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DEWATERING**

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THIS MONTH'S SNAPSHOT

THE OFFICIAL NEWSLETTER OF ASP PILING PTY LTD

"MAGNOLI" PALM BEACH, (PAGES 1-2)

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"MARKET SQUARE" SUNNYBANK, (PAGE 3)

ASP piling were appointed to complete the foundation piling for the 304 spot multi storey car park...





"MAGNOLI" PALM BEACH

Sunland group acquired land to construct the Magnoli Apartments in Palm Beach, Gold Coast. The thirteen floor, premium residential development features two mid-rise apartment buildings, six terrace homes, and a cafe/dining area overlooking a large community park.

ASP were contracted by Condev Constructions Pty Ltd to carry out the shoring retention works to the basement which extended some 4.0mtrs below natural ground level. Additionally, the site consisted of 4 localized lift core excavations approximately 2.0mtrs below the lower basement level. With over 370L/M of external shoring alone the project was tackled with multiple machines to carry out the sheet piling installation works. The project consisted of our very own patented ASP lightweight interlocking sheet pile combined with temporary and permanent ground anchors & spearpoint dewatering.

Following on from the installation of the sheet piles and anchors our temporary spearpoint dewatering system was installed to the sheet piles to allow free and uninterrupted excavation work to continue. Dewatering was necessary throughout the basement construction phase. With initial flow rates at approximately 1,200 litres/minute the challenge was set to maintain discharge criteria with an extremely high flow rate. The challenge was to meet environment standards for discharge given the presence of heavy metals. To comply with wastewater regulations ASP piling incorporated a primary and secondary groundwater treatment system. The system allowed all extracted water to be treated on-site prior to discharge into the stormwater network. To monitor potential acidic groundwater produced by the drawdown a pH buffering treatment system was installed. **(continued on next page...)**



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(Back flushing the system to remove heavy metal particulates)

"MAGNOLI" PALM BEACH (...CONTINUED)



(Water being discharged from site after being processed through Heavy Metal Treatment System)

The secondary treatment required high volume retention to provide additional residence time for the sediment to settle prior to extraction. The ADS Heavy Metals System was used with excellent results.

Figures above and left exemplify the collected heavy metals particulates, iron presence, aluminum and the resulting discharge after the filtration process. The results achieved in the reduction of heavy metals at a high inflow rate justify the decision by ADS directors to spend the time and money on research and development of this equipment to provide the market with a viable option for the treatment and removal of heavy metals.



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"MARKET SQUARE" SUNNYBANK

After long awaited anticipation of this redevelopment project, Sunnybank "Market Square" received DA from the Brisbane City Council and works swung into action. Project developers ADCO Construction Pty Ltd were appointed to give the square a much needed \$40 million facelift. The redevelopment will expand the original building by an extra 7,911 sqm, which includes an additional 304 car parks.

\$40 MILLION FACELIFT

The extra space will be divided between 4 storeys of retail space, positioned in the direction of Mains Road and Mccullough Street. ASP piling were appointed to complete the foundation piling for the 304 spot multi storey car park. To facilitate such a large structure piles were approximately 10m in length & installed utilising our Soilmec SF65 and Bauer RTG RG 16T piling rigs. The ASP project was broken down into 5 stages and included a total of 330 foundation piles to complete.



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