls. BRC ensured high-quality standards through daily records maintenance, load and integrity testing, and compliance with the client's safety management system. The project was successfully completed within the specified timeframe.

SCOPE OF WORKS

- Installation of open bored piles to support construction of 120,000m² datacentre facility for Microsoft
- Supply and placement of reo and concrete
- Piling testing including dynamic load and integrity testing

UNIQUE ATTRIBUTES

- Ground conditions consisted of heavy basaltic clay, with very hard basalt rock beneath
- Drilling undertaken through rock and all piles socketed in rock
- High profile project and local community (stakeholder) engagement

KEY CHALLENGES

- Highly variable subsurface conditions – site wide and at depth
- Supply, storage and sequencing of straight, dogged and threaded bar cages
- Sequencing and operations of up to 6 drill rigs working simultaneously across site
- Strict environmental controls and QA standards met throughout works

KEY OUTPUTS

1,153 BORED PILES

installed, ranging between 1.5m – 17m deep and 450mm – 900 mm diameter

22 BORED PILES PER DAY

OUR PROJECTS

HAMPTON HILL

Lowe Group

Lowe Group engaged BRC to deliver piling and foundation works to support the Hampton Hill residential development in suburban Melbourne. Comprising 30 high-end residences and two luxury penthouses when finished, the site was located close to Port Phillip Bay and involved variable (and contaminated) subsurface conditions for the three level, 1500m² basement construction. BRC delivered high quality works on time, on budget and without incident – including strict environmental controls to minimise noise, dust and vibrations for local residents and businesses.

SCOPE OF WORKS

- Design and construct solution for piling platform; retention piles; capping beam structures; temporary retention anchors; and shotcrete walls
- Bulk excavations and disposal, including contaminated soil
- Noise, dust and vibration controls
- Traffic management

UNIQUE ATTRIBUTES

- Ground conditions comprised fill material, silty sand and silty clay
- Deep and large basement – up to 3 x 1,500m² levels
- Highly specialist techniques and geotechnical methodologies, including CFA
- Contaminated soil management
- Greenstar reporting requirements

KEY CHALLENGES

- Highly variable ground conditions across the site calling for different piling techniques
- Stakeholder management, including local council, adjacent residents and building tenants/owners
- Time restricted access and congested site location
- Management of programme to accommodate concurrent demolition works, construction of piling platform construction, and capping beam construction

KEY OUTPUTS

28,000M³

bulk excavations, including 16,000m³ contaminated soil

78 RETENTION PILES

(600mm diameter) up to 14m deep

1,600M³ CONCRETE

95T STEEL

OUR PROJECTS

600 COLLINS STREET

Delta Group

Delta Group engaged BRC Piling & Foundations to support civil engineering and construction works for 600 Collins – a 670,000 square foot, 180 metre high office tower in the heart of Melbourne CBD. BRC delivered a design and construct solution for medium-large diameter bored piles on time, on budget and without incident – while also complying with strict environmental standards to achieve the 6 star Greenstar and 6 star NABERS energy rating, as well as Platinum WELL Certification for shell and core – making 600 Collins one of the most energy efficient and sustainable buildings in Australia.

SCOPE OF WORKS

- Design and construct solution for load-out piling platform; retention piles; and foundation piles
- Bulk excavations
- Noise, dust and vibration controls
- Traffic management

UNIQUE ATTRIBUTES

- 3 level basement more than 16m deep
- Ground water throughout site
- Concurrent operation of 3 piling rigs

KEY CHALLENGES

- Management of ground water
- Stakeholder management – residents, adjacent building tenants/owners and local council
- Piling works up against adjacent buildings to maximise basement footprint for client
- Restricted site access and heavily congested (traffic) location

KEY OUTPUTS

14 PILES PER DAY AT PEAK

135 BORED PILES
at 600mm, 750mm and 900mm diameter

750M³ EXCAVATIONS

2,000LM OF PILE

OUR PROJECTS

GOLDEN PLAINS WIND FARM

CPP

CPP contracted BRC Piling & Foundations to deliver Geotech solutions to support the construction of wind turbines and electrical infrastructure in regional Victoria. Our D&C solution for Temporary Works included bored piles, HD bolts and supply and placement of reo and concrete. Over the course of the five month project we delivered 51 bored piles 2.6m diameter - drilled through hard rock – with 1,100m³ of concrete poured and 181t of steel reinforcement placed.

SCOPE OF WORKS

- Design & Construct solution for Temporary Works
- Bored piles
- Installation of HD bolts
- Run PIT / sanity pile tests
- Project management and QA

UNIQUE ATTRIBUTES

- Soil conditions, including SW to Fresh Basalt
- Highly specialist techniques and methodologies
- Works conducted in close proximity to HV transmission lines
- Regional/remote location

KEY CHALLENGES

- Changing ground conditions across the site demanded various piling techniques
- Key stakeholder engagement, including Ausnet, landowners and client
- Compressed programme of works and large site footprint requiring mobilisation of people and plant at long distances
- Strict enviro controls to minimise noise, vibrations and dust

KEY OUTPUTS

51 BORED PILES
up to 2.6m diameter

1,100M³
CONCRETE

181T STEEL REO

HD BOLTS
up to 3t in weight

FLEET CAPABILITIES

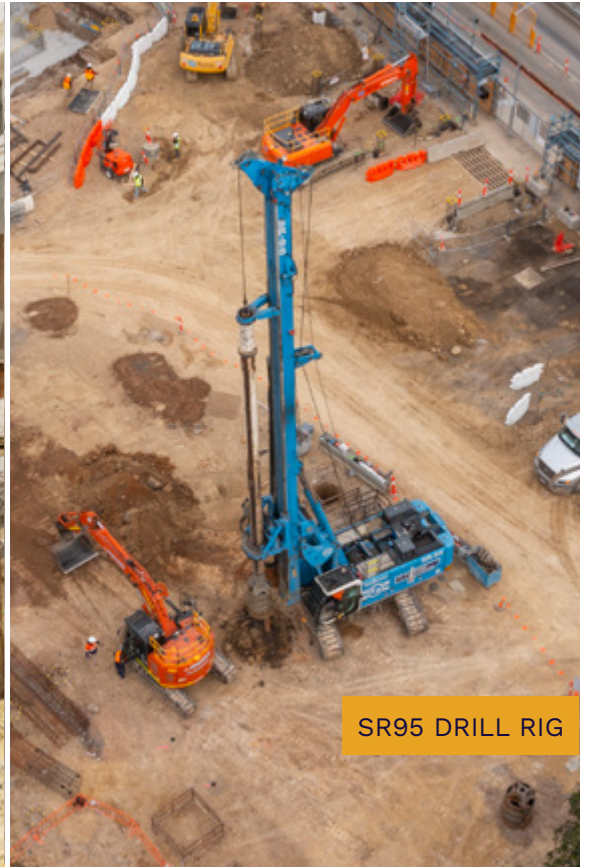
Established since 1988, BRC owns and operates a specialist fleet of piling equipment. Regularly upgraded and meticulously maintained to exacting OEM, regulatory and client requirements, our fleet, tooling and transport logistics capabilities allow us to meet the requirements of concurrent and consecutive work programmes on multiple project sites.

MACHINE	SR100	SR105	B300	SR95	SR65	SR60	SR45	SR40	SR30	S60	BABY MAIT
Operating Weight	135t	115t	100t	90t	65t	60t	40t	40t	35t	20t	8t
Typical pile size	4000-750	2400-600	2400-600	2400-600	2100-450	2100-450	1500-450	1500-450	1500-450	1050-300	800-300
Pile Depth	100m	50m	50m	50m	45m	45m	30m	30m	20m	15m	15m
CFA Piles			●		●	●	●	●		●	
Enlarged Base Piles	●	●	●	●	●	●	●	●	●	●	
Contiguous Piles	●	●	●	●	●	●	●	●	●	●	●
Secant Piles	●	●	●	●	●	●	●			●	
Light Weight Machine										●	●
Close to Wall Application						●	●	●	●	●	●
Limited Head Room Access										●	●

FLEET CAPABILITIES



BABY MAIT DRILL RIG



SR95 DRILL RIG



JD 1400E DRILL RIG



QUALITY ASSURANCE

Our triple certified ISO 9001 Quality, ISO 45001 Safety and ISO1 14001 Environmental Management Systems are best-in-class.

They are supported by a team of experienced and qualified geotechnical design engineers with a strong track record of delivery to match site specific subsurface conditions alongside our client’s construction objectives.

Whether it is troubleshooting unique geotech conditions as a project is being delivered, liaising with client engineers and consultants, or preparing tender and contract designs as part of the pre-construction process, BRC work incredibly hard both teams have worked incredibly hard to deliver practical design solutions that maintain exceptional QA standards.



INDUSTRIAL RELATIONS

BRC has a long history of harmonious, productive and proactive working relationships with its employees and peak Australian employee organisations for more than 30 years. Our Enterprise Agreements are registered with Fair Work Australia and we have never been subject to direct (protected or unprotected) industrial action at any time or on any project site Australia wide.



INSURANCES & LICENSING

All BRC workers hold and maintain the relevant individual competencies to perform the work required and to operate plant or equipment. Prior to commencement of works, site approvals and/or permits will be obtained from all relevant authorities relating to the contract scope of works. BRC maintains the relevant corporate licenses and insurances in accordance with best practice risk management and corporate governance protocols.



SOCIAL PROCUREMENT

BRC monitors and reports on project specific social procurement outcomes, including (but not limited to):

- Social benefits expenditure
- Social benefits workhours
- Apprentices and trainees workhours
- Interns, cadets and graduates workhours

SOCIAL TRADERS

As a subsidiary of Delta Group, BRC benefits from membership of Social Traders – the pioneers of social enterprise procurement in Australia. Social Traders provide support to business and government members seeking to contribute to positive social and environmental change.

GENDER EQUALITY

BRC employs a range of strategies and measures to improve gender equality and diversity across our business. In particular, we have established a Gender Equity Action Plan that will support project specific targets as well as to comply with our Federal and State/Territory statutory obligations.

EMISSIONS MONITORING

We aspire to play an active role in Australia's transition to Net Zero emissions by 2050. To help inform our own emissions reduction targets, as well as to meet our (and our client's) obligations under the Australian Government NGER Scheme, BRC has established an emissions monitoring and reporting system encompassing our operations. We currently monitor and report on Scope 1 and Scope 2 emissions, with ongoing development of Scope 3 emissions monitoring in step with government policy settings.

OFFICES

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