

# CAPABILITY STATEMENT **OIL AND GAS**

WE SEE THINGS DIFFERENTLY

“ Good quality work does not go unnoticed—excellent quality is just one reason BMD was awarded a significant increase in scope including onshore, civil works and a variation to complete the causeway works. ”

**John Pincock**  
BMA Project Director

# SPECIALIST EXPERTISE IN OIL AND GAS

NATIONAL COMPANY **36** YEARS IN BUSINESS

**1,700** EMPLOYEES 



## BMD DELIVERS ON



A PATH TO ZERO HARM



SPECIALIST INTEGRATED PROJECT TEAMS



QUICK AND EFFECTIVE DECISION MAKING

EXPERTISE AND EXPERIENCE APPLIED ACROSS TRANSPORT,  
AIRPORT, RESOURCES AND ENERGY SECTORS

WE SEE OUR STRENGTHS IN THE QUALITY OF OUR PEOPLE AND OUR GENUINE RELATIONSHIPS WITH CLIENTS, PARTNERS AND COMMUNITIES.

WE SEE OUR SUCCESS LINKED TO OUR ABILITY TO DELIVER CERTAINTY THROUGH CONSISTENT PERFORMANCE AND COLLABORATION.

WE SEE OUR FUTURE SHAPED BY ALL THAT HAS MADE US SUCCESSFUL IN THE PAST.



## WE SEE THINGS DIFFERENTLY

At the heart of our business is what we call The BMD Way which is evident in our people, values and culture.

The BMD Way connects every employee across our business and encapsulates our history, traditions and visions for the future.

'We See Things Differently' communicates how we think differently, yet in a like-minded way to our current and prospective clients and staff. Case studies and testimonials provide evidence of how we deliver certainty. It represents how proud we are of our relationship based organisation and acknowledges how important this pride has been to our ongoing success.

Most importantly, 'We See Things Differently' enables us to offer genuine benefits to our clients and the communities in which we operate.

## OUR BUSINESS

BMD is a national group of companies engaged in civil construction for clients and partners in the water industry, transport infrastructure, and resources and energy sectors. BMD are now positioned to leverage off our diverse experience in complex infrastructure, water solutions and civil construction to offer services across the coal seam gas sector.

With approximately 1,700 staff throughout Australia, BMD has the resources and experience to deliver projects ranging in size from \$1 million to over \$1 billion and is currently ranked 36<sup>th</sup> in the 2013 BRW's Top 500 Private Companies list.



**BMD Constructions** offers civil construction services for major infrastructure projects throughout Australia. Expertise, experience and resources are applied across the industry sectors of transport, water, rail, port, resources and energy. The company engages in projects ranging in value from \$20 million to in excess of \$1 billion as a principal contractor and in joint venture with other major contractor and design partners.

**BMD Industrial** - BMD Construction's Industrial division is managed by a group of highly experienced industry executives who assemble professional projects teams to deliver structural, mechanical, piping and electrical solutions for a diverse range of clients and industries.



**BMD Consulting** provides civil, structural and geotechnical engineering design and project management services. BMD Consulting's experience includes residential, commercial and industrial developments, infrastructure and resource projects across metro, regional and remote areas. Key services include planning and feasibility studies, road infrastructure design, flood studies, land development and services design, water quality and stormwater management, structural engineering and shoring and foundation design.

BMD offers a relationship based brand of civil and industrial construction services to a wide range of clients and industries. Some projects and clients include:

### Projects:

APLNG Combabula Gas Processing Facility - Civil Work  
GLNG Fairview Hubs 4 and 5 - Civil Work  
APLNG Material Offloading Facility  
Brisbane Domestic Airport - New Parallel Runway Civil Works  
Cairns Bruce Highway Upgrade  
Caval Ridge - General Services Package  
Hay Point Expansion  
Legacy Way  
Port of Brisbane Motorway Upgrade

### Clients:

Laing O'Rourke  
Mitchell Water  
Bechtel Australia Pty Ltd (Oil and Gas)  
Brisbane Airport Corporation Limited  
Department of Transport and Main Roads  
Bechtel Australia Pty Ltd  
BM Alliance Coal Operations Pty Ltd  
Brisbane City Council  
Department of Transport and Main Roads

## OUR PERFORMANCE

BMD Constructions has been recognised for outstanding contributions towards the APLNG project in 2012.

The Material Offloading Facility team achieved the accelerated completion date and achieved 305,000 hours LTI free. This is a huge achievement as it's the only project on Curtis Island LNG to have not only completed ahead of schedule but also injury free.

**AUSTRALIA PACIFIC LNG**

Your outstanding dedication benefits everyone on the Australia Pacific LNG Downstream Project.

**Special Recognition**

Presented to  
**BMD Waterways Joint Venture**

For Outstanding Contributions as part of the APLNG Project effort in YTD 2012.

Your work to date with ZERO serious injuries and no environmental incidents is greatly appreciated.

**BECHTEL**

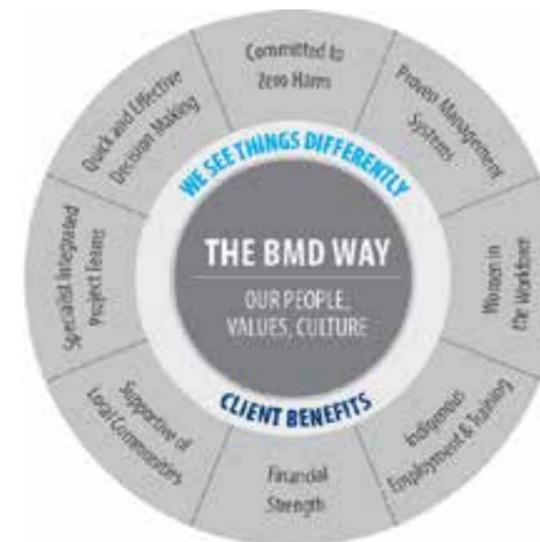
**ConocoPhillips**

*Danny O'Dell*  
Danny O'Dell  
Gladstone Site Manager

*Mike DiCarlo*  
Mike DiCarlo  
Bechtel Site Manager

## WHY BMD CONSTRUCTIONS?

**BMD Constructions is a wholly owned subsidiary of BMD Group and has 1,700 employees working throughout Australia supported by third party certified management systems, substantial balance sheet strength and the resources and flexibility of a large Australian owned private company.**



Long term client relationships have been the foundation of our success for over 30 years. BMD is committed to the highest standards of quality, service and value creation for all our clients. We regard every new contract as an opportunity to promote long term relationships and offer our new and existing clients a range of specific benefits including:

**Committed to Zero Harm** our behavioural based safety management system is supported by senior leadership and encourages personal responsibility towards safety and environmental management;

**Proven Management Systems** accredited by the Office of the Federal Safety Commissioner, our outcome focused approach is designed to deliver certainty through rigorous business systems maintained across all our projects, bringing a point of difference to our business;

**Financial Strength** based on consistent growth, projects are supported by a substantial balance sheet;

**Supportive of Local Communities** originating from a strong interest in providing long term benefits to all communities in which we operate, BMD proudly supports a strong network of local suppliers, subcontractors and industry associations. BMD also supports local community events and sponsorship programs;

**Specialist Integrated Project Teams** with expertise in construction of mine infrastructure incorporating all civil and industrial, mechanical disciplines;

**Quick and Effective Decision Making** achieved through a flat management structure that consistently results in outstanding performance;

**Indigenous Employment & Training** BMD is committed to equal opportunities in the workplace and has an Aboriginal and Torres Strait Islander Employment and Business Engagement Plan in place across the Group; and

**Women in the Workforce** compliant with the Equal Opportunity for Women in the Workplace Act alongside a number of initiatives implemented that focus on the development of female employees toward positions of management and leadership.

## MAJOR INFRASTRUCTURE - STRENGTH, DIVERSITY AND COMPLEXITY

### APLNG Combabula Gas Processing Facility - Civil Work, Yuleba North, QLD

Laing O'Rourke  
\$28 million

The Combabula site forms part of APLNG's upstream coal seam gas network in the Surat Basin. BMD Constructions was engaged to deliver the civil scope for the largest gas plant in the network comprising of three trains.

As part of the scope, BMD delivered five kilometres of sealed access road leading to the gas plant facility, 2.5 kilometres of internal roads within the facility, 1,400m<sup>3</sup> of concrete placed in numerous drainage and protective treatment structures along with 200,000m<sup>3</sup> of bulk earthworks and 150,000 tonnes of pavement material.

From early in the engagement process, BMD delivered Value Engineering (VE) concepts that significantly reduced construction costs without compromising any quality standards or negatively impacting on the construction programme. Some noteworthy VE opportunities were realised in optimising pavement designs, incorporating local materials into the design, reducing import materials by streamlining vertical geometry and challenging cheaper solutions for motor grids and protective treatments. Savings were delivered direct to the client and owner.

BMD are proud of the safety achievements, which resulted in zero recordable and Lost Time Injuries (LTI). BMD collaboratively merged with the client's safety programmes which received great appreciation from both Laing O'Rourke and APLNG.



APLNG Combabula Gas Processing Facility, QLD

### GLNG Fairview Hub 4 and 5 Surat Basin, QLD

Mitchell Water  
\$4.6 million

The Santos GLNG Fairview gas field located north of Roma in Queensland's Surat Basin, is home to two of three current major gas processing hubs. BMD Constructions was awarded the civils completion package at Fairview Hub 4 and 5 sites subcontracting to Mitchell Water for the delivery of the works.

The scope consisted primarily of constructing 35,000m<sup>2</sup> of sealed road network, seven kilometres of associated drainage swales fully lined with fabric and rock along with protective treatments to all pedestrian and access areas.

BMD were selected to carry out the work due to their commitment in overcoming a number of challenges that were overcome through cooperative communication, collaboration and drive between BMD Constructions, Mitchell Water and the Santos teams.

There were no reportable or LTIs sustained throughout the short but intense duration of the project.

BMD's management team received praise from local businesses who appreciated the effort that went into ensuring local suppliers and subcontractors were involved.



GLNG Fairview, QLD

### APLNG Material Offloading Facility Curtis Island, QLD

Bechtel Australia Pty Ltd (Oil and Gas)  
\$115 million

BMD Constructions was engaged to design and construct the Materials Offloading Facility. The work involved the design and construction of a Roll-on Roll-off (Ro-Ro) and Lift-on Lift-off (Lo-Lo) wharf on Curtis Island and is part of early works to facilitate the delivery of materials for the construction of the LNG plant.

The scope of works included; marine based piling construction of a 230 metre long HZ combi wall; installation of 30 metre anchor ties between walls within tidal zones; supply and transport of 300,000 tonnes of rock fill; placement of the rock fill behind the walls together with associated earthworks; and potential acid sulphate soils excavation and management.

The team comprised 35% of local residents, which reflects keeping the wealth in the local economy.

Proposed an alternative 'dumb barge' delivery process to mitigate delivery and program constraints. This was over and above anticipated tender methodology.

Provided additional berthing and transporting opportunities to assist client mitigate logistical constraints and achieved 300,000 hours of LTI free.



APLNG Material Offloading Facility, QLD

## MAJOR INFRASTRUCTURE - STRENGTH, DIVERSITY AND COMPLEXITY

### Legacy Way Brisbane, QLD

Brisbane City Council  
\$1.5 billion

Legacy Way is a 4.6 kilometre toll road tunnel connecting the Western Freeway at Toowong with the Inner City Bypass at Kelvin Grove. The tunnel forms part of Brisbane City Council's TransApex transport plan which is designed to reduce traffic congestion and increase connectivity on Brisbane's road network.

Transcity, a joint venture between BMD Constructions, Ghella and ACCIONA, was awarded the contract to design and construct the project, and operate and maintain Legacy Way for a period of ten years. The scope includes two parallel twin-lane tunnels linked by cross passages every 120 metres.

Project construction has involved world record breaking performance for tunnel excavation by two 12.4 metre diameter double shield Tunnel Boring Machines (TBMs). It is on schedule for 2015 completion and the successful delivery can be attributed to BMD's ability to deliver innovative design and construction solutions for both surface and underground activities.

In 2013, Transcity was internationally acknowledged as the winner of the Major Tunnelling Project of the Year award in the \$500 million category.



Legacy Way, QLD

### Hay Point Expansion Mackay, QLD

BM Alliance Coal Operations Pty Ltd  
Bechtel Australia Pty Ltd, \$175 million

BMD Constructions was originally engaged to deliver the client's pre-reclamation, quarry and reclamation contract as part of the overall expansion. Works largely involved the reclamation of 10.2 hectares of land including the excavation, processing and hauling of 1.3Mt of material.

During the performance of the original contract, BMD Constructions was awarded additional contracts comprising of the Onshore Civil Works and General Services Contract. The additional works included the construction of the concrete foundations, washdown slabs, underground conduit and services installation and site facilities maintenance and management.

BMD Constructions was awarded an additional \$125 million in contracts as a result of performance, safety initiatives, management and completing in excess of 650,000 hours LTI free.

After three years of construction, the completion of the major coal terminal expansion not only delivered to the highest technical standards but also placed staff and local businesses first.



Hay Point Expansion, QLD

### Cairns Bruce Highway Upgrade Cairns, QLD

The Department of Transport and Main Roads  
\$111 million

The BMD/ALBEM joint venture (Cairns Connect) was awarded a competitive ECI contract to design and construct a 3.4 kilometre solution for the southern approach into Cairns.

The project involves the construction of six bridges, two grade separated interchanges, two parallel service roads and upgrading 3.4km of the Bruce Highway to current design standards.

The Cairns Connect team worked with the designers, SMEC, to ensure the needs of the region were met, while the community relations team has continued to communicate on a regular basis with the public and stakeholders that are impacted by the project.

Currently the project is delivering 90% of the value of works by local subcontractors, suppliers and a locally engaged workforce.

The project team developed a piling solution in conjunction with TMR Bridge Branch and SMEC that saved the project \$2 million of direct costs by reducing pile lengths on all structures.

The project has also provided a number of indigenous employment opportunities, over the duration of the project.



Cairns Bruce Highway Upgrade, QLD

## RELEVANT EXPERIENCE - WATER SOLUTIONS

**BMD Constructions has successfully undertaken a range of water management projects and our capability encompasses expertise in pumping stations, processing plants, water storage, waste water, and water main construction.**

### Beneficiation Plant Water Supply Upgrade, Weipa, QLD

Comalco Minerals and Alumina  
\$2.9 million

BMD Constructions was engaged by Bechtel Services (Australia) to manage all engineering associated with the upgrade project.

In an effort to improve beneficiation processing plant operations at their Weipa bauxite mine, Comalco undertook a major upgrade of water facilities.

Key objectives were to maximise recycled water use, reduce quantity of natural water resource extraction, re-use existing infrastructure, and improve water supply reliability.

BMD Constructions maintained exceptional relationships on site and delivered the project ahead of schedule, under budget and with no interruption to plant operations.

The project was completed four weeks ahead of schedule and delivered \$600,000 below budget.

There was no loss of production for the client during works. 33,000 person hours were worked without a single lost time injury or industrial dispute.



Beneficiation Plant Water Supply Upgrade, QLD

### Orica, Rhodes Site Remediation Rhodes, NSW

Orica Australia Ltd  
\$7 million

Spanning across 20 hectares, Orica's waterfront site in Sydney's inner-west had been used by Orica and their subsidiary, Dulux, for the manufacture of chemicals, resins and paint since 1943. Subsequently, the site had become extensively contaminated with a variety of organic and inorganic contaminants, including lead.

BMD Constructions was contracted to remediate the site for future development.

The scope of works included the construction of bioremediation beds and on site land farming of over 80,000m<sup>3</sup> of material, on site remediation of organically contaminated materials and treatment of over 48ML of contaminated groundwater during a 20 month period.

Having undertaken a number of major remediation projects, BMD Constructions implemented proven measures to ensure that disposal and transport costs were minimised.

Notably the project won the 2001 Civil Contractors Federation (NSW) Case Earth Awards for Environmental Excellence – Category 3 (projects greater than \$10 million).



Orica, Rhodes Site Remediation, NSW

## RELEVANT EXPERIENCE - WATER SOLUTIONS

### Yabulu Tailings Dam Upgrade - Cell 1 Lift, Townsville, QLD

Queensland Nickel Pty Ltd  
\$4 million

Located approximately 25 kilometres north-west of Townsville in Queensland, the Yabulu Nickel Refinery produces nickel and cobalt in several product forms. The 'Cell 1 Lift' was designed to increase the existing tailings storage and storm water freeboard capacity within the tailings storage complex to meet the requirements of the next two years.

BMD Constructions was engaged to raise the dam by 4.5 metres which involved winning, placing and compaction of over 200,000m<sup>3</sup> of existing tailings to construct a 2.6 kilometre wall. The key challenge was working with the super saturated tailings that restricted the movement of conventional earthmoving equipment. To overcome this, the team sourced a local laser scoop, which achieved better movement across the boggy conditions.

The initiative to employ a laser scoop in lieu of conventional earthmoving equipment enabled BMD Constructions to overcome the project's major challenge and deliver an outstanding result for the client.

Despite difficult site conditions, BMD Constructions identified alternatives that delivered the client's specifications.



Yabulu Tailings Dam Upgrade - Cell 1 Lift, QLD

### South Maclean Water Treatment Plant Sludge Lagoons, South Maclean, QLD

Logan City Council  
\$308,271

Located 35 kilometres south of Brisbane city, South Maclean is part of the Beaudesert Shire Council, a growing area in Queensland's south-east corner.

As part of an overall upgrade, BMD Constructions was engaged to construct new sludge lagoons at the plant. Works involved, construction of two HDPE lined reinforced concrete drying beds, effluent and return pipework, bulk earthworks, rock retaining walls, installation of telescopic valves, access ramps, sand filter layers and perimeter fencing.

The project team overcame the greatest project challenge, to source filter medium to the specifications required within the budget and completed works prior to the South Maclean Water Treatment Plant connection to the Logan City Council mains.

BMD Constructions achieved the critical completion date which enabled the client to meet its overall master program milestones.



South Maclean Water Treatment Plant Sludge Lagoons, QLD

### Tarong Energy Ash Disposal to Mine Void, Kingaroy, QLD

Tarong Energy Corporation Ltd  
\$28 million

Located 180 kilometres north-west of Brisbane, the Tarong Power Station can supply electricity to the equivalent of eight cities the size of Toowoomba. BMD Constructions was engaged to design, procure, construct and commission its Ash Disposal System.

The system collects, liquefies, pumps, transfers and places ash slurry from the two Tarong power stations to an open cut mine void five kilometres away. Key deliverables in the ash collection involved two kilometres of 150 diameter XStrong carbon steel pipe, one mega litre steel tank, support structure and agitator and converting the ash to slurry (55% concentration).

The ash transfer system comprised of two sets of four 185 kilowatts slurry system pumps in series with half the route on the power station site and half across the mine. This involved four kilometres of 300 diameter HDPE lined steel pipe and ten kilometres poly pipe.

Key initiatives for success included prompt design development, identifying and expediting procurement of long lead time items and focusing on commissioning and operations early.



Tarong Energy Ash Disposal to Mine Void, QLD

## RELEVANT EXPERIENCE - WATER SOLUTIONS

### James Cook University Cooling Pipeline Works, Townsville, QLD

James Cook University  
\$4.8 million

James Cook University's main campus is located at Douglas, 13km from Townsville's central business district. With over 11,000 enrolled students, teaching staff and visitors frequenting the campus, works were undertaken within a highly restricted and busy environment.

While achieving the specified scope was straightforward, the logistics of managing works within a confined site, with restricted access, high road and pedestrian traffic, and unmapped underground services, provided a range of challenges for the team.

Despite these challenges, the team worked closely with the university's stakeholder group, providing continued public access, ongoing safety, and minimal disruption to campus life.

Achieved all targets including program, budget and stakeholder objectives, despite the presence of unmapped services and other logistical challenges.

Successfully achieved ongoing public safety and access with minimal disruption to campus activities.



James Cook University Cooling Pipeline Works, QLD

### Kelly's Storage Dam and Pump Station, Yeppoon, QLD

Livingstone Shire Council  
\$4.5 million

Located 20 kilometres north of Yeppoon, the 1,400ML Kelly's Off-Stream Storage Dam collects wet season flows, alleviating the demands on Waterpark Creek during the dryer periods.

The storage dam and pump station has been designed to reduce major costs by pumping to the dam during off-peak periods and then allowing the water to gravity feed to the treatment plant.

The scope of works included 250,000m<sup>3</sup> of earthworks to construct a zoned main dam embankment comprising a keyed clay core, downstream filter zone, upstream rock armouring and graded rock zones along with the construction of three clay saddle dams.

BMD Constructions initiated and developed an innovative alternative to win 33,000m<sup>3</sup> of rock armour from site as opposed to importing material, achieving a cost saving of \$270,000.



Kelly's Storage Dam and Pump Station, QLD

### Redlynch Reservoir Cairns, QLD

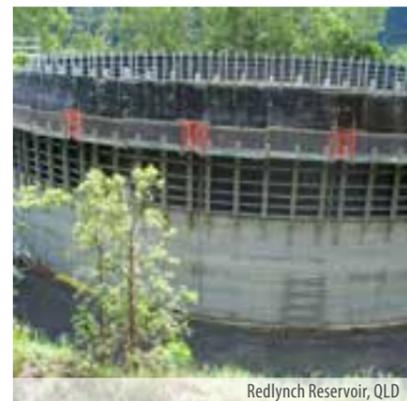
Cairns Water  
\$1.6 million

The Redlynch Reservoir was a council initiative to secure a high quality water supply for this fast growing community. With efficient water use already encouraged, the new infrastructure provided a reliable, all year round water source for the Redlynch community.

Drawing on the company's long established presence in North Queensland, BMD Constructions was engaged to design and construct the 8ML concrete reservoir including the steel roof structure, pipe work inside and outside the reservoir, earthworks, and site preparation.

As part of our commitment to environmental management, only environmentally safe and water based paints were used for both internal and external painting. All plastic paint containers were recycled by the subcontractor.

Supported by sound third-party certified environmental management systems, BMD Constructions provided the client with an experienced design and construction team.



Redlynch Reservoir, QLD

## RELEVANT EXPERIENCE - WATER SOLUTIONS

### Bayswater Power Ash Slurry Pipelines, Muswellbrook, NSW

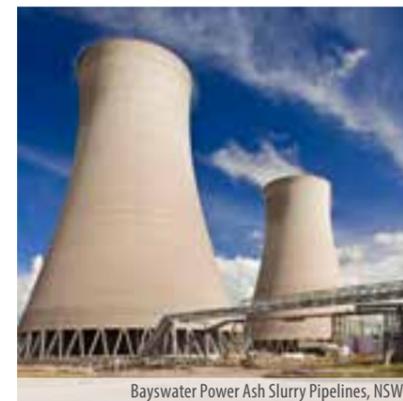
Macquarie Generation  
\$3 million

Bayswater Power Station is one of Australia's largest coal fired power stations. Bottom ash from the boilers was being pumped to a nearby dam through three basalt-lined steel pipes.

To replace the worn, underground piping network, BMD Constructions designed, procured and installed 90 tonnes of structural steel and associated concrete footings, supporting three-off 350 metres long runs of 457mm diameter basalt lined steel slurry transfer pipes.

The scope included a flow analysis of the existing system and proposal for a new above ground piping system to ensure there were no detrimental effects on existing slurry pump performance.

Numerous existing utilities and access ways were modified to allow the piping system to be installed in the shortest possible route within the power station. Tie-in points were designed for emergency situations to ensure the redundant piping system could be re-instated with minimum effort. The steel support assemblies were designed as modular systems where possible to minimise the extent of individual design elements which also allowed quick, repetitious fabrication which reduced site man hours for installation.



Bayswater Power Ash Slurry Pipelines, NSW

### Grahamstown Dam Discharge Channel, Raymond Terrace, NSW

Hunter Water  
\$3 million

Grahamstown Dam serves the water supply needs of Newcastle and the greater Hunter region. As part of ongoing upgrade works, BMD Constructions was engaged to construct the Pacific Highway Culvert (discharge channel) and associated works.

The new discharge channel allows water to pass from the Grahamstown Dam under the Pacific Highway and into the Irawang Swamp.

General scope of works included 80,000m<sup>2</sup> of clearing and grubbing, 120,000m<sup>2</sup> bulk earthworks and excavation to remove material from channel and temporary reinforced concrete wall across the channel entry to act as a control weir retaining majority of stored water in the event of a major flood.

BMD Constructions achieved practical completion of Separable Portion 1 on time and Separable Portion 2 was completed four weeks ahead of schedule.

The project team completed construction without environmental incident and without injury to project personnel.



Grahamstown Dam Discharge Channel, NSW

### Hay Point Pipeline Mackay, QLD

Ports Corporation of Queensland  
\$6.2 million

Commissioned by the Ports Corporation of Queensland, the 18 kilometre pipeline provides a supplementary raw water supply for the Port of Hay Point, 20 kilometre south of Mackay, supporting the growing coal terminal operations in the area.

BMD Constructions successfully worked within the Dalrymple Bay Coal Terminal and the BHP Billiton Mitsubishi Alliance terminals, meeting all safety, security and operational protocols.

The team suggested design changes to overcome conflicts with the existing underground services network, altering the original design alignment at no additional cost.

Notably, the team offered the client an alternate mPVC pipe over the specified uPVC pipe which reduced costs by approximately \$200,000.

In terms of environmental, the team established erosion and sedimentation controls that successfully re-established natural vegetation cover.

Overall BMD Constructions successfully managed multiple stakeholder groups including private landowners, local businesses, major coal terminal operators, and indigenous groups.



Hay Point Pipeline, QLD

## RELEVANT EXPERIENCE - WATER SOLUTIONS

### Yarrabah Water Supply Improvements, Yarrabah, QLD

Yarrabah Aboriginal Shire Council  
\$1.1 million

Yarrabah is located approximately 40 kilometres south east of Cairns, Far North Queensland and is the traditional land of the Gujangi tribe. BMD Constructions was engaged to perform works to improve water supply for the local aboriginal communities.

Environmental management was an important issue with all high risk activities such as creek and culvert crossings, and open pipe trenches undertaken during the dry season.

BMD Constructions maintained excellent relations with the local community and Elders during the entire construction phase. Additionally the team supported government employment initiatives with the employment of six aboriginal workers, providing a 'win-win' situation for the project resourcing and community relations.

Overall, BMD Constructions recognised its place within the community and provided as many employment opportunities as possible throughout the contract period.



Yarrabah Water Supply Improvements, QLD

### Landfill Facilities Brisbane, Townsville, Moreton Bay, QLD

Pacific Waste Management, Pine Rivers Shire Council, Townsville City Council, \$9.7 million

Landfill facilities play an important role in the achievement of environmentally sound waste management with the primary role being to accept residual materials that are unable to be reused, recycled or recovered. The construction of such facilities is detailed under strict EPA guidelines to ensure potential future emissions and, or environmental damage is negated.

BMD Constructions has undertaken several landfill projects that have all met the prescriptive EPA guidelines that control construction activities, future commissioning and long term performance of such facilities. Specialised activities include the placement and compaction of impervious clay liners, polyethylene liners and leachate systems.

The largest of the projects, the Brisbane Landfill Facility, was constructed across a three year period, spanned 99 hectares, involved 1,104,000m<sup>3</sup> of earthworks and had a contract value of \$5.8 million. It is designed to store household and commercial waste for 30 years.

BMD Constructions is well recognised for construction and environmental expertise within the waste management sector.



Landfill Facilities, QLD

### Kogan Creek Ash Slurry and High Pressure Water Pipelines, Brigalow, QLD

CS Energy  
\$3 million

Kogan Creek Power Station is a 750MW coal fired facility located in Brigalow, Queensland. BMD Constructions constructed a new ash disposal dam to replace the existing dam as well as ash transfer pipelines and a high pressure water wash down line to transport the ash slurry from the power station to the new dam, 4.6 kilometres away.

BMD was engaged to design, supply and install slurry lines, high pressure water lines, 26 wash stations, pipe supports and an automated crossover station that allows either slurry pump to discharge into either of the two lines.

The two slurry pipelines were 150NB, Sch 80 seamless pipe, painted and cut groove coupled with Shurjoint HP couplings. BMD Constructions designed and developed appropriate supports for the pipelines that allowed for maintenance, expansion and touch potential earth dissipation.

BMD Constructions developed innovative construction solutions which passed the pipelines across the creek. This included spanning on an existing 150 metre coal conveyor bridge, to ensure installation equipment remained outside the Kogan Creek environmental zone.



Kogan Creek Ash Slurry and High Pressure Water Pipelines, QLD

## RELEVANT EXPERIENCE - CIVIL CONSTRUCTION

**BMD Constructions offers civil construction services for major projects throughout Australia. Expertise, experience and resources are applied across a range of industry sectors including transport, airport and resources and energy.**

### Leichhardt and Dawson Highway Biloela, Wandoan, Taroom, QLD

Department of Transport and Main Roads  
\$89.5 million

The Fitzroy Package initially was a result of the 2011 floods affecting Banana Shire. During the reconstruction works, the area was affected by two further floods in 2013. The JV was awarded an extension to the existing contract to repair damage to the Leichhardt Highway following the more recent flood event.

The 2011 flood repair works covered a geographical area of 250 kilometres of the Leichhardt Highway and 90 kilometres of the Dawson Highway. The 2013 flood repair works covered a geographical area of 250 kilometres of the Leichhardt Highway.

BMD worked closely with the client to develop buildability of design resulting in a significant cost saving in gravel supply to the contract.

During the 2013 flood events, BMD worked collaboratively with the client in the flood recovery operations and despite significant delays, the project was delivered within programme and to budget.

The project's Community Liaison Officer assisted in developing strong stakeholder relationships which further developed the project team's fundraising activities raising in excess of \$15,000 for local charities.



Leichhardt and Dawson Highway Flood Reconstruction, QLD

### Mackay Whitsunday West Package Nebo, QLD

Department of Transport and Main Roads  
\$108 million

The Mackay Whitsunday West Package involved the reconstruction of 76.5 kilometres of flood damaged roads within the Nebo, Clermont and Collinsville regions and the works were delivered under the 'Natural Disaster Relief and Recovery Arrangements'. Due to the vast distances, each region (Nebo, Clermont, Collinsville) operates as its own project.

The scope of works included earthworks, pavement reconstruction, in-situ stabilisation, shoulder widenings and a combination of major and minor culvert replacements or upgrades.

The team undertook an accelerated works programme which included deployment of additional project teams and associated plant resources to three separate areas of the project. This along with accelerated quarry material procurement allowed works to progress concurrently thereby introducing significant time savings to the overall works programme.

Overall BMD Constructions reduced the programme duration significantly by four months.



Mackay Whitsunday West Package, QLD

## RELEVANT EXPERIENCE - CIVIL CONSTRUCTION

### Caval Ridge General Services Package, Moranbah, QLD

Bechtel Australia Pty Ltd  
\$24 million

Caval Ridge Coal Mine is owned by BHP Billiton Mitsubishi Alliance and is currently under construction to produce high quality hard coking coal to support BMA's growth options.

The mine is located southeast of Moranbah and will have the capacity to produce 5.5 million tonnes per annum. The project includes a new coal mine and a coal handling and preparation plant (CHPP). The CHPP will also process an additional 2.5 million tonnes per annum of product coal from the expansion of the neighbouring Peak Downs Mine.

BMD Constructions was engaged to construct the mine haul roads and pads, security access gates, mine industrial facility, coal processing plant facilities, train load out facilities, temporary warehouse facilities, general service installation and electrical work.

The project team achieved all cost, time, safety and environmental targets, leveraging BMD Constructions' expertise in the resource sector civil construction.

Overall BMD developed an excellent working relationship with the client meeting all environmental, safety and operational protocols.



Caval Ridge General Services Package, QLD

### Dalrymple Bay Coal Terminal 7X Expansion, Mackay, QLD

DBCT Management Pty Ltd  
\$102 million

The Dalrymple Bay Coal Terminal (DBCT) is located at the Port of Hay Point, 38 kilometres south of Mackay, Queensland. In 2004 the terminal commenced its seventh expansion (DBCT 7X) to increase the terminal's export capacity.

BMD Constructions was engaged to construct machinery Bund 5A. After achieving exceptional results, BMD was invited to tender on a sole source basis for many additional contracts.

Final works included bunds 4A, 5A and 6, Access road and Hay Point Road conveyor underpass, surge bin SB3 reclamation works and final site wide civil works - Stage 2.

Scored 96% compliance on Connell Hatch Safety Audit (90% benchmark).

All progressive handovers and completion dates achieved.

500,000 hours Lost Time Injury Free.

Accredited - Australian Government Building and Construction OHS Scheme. Winner - 2009 Engineers Australia Excellence Awards.



Dalrymple Bay Coal Terminal 7X Expansion, QLD

### New Parallel Runway Civil Works Package, Brisbane, QLD

Brisbane Airport Corporation Limited  
\$50 million

BMD Constructions was engaged as the head contractor to deliver the \$50 million Civil Works Package for the New Parallel Runway at Brisbane Airport.

This challenging project involved extensive clearing, earthworks, dewatering and acid soil treatments in soft soil conditions as well as significant airside works.

BMD has undertaken multiple projects for Brisbane Airport Corporation and our team has fostered a good working relationship with the client, and a clear understanding of the protocols associated with airside works.

A Traffic Management Plan was developed to control internal vehicle movements, ensuring a safe work place. BMD's innovative strategy to utilise fire tracks and an existing old road in lieu of constructing temporary roads, not only saved costs, but provided a superior internal haulage network that increased daily truck movements, thus maximising productivity.

BMD Constructions completed the project on time, ahead of budget and achieved a number of important environmental outcomes.



New Parallel Runway - Civil Works Package, QLD

## RELEVANT EXPERIENCE - CIVIL CONSTRUCTION

### Flood Saturation Damage Restoration Packages, Mackay, QLD

Mackay Regional Council  
\$6.7 million

Natural disasters and an extraordinary level of associated rainfall since 2007 resulted in significant damage to the region's road network, including both local roads and main arterials. The prolonged rainfall caused a rise in the water table level and saturation of road subgrade foundations and pavements which weakened the road structure and resulted in an unprecedented level of deterioration.

BMD Constructions was engaged to repair flood damaged roads in Mackay, laying 160,000m<sup>2</sup> of in-situ cement stabilised pavement. Works also included a two coat seal, asphalt and line-marking.

The project team worked closely with the client to manage communication with the community and reduce inconvenience.

Overall BMD Constructions built a positive relationship with the client that supported community communications and provided fast solutions to unforeseen technical issues.



Flood Saturation Damage Restoration Packages, QLD

### Farrelly's Lane Reconstruction, Mackay, QLD

Mackay Regional Council  
\$6.9 million

Forming part of the arterial road network, BMD Constructions was engaged to reconstruct the existing dual carriageway. Scope of works included 2.5 kilometres of storm water culvert system into a tidal main drain, sewer and water reticulation, concrete median, trenching and conduit laying, installation of traffic signals, lighting improvements, landscaping and associated civil works.

Services clashes with new infrastructure were discovered and resolved as early as possible, by engaging BMD Consulting to redesign some major storm water structures. The ability to leverage off BMD's internal resources expedited the solution and assisted the team with minimising disruption.

Exceptional performance laid the foundations of a positive relationship with Council advising BMD Constructions that it is a preferred contractor for Council works.

BMD Constructions showcased its expertise and ability to effectively execute a well planned, accelerated program that achieved time, cost, commercial, stakeholder and environmental targets.



Farrelly's Lane Reconstruction, QLD

### Newlands Mine Suttor Creek Haul Road, Glenden, QLD

Xstrata Newlands Coal Mine  
\$6 million

Located 129 kilometres west of Mackay, the client's objective was to eliminate heavy mine traffic crossing the Glenden-Newlands Road, a main access route between the mine and the Glenden township.

Developed with a 25 year design life for use by 350 tonne coal hauling trucks, the width of the alignment for the two-way road and associated infrastructure is approximately 40 metres. An additional 8.6 kilometres of haul road construction comprising of a 400mm thick select layer and a 100mm thick gravel layer was also undertaken.

The project team maintained positive client contractor relations throughout the project. Newlands Coal commented on their high level of satisfaction with BMD Constructions' commitment to safety and quality.

Notably, the team successfully absorbed a number of significant variations into the original program.

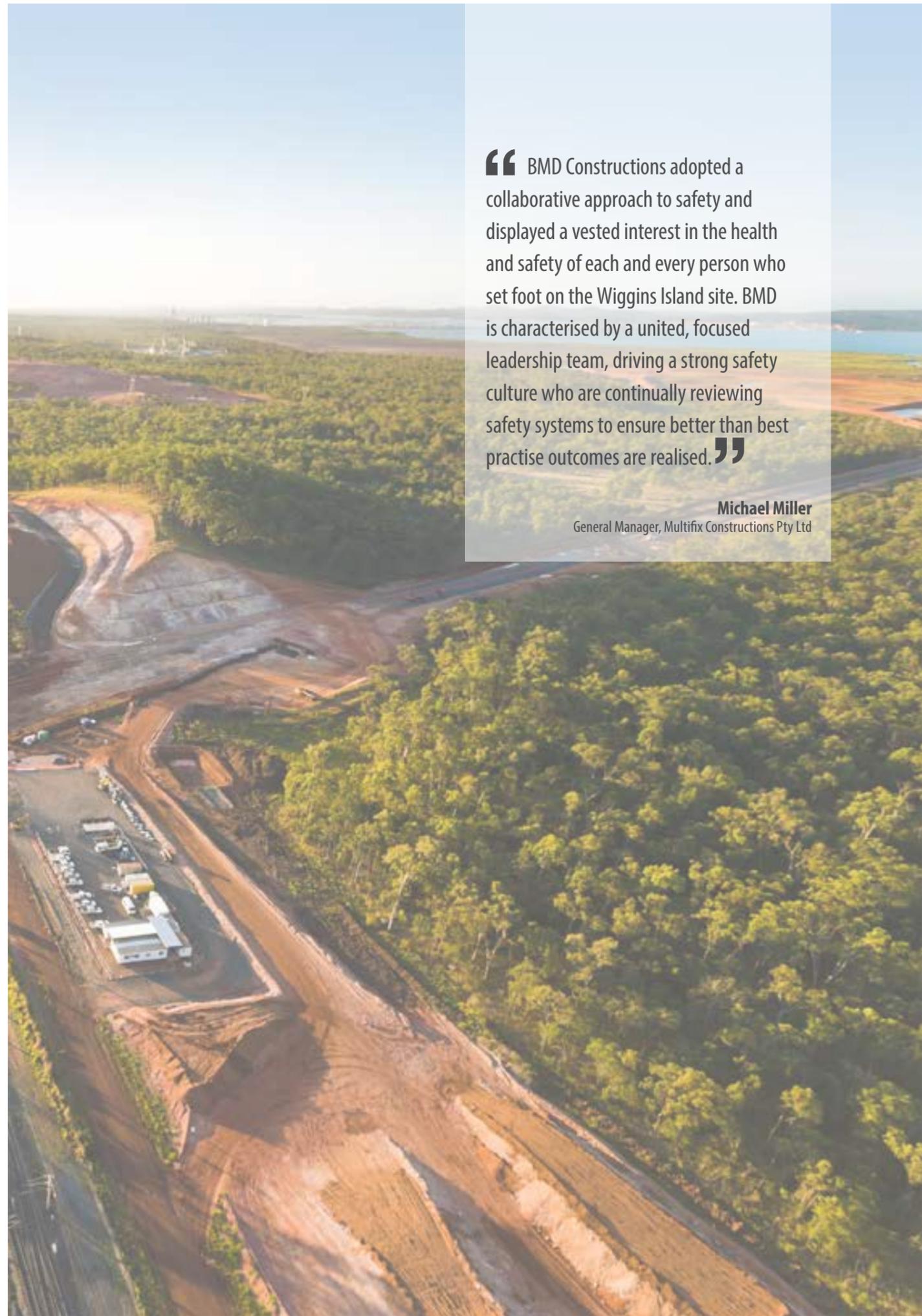
Overall BMD Constructions achieved an early completion date despite significant scope increases that were initiated during the construction period.



Newlands Mine Suttor Creek Haul Road, QLD



Wiggins Island Coal Export Terminal, QLD



“ BMD Constructions adopted a collaborative approach to safety and displayed a vested interest in the health and safety of each and every person who set foot on the Wiggins Island site. BMD is characterised by a united, focused leadership team, driving a strong safety culture who are continually reviewing safety systems to ensure better than best practise outcomes are realised.”

**Michael Miller**  
General Manager, Multifix Constructions Pty Ltd

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