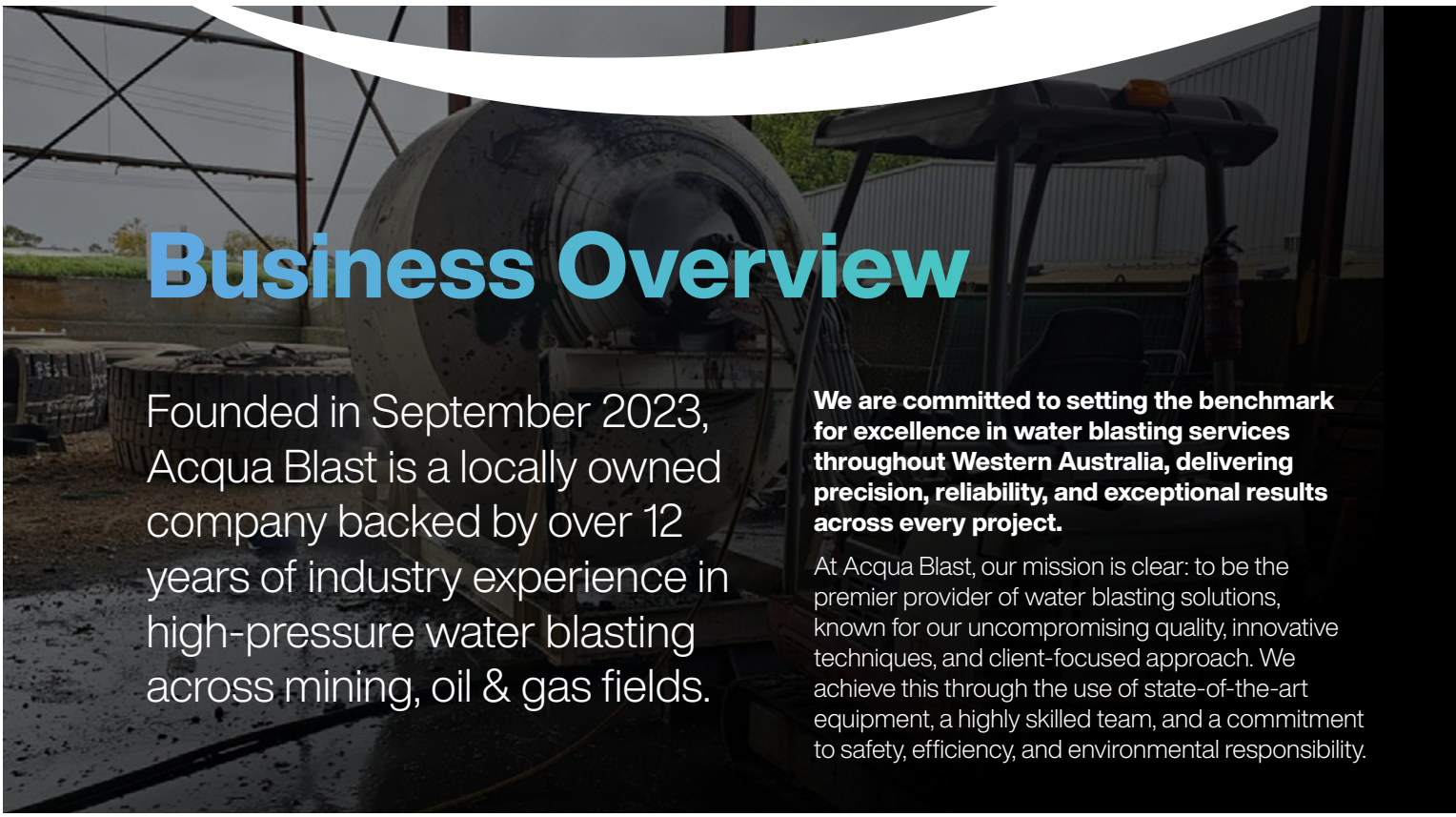
ACQUA BLAST

Capability Statement

2025



Business Overview

Founded in September 2023, Acqua Blast is a locally owned company backed by over 12 years of industry experience in high-pressure water blasting across mining, oil & gas fields.

We are committed to setting the benchmark for excellence in water blasting services throughout Western Australia, delivering precision, reliability, and exceptional results across every project.

At Acqua Blast, our mission is clear: to be the premier provider of water blasting solutions, known for our uncompromising quality, innovative techniques, and client-focused approach. We achieve this through the use of state-of-the-art equipment, a highly skilled team, and a commitment to safety, efficiency, and environmental responsibility.

Our Core Values

- **Professionalism & Integrity** – We operate with transparency, trust, and the highest ethical standards.
- **Reliability & Precision** – Delivering superior results that meet and exceed client expectations.
- **Innovation & Excellence** – Utilising advanced techniques and cutting-edge technology to drive optimal performance.
- **Client-Centric Approach** – Understanding and tailoring solutions to the unique needs of our clients, fostering long-term partnerships.

At Acqua Blast, we don't just provide services—we build lasting relationships. Through open communication and a solutions-driven mindset, we ensure that every project is executed efficiently, safely, and with the highest level of expertise. Our goal is to transform environments and provide lasting value, solidifying our reputation as the trusted partner for water blasting services in Western Australia.

Industry Membership:

- Henderson Alliance
- Reconciliation WA
- Australasian Corrosion Association
- AUSJET/ADCVA (**Bronze membership**)

Core Capabilities

Acqua Blast is registered in WA, but we service industrial, private and Government clientele in all regions across Australia. Under robust WHSE and Quality Management Systems, we are prepared to meet all client needs and performance expectations.

Ultra High-Pressure (UHP) Water Blasting	• Removes coatings, rust, and contaminants using water up to 40,000 psi. • No chemicals or abrasives required (environmentally friendly). • Ideal for precision cleaning and surface preparation.
Hydro Demolition	• Uses high-pressure water jets to remove damaged concrete safely. • Preserves surrounding structures and embedded steel reinforcement. • Vibration-free and dust-free alternative to jackhammering.
Water Jet Cutting / Cold Cutting	• Cuts through steel, stone, concrete, and composites without heat. • No sparks or distortion – perfect for sensitive applications. • Delivers precise, clean cuts for construction and demolition.
Sand Blasting & Painting	• Abrasive blasting removes rust, paint, and contaminants. • Prepares surfaces for maximum coating adhesion. • Protective coatings extend material life and durability.
Vacuum Truck Services	• Safely removes liquids, sludge, slurry, and dry waste. • Accesses confined or hard-to-reach worksite areas. • Supports environmental compliance and site cleanliness.
Rope Access Services	• Enables safe work at height using rope-based techniques. • Eliminates need for scaffolding or boom lifts. • Fast, flexible access to complex or vertical surfaces.
DE-Watering Services	• Removes groundwater or surface water from worksites. • Maintains dry, stable conditions for safe construction. • Prevents delays in excavation or foundation works.
Core Drilling & Wire Saw Cutting	• Provides clean, precise cuts and holes in concrete structures. • Minimally invasive, suitable for confined or sensitive areas. • Supports installations, alterations, and structural assessments.
Cathodic Protection Systems	• Prevents corrosion in reinforced concrete and steel structures. • Custom-designed CP systems including sacrificial and impressed current. • Extends asset lifespan in marine, industrial, and infrastructure settings.

SERVICES

Ultra High-Pressure (UHP) Water Blasting Services

UHP water blasting uses extremely high-pressure water jets (up to 40,000 psi) to remove coatings, paint, rust without the use of chemicals or abrasive materials.

This method delivers powerful cleaning and surface preparation while being safe, precise, and environmentally friendly.

Capabilities:

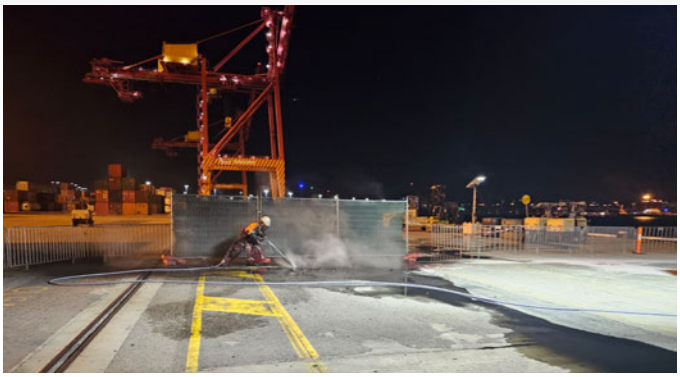
- Coating and paint removal from steel and concrete
- Surface preparation for recoating or repair works
- Cleaning of tanks, vessels, and marine structures
- Removal of Rubber lining
- Heat exchanger cleaning
- Pipe, tube and drain cleaning

Benefits:

- No heat, dust, or sparks
- Minimal damage to base material
- Environmentally responsible with reduced waste
- Safe and efficient for confined or sensitive areas

S E R V I C E S

Hydro Demolition



Hydro Demolition is a concrete removal technique that uses high-pressure water jets to break down and remove deteriorated, damaged, or unwanted concrete without the use of vibration, dust, or heat.

Unlike mechanical methods such as jackhammers, hydro demolition precisely removes only the targeted concrete while leaving the surrounding material and steel reinforcement intact. This method is ideal for:

- Restoring bridges, tunnels, and parking structures
- Exposing and cleaning reinforcement bars for repairs
- Preparing surfaces for new concrete or protective coatings
- Working in sensitive or confined environments with minimal noise and dust

Capabilities:

- Robotic and manual hydro demolition
- Scrabbling and high-friction surface prep
- Ideal for rework zones, rebar exposure, and load-bearing remediation

Benefits:

- Non-impact, vibration-free process
- No micro-cracking-preserves structural integrity
- Environmentally safer than jackhammering or blasting

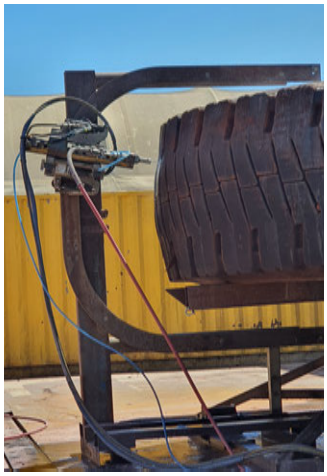
SERVICES

Water Jet Cutting / Cold Cutting

Water jet cutting is a precise and versatile method that uses a high-pressure stream of water, often combined with an abrasive material, to cut through a wide range of materials including steel, rubber, concrete, stone, and composites.

The process generates no heat, hot sparks, or distortion, making it ideal for sensitive materials and applications where structural integrity must be maintained.

This method ensures clean results, improved safety, and reliable performance, making it the preferred choice for construction, demolition, and maintenance projects.



Capabilities:

- Precise pipe and structural element cutting
- Creating openings in tanks and vessels for inspection and/or repairs
- Cut of OTR Tyres

Benefits:

- Precise, controlled cuts with minimal disruption
- Safe operations in flammable or explosive areas
- Versatile applications for pipelines, tanks, structural steel, and concrete
- Reduced vibration, protecting surrounding structures

ACQUA BLAST

S E R V I C E S

Sand Blasting & Painting

Sand blasting and painting provide a complete surface preparation and protection solution for steel, concrete, and other structural materials.

Using abrasive blasting, we remove rust, old coatings, and surface contaminants to create a clean, profiled surface.

This ensures maximum adhesion and long-term performance of protective coatings.

Capabilities:

- Abrasive blasting for rust, scale, and coating removal
- Protective coating application to prevent corrosion and extend service life
- Industrial and marine painting for structures, tanks, and equipment
- Maintenance and refurbishment of existing assets

Benefits:

- Strong corrosion resistance and extended durability
- Improved safety and appearance of structures
- Tailored coating systems for industrial, marine, and construction environments

SERVICES

Vacuum Truck Services

Vacuum trucks provide a safe and efficient solution for removing and transporting liquids, sludge, slurries, and dry materials from worksites.

Using powerful suction systems, they can clean and collect waste from confined or hard-to-reach areas, ensuring worksites remain safe, compliant, and environmentally responsible.

Capabilities:

- Industrial cleaning of tanks, pits, and vessels
- Removal of sludge, slurry, and wastewater
- Cleanup of construction and demolition sites
- Non-destructive excavation (hydro-vac) for safe digging around utilities

Benefits:

- Safe, fast, and reliable waste removal
- Reduced manual handling and improved site safety
- Environmentally responsible disposal
- Suitable for construction, civil, industrial, and municipal projects

SERVICES

Rope Access Services

Rope access is a safe and cost-effective method for working at height or in difficult-to-reach areas using specialised climbing and rigging techniques.

It provides a practical alternative to scaffolding or elevated work platforms, allowing skilled technicians to access complex locations quickly and efficiently.

Capabilities:

- **Inspection and surveys** of structures, facades, and industrial sites
- **Maintenance and repair** in confined or elevated areas
- **Surface preparation, cleaning, and painting**
- **Installation works** such as signage, safety systems, and fittings

Benefits:

- Minimal disruption and setup time
- Cost savings compared to traditional access methods
- Maximum safety, with technicians trained to international standards
- Versatility for construction, industrial, and marine environments

SERVICES

DE-Watering Services

De-watering is the controlled removal of groundwater or surface water from construction sites to create safe, dry, and stable working conditions.

Using pumps, well points, or other water management systems, we ensure that excavation, foundation, and civil works can proceed efficiently without water-related delays or hazards.

Capabilities:

- Site water control for excavations, basements, and trenches
- Groundwater lowering to protect foundations and structures
- Pumping and drainage solutions for temporary or long-term projects
- Environmental compliance through safe water disposal

Benefits:

- Safe and stable working conditions
- Minimises delays due to water accumulation
- Protects structures and equipment
- Adaptable for a range of construction, civil, and industrial projects

SERVICES

Core Drilling & Wire Saw Cutting

Our concrete cutting services provide accurate, low-impact solutions for the removal and penetration of concrete structures, enabling installations, structural alterations, and investigative testing.

By utilising advanced cutting methods, we deliver precise, controlled outcomes with minimal disturbance; perfect for confined areas, sensitive settings, and projects that demand high precision and structural stability.

- Core drilling for utilities, rebar access, and anchors
- Wire saw cutting for slabs, walls, foundations, and decks
- Precision cutting with minimal vibration and dust

Capabilities:

- Core drilling for utilities, rebar access, and anchors
- Wire saw cutting for slabs, walls, foundations, and decks
- Precision cutting with minimal vibration and dust

Benefits:

- Enables upgrades and installations without over-demolition
- Maintains surrounding structural integrity
- Ideal for shutdown, retrofit, and live-site work

SERVICES

Cathodic Protection Systems

We provide end-to-end solutions for the design, installation, and upkeep of cathodic protection (CP) systems in reinforced concrete structures.

Our capabilities cover sacrificial anodes, hybrid CP setups, and impressed current systems using ribbon or mesh configurations.

These advanced techniques are designed to control corrosion, enhance structural durability, and prolong service life, making them well-suited for bridges, parking structures, marine assets, and industrial facilities.

Capabilities:

- Installation of sacrificial anodes
- Hybrid CP and impressed current systems
- CP for wharves, jetties, tanks, columns, and marine infrastructure
- CP audits, testing, and ongoing maintenance

Benefits:

- Significantly reduces corrosion of steel reinforcement
- Increases asset life by decades
- Industry-proven compliance with AS/NZS standards

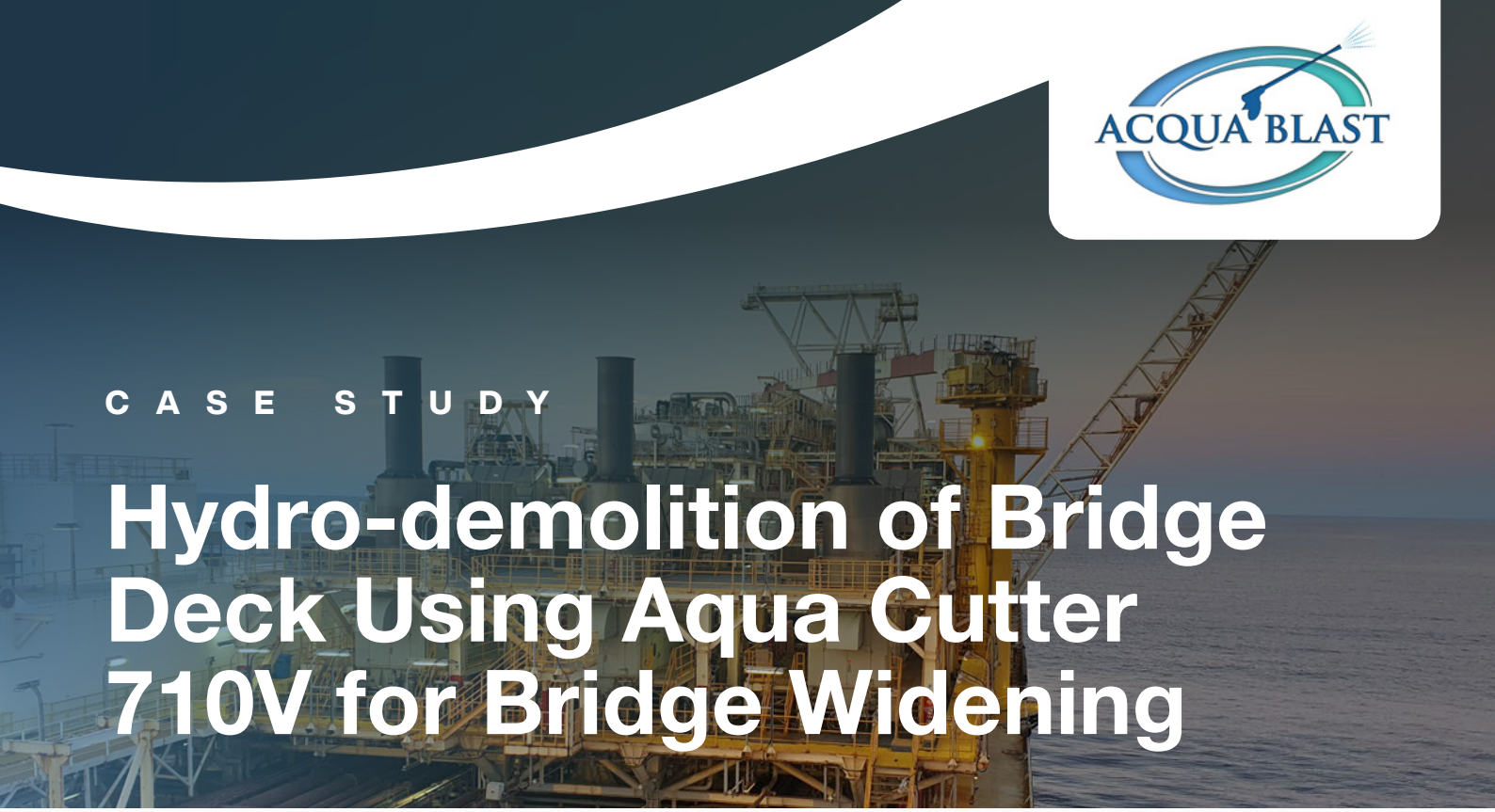
Key Projects & Clients

Experience & Expertise

Despite being such a newly established company, our reputation for high-quality results has already seen us chosen to deliver a range of our services to large organisations such as BP, Australian Defence Force, Main Roads Western Australia, and Fremantle Port.

We have successfully provided ultra-high pressure cleaning of storage tanks, ships, pipes, tumblers, and other vessels, as well as efficient hydrodemolition of major infrastructure such as bridges along the Bunbury-Busselton Highway, shipping berths, and barracks delivery tunnels.

We have also undertaken large-scale abrasion and re-application of sealants and other sprayable substances in tanks required to safely store highly flammable liquids and gases, ensuring that our clients remain protected from potential significant harm.



CASE STUDY

Hydro-demolition of Bridge Deck Using Aqua Cutter 710V for Bridge Widening

Project Overview

Project Name	:	**Bridge Deck Preparation for Widening**
Location	:	**Bunbury to Busselton Highway Extension**
Client	:	**MACA Civil**
Referent	:	**Stuart Douglas +61 484 830 203**
Date	:	**16/01/2025 - 24/02/2025**
Contractor	:	**Acqua Blast**
Scope		

Hydro-demolition of 1.2 m wide x 150 mm deep strip along bridge edge, bridge shoulders to be removed.

Project Objective

To prepare the existing bridge deck edge for structural integration with the new widened section by:

- Precisely removing 150 mm deep concrete over a 1.2 m wide strip
- Exposing and preserving existing reinforcement bars
- Avoiding micro-cracking or damage to the structural deck
- Maintaining traffic flow with minimal disruption

Challenges Faced

- Tight access on the bridge edge requiring customized guide rails
- Managing high water volume and slurry runoff in an elevated environment
- Maintaining strict tolerances on cut depth to prevent over-removal, possibility to blast through the bridge and contaminate the river bed.

Results

- Achieved clean and uniform 150 mm depth cut along 1.2 m wide section
- All reinforcement bars exposed without damage or bending
- No micro-cracks or vibration-related defects in the surrounding deck
- Completed safely and within schedule despite environmental constraints

Methodology

1 Pre-Demolition Survey & Setup

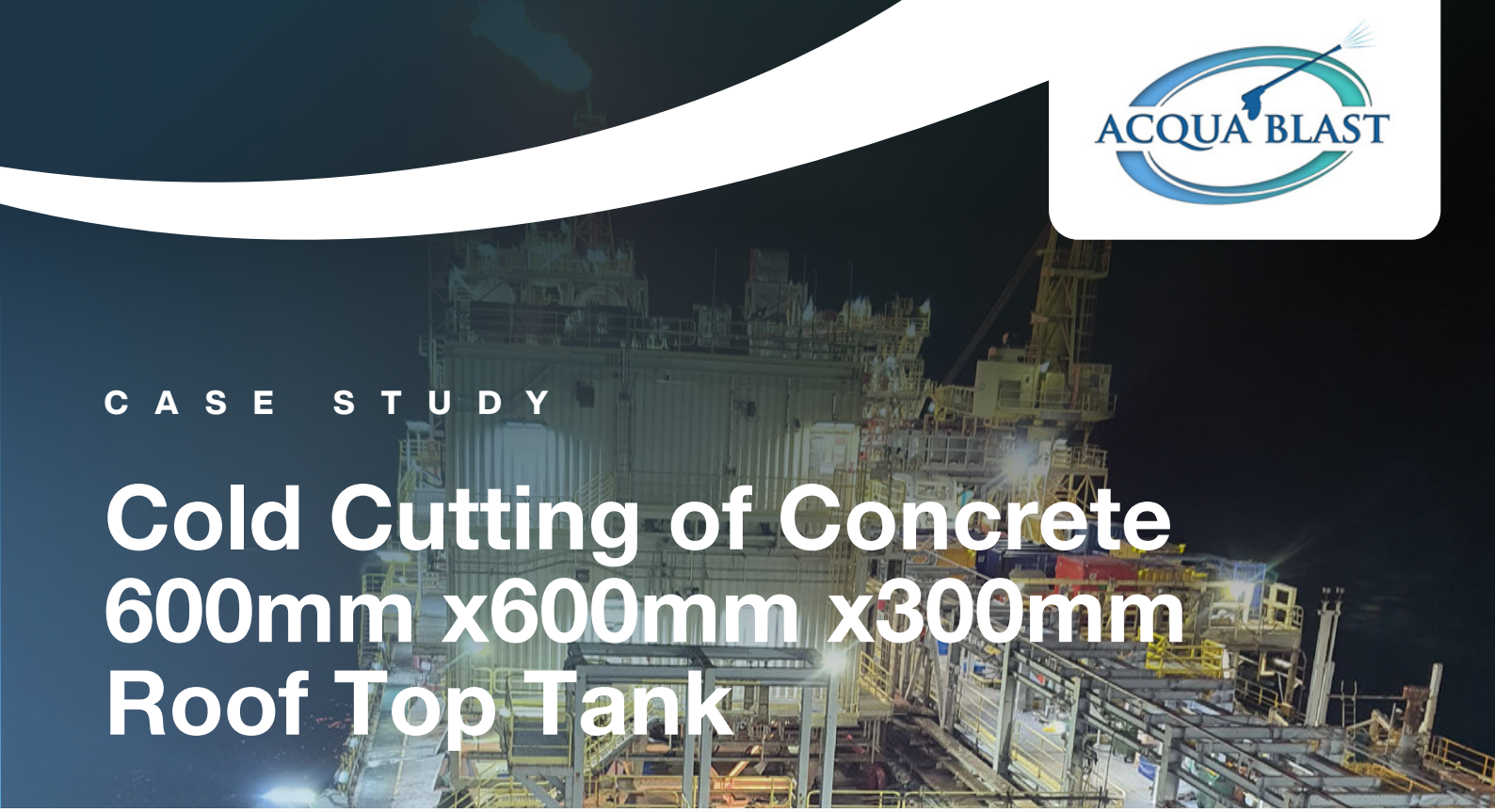
- **Assessment**: Identified edge zone for removal using structural drawings and site inspection
- **Marking:** 1.2 m wide strip marked along the bridge length
- **Safety**: Installed edge protection, traffic barriers, and containment measures Scaffold frame with shade cloth on the side and top.
- **Water Management**: Temporary drainage channels and sediment filtration units deployed to avoid contaminating the river beds.

2 Hydro-demolition via Aqua Cutter 710V

- **Equipment:** Aqua Cutter 710V, with intelligent control system and oscillating lance
- **Pressure Range:** 1000–1200 bar (adjusted per concrete hardness and depth)
- **Cutting Depth:** Precisely calibrated to 150 mm using the robot
- **Operation:** Robotic crawler ran along the bridge edge
- **Length Covered:** 100m each bridge

3 Post Water Blasting Handling

- **Debris Removal:** Slurry vacuumed using high-capacity suction unit
- **Surface Inspection:** Verified depth and integrity of exposed reinforcement



CASE STUDY

Cold Cutting of Concrete 600mm x600mm x300mm Roof Top Tank

Project Overview

Project Name	:	**Cold cutting inspection hatches**
Location	:	**Esperance**
Client	:	**PARC ENGINEERING / CBH**
Referent	:	**Jess Shields 0456 718 097**
Date	:	**23/07/2025 – 22/08/2025**
Contractor	:	**Acqua Blast**
Scope	:	

The project involved the selective removal of concrete in 9 different locations on the roof top tank. Holes are to be cold cut via ultra high pressure water and cold cutting tool.

Project Objective

- Create openings in the tanks for inspection
- Minimise dust and vibration in an enclosed environment
- Work conducted on top of fertilizer tank (highly explosive risk)
- Ensure cut is done perfectly to install new hatches high bonding performance for patch repair materials
- Maintain structural integrity and extend the slab's service life

Solution

Ideal for highly explosive environments, minimising risk of explosion cold cut does not create hot spark and does not compromise the safety and operational requirements.

Results

- Deteriorated areas removed precisely with no micro-cracking of adjacent concrete
- Rebar integrity preserved, ready for bonding
- Minimal environmental impact and dust exposure

Methodology

1. **Assessment & Preparation**
   - Survey to marked out direct locations on the roof top tank
   - Set up cold cutting tool and Pump at the right pressure
   - Remove square of concrete cut without damaging the rest of the structure
2. **Cold cut**
   - Equipment Used: Cold cutting tool
   - Pressure: Approx. 2500 bar
   - Water Supply: Filtered ultra high pressure water, garnet
3. **Surface Cleaning and Preparation**
   - Removed debris, slurry, and standing water using vacuum systems
   - Ensured surface remained saturated surface dry (SSD) prior to repair

The use of the UHP cold cutting tool on top of the roof top tank environment proved safe, effective and efficient.
The method significantly reduced risk of damage to the structure, minimised manual labour, and provided an ideal substrate for durable patch repairs. This project demonstrated the advantages of cold cutting for external concrete removal tasks.

CASE STUDY

Water blasting of fuel line from the existing coating to apply protection wrap

Project Overview

Project Name	:	**Fuel line refurbishment**
Location	:	**Perth Airport**
Client	:	**BP Petrolioum**
Referent	:	**Frahan 0424880961**
Date	:	**16/04/2024 - 24/07/2024**
Contractor	:	**Acqua Blast**
Scope	:	

Remove the existing coating from the pipeline and apply a rust inhibitor to prevent flash rusting, ensuring proper adhesion of the wrap.

Project Objective

To prepare the pipe for wrapping, it was fully blasted using an ultra-high-pressure (UHP) water blasting lance.

- Install support for the pipe once it has been excavated.
- Water blast the pipe in between supports
- Move supports to wrapped area
- Blast remaining coating on the pipe
- Maintaining traffic flow with airplanes with minimal disruption

Challenges Faced

- Tight access around and under the pipe
- Managing high water volume and slurry runoff in an elevated environment

Results

- Achieved clean blast to apply protection wrap
- Completed safely and within schedule despite environmental constraints

Methodology

1. **Pre-Demolition Survey & Setup**
   - **Assessment**: Identified edge zone for removal using structural drawings and site inspection
   - **Safety**: Installed scaffold frame with encapsulation to stop flying debris onto the run way
   - **Water Management**: Temporary drainage channels and sediment filtration units deployed to gain the access to the pipe as was close to the water table.
2. **UHP water blasting via 40k psi**
   - Equipment : Woma Ecomaster mk3
   - Pressure Range : 2500 bar
   - Length Covered : 1500 meters
3. **Post Water Blasting Handling**
   - **Debris Removal**: Slurry vacuumed using high-capacity suction unit

Water blasting using Woma Ecomaster mk3 proved to be a superior technique for preparing the existing pipe to be re-wrapped.

It allowed precise, vibration-free coating removal, preserved the structural integrity of the pipe, and ensured an ideal substrate for bonding the new wrap. This method offers significant advantages over traditional mechanical surface preparation on the pipe structure.

ACQUA BLAST

Capability Statement

Thank you for your consideration.

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