

THE
**BROWN
REPORT**

Vision
Aligned



When Every
Cent Counts



Smart
Solutions for
New Hospital
Precinct



Rejuvenated
Aquatic
Centre Makes
a Splash



**+ MORE
INSIDE**

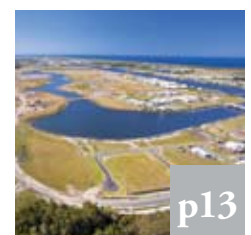
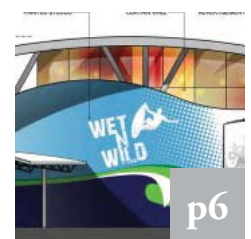
THE BROWN REPORT

2011 / 2012 *SUMMER EDITION*

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Managing Director's Message



As 2011 draws to a close I reflect on what an exciting and pivotal year this has been for Brown Consulting. Since our last *Brown Report*, our Melbourne and Geelong operations transitioned from Brown & Tomkinson to the Brown Consulting brand. At the same time, Brown Consulting refreshed its corporate identity and introduced the Smart Consulting tagline.

In July, we welcomed PDR Smart Structures to Brown Consulting. As you will read on p4, under the leadership of Paul Davis and Raja Rajalingam, this Sydney-based structural firm has developed an enviable reputation as one of the region's leading engineering consultants. In recognition of Paul Davis' expertise, he has been appointed National Group Leader – Structures.

“Without doubt the most significant change this year has been Brown Consulting's union with Calibre Global.”

Without doubt the most significant change this year has been Brown Consulting's union with Calibre Global. Calibre is one of Australia's fastest growing engineering and project delivery firms with around 1600 staff. Whilst Brown Consulting's ownership has changed, our brand and management team will remain. Our new partnership with Calibre means that clients will now have a broader pool of talent to call upon. Additionally, our staff will benefit from the ability to provide civil and structural engineering services to major resource projects. I look forward to sharing success stories in future editions of *The Brown Report*.

I would like to take the opportunity to thank all of the former directors of the Brown Consulting board. Whilst there are too many to list, each person's contribution has been appreciated. The entire board has worked tirelessly to ensure Brown Consulting fulfilled its potential and strategic goals. Together with our new colleagues at Calibre, our combined group will continue its commitment to Brown's success.

The year cannot come to an end without thanking our clients for their ongoing support. Delivering services to support our clients is our business, and we appreciate the ongoing trust which clients place in us.

I'd also like to recognize the significant contribution of our co-consultants and contractors, as well as the commitment of our diligent staff. I know my sentiments are shared by the rest of the management team and I look forward to our continued association in 2012 and beyond.

Regards,



Gary Spence
Managing Director, Brown Consulting

Vision Aligned

COVER STORY

When two companies consider joining, client types, services lines and financial matters are always discussed. Whilst these factors were a consideration in the PDR Smart Structures and Brown Consulting union, the standout reason to merge was the aligned business goals of both companies.



Photos: (left to right) Cochlear Headquarters at Macquarie University; Paul Davis (L) and Gary Spence (R).

“Both Paul Davis and I have a very clear picture of where we wanted the businesses to be,” said Gary Spence, Managing Director of Brown Consulting. “Paul wanted to expand nationally and we sought to broaden our structural capabilities in the NSW market. So the union made sense.”

“The Smart Structures philosophy aligns with our design approach of delivering technically robust and practical solutions,” said Mr Spence.

PDR Smart Structures and Smart Civil, who recently adopted the Brown Consulting brand following the merge, are a 25-person team with a reputation for producing quality high-rise residential, retail, commercial and industrial projects, both in Australia and internationally.

Mr Spence said over the last six years Directors’ Paul Davis and Raja Rajalingam have developed an enviable market position. “Experience and leadership – as well as Paul’s passion for bringing architectural ideas to life, were qualities we wanted to tap into,” commented Mr Spence. On joining the Brown team, Paul Davis was appointed as National Group Leader – Structures.

“My team and I have been fortunate enough to work on some amazing projects and with some great clients,” said Mr Davis.

Paul Davis and Raja Rajalingam have led the design of projects as renowned as the Sydney International Airport, Heathrow T5 Terminal Entrance project, King Street Wharf and Darling Park, Stages 1 and 2.



“The Smart Structures philosophy aligns with our design approach of delivering technically robust and practical solutions.”

Recent projects undertaken by the Smart Structures team include Cochlear Headquarters at Macquarie University, the award winning Audi Lighthouse Project at Zetland, and the landmark 383 George Street Development in the CBD of Sydney. The team has also been awarded the structural design of the basement walling at Barangaroo, one of Australia’s largest redevelopment projects.

According to Mr Davis, every project has its own challenges and unique characteristics, but the projects around Sydney’s waterfront have been just that “little bit” more special. “Specialist projects, particularly those in waterfront locations, require smart planning and smart design solutions,” said Mr Davis.

“Our proven capabilities in major project work and our knowledge and experience in poor ground conditions allow us to minimize risk and cost for our clients. We are a structural and civil engineering organisation that revels in challenging projects,” said Mr Davis.

Photos: (above top to bottom) Artist’s Impression Parkview Development; Proposed redevelopment of PNG’s Old Parliament House site; Barangaroo Redevelopment, Sydney; 383 George Street, Sydney; Artist’s Impression East Quarter.



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Wild about New Water Park

The Water & Environment group in Brown Consulting's Sydney office is 'wild' about one of their newest projects, but in the best way possible.

The Brown Consulting team was engaged by Village Roadshow Limited to carry out the Integrated Water Cycle Management Plan for a new Wet 'n' Wild theme park in western Sydney. Wet 'n' Wild Sydney will boast the biggest wave pool in the southern hemisphere as well as river rides and sand beaches.

Brown Consulting's Senior Project Manager Peter Fagan said the local community is excited about the new \$80 million water park. "Wet 'n' Wild will be a major tourist attraction for western Sydney and create well over 300 jobs for the area, so we're very pleased to be involved," said Mr Fagan.

“ We had to meet strict water quality requirements while also looking at ways of making water use as sustainable as possible. ”

“Obviously effective water cycle management will be central to the successful operation of the park. In developing our Integrated Water Cycle Management Plan, we had to consider water demand for the rides, pools, irrigation and facilities such as food services. At the same time we had to meet strict water quality requirements while also looking at ways of making water use as sustainable as possible. One solution that meets both these criteria is harvesting runoff water and using it for public amenities and on the park's landscaping,” he said.

As well as water and environment expertise, Brown Consulting will be developing the detailed design for associated road works, carpark and earthworks for the platforms that the rides will sit on. During the construction phase, Brown Consulting will also



Wet'nWild SYDNEY



Photos: (top to bottom) Site Plan; Logo; Proposed building

provide superintendency services for the earthworks, roads and intersection.

Residents and visitors to Sydney will be able to enjoy Wet 'n' Wild Sydney from September 2013.



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Creating a Sustainable Community

Sustainability is a key philosophy behind Googong, a master planned township located eight kilometres south of Queanbeyan's CBD in New South Wales.

From the use of the land and the inclusion of extensive green space, through to the planned village centres and environmentally efficient integrated water cycle infrastructure, future residents of the Googong township can be sure they're doing their part to help preserve the natural surrounds.

The \$1.6 billion township of Googong will be built on 780 hectares of former grazing land and take 20 to 25 years to create. Once completed, it is estimated the township will be home to about 16,000 people.

CIC Australia has engaged Brown Consulting to provide civil engineering design and project management services for the town's bulk civil infrastructure and the initial release of 337 lots.

Tony Connell, Brown Consulting Urban Development Manager – ACT, expanded on the key sustainability elements of Googong.

“Over 23 per cent of the land has been set aside for recreational areas and parks. Additionally the master plan for the site recognises the environmental significance of Montgomery Creek, which is a local watercourse and riparian corridor. Rather than having to ‘work around’ this important tributary, in consultation

with the developers and planners, Brown Consulting recommended that the creek become a fundamental part of the design,” said Mr Connell.

“The township has been divided up into five neighbourhoods, each with their own village or town centre. As a result, residents won't have to travel far to access amenities,” he said.

“ Brown's Consulting's technical skill, collaborative approach and ability to find innovative solutions to infrastructure challenges while working to our budget and program, is greatly valued. ”

Mark Attiwill, CIC Australia's Googong Project Director, adds “Brown Consulting has been an integral part of Googong's infrastructure planning. Their technical skill, collaborative approach and ability to find innovative solutions to infrastructure challenges while working to our budget and program, is greatly valued.”

Googong's planned integrated water cycle infrastructure was recently recognised at the Stormwater Industry Association of NSW 2011 Conference, receiving the Excellence in Strategic or Master Planning award.



Photo:
Googong
Master
Plan
(concept
only).



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When Every Cent Counts

In responding to a medical emergency every second counts. A fast response time may mean the difference between life and death. Similarly the very survival of CareFlight is dependent on the generous donations and support from both individuals and corporates. In this scenario, every cent counts.



When Michael Apthorpe, Project Manager from CareFlight approached Brown Consulting's Sydney office in October 2010 to provide engineering services in the upgrade of its western Sydney facility, Brown Consulting's management team felt they could help.

"Like any business it's impossible to support every cause, but when we were approached by CareFlight we knew that our donation would be a win-win for both parties," said Toby Tames, Manager – Urban Development (NSW).

"Not only would we be supporting a very worthy cause, but our surveyors and engineers would have the opportunity to contribute to the redevelopment of the upgraded helicopter facilities at the Westmead Hospital site. So whilst we're not the ones out there saving lives, we're doing our bit to make it possible," said Mr Tames.

Don Kemble, CareFlight's Manager of Community Engagement said that it was only with the generous support of companies like Brown Consulting could CareFlight continue its mission.



“Not only would we be supporting a very worthy cause, but our surveyors and engineers have had the opportunity to contribute to the redevelopment of the upgraded helicopter facilities at the Westmead Hospital site.”

Photos: (opposite & above) Toby Tames (Brown Consulting) and Don Kemble (Manager, Community Engagement) inspect the site for the upgraded CareFlight facility.

“Our charter is to save lives, speed recovery and serve the community,” said Mr Kemble. “Whilst the mission is simple, it is only with community and business support that we can continue to operate. Whilst our base is the result of many years of generous contributions, it is no longer safe or effective, and Brown Consulting’s contribution will vastly improve our operations.”

“The existing facility at Westmead has evolved over 25 years and its ad-hoc development has resulted in many OH&S and operational problems. The new concrete aprons, retaining walls and building platforms will mean that CareFlight will be able to more readily move the helicopters between hangars for servicing. The relocation of the fuel storage facilities also has additional safety benefits,” said Mr Tames.

The survey work for the upgrade is complete and the detailed design is now underway. Construction will commence in early 2012, with the opening planned for late 2012.

Brisbane's Lakes District

Just 19 kilometres north of Brisbane's CBD is the award-winning Warner Lakes. Warner Lakes, developed by Peet on behalf of the Peet Warner Lakes Syndicate Limited, is a 1200 lot master planned mixed-used community which features four beautifully landscaped lakes, open parkland, 14 kilometres of walking and cycling trails and a regenerated riparian creek corridor.



The development was recently awarded the prestigious 2011 UDIA award for Queensland's Best Residential Subdivision.

Ian Webb, Brown Consulting's Project Manager for the development said that Warner Lakes well-deserved the accolade. "From the outset Peet has had an uncompromising vision. Who would have thought that a former potato farm could be transformed into one of Brisbane's most liveable and sustainable communities?" said Mr Webb.

"The win is testament to the planning, drive and vision of Peet. As the lead engineering consultant, I'd like to think we've also played our part in bringing the project to life," said Mr Webb.

Ian Webb's involvement in Warner Lakes predates his time at Brown Consulting. "I've been involved with the development for more than 10 years.

“ The swales, lakes, open parkland and creek area contribute to the filtration of stormwater. ”

When my former company, Eraland, joined with Brown in 2005, so did the project," he said.

The development also features 13.5 hectares of rehabilitated creekflats, nine biofiltration basins, two swales and wetland planting around the shores of four lakes. "At Warner Lakes, sustainability and visual amenity go hand-in hand. The swales, lakes, open parkland and creek area contribute to the filtration of stormwater," said Mr Webb.

Managing Director and CEO of Peet Limited, Brendan Gore, said the entire project team's efforts, including the contribution from Brown Consulting, has helped transform Warner Lakes into a safe, desirable and family friendly community.

Brown Consulting's Brisbane team continues to work with Peet on stages 301 to 304 of Warner Lakes and is also working with them at Riverbank, Caboolture.

Photo: The large lake is a feature at Warner Lakes.



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Designing Tomorrow's Suburbs Today

Designing roads and infrastructure to service communities of the future is something the Roads & Traffic unit in Brown Consulting's Canberra office takes in its stride.

The team is currently providing a range of specialist professional services for two key road projects along Horse Park Drive, one of the major arterials in Canberra's northern suburbs.

Brown Consulting Project Manager Linda Mulyadi said the two road extension projects would support increased traffic from several adjacent suburbs that are currently in the development phase.

"The interesting thing for our team has been designing with the future in mind. These suburbs don't exist yet, so for us it was very important that we engage with the key stakeholders including government agencies, service authorities and concurrent designers of adjacent developments to understand the potential needs of the community," said Ms Mulyadi.

“ It was very important that we engage with the key stakeholders including government agencies, service authorities and concurrent designers of adjacent developments. ”

By actively liaising and coordinating with key groups, Brown Consulting is delivering designs that are appropriate for the project and the future users.

"The first Horse Park Drive extension is an ACT Shared Services Procurement project and consists of 2km of road, a bridge, intersections and a water quality pond. Brown Consulting's Melbourne office



is developing the design for the bridge component, while our Brisbane engineers are working on the water quality pond, which will treat runoff water and harvest stormwater," she said.

"The second road extension is a Land Development Agency project. The Canberra and Melbourne offices are working together to deliver designs for 1.6km of road, a bridge and intersections. This section of road runs to the Moncrieff West Estate, a residential estate that Brown Consulting's Urban Development team in Canberra is also contributing to," Ms Mulyadi added.

Construction for both projects is anticipated to commence in 2012.



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Rejuvenated Aquatic Centre Makes a Splash

The rejuvenated Annette Kellerman Aquatic Centre in the Sydney suburb of Marrickville is making a splash thanks to its new state-of-the-art facilities.



Originally built in the 1970's and housing one 25m indoor pool, the centre needed to be redeveloped to better cater for the community's needs. The Annette Kellerman Aquatic Centre's architects, Suters Architects, called on Brown Consulting to deliver the structural and civil design and documentation for the new centre.

Tony Spencer, Brown Consulting Regional Manager – Victoria, said the firm's Melbourne office is experienced in helping create modern aquatic complexes. "Our team has a strong understanding of structural design for pools, as well as the building components. We're able to seamlessly coordinate both elements, adding real value to projects like the Annette Kellerman Aquatic Centre," said Mr Spencer.



“ Key features include a 50m pool, a learn-to-swim pool, a leisure pool, tiered seating for up to 150 people, upgraded change rooms and a Wellness Centre. ”

The revamped Annette Kellerman Aquatic Centre now offers patrons a range of new and improved leisure facilities. Key features include a 50m pool, a learn-to-swim pool, a leisure pool, tiered seating for up to 150 people, upgraded change rooms and a Wellness Centre.

The development was not without its design challenges. "Being a structure that houses several pools, we had to consider the location of the supporting columns and ensure the design incorporated a clear span roof over the pools," explained Mr Spencer.

"Also, future additions to the roof could include photovoltaic cells, which would allow the Centre to convert solar energy to electricity. Therefore, the roof needed to be able to support the extra weight of the cells," he added.

Photos: The Rejuvenated Annette Kellerman Aquatic Centre



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Smart Solutions for New Hospital Precinct

Delivering the roads and services infrastructure to support the new \$2.03 billion Sunshine Coast University Hospital has required intelligent thinking.



Located in a future highly urbanised area and with a very limited project timeline, Brown Consulting has had to be smart and innovative in their design and project management approach.

Stockland appointed Brown Consulting to be the Principal Consultant and Civil Engineering Consultant for the design and construction of a key aspect of the hospital precinct. This will see Brown Consulting's Sunshine Coast office design and project manage a \$20 million project component, which includes major roads and intersections, trunk watermain and the duplication of a trunk sewer rising main and pump station.

Shaun Pilcher, lead engineer for the project, explained how the stormwater works in particular have posed both space and technical challenges.

"Ordinarily, stormwater quality treatment takes up a lot of space. For this project, the location of the stormwater treatment solution is within a very restricted road reserve that is surrounded by a dual carriageway road and existing services infrastructure," said Mr Pilcher.

Ian Worthington, Development Manager at Stockland Sunshine Coast said the key considerations for Stockland appointing Brown Consulting for this

part of the project was their ability to work with council and other service authorities and their ability to develop smart alternatives to unique problems.

The design and construction timelines for the project have also been limited. "The bulk of the infrastructure has to be built by mid 2012 to coincide with other important milestone dates for the precinct. As a result, the timelines for the design and construction are much shorter than the normal timeframe," Mr Pilcher said.

“ Brown was appointed for their ability to work with Council... and their ability to develop smart alternatives to unique problems. ”

"The Brown Consulting team is working closely with consultants, council and service authorities ahead of time and ordering materials in advance to avoid delays. I'm confident that by taking this different approach, we'll be able to ensure the new hospital is provided with the infrastructure it needs to service the community," commented Mr Pilcher.

Photo: The site of the future Hospital Precinct.



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Experience the Key for Canberra Estate

Brown Consulting's Canberra office has a strong history of helping plan and deliver large-scale residential estates throughout the Australian Capital Territory. With the development of the Moncrieff West Estate in north Canberra that trend is set to continue.

With a project value of approximately \$50 million, Moncrieff West Estate will consist of 1,000 dwellings and be built over four stages. Local amenities will include a retail and commercial group centre as well as a community facility.

The Brown Consulting team has been commissioned by the Land Development Agency to prepare the estate development plan, development application and detailed design.

Peter Lewis, Senior Project Manager – Urban Development, explained the positive impact of Brown Consulting's extensive urban development experience on the Moncrieff West Estate.

"We're renowned for our ability to successfully plan and design large estates. For Moncrieff West Estate, we are not only applying this technical know-how, but also our deep understanding of local issues and development processes," said Mr Lewis.

"The estate is located next to Moncrieff East Estate, which is being built concurrently. Thanks to our experience in working collaboratively with key project stakeholders, we've been able to effectively

coordinate with the Moncrieff East Estate consultants throughout the initial planning phase," he said.

“ Thanks to our experience in working collaboratively with key project stakeholders, we've been able to effectively coordinate with the Moncrieff East Estate consultants throughout the initial planning phase. ”

As part of the project, Brown Consulting's Roads Group will undertake the design of two arterial roads. Provisions are also being made in the planning and design stages for an intertown public transport facility, which will run through the Moncrieff West Estate.

Brown Consulting is currently developing the master plan to determine the layout of the estate, with the estate development plan to be lodged in early 2012.

Photo: Moncrieff West Estate development plan



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Right Place, Right Time

Andrew Ngo, Senior Project Engineer with Brown Consulting's Brisbane office is a living example of being at the 'right place at the right time'.



Image: Andrew Ngo on site at Rochedale.

Well, at least his mother was. Whilst Andrew was off enjoying a short sabbatical after finishing his Bachelor of Civil Engineering degree, a certain Managing Director was enjoying a meal at one of the restaurants owned by Andrew's family. Andrew was talked up, business cards were exchanged and an interview was arranged.

"If you've ever met Gary Spence, he can be quite persuasive, especially to a fresh graduate out of uni who'd just gotten off a plane. The day after my interview I started work," said Andrew.

Andrew cites the development at Rochedale (17km south of Brisbane's CBD) as his most rewarding. At Rochedale, Brown Consulting is acting as a key consulting engineer for four clients; namely Pask Group, FKP, Watpac and Bay Vista.

"I was fortunate to be given the unique opportunity to work on Rochedale at a very early stage of my career. Whilst the project has tested me in various ways, the support from everyone involved, has made me a better engineer."

Andrew says that both the clients and the team at Brown are great to work with. He's also confident that the team lives up to its new tagline, Smart Consulting. "The team at Brown is energetic and results driven. Coupled with the depth of experience in all things urban, I have great confidence in our ability to perform above the rest," said Andrew.

“ If you've ever met Gary Spence, he can be quite persuasive, especially to a fresh graduate... The day after my interview I started work. ”

Andrew believes that the senior leadership team has been approachable, inspiring and insightful. "Over the years the Senior Managers have given me a great deal of invaluable career and personal advice. External consultants, authorities and contractors have also been good to work with," said Andrew.

According to Andrew, being a good Project Manager is as much about thinking on your feet as it is about technical leadership.

"Innovation is all about thinking outside of the box. It means coming up with appropriate solutions. As engineers we are constantly searching for better and more efficient ways to do things," said Andrew.

Andrew is a young man inspired to perform. "My goal is to give clients the best possible outcome for their project. Put simply 'results and value'," he said.



Office
Locations:

- > Brisbane
- > Canberra
- > Geelong
- > Melbourne
- > Sunshine
Coast
- > Sydney
- > Singapore

For more information
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