CLL Capabilities
Marine Construction

SERVICE & SOLUTIONS

Clients benefit from this depth and breadth of services in key areas

VERSATILE EXPERTISE

CLL offer a comprehensive suite of services beyond piling and ground stabilisation, as our company excels in a wide range of civil construction disciplines.

Whether it's foundation work, structural engineering, or infrastructure development, we offer a one-stop solution for all your civil construction needs.

PROVEN TRACK RECORD

Rely on our established reputation backed by a track record of successful projects.

From intricate piling assignments to complex infrastructure developments, our expertise has consistently delivered quality results, earning the trust of our clients.

COST-EFFECTIVE SOLUTIONS

By consolidating various civil construction services under one roof, our clients experience streamlined project management, reducing the need for multiple contractors. This not only enhances overall project efficiency but also leads to potential cost savings.

AT CLL, we extend our footprint across New Zealand, operating seamlessly through specialised divisions strategically established in key regions such as Northland, Tauranga and Christchurch with our head office based in Auckland. Our centralised approach from Auckland allows us to efficiently coordinate and manage projects throughout the country, ensuring a consistent and high-quality service delivery.

INNOVATION AND TECHNOLOGY

Stay ahead in the industry with our commitment to innovation and technology. Our company embraces cutting-edge advancements, ensuring that your projects benefit from the latest methodologies, materials, and equipment, leading to increased efficiency and project success.

ADAPTABILITY TO PROJECT SCALE

With over 200+ employees, whether you're undertaking a small-scale project or a large-scale development, our team is equipped to adapt to the unique requirements of each endeavour. Enjoy the flexibility and scalability of our services to match the specific needs of your civil construction projects.

CLIENT-CENTRIC APPROACH

Experience personalized service with our client-centric approach. We prioritize open communication, collaboration, and a thorough understanding of your project goals, ensuring that our solutions are tailored to meet your expectations and contribute to the overall success of your endeavours.

CLL
SERVICE & SOLUTIONS

SERVICES & SOLUTIONS

CLL
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CLL GROUP (CLL) is a well-established construction company specializing in piling, ground improvements, slip stabilization, ground anchors, retaining walls, civil structures, drainage, and contaminated site remediation. With extensive experience across these disciplines, CLL has built a strong reputation as a reliable and innovative industry leader.

At CLL, we pride ourselves on being at the forefront of ground improvement and piling techniques, leveraging advanced European technologies that set us apart. These cutting-edge systems allow us to tackle complex challenges efficiently, often eliminating provisional tags from tenders and streamlining project delivery. Our collaborative approach ensures that we work closely with your design consultants to develop cost-effective, fit-for-purpose solutions for in-ground challenges.

As part of our commitment to strong partnerships, we offer our expertise and time at no cost—providing indicative pricing and tailored recommendations to help achieve project goals efficiently.

CLL employs 250+ professionals, including engineers, project managers, estimators, machine operators, tradesmen, and skilled labourers. Our workforce includes specialist piling crews and industrial rope access teams, as well as tradesmen such as carpenters, mechanics, and formwork specialists.

OUR EXPERTISE

Geotechnical & Civil Engineering Solutions

- Piling solutions (Olivier Piling, CFA, Bored, Driven, Sheet Piling)
- Retaining and stabilization systems
- Ground anchors and soil nailing
- Deep foundation and ground improvement techniques

Critical Slip Rehabilitation & Drainage

- Earthworks and slope stabilisation
- Cross road drainage and culvert installation
- Swale and water diversion systems
- Manhole and bored drain installations

Specialized Construction Services

- Bridge and structure foundations
- Marine piling and coastal protection
- Infrastructure resilience solutions
- Sustainable construction initiatives

WHY CHOOSE CLL?

- **Industry Leadership:** Cutting-edge European piling and ground improvement technologies.
- **Experience & Expertise:** Decades of experience in delivering large-scale infrastructure projects.
- **Innovative Methods:** Leaders in advanced piling and geotechnical stabilization.
- **Sustainability Focus:** Commitment to environmentally friendly construction practices.
- **Safety & Quality Assurance:** Adherence to the highest industry standards.
- **Project Delivery Excellence:** Proven track record of delivering projects on time and within budget.

LET'S WORK TOGETHER

We welcome opportunities to collaborate on upcoming projects. Get in touch to discuss how CLL can bring value to your project by contacting the person who gave you this brochure or via our branches located on the last page of this document.

CLL
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DESIGN & CONSTRUCT

CLL takes care of the design and build of your in-ground projects, simplifying the process for our clients and reducing costs.

Our 35 years of experience across complex landscapes provides valuable insight into pre-purchase and pre-design feasibility assessments, and the overall design of the project.

We work with a small number of expert geotechnical consultants who have experience and an appetite for design and build projects. Ground improvement work, by design, does not structurally connect with the rigid floor structures, therefore our Geotech experts are involved from the very beginning. This ensures that what is constructed below the ground is fit for purpose for what will be built above it.

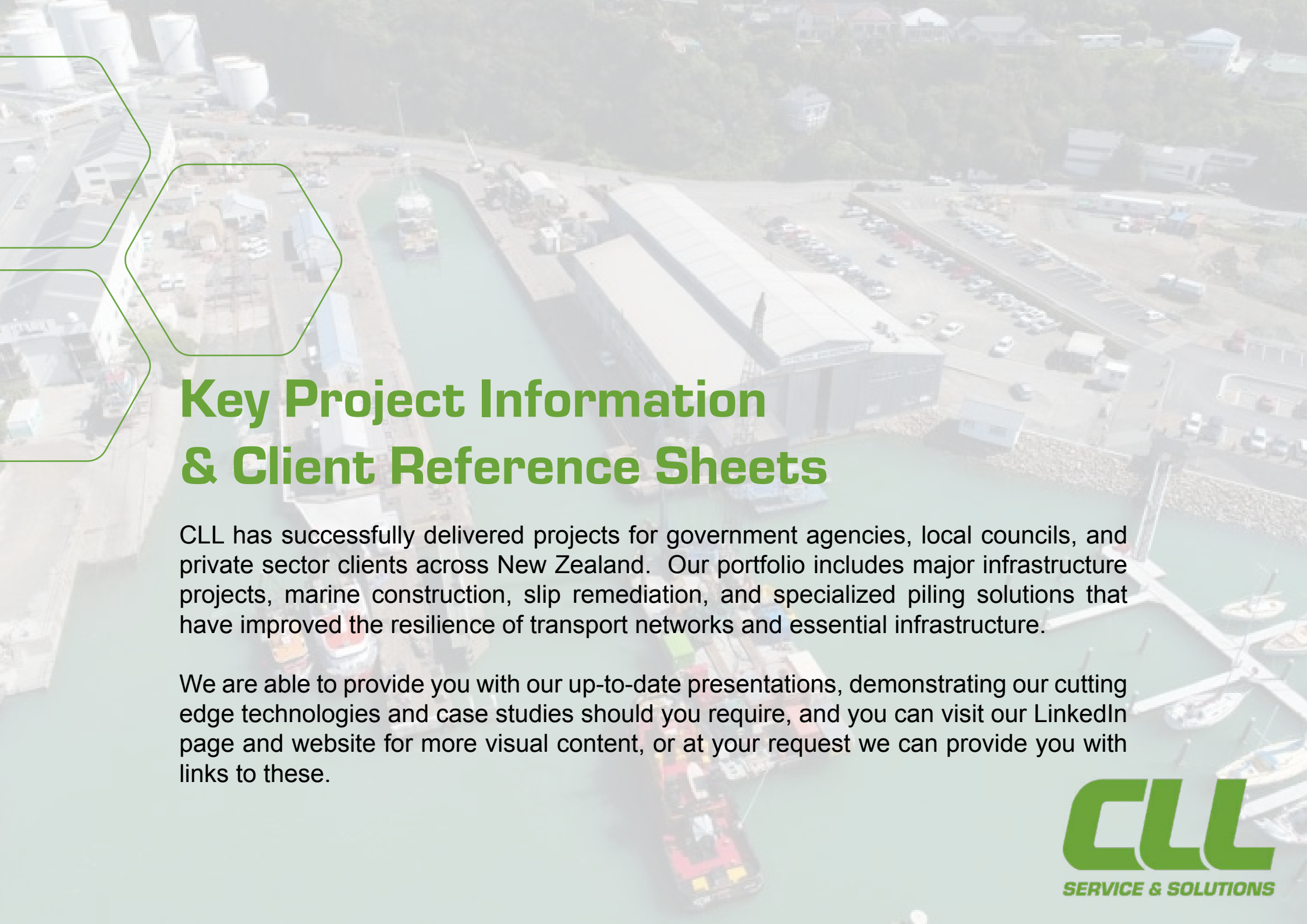
EARLY CONTRACTOR INVOLVEMENT - ECI

Getting us involved from the outset of your project means a seamless end-to-end solution.

Our 35 years of experience across complex landscapes provides valuable insight into pre-purchase and pre-design feasibility assessments, and the overall design of the project.

The construction industry is trending towards a more unified approach to projects and CLL offers significant experience in design and construction as well as ECI. Consultant led designs are fraught with risk due to the lack in understanding of site specific methodologies, real time innovation and evolution of construction techniques, and current market costs.

We offer significant experience in design and construction as well as ECI with a robust understanding of design, method, and cost relationships and an understanding of the connection between the foundation and structure.



Key Project Information & Client Reference Sheets

CLL has successfully delivered projects for government agencies, local councils, and private sector clients across New Zealand. Our portfolio includes major infrastructure projects, marine construction, slip remediation, and specialized piling solutions that have improved the resilience of transport networks and essential infrastructure.

We are able to provide you with our up-to-date presentations, demonstrating our cutting edge technologies and case studies should you require, and you can visit our LinkedIn page and website for more visual content, or at your request we can provide you with links to these.

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PROJECT INFORMATION SHEET

LYTTELTON WHARF

LOCATION	SUTTON QUAY, LYTTLETON, WELLINGTON
CLIENT	TOTAL MARINE SERVICES
START & FINISH DATES	2018

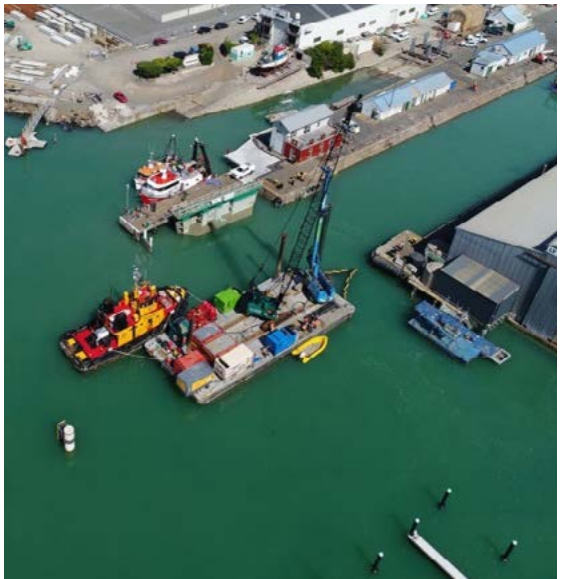
PROJECT OVERVIEW

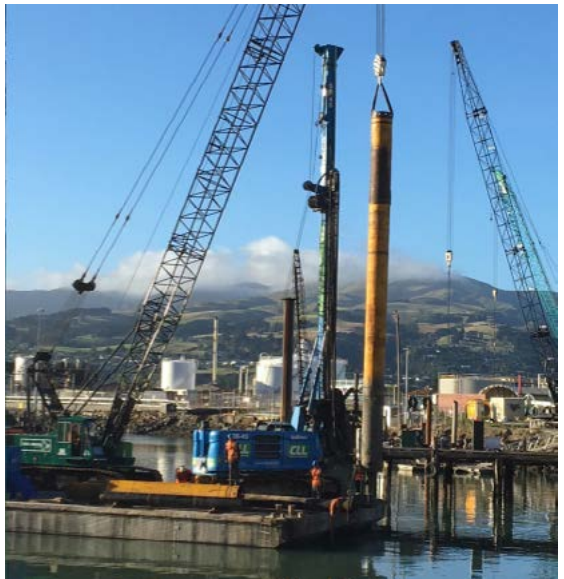
CLL successfully completed the piling works for the new buffer piles at the entrance to the dry dock at Lyttelton Port on behalf of Total Marine. This project required precision drilling in a marine environment to support the long-term stability and functionality of the port's dry dock facility.

The piling works were carried out from a barge using CLL's Bulroc 800mm Down-the-Hole (DTH) hammer, mounted on a Soilmec SR-45 drill rig. The SR-45 was lifted onto the barge using a 200-ton crane. The installation process involved drilling 4no 800 diameter piles through water up to 7m deep, silt up to 5m deep and 5m into bedrock.

One of the key challenges in this project was managing noise levels associated with rock drilling, particularly in a port environment. To minimise disruption, CLL scheduled piling activities during weekends, operating between 8:30 AM and 4:30 PM, thereby reducing noise impacts on weekdays while maintaining productivity.

Despite the complex marine and subsoil conditions, CLL successfully completed the full scope of work within eight days, adhering to the expected schedule and within budget. The client was pleased with the outcome of CLLs work.





PROJECT INFORMATION SHEET

HALF MOON BAY NORTH PIER EXTENSION CARPARK

LOCATION	HALF MOON BAY, AUCKLAND
CLIENT	AUCKLAND MARITIME FOUNDATION
START & FINISH DATES	2019 - 2020

PROJECT OVERVIEW

CLL/Oxcon CLL were engaged to complete a 200m-long by 12m-wide elevated concrete structure above the sea and basalt seawall to create a dockside parking area for the marina's new North Pier, whilst maintaining an operational boatyard. All works were constructed within the coastal marine area (CMA) and were built subject to stringent environmental controls.

The structure included consisted of 42 steel tube piles, each 38m long and 610mm in diameter, driven up to 34 metres into the seabed. These were then drilled out to the required depth and filled with reinforced concrete. Pre-cast pier heads, were offered over the top of the previously-installed piles and grouted into position. double-tee beams were spanned between the pier heads and formed the structure for and an in-situ deck. The client was very happy with how the project was delivered and completed.

Marine piling: CLL/Oxcon CLL installed a total of 871 lineal metres of 610mm diameter tube piles - all within the CMA. The piles were initially spliced into 18m sections, driven, then spliced and re-driven as needed to achieve to the required set. A drop hammer, a 120-tonne crawler crane, and a 50-tonne hydraulic crawler support crane were used to drive the piles up to 35m into the existing East Coast Bays Formation (ECBF) below.

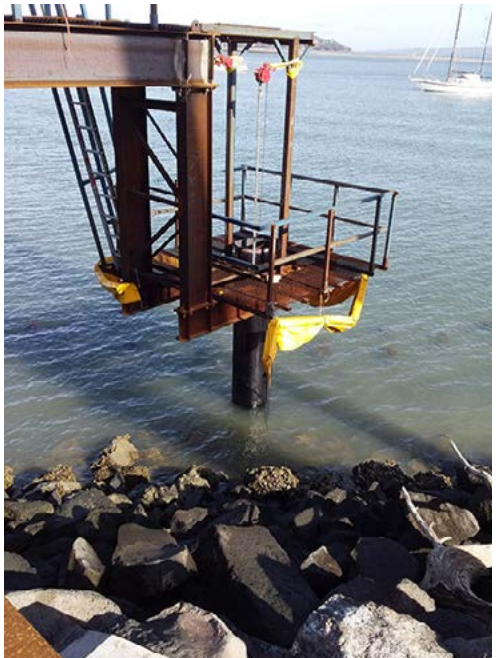
Dimensional accuracy was critical to the design as was reducing the impact of temporary works to the seabed. Oxcon/CLL developed a piling gate/access frame that was extremely successful in managing the dimensional risk and utilised the previously installed permanent piles which almost eliminated the need for temporary piles.

First, the pile starting position could be controlled within millimetres; and second, any incline developed during driving could be corrected or, as a minimum, controlled. The programme dictated that piling and pier head pre-cast works occurred in parallel, which removed any ability to adjust pre-cast dimensions post piling. All piles were installed within the required +/-20mm tolerance required by the design.

This attention to detail and of piling construction accuracy will be essential for the construction of the concrete and stonework works on the Seaside project to ensure a visually attractive finish.

In-situ concrete: CLL/Oxcon CLL completed all in-situ concrete works, including formwork, steel, and concrete placement (subcontracted) for the 2300sqm of concrete deck. Bespoke formwork systems were developed specifically to suit the design.

Pre-cast concrete: Our preferred pre-cast partner undertook the pre-cast scope with significant input from CLL/Oxcon CLL regarding modelling, shop drawing, and dimensional control. The pre-cast pier beams weighed up to 35 tonnes and required detailed lift planning. This was further complicated by the geotechnical conditions immediately behind the new structure. We developed lift plans and an install sequence that solved all presented issues.



PROJECT INFORMATION SHEET

MOUNT REX WHARF

LOCATION	215 KAIPARA COAST HIGHWAY, HELENSVILLE
CLIENT	ATLAS CONCRETE
START & FINISH DATES	2019

DESCRIPTION OF WORKS

The scope of works for CLL at the Mount Rex project included design and construction of critical repairs and maintenance for the Mt Rex Sand Supply Facility, including restoring the port/wharf, unloading docks, and conveyor systems. The project required developing a robust, efficient, and ecologically respectful retaining system and hard-stand design to repair the failing dilapidated wharf, and enhance the overall safety, efficiency, and capacity for berthing and unloading multiple sand barges and associated vessels.

Challenges included working within a live, operational port, conducting construction over water, preserving an environmentally sensitive ecosystem, managing timely procurement of materials, and adapting to a dynamic design-and-construct approach. Despite these complexities, CLL successfully delivered the project on time and within budget.

WHY CHOOSE CLL?

Atlas Concrete selected CLL as their preferred contractor for the project due to the following reasons:

- CLL has a long-standing, trusted relationship with Atlas Concrete.
- CLL has designed and constructed multiple facilities, batching plants, yards, pavements, and environmental solutions.
- CLL's expertise in retaining systems and property development, coupled with a collaborative and transparent approach, ensured seamless project execution.
- CLL worked closely with design engineers to rapidly implement solutions, securing the safety of port staff and vessels despite the facility's failing condition. Their strong industry connections allowed for efficient procurement of long-lead materials from offshore suppliers, optimising project time-lines.
- CLL has state-of-the-art technology, specialised plant and equipment, and innovative construction methods.
- CLL quickly and efficiently resolves all on-site challenges.

With nearly 40 years in the industry and a team boasting hundreds of years of collective experience, CLL continues to deliver high-quality construction solutions. The successful completion of the Mt Rex Wharf Upgrade reinforced safety, efficiency, and long-term functionality for the client.

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PROJECT INFORMATION SHEET

HOBSONVILLE MARINE RECREATION CENTRE

LOCATION	9 BOUNDARY ROAD, HOBSONVILLE
CLIENT	OXCON
START & FINISH DATES	2023

DESCRIPTION OF WORKS

This project at Catalina Bay within Hobsonville Point aimed to establish a cutting-edge aquatic centre for a sailing club, featuring a wharf structure extending into the tidal zone. The comprehensive design required a gangway leading to floating pontoons, ensuring direct water access for the community.

To address these challenges, CLL, in collaboration with our partner company Oxcon, carried out marine piling. We installed 48 concrete-encased timber SED poles (225mm diameter within a 450mm diameter hole) and 28 bored piles (750mm diameter, 8m deep), with 12 of these piles placed in the tidal zone using an amphibious excavator on a pontoon.

The bored pile construction methodology involved on-site cast in-situ piles with precisely measured pre-cast beams and structures manufactured in Tauranga. Each pile underwent thorough pre-surveying at critical construction phases, achieving an impressive 5mm tolerance for pile height and bolt placement.

We effectively navigated tidal challenges through meticulous time management and strategic use of casings and water pumping to prevent ground collapse. The project was completed on schedule, garnering high praise from the client.

PROJECT INFORMATION SHEET

SENTINEL ROAD

LOCATION	**SENTINEL ROAD, HERNE BAY, AUCKLAND**
CLIENT	**LINDESAY CONSTRUCTION**

DESCRIPTION OF WORKS

The owner of this multi-million dollar property chose to repair a slip onto the beach as it came within the property line. Access to and from the site was only allowed via the sea, making the project logistically challenging.

CLL executed the slip repair using a comprehensive marine-based approach. A 100-tonne and a 30-tonne barge, a tug, and two diggers were utilised to access the site. All necessary materials and equipment were loaded at Sandspit or the Viaduct Basin. The primary task involved clearing the slip debris. CLL efficiently removed the debris from the slip face into a bin, which was then loaded onto the barge to prevent beach contamination.

The debris was transported to Viaduct Basin, craned off, and then trucked away. This process required at least 8-9 trips with the 100-tonne barge fully loaded with slip debris.

Additionally, a 6-meter crib wall destroyed in the slip was rebuilt from the bottom up, with all components barged in. CLL backfilled the area with scoria using helicopter bags, bringing in approximately 120 one-cubic-meter bags of scoria via the water. This meticulous approach ensured the repair was thorough and environmentally sensitive, addressing both the structural and aesthetic needs of the property.

PROJECT INFORMATION SHEET

HERNE BAY MARINE PILING

LOCATION	**PRIVATE RESIDENCE, HERNE BAY, AUCKLAND**
CLIENT	**PRIVATE**
START & FINISH DATES	**2022**

DESCRIPTION OF WORKS

The client required piling works for constructing a private boathouse and ramp at their Herne Bay residential property. The project involved precise drilling and the installation of concrete and steel structures into sandstone substrates, all while accommodating tidal variations.

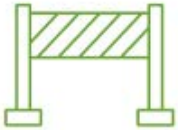
Before starting the piling works, CLL positioned a barge at high tide to ensure optimal access to multiple pile locations during low tide. Drilling activities were carried out from the barge, and concrete and steel structures were installed into the sandstone substrates within the low tide window. Concrete was poured from land to ensure a steady and controlled pour process, and drill spoil was removed using crane operations.

NON-NEGOTIABLES

NO LIFT IS TO BE DONE WITHOUT A LIFT PLAN IN PLACE

NO MACHINE OR VEHICLE MOVEMENT WITHOUT A SPOTTER

GEOTECH APPROVED PILING PLATFORMS MUST BE IN PLACE



ISOLATE PILING ZONE USING SIGNAGE AND BARRIERS

NEVER LEAVE OPEN HOLES UNCOVERED

NO CELL PHONE USE WHILE DRIVING OR OPERATING

DO NOT BREAK GROUND UNTIL PERMIT TO DIG HAS BEEN ISSUED

CLL SERVICE & SOLUTIONS

CORE VALUES


Integrity
We are straight forward and ethical.
We are astute and considerate.
Courage
We take personal responsibility.
We are confident in our ideals.
Selflessness
We put service and people first.
We respect and share knowledge with each other.
We give others confidence and promote growth.
Innovation
We are strive to think, feel and act - rather than react.
Weare innovative and receptive to new ideas.
Respect
We have respect for ourselves, each other, our clients, the environment, and our plant & equipment.
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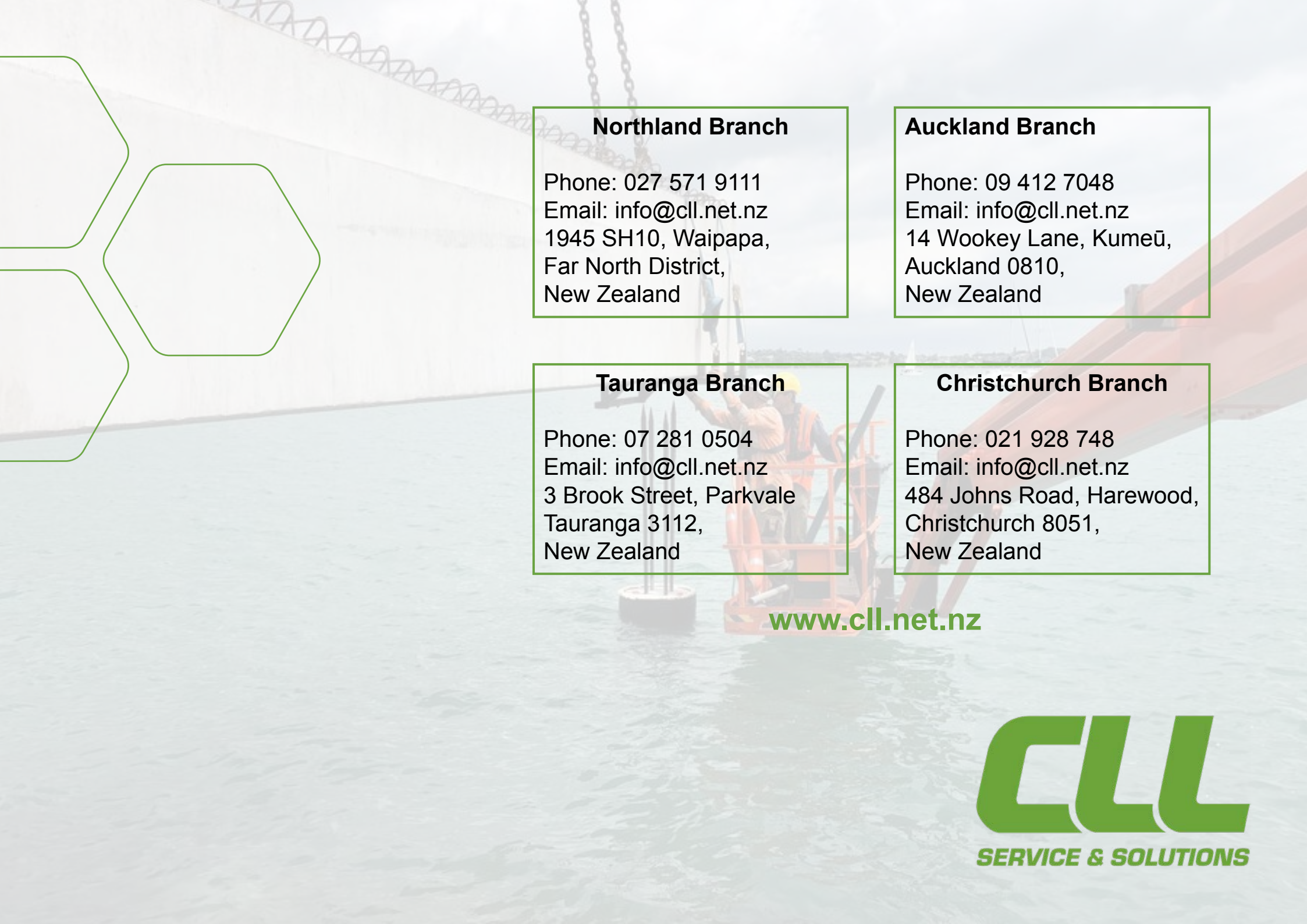

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