



ABERGELDIE COMPLEX INFRASTRUCTURE



Wollongong STP Biosolids Handling Odour Control

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KEEPING YOU IN THE LOOP....

In 2010 we have continued to win industry recognition for the high quality workmanship we have achieved on our projects.

In this newsletter we provide information on our current projects as well as the three projects we are particularly proud of that have been finalists or won awards this year. They are all high quality complex projects safely carried out to the satisfaction of our clients.



These projects are: the major upgrade at Lower Molonglo Waste Water Quality Control Centre in the ACT, the Recycled Water System at Wollongong Sewerage Treatment Plant and the Ventilation Shafts at BHP Billiton's Dendrobium Mine in the Illawarra.

We also take this opportunity to update our clients on the progress of the Barton Highway Bridge project in the ACT.

Mick Boyle
Managing Director, Abergeldie Complex Infrastructure™



Current Projects

complex infrastructure project update



Dewatering Facilities at Kincumber and Woy Woy STPs

GOSFORD CITY COUNCIL

The design and construction of building structures, truck loading bay, conveyors and load out bins, electrical, balance tanks, pipe systems, polymer systems and miscellaneous steelwork. Works are taking place in two of the NSW Central Coasts STPs (Woy Woy and Kincumber).

Value \$5 000 000



Burrows Road Earth and Pressure Balanced Cable Tunnel

ENERGY AUSTRALIA

Tunnelling has finished and the job is now 90% complete. The new water tight underground tunnel will carry 6 x 132kV cable circuits which will form part of the reconfigured Energy Australia Network from TransGrid's Beaconsfield South Substation. The 87m Long and 2800mm diameter tunnel is approximately 5m below Burrows Road in Alexandria, Sydney. The top of the tunnel is located 4m below the watertable and is within 100m of the Alexandria Canal.

Value \$ 9 000 000



Austar Mine No.3 Ventilation Shaft

AUSTAR COAL

Drilling is running at a steady pace with the job now about half way through and on track for completion early next year. The 465m deep shaft will be used to provide ventilation and access to Austar's Stage 3 underground workings. With a composite steel and concrete lining and a finished internal diameter of 4.5m, the shaft will be water tight and maintenance free.

Value \$18 000 000



Dora Creek WWTW Stage 2 Upgrade

HUNTER WATER CORPORATION

Construction is now 95% complete. Abergeldie has installed new inlet works, septage receiving systems, a soil bed filter, switchroom, two new clarifiers, pump stations, modification of two bioreactors, and all associated mechanical and electrical works, pipework and pumps. New access roads, landscaping, testing, commissioning and demolition of the existing inlet are currently taking place.

Value \$20 000 000

AWARDS AND ACCOLADES

CIVIL CONTRACTORS FEDERATION EARTH AWARDS

Abergeldie is pleased to announce a win in Category 4 (\$20M - \$75M) at the 2010 Civil Contractors Federation Earth Awards in the ACT, with three projects also becoming finalists in the NSW CCF Awards. The Lower Molonglo Waste Water Quality Control Centre Augmentation was completed for ActewAGL and was awarded to Abergeldie after a need was identified for increased capacity of the secondary treatment processes. The new facilities added to the plant allow Lower Molonglo WWQCC to cater for increased waste water inflows due to increasing population; and allow the secondary treatment facility to operate effectively for a continuous peak wet weather inflow of 3 times average dry weather flow and an instantaneous peak wet weather inflow of 4 times average dry weather flow. During the course of the works, ActewAGL actively promoted innovation, and Abergeldie actively sought to propose and implement innovative solutions for the benefit of the project. While some of the innovations were relatively small in nature, many together with larger innovations were instrumental in providing project savings to ActewAGL and a reduced construction period. Environmental constraints of the projects involved protection of a vulnerable threatened species as the area surrounding Lower Molonglo River and the WWQCC is a protected zone for the Pink Tailed Worm Lizard (*Aprasia Parapulchella*).

NSW AUSTRALIAN WATER ASSOCIATION AWARDS

Earlier in the year Abergeldie entered the NSW AWA Awards and became a finalist in the category for Infrastructure Project Innovation with our Sydney Water project - Wollongong STP Recycled Water System Stage 2. This project was primarily designed to enhance the quality of the tertiary filtered effluent system by way of chemical dosing (Caustic, HYPO and Sodium Metabisulphite), UV treatment and a Chlorine Contact Tank (CCT). Abergeldie Young Process Engineering carried out detail design, supplied and installed all civil, mechanical, electrical and software work. The Wollongong Sewerage Treatment Plant was successfully completed to the satisfaction of the client and now reticulates disinfected tertiary treated effluent (TTE) to the 3 major stake holders of the project - Port Kembla Coal Terminal, Wollongong Golf Course and Wollongong City Council. The project has increased the recycled water use by 1.6 ML/day and replaces approximately 1.4 ML/day of potable water.

ENGINEERS AUSTRALIA AWARDS

In September, Abergeldie attended the Engineers Australia Awards in Sydney. An entry was submitted under the category of Project Management and we are proud to say our submission - The BHP Billiton Dendrobium Mine Shafts 2 and 3 – was selected as a finalist. Abergeldie designed and constructed two additional shafts at BHP Billiton's Dendrobium Coal Mine, within the environmentally sensitive Illawarra escarpment west of Wollongong. The shafts needed to be designed for a 50 year life span and were required to be fully hydrostatic. The shafts were constructed using the blind bore drilling method.



Above Left: Dendrobium Mine Shafts 2 and 3 - BHP Billiton Centre: CCF ACT Awards Night

Right: Lower Molonglo Waste Water Quality Control Centre Augmentation - ActewAGL (LMWWQCC is operated by ActewAGL on behalf of the owners ACTEW)

Below Left: Port Kembla Coal Terminal using reticulated TTE from the Sydney Water Wollongong STP Recycled Water System

ECD VIEWING PLATFORM

On 16 September 2010 the Enlarged Cotter Dam (ECD) Viewing Platform was officially opened by the Chief Minister for the ACT, Jon Stanhope. The ECD Viewing Platform is located directly adjacent to the former trout hatchery on the lower slope of Moores Hill below Brindabella Road. The location of the viewing platform allows locals and tourists to view the ECD construction and the main dam wall post construction.

The viewing platform carries interpretative and commemorative information about the ECD project and the story of water and Canberra.



BARTON HIGHWAY BRIDGE

On 14 August 2010 Abergeldie had a formwork collapse during a concrete pour on the Barton Highway Bridge project in the ACT. It was a serious incident injuring 10 people. Most of the injured people are now back at work and the remainder are expected to make a full recovery over the next few months. The falsework was designed by a reputable design company and signed off as adequate by the design engineer. The design however has been subsequently assessed as inadequate.

Safety is of paramount importance to Abergeldie and we have treated the situation very seriously. We have conducted our own internal inquiry into the incident and have introduced a number of measures that exceed current standard practices. These include:

- All high risk temporary works designs will now have a design check by a second reputable design organisation prior to installation.
- An improved inducted personnel identification system on all our sites.
- More stringent "sign in sign out" procedures on all projects.

We are now in the process of rebuilding the bridge and working with our client ACT Procurement to minimise the impact to the overall Gungahlin Drive Duplication project. At this stage it appears the incident will not delay the overall project completion date.

BRISBANE OFFICE IS OPEN

Over the past 6 months our Brisbane office has been fully renovated/rebuilt and on 6 September 2010, our QLD team moved into their new pristine workplace.

The premises comprise of a double storey building equipped with conferencing facilities, a double warehouse for onsite plant and equipment storage and loads of office space.



FEDERAL ACCREDITATION

We are proud to announce that having met the requirements of the Australian Government Building Scheme, Abergeldie is now certified with the Federal Safety Commission.



See us again this year at...



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