

17 September 2010

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Dear Cat,

Phase 1 Contamination Report – Eastern Creek

1.0 Introduction

1.1 Background

AECOM Australia (Pty Ltd) was engaged by CB Richard Ellis (CBRE) on behalf of Hewlett Packard to complete a Phase 1 Contamination Report for the site located between Roberts Road and Capicure Drive (the Site). The Site is located within a broader area referred to as the M7 Business Hub, within Blacktown City Council Local Government Area (LGA). The location of the Site is shown in **Figure 1**.

It is understood that the site has been owned by The Austral Brick Company Pty Ltd (Austral) since 1967. It is further understood that Austral intend to develop the land and have entered into a joint venture (JV) with Macquarie Goodman, forming a JV company, Macquarie Goodman Vineyard Pty Ltd (MGV).

The Site has most recently operated as a shale quarry, with two extraction pits (Pit 1 and Pit 2) being established during quarry operation. Quarrying commenced in the mid to late 1980s following consent from Blacktown City Council for clay/shale extraction (Determination No. 005475, 12 December 1986). Quarrying of Pit 1 was complete in 2005 (Douglas Partners, June 2010). It is unclear when quarrying of Pit 2 ceased, although previous investigations indicate quarrying was planned to cease in 2008. Pit 1 has now been filled and levelled, whilst the filling and rehabilitation of Pit 2 is ongoing. It is understood that material used for infilling of the pits is to be Virgin Excavated Natural Material (VENM) only (refer to Sections **3.1.1** and **3.1.2**). As such, it is assumed that a licence under the NSW Protection of the Environment Operations Act (1997) was not required for the filling works.

It is understood that a NSW EPA accredited independent Site Auditor (Mr Peter J Ramsay) was appointed to oversee the works, as a condition of consent to Development Application DA145/20/6432 (as amended)¹ and, as such, will comprise a Statutory Site Audit. Austral has indicated (via email, 27 August 2010) that a Site Audit Statement (SAS) is to be prepared for the Pit 1 area, and another SAS will be sought for the Pit 2 area following the completion of filling in this area. It is possible, but not confirmed, that a SAS for the entire Site may also be requested.

Prior to operation as a quarry, the Site was reportedly used for agricultural purposes.

AECOM understands that CBRE have been engaged on behalf of Hewlett Packard (HP) to assist in the preparation of a Part 3A Environmental Assessment (EA) for the proposed development of the Site. This report was prepared concurrently with the Part 3A EA and in accordance with the requirements of *State Environmental Planning Policy No 59* (SEPP 59) (refer Section **1.2**).

It is understood that the proposed future land use for the Site is industrial, and construction of a Tier III Data Centre has been proposed. It is understood that the SASs being sought from the Site Auditor will be to determine the suitability of the Site for the proposed industrial land use.

¹ Note that a copy of the DA has not been provided to AECOM, however a copy of a letter from Blacktown City Council to Connell Wagner, dated 14 April 2004, outlining amendments to the original DA for clay/shale extraction (Determination No. 5475) was provided. This amendment included requirements for the rehabilitation works.

1.2 State Environmental Planning Policy No 59 (SEPP59)

The Site forms part of the Eastern Creek Precinct Plan – Stage 3 prepared under *SEPP 59 – Central Western Sydney Economic and Employment Area 2005*. SEPP59 provides specific information with regard to the progressive rehabilitation of former quarries, including Austral Quarry (the subject Site), to allow for the ongoing extraction of a valuable resource and the development of a landform suitable for future use.

SEPP 59 states that development of such sites requires applicants to prepare a site-specific contamination report. Hence, this Phase 1 Contamination Report has been prepared accordingly.

1.3 Objectives

The objectives of the Phase 1 Contamination Report were to:

- Assess the potential for soil and water contamination at the Site as a result of current and historical land use; and
- Provide comment on the potential for contamination to be present.

1.4 Scope of Work

To achieve the above objectives, a desktop review of the following historical information was conducted to determine the history of the Site, assess the environmental setting and identify potential sources of contamination resulting from current and historical land use. The desktop study included a review of:

- Available site drawings/service plans;
- Available communications in relation to Development Applications and Development Agreements;
- NSW Land and Property Information (historical aerial photographs);
- Lands Title Office documents;
- Relevant Section 149 certificate(s);
- Registered groundwater bores located within a 2 km radius of the Site,
- NSW Workcover (Dangerous Goods Licenses) Stored Chemical Information Database (SCID);
- Geological, hydrogeological and topographical information;
- DECCW Notices; and
- Previous environmental reports prepared for the Site.

A walkover of the Site was conducted by AECOM personnel for the purpose of a visual inspection, to make a record of the general site conditions, and to identify potential sources of contamination (if any). The scope of works also included preparation of this report detailing the findings of the investigation.

This Phase 1 Contamination Report was prepared with reference to the NSW Environment Protection Authority (EPA) 1997 *Guidelines for Consultants Reporting on Contaminated Sites*.

2.0 Site Identification

The Site is identified in **Table 1** below:

Table 1 Site Identification Details

Item	Description
Site Owner	Austral (leased to Macquarie Goodman Vineyard Pty Limited)
Site Address	Roberts Road and Capicure Drive, Eastern Creek, NSW (the Site) Corner Wallgrove Road and Old Wallgrove Road, Eastern Creek, NSW (M7 Hub)
Legal Description ⁽¹⁾	Lot 554 DP 1110447
Local Government Authority	Blacktown City Council
Current Zoning ⁽²⁾	IN1 General Industrial
Current Land Use	Vacant. Filling of Pit 2 in progress.
Proposed Land Use	Tier III Data Centre
Site Elevation (m AHD)	Approximately 65 m AHD
Site Area (Total)	13.4 Hectares
Site Location Plan	Figure 1
Site Layout	Figure 2

Notes:

- 1 Title Search (Appendix A)
- 2 Section 149 Certificate (Appendix B)

Note that the Site boundary illustrated in Figures 1 and 2 are approximate only.

3.0 Site History

Enquiries relating to historical activities conducted on the Site and on adjacent sites, where relevant, were undertaken to identify past and present potentially contaminating activities. The following sections summarise the information obtained during the Site history review.

3.1 Previous Investigations

A number of previous investigations have been undertaken for the Site and the surrounding area. The following reports were provided to AECOM and have been reviewed for information relevant to potential contamination issues at the subject Site:

- CB Richard Ellis (CBRE), Preliminary Environmental Assessment – Distribution and Storage Facility (Data Centre), Eastern Creek, Blacktown, August 2010.
- CB Richard Ellis (CBRE), High Level Feasibility Overview on Lenore Drive Erskine Park NSW, Lots 9, 11, 12, 13 Eastern Creek NSW and M7 Business Hub Eastern Creek, NSW for Hewlett Packard Company, May 2010.
- Connell Wagner, Flood Investigation Report - M7 Business Hub, April 2005.
- Connell Wagner, Austral Bricks Extraction and Rehabilitation Plan (ERP) 'Vineyard' Property – Wallgrove Road, Horsely Park, August 2003.
- Connell Wagner, Hydrologic and Hydraulic Investigation, Austral Vineyard Site, August 2003.

- Macquarie Goodman (Goodman), Environmental Assessment for Coles Myer Chilled Distribution Centre (CDC) Part 3A Application, July 2006.

These reports have been referred to as appropriate in this Phase 1 Contamination Report.

In addition to the above, a series of documents relating to the infilling of Pit 1 and Pit 2 were provided to AECOM. A preliminary review of these reports has been conducted, which is discussed in Sections 3.1.1 and 3.1.2 below.

3.1.1 Pit 1 – Fill Validation and Reporting

AECOM understand Douglas Partners (DP) was engaged to report on the filling of Pit 1, including the sampling and validation of imported fill materials. Progressive filling of Pit 1 reportedly occurred between May 2005 and February 2009 using approximately 1 784 000 m³ of imported materials sourced from approximately 140 sites across Sydney (Douglas Partners, June 2010). It is further understood that all imported material was required to be assessed and validated as being Virgin Excavated Natural Material (VENM).

Twenty two reports on fill validation were prepared by DP for Pit 1 and were provided to AECOM. AECOM have conducted preliminary reviews of these reports only. A summary is provided in **Table 2**.

It should be noted that the Pit Infill Control Plan for Pit 1 was not provided for review. Consequently, AECOM cannot comment on whether the methods, protocols and acceptance criteria adopted were appropriate, or whether the works undertaken were in accordance with the Pit Infill Control Plan. It should also be noted that assessment of the quality of the analytical data, evaluation of the source site assessments and supporting documentation provided by VENM suppliers has not been undertaken, as this was beyond the scope of this investigation.

It is unknown whether the appointed Site Auditor, Mr Peter Ramsay, endorsed the Pit Infill Control Plan for Pit 1 prior to commencement of the infilling works, however selected correspondence between the Auditor and DP provided to AECOM indicated that progressive review of the infilling works was undertaken. It is unknown whether an Interim Advice has been provided by the Site Auditor to date with respect to the suitability of the Site for the proposed industrial land use.

Based on the information provided in the validation reports (discussed further in **Table 2** below), the general methodology adopted by DP for assessing the VENM source sites and validating the material was as follows:

- Identification of a fill source site. According to the Pit Infill Control Plan for Pit 2, the filling contractor is responsible for identifying a potential source site and obtaining validation documents including analytical results for that source site;
- Desktop review by DP of the newly identified source site. This involved review of validation documents, site history records and aerial photographs;
- Conduct a site inspection of the proposed fill source site. Undertake discussions with on-site personnel or neighbours to obtain further anecdotal information on the site history. Photograph the site;
- Categorisation of the proposed fill source site as “low”, “medium” or “high” risk with respect to potential contamination. Residential and Greenfield sites were generally categorised as low risk, whilst sites with a history of commercial, agricultural or industrial land use were generally categorised as medium to high risk;
- For low risk sites where sufficient information regarding the site history was available and where validation documentation was adequate, sites were approved as VENM and an agreement made to deliver a specified volume of the material to the Site. For sites categorised as low risk, source site soil samples were generally not collected;
- For medium to high risk sites that were not immediately rejected based on inadequate documentation pertaining to the site history, or concerns regarding contamination, soil samples were collected of the fill materials (referred to as “source site sampling”). If testing returned analytical results for these samples within the site assessment criteria, the material was classified as VENM, the sites were approved and an agreement made to deliver a specified volume of the material to the Site. Where analytical results were not within the site assessment criteria, the source site was rejected and no material was accepted from these sites as VENM; and
- Routine soil sampling was conducted on Site following delivery of materials from newly approved source sites.

A summary of the validation reports provided to AECOM is provided in **Table 2** below.

Table 2: Summary of Douglas Partners (DP) Reporting on Pit 1

Report Name	Objective	Scope	Findings	Comments
Monthly Project Summary Report – Environmental Pit Infill Control Works (May 2005)	To document environmental works conducted by DP in May 2005 including reviewing proposed fill source sites and conducting routine weekly validation sampling of newly imported fill.	Four source sites were identified for VENM supply. Four soil samples were collected for routine analyses.	Three of the source sites were identified as low risk and the fourth, medium risk commercial. All four source sites were approved for VENM supply. All soil samples collected from stockpiles located at the Site were deemed satisfactory. Filling covered by the report was deemed satisfactory.	Report states that although one of the source sites (Westfield Liverpool) was identified as a medium risk site which should require specific sampling and analyses, the materials from this site were deemed suitable based on the results in the supplied validation reports accompanying the fill. Consequently, no sampling was conducted.
Monthly Project Summary Report – Environmental Pit Infill Control Works (June 2005)	To document environmental works conducted by DP in June 2005 including routine weekly validation sampling of newly imported fill.	No new sites were proposed for the supply of VENM. Two soil samples were collected during Week 2 of the reporting period when imported fill was delivered to the Site.	Previously approved fill and natural materials sourced from the subject Site were used as fill during the reporting period. Both soil samples collected from newly imported fill were deemed satisfactory.	No sampling was conducted during the first week of the monitoring period when fill (limited in volume) was imported to the site from previously approved sites. No fill was imported to the site for the remaining three weeks of the monitoring period as stripping was underway and fill was sourced on Site as a result of stripping activities.
Monthly Project Summary Report – Environmental Pit Infill Control Works (July 2005)	To document environmental works conducted by DP in July 2005 including reviewing proposed fill source sites and conducting source specific sampling at proposed source sites.	One new (high risk – commercial, service station) source site was identified for VENM supply. Two soil samples were collected for the source site during the reporting period.	The source site was identified as suitable for VENM supply. All soil samples collected were deemed satisfactory.	Report indicates the source site was approved (despite being a high risk site) following source site sampling by DP. No routine soil sampling was conducted during the reporting period.
Monthly Project Summary Report – Environmental Pit Infill Control Works (August 2005)	To document environmental works conducted by DP in August 2005 including reviewing proposed fill source sites and conducting routine weekly validation sampling of newly imported fill.	One new source site (low risk – rural/vacant) was identified for VENM supply. Two routine soil samples were collected during the monitoring period.	Source site was identified as suitable for VENM supply. All soil samples collected were deemed satisfactory.	Source site was considered low risk so no additional sampling of the fill was required. Routine samples only were collected following the arrival of fill from the newly approved source site in Week 2 of the monitoring period.

Report Name	Objective	Scope	Findings	Comments
Quarterly Project Summary Report – Environmental Pit Infill Control Works (September to December 2005)	To document environmental works conducted by DP from September to December 2005.	No new source sites were identified for VENM supply. No routine soil sampling was conducted during the monitoring period.	Fill imported to the site during the monitoring period was approved in the August 2005 monitoring period.	Fill imported to the Site during the reporting period was sourced from the adjacent Coles Myer site located within the M7 Hub. As the site had already been approved as a fill source site, no routine sampling was undertaken.
Quarterly Project Summary Report – Environmental Pit Infill Control Works (January to March 2006)	To document environmental works conducted by DP from January to March 2006 including reviewing proposed fill source sites and conducting routine weekly validation sampling of newly imported fill.	One new source site (low risk – residential) was identified for VENM supply. No routine soil sampling was conducted during the monitoring period.	Source site was identified as suitable for VENM supply.	Report indicates that routine sampling was not required (by the Auditor) whilst approved onsite sources of VENM were being used for filling. VENM was received from the new source site identified during the monitoring period however, as the volume of material delivered from this source site was limited to less than 1000 m ³ , DP were unable to collect routine samples of this material as delivery from the site ceased before samples could be collected and before being placed in the pit.
Quarterly Project Summary Report – Environmental Pit Infill Control Works (April to June 2006)	To document environmental works conducted by DP from April to June 2006 including reviewing proposed fill source sites and conducting source specific sampling at proposed source sites.	One new source site (medium risk – former gravel quarry) was identified. A <i>Preliminary Contamination Assessment on Stockpiled Quarry Overburden and General Land Quality</i> was conducted by DP for the approval of the new source site. No routine soil sampling was conducted.	Source site was identified as suitable for VENM supply.	No written approval received from the Site Auditor to accept fill from the new source site although DP state verbal approval was given. The <i>Preliminary Contamination Assessment on Stockpiled Quarry Overburden and General Land Quality</i> report was not provided in the appendices of the DP quarterly report. As fill from the new source site had already undergone additional testing, additional samples were not collected upon arrival to the Site. All other fill imported during this period was from an approved on Site source.

Report Name	Objective	Scope	Findings	Comments
Quarterly Project Summary Report – Environmental Pit Infill Control Works (July to September 2006)	To document environmental works conducted by DP from July to September 2006 including reviewing proposed fill source sites, conducting source specific sampling at proposed source sites and routine weekly validation sampling of newly imported fill.	Twenty-three new source sites were identified ranging from low risk (residential) to high risk (industrial). Seventeen soil samples were collected in total during the reporting period.	Seven of the new fill source sites were rejected for geotechnical and contamination reasons. The remaining 16 source sites were identified as suitable for VENM supply. All soil samples collected were deemed satisfactory with the exception of samples collected from the 'suspect' load (refer comments).	One load delivered to the site was considered suspect and was transported off-site (by the contractor responsible for delivering the material) following analytical testing indicating elevated PAH concentrations.
Quarterly Project Summary Report – Environmental Pit Infill Control Works (October to December 2006)	To document environmental works conducted by DP from October to December 2006 including reviewing proposed fill source sites, conducting source specific sampling at proposed source sites and routine weekly validation sampling of newly imported fill.	Nineteen new source sites were identified ranging from low risk (residential) to high risk (industrial). Nineteen soil samples were collected in total during the reporting period.	Four of the new fill source sites were rejected for contamination reasons. The remaining 15 source sites were identified as suitable for VENM supply. All soil samples collected were deemed satisfactory with the exception of a single soil sample (refer notes).	One soil sample of fill sourced from a low risk/vacant rural residential site was identified as containing chrysotile asbestos during routine sampling. Inspection of the material and the source site did not identify a source of asbestos and a subsequent sample of fill from the same source did not contain asbestos. Delivery of material from the same source site was permitted to continue.
Quarterly Project Summary Report – Environmental Pit Infill Control Works (January to March 2007)	To document environmental works conducted by DP from January to March 2007 including reviewing proposed fill source sites and conducting routine weekly validation sampling of newly imported fill.	Twenty two new source sites ranging from low risk (residential) to high risk (service station and commercial). Twelve soil samples were collected in total during the reporting period.	Three of the new fill source sites were rejected for contamination reasons. The remaining nineteen source sites were identified as suitable for VENM supply. All soil samples collected were deemed satisfactory.	Fill from one approved source site was used elsewhere by the supplier before delivery to the Site.

Report Name	Objective	Scope	Findings	Comments
Quarterly Project Summary Report – Environmental Pit Infill Control Works (April to June 2007)	To document environmental works conducted by DP from April to June 2007 including reviewing proposed fill source sites and conducting routine weekly validation sampling of newly imported fill.	Six new source sites ranging from low risk (residential and greenfield) to medium risk (commercial). Fourteen soil samples were collected in total during the reporting period.	All six source sites were approved and deemed suitable for VENM supply. All soil samples collected were deemed satisfactory.	A number of other fill source sites were proposed during the reporting period however, these sites were rejected following a brief review by DP of the supplied validation reports.
Quarterly Project Summary Report – Environmental Pit Infill Control Works (July to September 2007)	To document environmental works conducted by DP from July to September 2007.	No new source sites were identified for VENM supply. No routine soil sampling was conducted during the monitoring period.	NA	Heavy rainfall was experienced throughout June and July. There was no activity at the site between June and August 2007. As a result of heavy rainfall, the pit was flooded and rectification works were required such that 50 000 m ³ of compacted VENM was removed and then reused to recommence pit filling. No fill was delivered to the Site from approved off-site sources during this reporting period.
Quarterly Project Summary Report – Environmental Pit Infill Control Works (October to December 2007)	To document environmental works conducted by DP from October to December 2007 including reviewing proposed fill source sites and conducting routine weekly validation sampling of newly imported fill.	Fourteen new source sites were identified for VENM supply ranging from low risk (residential/school/Greenfield) to high risk (commercial). No routine soil sampling was conducted during the monitoring period.	Four of the new fill source sites were rejected for contamination reasons and where insufficient information was provided with regard to the site history. The remaining ten source sites were identified as suitable for VENM supply.	All approved source sites were considered low risk and therefore, source site specific soil sampling was not conducted during the reporting period. Due to previously wet conditions experienced at the site, delivery of VENM for the filling of Pit 1 did not recommence until December 2007. Deliveries to the site were limited to a period of approximately two weeks during the reporting period and no routine soil sampling was undertaken at this time.

Report Name	Objective	Scope	Findings	Comments
Quarterly Project Summary Report – Environmental Pit Infill Control Works (January to March 2008)	To document environmental works conducted by DP from January to March 2008 including reviewing proposed fill source sites, conducting source specific sampling at proposed source sites and routine weekly validation sampling of newly imported fill.	Twenty-eight new source sites were identified for VENM supply ranging from low risk (residential/Greenfield) to high risk (commercial). Thirty-five routine soil samples were collected in total during the reporting period. An additional five soil samples were collected from one of the source sites.	Four of the new fill source sites were rejected for contamination reasons and where insufficient information was provided with regard to the site history. The remaining twenty-four source sites were identified as suitable for VENM supply. All soil samples collected for routine sampling were deemed satisfactory. Detectable levels of PAHs were reported for some samples. Three of the samples underwent repeat testing to confirm the reported PAH concentrations. For two of the three samples, total PAH concentrations were considered to be within background ranges and were less than the site acceptance criteria. DP do not state if fill from these source sites continued to be accepted.	The third sample with detectable PAHs was collected from what was established to be an unapproved load from a source site that had been rejected. Splitting and re-testing of the sample was undertaken following detection of PAHs. The concentrations of PAHs were reported to be less than the adopted assessment criteria and therefore, the load was retained on the Site. No other fill material was reportedly accepted from that same (unapproved) source site.
Quarterly Project Summary Report – Environmental Pit Infill Control Works (April to June 2008)	To document environmental works conducted by DP from April to June 2008 including reviewing proposed fill source sites and conducting routine weekly validation sampling of newly imported fill.	Eighteen new source sites were identified for VENM supply ranging from low risk (residential/Greenfield) to medium risk (commercial). Twenty routine soil samples were collected in total during the reporting period.	One of the new fill source sites was rejected for contamination reasons. The remaining seventeen source sites were identified as suitable for VENM supply. Detectable PAH concentrations were reported for a single soil sample during the monitoring period. All remaining soil samples were deemed satisfactory.	As PAH concentrations were within the site assessment criteria, repeat testing was not performed. At the time of the testing, the source site from which this sample was collected was reportedly sandstone from depths in excess of 2 m.

Report Name	Objective	Scope	Findings	Comments
Quarterly Project Summary Report – Environmental Pit Infill Control Works (July to September 2008)	To document environmental works conducted by DP from July to September 2008 including reviewing proposed fill source sites and conducting routine weekly validation sampling of newly imported fill.	Fifteen new source sites were identified for VENM supply, all source sites being low risk (residential/Greenfield/open parkland). Forty two routine soil samples were collected in total during the reporting period.	All fifteen source sites were approved and deemed suitable for VENM supply. Detectable levels of PAHs were reported for nine samples. As concentrations were less than the ANZECC (1992) guidelines and were within the site assessment criteria, the material was accepted.	NA
Quarterly Project Summary Report – Environmental Pit Infill Control Works (October 2008 to February 2009)	To document environmental works conducted by DP from October 2008 to February 2009 including reviewing proposed fill source sites, conducting source specific sampling at proposed source sites and routine weekly validation sampling of newly imported fill.	Thirteen new source sites were identified for VENM supply ranging from low risk (residential to medium to high risk (commercial)). Twenty four routine soil samples were collected in total during the reporting period. Nineteen source specific soil samples were collected in total during the reporting period.	One of the new fill source sites was rejected for contamination reasons. The remaining twelve source sites were identified as suitable for VENM supply. Detectable levels of PAHs were reported for six routine samples. As concentrations were less than the ANZECC (1992) guidelines and were within the site assessment criteria, the material was accepted. Detectable levels of pesticides including Dieldrin, Heptachlor, gamma-Chlordane and alpha-Chlordane were reported for two routine samples. Despite some detects, all samples were deemed satisfactory and were reported as less than the site acceptance criteria.	DP became aware that a contractor was delivering material from an unapproved source site. Consequently, material from this site was rejected during the same reporting period. Delivery from the unapproved site was immediately ceased and the subject material excluded from further material placement. Prior to the knowledge that the material from an unapproved source site had been delivered, some material had been accepted as VENM and subsequently used for filling. The analytical results for samples collected from the unapproved material reported concentrations of contaminants that were within the site assessment criteria. No indication is given as to whether the site was subsequently approved and additional material then accepted as VENM.

Report Name	Objective	Scope	Findings	Comments
Response to Site Auditor – No 1 (December 2009)	To respond to requests for additional information from the Site Auditor documented in an email dated 20 November 2008.	Address comments made by the Site Auditor regarding the approval process for new source sites, justification for the apparent lack of validation results for approved sites with a commercial/industrial history, imported fill volumes per site, QAQC information and reasoning for the detections of various contaminants in soil and presence of asbestos in a single soil sample.	DP provided additional historical information and aerial photographs where requested. For a number of the sites in question, DP had reportedly already conducted separate environmental investigation as part of their work for other clients and appropriate validation was conducted for fill materials sourced from those sites. The report indicates that no new environmental concerns were raised in relation to the material approved for the backfilling of Pit 1.	Aerial photographs provided in the appendices are generally of poor quality.
Response to Site Auditor – No 2 (May 2010)	To respond to requests for additional information from the Site Auditor documented in emails dated 20 November 2008, 19 June 2009, 18 November 2009, 2 February 2010 and 4 February 2010.	Address comments made by the Site Auditor regarding the approval process for new source sites, justification for the apparent lack of validation results for approved sites with a commercial/industrial history, imported fill volumes per site, QAQC information and the presence of asbestos in a soil sample.	DP provided estimated volumes of fill materials received from each of the source sites, justification for contaminant detections in soil validation samples, historical documentation for the source sites and laboratory analytical results. The report indicates that no new environmental concerns were raised in relation to the material approved for the backfilling of Pit 1.	DP notes that the sum of estimated volumes of source materials exceeds the total volume of fill materials placed in Pit 1 by approximately 14%. A number of justifications for the difference in fill volumes are provided, the approval and acceptance of on-site sources of fill from the M7 Business Hub resulting in a significant contribution to fill materials.

Report Name	Objective	Scope	Findings	Comments
Report on Settlement Monitoring (June 2010)	To measure settlement of the fill materials /surface over time to determine when development on the Site (for proposed commercial/industrial land use) could commence.	Establishment of nine settlement monitoring points (MP1 to MP9) across Pit 1 and positioned overlying varying fill thicknesses.	Total settlement of fill materials is generally greater where the fill is deeper. The rate of settlement generally slowed over time. This result is not consistent across the entire area of Pit 1 and appears more consistent in the eastern part of the Site. Total settlements were found to be generally small considering that fill depths reached up to 39 m in parts.	NA
Sampling and Analysis Quality Plan (June 2010)	To outline the proposed sampling program for additional validation works to be undertaken at Pit 1.	Identify the Data Quality Objectives (DQOs) for the investigation including sampling frequency and analysis.	Proposed scope of works to include the drilling of sixteen boreholes to a minimum depth of 5 m and sample collection at 0.5 to 1.0 m intervals. Proposed analytes include TPH/BTEX, Heavy Metals, PAHs, OCPs, Asbestos, Fluoride, Cyanide, PCB, Total Phenols and VCH.	The additional validation of imported materials placed in Pit 1 appears to have been required by the Site Auditor to provide further confidence that the imported material was VENM and suitable for the proposed use of the Site.
Supplementary Validation Assessment (August 2010)	To confirm the environmental quality of the backfill by <i>in situ validation</i> , and to assess the site's suitability for proposed commercial and industrial development. The work was commissioned by Austral following request for additional validation works by the Site Auditor.	Drilling of sixteen boreholes to a minimum depth of 5 metres below ground surface. Collection of 64 soil samples from regular depth intervals at each bore location including 0.5 m, 1 m, 2 m, 3 m, 4 m and 5 m. Analysis of soil samples for Heavy Metals, PAHs, TPH/BTEX, OCPs, Asbestos, pH, Fluoride, Cyanide, PCBs, Total Phenols and VCH	The findings of the supplementary validation assessment are consistent with DP's previous environmental reports for the filling of Pit 1. Soil analytical results were reportedly within the 'validation acceptance criteria', confirming that the backfill materials form a suitable substrate for the proposed commercial/industrial land use.	Soil samples were screened using a photoionisation detector (PID). As the investigation has only recently been completed, it is unknown whether the Site Auditor has reviewed the findings and concurs with the conclusions drawn, and/or whether any further investigations will be required.

Overall, the infilling of Pit 1 appeared to have comprised the following:

- Assessment and classification of approximately 140 source sites (low, medium, high risk), including sampling at selected sites (medium and high risk only), prior to receiving fill materials at the subject Site.
- Importation, placement and compaction of fill materials assessed as being VENM from the various source sites.
- Routine sampling at the subject Site, proposed to be undertaken at a rate of approximately 2 samples per week.
- Samples were typically analysed for Total Petroleum Hydrocarbons (TPH), Benzene, Toluene, Ethylbenzene and Xylenes (BTEX), Heavy Metals, Polycyclic Aromatic Hydrocarbons (PAHs), Organochlorine Pesticides (OCPs), Polychlorinated Biphenyls (PCBs), Phenolic Compounds, Cyanide and Asbestos.
- Placement of some material from an unapproved site occurred. The volume of material imported from this site is unknown, however it is understood that the material was assessed as being VENM.

As the Pit Infill Control Plan for Pit 1 was not provided, AECOM cannot comment as to whether or not the works undertaken complied with the protocols proposed. Further, it is unknown whether the Site Auditor endorsed the Control Plan prior to commencement of the infilling works. However, AECOM note the following potential limitations in the works performed:

- Check samples were not collected from source sites assessed, based on a review of the site history, as being “low risk”.
- There do not appear to be Data Quality Objectives (DQOs) established for the importation and validation processes, and no QA/QC sampling appears to have been undertaken. Sample collection and equipment decontamination procedures are unknown.
- The “routine sampling” does not appear to have been undertaken on a regular basis, and appeared to be based on time (i.e. approximately 2 samples per week), rather than based on the volume of material imported.
- It is unknown whether source site or routine samples were screened in the field using a Photoionisation detector (PID) for the presence of volatile contaminants and, if so, whether the PID was calibrated daily/prior to use.
- The volume of material imparted from the various sites does not appear to be clearly stated.
- Details of material rejected and disposed off-site were not provided. It is therefore unknown whether rejected materials were suitably classified and appropriately disposed of.

3.1.2 Pit 2 – Fill Validation and Reporting

AECOM understand that DP has since been engaged to continue validation and reporting for the ongoing filling of Pit 2. Workers on the Site during the site inspection indicated that the anticipated completion date for the filling of Pit 2 is between July and August 2011. It is also understood that Mr Ramsay (Site Auditor) has also been engaged to progressively review the results of the validation, and the ongoing approval and acceptance of VENM during the filling of Pit 2.

No validation reports for the filling of Pit 2 have been provided to AECOM for review. However, it was observed during the site inspection (refer **Section 4.7**) that Pit 2 had already been partially filled. Two reports prepared by DP in preparation for the filling of Pit 2 have been provided to AECOM. A preliminary review of these documents has been undertaken, the findings of which are summarised in the following table.

Note that an assessment of the quality of the analytical data or an evaluation of compliance with the Pit Infill Control Plan is not provided as this was beyond the scope of this investigation.

Table 3: Summary of Douglas Partners (DP) Reporting on Pit 2

Report Name	Objective	Scope	Findings	Comments
Earthworks Specification (23 December 2009)	To control the quality of the filling placed on site to ensure that the final condition of the Site and landform is satisfactory for the proposed land use from a geotechnical perspective.	Outline the project organisation and role of work parties involved. Outline work procedures including the preparation of the pit prior to filling, identification and acceptance of fill sources sites, supervision, testing etc.	All contractors and consultants TBA. All fill materials to be certified VENM. Pit to be stripped and any material that appears to be contaminated to be removed and appropriately disposed. Material that appears useable should be placed away from the pit and appropriate testing undertaken before approved as a source and used in the pit.	NA
Environmental Pit Infill Control Plan and Quality Control System (20 May 2010)	To control the quality of VENM filling placed on site and to ensure no contaminated materials are approved for placement into the pits.	Outline the procedures and responsibilities associated with the identification and approval of suitable VENM source sites including delivery of material to the Site, routine and source site testing and rejection of fill materials based on analytical results and/or insufficient data.	VENM source sites to be identified by the filling contractor. VENM suppliers should provide validation documents. DP should review available historical information including validation documents, aerial photographs, analytical results and perform a site inspection before approving a site for the supply of VENM.	See below

Overall, the approach to the infilling of Pit 2 outlined in the Pit Infill Control Plan appeared to be similar to the approach adopted during the infilling of Pit 1, as described in **Section 3.1.1** above. Similarly, it is unknown whether the Site Auditor endorsed the Pit Infill Control Plan prior to commencement of works, however it appears that progressive review of the importation and validation process is being conducted by the Auditor.

The potential limitations of the infilling works for Pit 2 are similar to those identified for Pit 1, as described in **Section 3.1.1** above. However, as discussed in **Section 1.1**, it is understood that a SAS will be sought by Austral, with respect to the suitability of the site for the proposed industrial land use.

3.2 Local Government Information

A copy of the Section 149 certificate was obtained from Blacktown City Council under the NSW *Environmental Planning and Assessment Act (EPAA) 1979* and is included in **Appendix B**. In summarising issues of environmental significance, the certificate indicated that the land:

- Does not comprise a critical habitat;
- Is not identified within a conservation area;
- Does not contain an item of environmental heritage;
- Is not affected by the *Coastal Protection Act 1979*;
- Is not within a proclaimed mine subsidence district;
- Is not affected by Council proposals for road widening/ or realignment;
- Is not affected by restrictions due to hazards associated with landslip, bushfire, tidal inundation, subsidence or acid sulphate soils;
- Is not affected by mainstream or backwater flood-related development controls;
- Is not identified as being bush fire prone land;
- Is not affected by Property Vegetation Plans under the *Native Vegetation Act 2003*; and
- Is not affected by matters arising under the *Contaminated Land Management Act 1997* and *Contaminated Land Management Amendment Act 2008*.

Additionally the Section 149 Certificate under Section 149 (5) advises that the land:

- Is affected by a tree preservation control under the Blacktown Local Environmental Plan 1988; and
- May contain an Aboriginal archaeological site under the *National Parks and Wildlife Service Act 1974*.

3.3 Certificates of Title

Historical certificates of title were obtained for the Site and indicate historical land ownership. The information obtained from the certificates is summarised below and the complete documentation is contained in **Appendix A**.

A summary of historical ownership for the Site is provided **Table 4** below:

Table 4: Historical Site Ownership – Lot 554 DP 1110447

Lot 554 DP 1110447			
Date		Owner	
2009 to date		BGAI 5 Pty Limited The Austral Brick Company Proprietary Limited	
(2007 to date)		Lease to Macquarie Goodman Vineyard Pty Limited of part formerly in 369/1094500)	
2007 - 2009		The Austral Brick Company Proprietary Limited	
		Lot 450 DP 1109136	
2007 - 2007		BMGW Pty Ltd The Austral Brick Company Proprietary Limited	
(2007 – 2007)		Lease to Macquarie Goodman Vineyard Pty Limited of part formerly in 369/1094500	
Lot 252 DP 1082988		Lot 369 DP 1094500	
Date	Owner	Date	Owner
2007 - 2007	BMGW Pty Ltd The Austral Brick Company Proprietary Limited	2007 - 2007	BMGW Pty Ltd The Austral Brick Company Proprietary Limited
2005 - 2007	The Austral Brick Company Proprietary Limited	2006 - 2007	The Austral Brick Company Proprietary Limited
		2006 - 2007	Lease to Macquarie Goodman Vineyard Pty Limited
		Lot 250 DP 1082988	
		2005 - 2006	The Austral Brick Company Proprietary Limited
		2006 - 2006	Lease to Macquarie Goodman Vineyard Pty Limited
Lots 10 & 11 DP 1072146			
2004 - 2005		The Austral Brick Company Proprietary Limited	
Lot 4 DP 233539			
1987 - 2004		The Austral Brick Company Proprietary Limited	
Lot 4 DP 233539 – Area 111 acres 1 rood 18 ½ perches – CT Vol 10776 Fol 104			
1968 - 1987		The Austral Brick Company Proprietary Limited	
Lot 4 DP 233539 – Area 111 acres 1 rood 18 ½ perches – Conveyance Book 2853 No. 889			
1967 - 1968		The Austral Brick Company Proprietary Limited	

Part of Por.31 Parish of Melville, County of Cumberland – area 114 acres 26 perches – Conveyance Book 2154 No. 603	
1950 - 1967	Penfolds Wine Limited
Part of Por.31 Parish of Melville, County of Cumberland – area 114 acres 26 perches – Conveyance Book 1174 No. 133	
1919 - 1950	Frederick Thomas Bigg, grazier

3.4 Aerial Photographs

The following information was derived from reviewing historical aerial photographs for the Site and surrounding area. The photographs were obtained from the NSW Department of Lands.

Photograph details	Description
January 1947 Run 31 Liverpool (Co. C'Land) (Figure 3)	Site: The Site appears to be vacant agricultural land with open pastures. Surrounds: The surrounding area is generally vacant and appears to be open pasture with some isolated pockets of vegetation and bushland. Major roadways are present in the surrounding area including Old Wallgrove Road (north) and Wallgrove Road (east). To the northeast of the Site a farmhouse is visible approximately 200 m south of Old Wallgrove Road. Reedy Creek is present to the east of the Site. There is an access road connecting the farmhouse with Old Wallgrove Road. Dams are present to the south and immediately west of the Site. To the south of the Site, a services corridor is visible running in an east-west direction.
January 1956 Run 19 Liverpool (Figure 4)	Site: the Site has been cleared and there is evidence of land contouring consistent with some form of agricultural activity. Surrounds: The surrounds appear similar to the 1947 aerial photograph. To the northeast of the Site, a vineyard has been established in the vicinity of the farmhouse. Vegetation clearing has occurred to the west of the Site.
1961 Cumberland Run 31 Black and White (Figure 5)	Site: The Site appears similar to the 1956 aerial photograph. The degree of land contouring on the Site is not as clear as the 1956 photograph. Surrounds: The surrounds appear similar to the 1956 photograph. Some vegetation has been cleared to the north, east and south of the site. The dam identified south of the Site in the 1947 aerial photograph is no longer present. Development and installation of the Sydney Water Main appears to have commenced immediately south of the Site.
July 1970 Cumberland Run 15 Black and White (Figure 6)	Site: The Site appears similar to the 1961 aerial photograph. Surrounds: The surrounds appear similar to the 1961 aerial photograph. To the east of the Site and west of Wallgrove Road, land has been cleared in two locations. A substation has been constructed to the west of the Site and northwest of Old Wallgrove Road. Power lines are present from the substation to the sites southern boundary. Further clearing and trenching works have occurred adjacent the Sydney Water Main immediately south of the Site. Vegetation pockets appear to have increased in density to the northwest of the Site.
April 1978 County of Cumberland Run 14 Black and White (Figure 7)	Site: The Site appears similar to the 1970 aerial photograph. Surrounds: The surrounds appear similar to the 1970 aerial photograph. To the east of the Site, earthworks/quarrying appears to have commenced in the area of land that had been cleared in the 1970 aerial photograph. To the southwest of the Site, a large portion of land has been cleared and multiple warehouses have been constructed. Earthworks/quarrying appears to have commenced in the vicinity of the warehouses.

August 1986 Sydney Run 20 Colour (Figure 8)	Site: The Site is predominantly cleared and quarrying in Vineyard Pit 1 has commenced. Surrounds: The farmhouse to the northeast of the Site is still visible, the vineyards however are no longer present. To the southwest of the Site, earthworks/quarrying have progressed significantly since the 1978 aerial photograph. Dirt roads are visible connecting the quarry that now exists on the Site with the earthworks site to the southwest and Old Wallgrove to the west.
October 1994 Penrith Run 9 Colour (Figure 9)	Site: There has been further clearing of the Site and an additional excavation has been established (Vineyard Pit 2). The quarrying of Vineyard Pit 1 has progressed significantly. Surrounds: A dirt road is visible, connecting the Vineyard Pits on the Site with the earthworks Site first identified in the 1978 aerial photograph (east). The earthworks site to the east of the Site has progressed significantly since the 1978 aerial photograph. The location of the dirt road connecting the Vineyard Pits to the earthworks southwest of the Site has shifted to the west. Other quarries have been established in the area, two are located to the east and southeast and another has been established to the southwest.
December 2005 Penrith Run 9 Colour (Figure 10)	Site: Vineyard Pit 1 appears to have been partly backfilled and Vineyard Pit 2 appears to be in operation. Extensive clearing has occurred in the vicinity of the Site. Surrounds: To the northeast of the Site the farmhouse and access road are still visible and a number of stockpiles are present. The earthworks to the east of the Site has been backfilled and cleared for the Coca Cola Site. The earthworks to the southwest have progressed since the 1994 aerial photograph. Immediately to the northwest of the Site, a large portion of land has been cleared and construction has commenced on the Coles Distribution Centre. A dirt road connects the construction site with Old Wallgrove Road to the northeast. The dam to the west of the Site, first identified in the 1946 aerial photograph is no longer present.

3.5 NSW DECCW Records

A review of the NSW Department of Environment Climate Change and Water (NSW DECCW) website indicated that the Site and its surrounding properties are not listed under Section 58 of the Contaminated Land Management Act 1997. No sites in the vicinity of the M7 Business Hub were registered on this database.

Appendix C presents a copy of the search information for the local council area.

3.6 Dangerous Goods Search

A search of the Stored Chemical Information Database (SCID) and the microfiche records maintained by WorkCover NSW was requested by AECOM (**Appendix D**). The search indicated that there has been no licence held for the storage of dangerous goods on the Site.

3.7 Site History Summary

Records indicate that the Site has historically operated as grazing land and a vineyard. The site was purchased by Austral in 1967, and quarrying commenced after consent for clay/shale extraction was granted by Blacktown City Council in December 1986. Quarrying commenced in the area now identified as Pit 1, followed by Pit 2. Quarrying (Pit 2) continued until around 2008 following which the ongoing filling and rehabilitation of the Site has continued to date.

4.0 Site Condition and Surrounding Environment

4.1 Current Land Use

The Site is currently vacant. Pit 1 has been filled and levelled whilst filling and rehabilitation of Pit 2 is ongoing.

4.2 Surrounding Land Use

Current land use surrounding the Site was:

- North: Capicure Drive, Toll (distribution centre) and vacant land.
- South: Warragamba Prospect Water Supply Pipeline, quarry and vacant land.
- East: Reedy Creek and Coca Cola facility and the M7 Motorway.
- West: Roberts Road, Coles (distribution centre), substation and vacant land

4.3 Topography and Drainage

The Site is elevated at approximately 65 m AHD (Prospect 1:25000 Topographic Map Sheet 9030-II-N). The Site is located on the east slope of a hill crest and has a general slope to the south-east towards Reedy Creek.

The infilling of Pit 1 has been completed and infilling of Pit 2 is in progress. The maximum depth of Pit 1 during shale extraction was approximately 39 m. It is unclear what the maximum depth of Pit 2 was during shale extraction and it was noted during the site inspection that Pit 2 had been partially filled. Consequently, the topography and surface levels of Pit 2 are progressively changing. A steep embankment sloping to the east/south east is currently present between the eastern wall of Pit 2 and the levelled surface of Pit 1.

It is understood that progressive surveys of the surface levels are being undertaken during the infilling works.

Accumulated water pumped from Pit 2 during filling is pumped to a pond located to the east of the Site. Excess water accumulating in the pond appears to be discharged to Reedy Creek via a gross pollutant trap and rock lined channel. It is unclear if the site owners have a licence to discharge water to Reedy Creek during the infilling of Pit 2.

4.4 Surface Water and Flood Potential

The Site is elevated at approximately 65 m AHD. The Section 149 Certificate states that the Site was not affected by any flood related development controls.

As the Site is currently unsealed, surface water is expected to pond and evaporate or infiltrate. Some surface water runoff may be generated during periods of peak rainfall and would generally be directed towards the south east and Reedy Creek, or more low lying areas of the Site. Flooding may occur adjacent to Reedy Creek in the more low-lying parts of the Site, also during periods of heavy rainfall.

Refer to the *Flood Investigation Report* prepared by Connell Wagner (2005) (Section 3.1) for further information on flood potential of the Site and surrounding areas.

4.5 Regional Meteorology

The Site is located at Eastern Creek in Western Sydney. Climatic data for the region was obtained from the Bureau of Meteorology (BOM) website (www.bom.gov.au). The BOM weather station (067019), located at Prospect Reservoir indicates the following:

- Average annual rainfall of 868.7 mm, with January to March typically the wetter months (> 93 mm per month);
- Average maximum temperature of 23.1°C, ranging from 16.8°C in July to 28.3°C in January; and
- Average minimum temperature of 12.2°C, ranging from 6.1°C in July to 17.7°C in February.

4.6 Geology

The Sydney 1:250,000 Geological Series Sheet (3rd edition 1966) maps the regional geology as Triassic Shale with some sandstone beds, characterised by Bringelly, Michinbury and Ashfield shales of the Wianamatta Group.

Information obtained from the NSW Department of Land and Water Conservation – Penrith Soil Landscape Series Sheet (9030) indicates the Site falls within land characterised by mottled texture contrast residual clay soils overlying the Wianamatta Group shales.

4.7 Hydrogeology

Registered groundwater bore information was obtained from the NSW Department of Natural Resources (DNR) website. Nine bores were identified within a 2 km radius of the Site. The registered bore details are summarised in **Table 5** below. A location map of the bores and groundwater works summaries for each bore are provided in **Appendix E**.

Table 5: Registered Groundwater Bores

Bore ID	Depth of Bore (m bgs)	Standing Water Level (m bgs)	Distance from Site	Purpose
GW100290	80	-	2 km SE	Monitoring Bore
GW104060	24.6	-	1 km E	Monitoring Bore
GW104061	24.5	-	1.3 km E	Monitoring Bore
GW104062	24.4	17.0	1.8 km E	Monitoring Bore
GW104063	27.4	-	2 km E	Monitoring Bore
GW110311	100	31.60	2 km N	Monitoring Bore
GW110312	100	39.80	2 km NW	Monitoring Bore
GW110313	150	40.30	2 km N	Monitoring Bore
GW110314	151	40.30	2 km NW	Monitoring Bore

Based on the above registered bore data the local groundwater is expected to occur from depths ranging between approximately 17 and 40 m bgs.

Shallow or perched groundwater could potentially occur at the interface between soil/weathered bedrock and within alluvial sediments adjacent to Reedy Creek. Limited groundwater is also expected to occur within the fractures and bedding planes of the underlying Wiannamatta shale.

5.0 Site Inspection

5.1.1 Overview

An inspection of the Site was undertaken by Lauren Wells and Lauren Kontus of AECOM on 25 August 2010. Ward Civil and Environmental Engineering (Ward) are involved in coordinating the filling and rehabilitation of Pit 2 located in the south west portion of the Site. Two workers from Ward were present at the Site during the inspection and were able to provide some anecdotal information to AECOM.

5.1.2 Site Operations

Site entry is off Roberts Road at Eastern Creek, located off Old Wallgrove Road. The layout of the Site is shown in Figure 2. Quarrying activities at the Site have ceased. A Site office and associated facilities (**Plate 1**) are located adjacent to Pit 2 (refer **Figure 2**) where filling is ongoing. Associated facilities include;

- Site shed;
- Lunch area;
- First Aid room;
- Kitchen;
- Toilets;
- One shipping container used for the storage of unleaded fuel; and
- Approximately three other shipping containers and a storage shed, the use of which is unknown.

5.1.3 Site Condition

The Site is bound by a chain and wire mesh fence. A chain and wire mesh fence is also present surrounding Pit 2 to minimise access during filling works. The Site surface is unsealed although some gravel appears to have been placed at the Site entry. Vegetation at the Site is limited – grasses are present within the pit area and scattered trees are present near the southern boundary and adjacent Reedy Creek. The vegetation was observed to be in good condition.

Drainage

No apparent surface drainage features were observed within the Site office area. Water used to service the Site office and associated facilities appears to be collected in a rain water tank and distributed to the kitchen and toilet facilities via an aboveground pipe system. Water that has accumulated within the base of Pit 2 (generally rainwater) is pumped from the pit and transported to a pond located to the east of the site and adjacent Reedy Creek. Overflow from the ponds is directed into a gross pollutant trap (**Plate 2**) which discharges to Reedy Creek via a rock lined channel (**Plate 3**).

Fuel and Chemical Storage

A large diesel fuelled generator is located adjacent the site office (**Plate 4**). Workers at the site indicated that diesel is not stored on the Site and is transported to the Site for the refuelling of the generator and larger trucks and vehicles. Unleaded fuel is reportedly used to fuel cars and small machinery.

Minor surface staining was noted at two locations within the general Site office area, beneath some disused machinery and a disused engine (**Plate 5**). Minor staining was also noted on the outside of the shipping container (**Plate 6**) used for the storage of unleaded fuel, however no staining of the surface soil was observed at this location. The shipping container was locked during the site inspection. Consequently, it is unclear how the unleaded fuel is stored within the shipping container, or what volume of fuel could be stored at this location,

Four 20L chemical storage containers (**Plate 7**) were observed adjacent the rock lined channel immediately east of the Site. Lids were no longer in place and the containers appeared to contain water.

Anecdotal Evidence

Workers at the Site indicated that partial filling of Pit 2 had already commenced before they were engaged to commence filling works. It is unknown which contractor or what the nature of the fill materials used was prior to Ward commencing works at the Site.

6.0 Findings

Based on review of available information and observations made during the site inspection, potential sources of contamination and potential contaminants of concern have been identified and are shown in the following table.

Table 6: Summary of Potential Sources and Contaminants of Concern

Potential Source	Potentially Contaminating Activities	Comments	Potential Contaminants of Concern
Pit 1 Fill	Unapproved fill materials not certified as VENM being placed in pit.	Refer to Section 3.1.1 for detailed comments and potential limitations of the infilling works conducted.	TPH/BTEX, Heavy Metals, PAHs, OCPs, PCBs, VHCs, Asbestos and acid sulphate soils.
Pit 2 Fill	As above.	Filling of Pit 2 ongoing and is to be conducted in accordance with the <i>Environmental Pit Infill Control Plan and Environmental Quality Control System</i> prepared by DP, and any additional requirements of the Site Auditor. Refer to Section 3.1.2 for detailed comments and potential limitations of the infilling works conducted.	As above.
Wider Site ^{*2}	Historical agricultural land use (grazing, vineyard) including the application of herbicides and/or pesticides. Storage/use/handling of fuels, oils and degreasers for operation and maintenance of farming vehicles, equipment and machinery.	Limited information on agricultural use of the Site.	Pesticides/herbicides (prior to 1967), TPH/BTEX, Heavy Metals, PAHs, VOCs
Pit 2 Site Office	Storage of unleaded fuel in a shipping container. Storage of old quarry machinery. Storage and/use of a large diesel generator on unsealed ground surface. Refuelling of trucks and equipment used for filling activities near the site entrance.	Minor surface staining noted on the outside of the shipping container used to house unleaded fuel and beneath two old pieces of machinery. No diesel stored on the Site. No evidence of accidental spillage of fuel near the site entrance.	TPH/BTEX, Metals and PAHs.

² The wider site refers to the remainder of the Site outside of the area where filling activities have occurred (i.e. outside of Pit 1 and Pit 2).

Potential Source	Potentially Contaminating Activities	Comments	Potential Contaminants of Concern
Imported Fill	Imported fill reportedly located in the southern portion of the larger site.	Connell Wagner's (2003) ERP prepared for the larger Austral landholding indicates that imported fill was placed in the southern portion of the site. The reference indicates that the imported fill may have contained contaminated soils. No indication of the specific location of imported fill materials has been provided and it is unclear as to whether the area of imported fill may have since been mined during the extraction of materials from Pit 2.	TPH/BTEX, Heavy Metals, PAHs, PCBs, OCPs and Asbestos.

7.0 Data Gaps

In preparing this report, a number of data gaps have been identified including:

- AECOM were not provided with the *Environmental Pit Infill Control Plan and Environmental Quality Control System* for Pit 1 despite infilling works for this pit having been completed. Consequently, a review of the adequacy of or compliance with the Pit Infill Control Plan could not be undertaken.
- Further, it is unknown whether endorsement of the proposed methodology by the Site Auditor for the *Environmental Pit Infill Control Plan and Environmental Quality Control System* document for either Pit 1 or Pit 2 was provided. The *Environmental Pit Infill Control Plan and Environmental Quality Control System* (2010) indicates that for Pit 2, the Site Auditor would be responsible for preparing a report detailing the progressive acceptance of works on the Site (at three monthly intervals) throughout the duration of filling works. No correspondence between the Site Auditor and Douglas Partners has been provided to AECOM regarding filling of Pit 2.
- It is understood that a Site Audit Statement (SAS) should have been prepared, or should be in preparation for Pit 1. However, considering that supplementary validation works were only recently completed by DP (report issued in August 2010), it is likely that a SAS would not yet be available.
- The documentation provided indicated that soil sampling for the wider site (i.e. outside of the Pit areas) has not been undertaken to date. Consequently, the condition of soil/fill across the remainder of the Site is currently unknown. It is noted, however, that the review of the Site history undertaken indicates that the potential for significant contamination in these areas is likely to be limited.

It is possible that, in the event that the Site Auditor is requested to provide a SAS for the remainder of the Site, further investigations could be required.

- Localised areas of surface staining were observed during the Site inspection in the vicinity of the Site office. Depending on the requirements of the Site Auditor, remediation of these areas at the conclusion of the infilling works at Pit 2 may be required.
- Connell Wagner (2003) indicated that potentially impacted imported fill materials were present “*in the southern area of the site*”. No further information regarding the nature of these materials, or a specific location was provided. It is unknown whether this material remains present at the Site. Further investigation of this potential source of contamination is considered warranted.
- Groundwater investigations have not been undertaken at the Site to date. While the available regional hydrogeological information suggests that groundwater is likely to be present at depths of approximately 17 to 40 m bgs, consideration of potential impacts to groundwater should be made. It is possible that shallow and/or perched groundwater could be present (e.g. in the vicinity of Reedy Creek), however in the absence of groundwater investigations at the Site this is currently unknown.

The requirements of the Site Auditor with respect to groundwater are unknown.

8.0 Conclusions and Recommendations

This Phase 1 Contamination Report has identified that some potential for contamination exists at the Site, primarily related to the potential for unapproved fill to have been placed into the former quarry pits, but also including other potential sources identified in **Table 6**. AECOM have identified a number of data gaps that should be addressed, as described in **Section 7.0** above.

On the basis of the information reviewed to date, AECOM recommends the following:

- The client seek advice from the Site owner as to whether the Site Auditor has or could provide an Interim Advice stating his opinion with respect to the adequacy of the work undertaken by the consultant (DP) to date, and whether or not the Site is likely to be considered suitable for the intended industrial land use.
- The Site owner confirm the agreed scope of the Site Audit and which portions of the subject Site will be signed off by the Site Auditor, i.e. Pit 1, Pit 2 and/or the entire Site.
- In addition, it is recommended that the Site Auditor advise whether further investigations are likely to be required to facilitate sign-off of the Site.

- Should advice from the Site Auditor not be made available to the client, AECOM could conduct a more detailed review of the data (including previous reports provided for this investigation) to assess the adequacy of the filling and other works conducted at the Site.

Please contact the undersigned should you have any questions or require any further information.

Yours sincerely,

AECOM Australia Pty Ltd



Lauren Wells
Environmental Scientist
+61 2 8484 8927



Victoria Buchanan
Associate Director - Environment

Encl: Figures, Plates, Appendices

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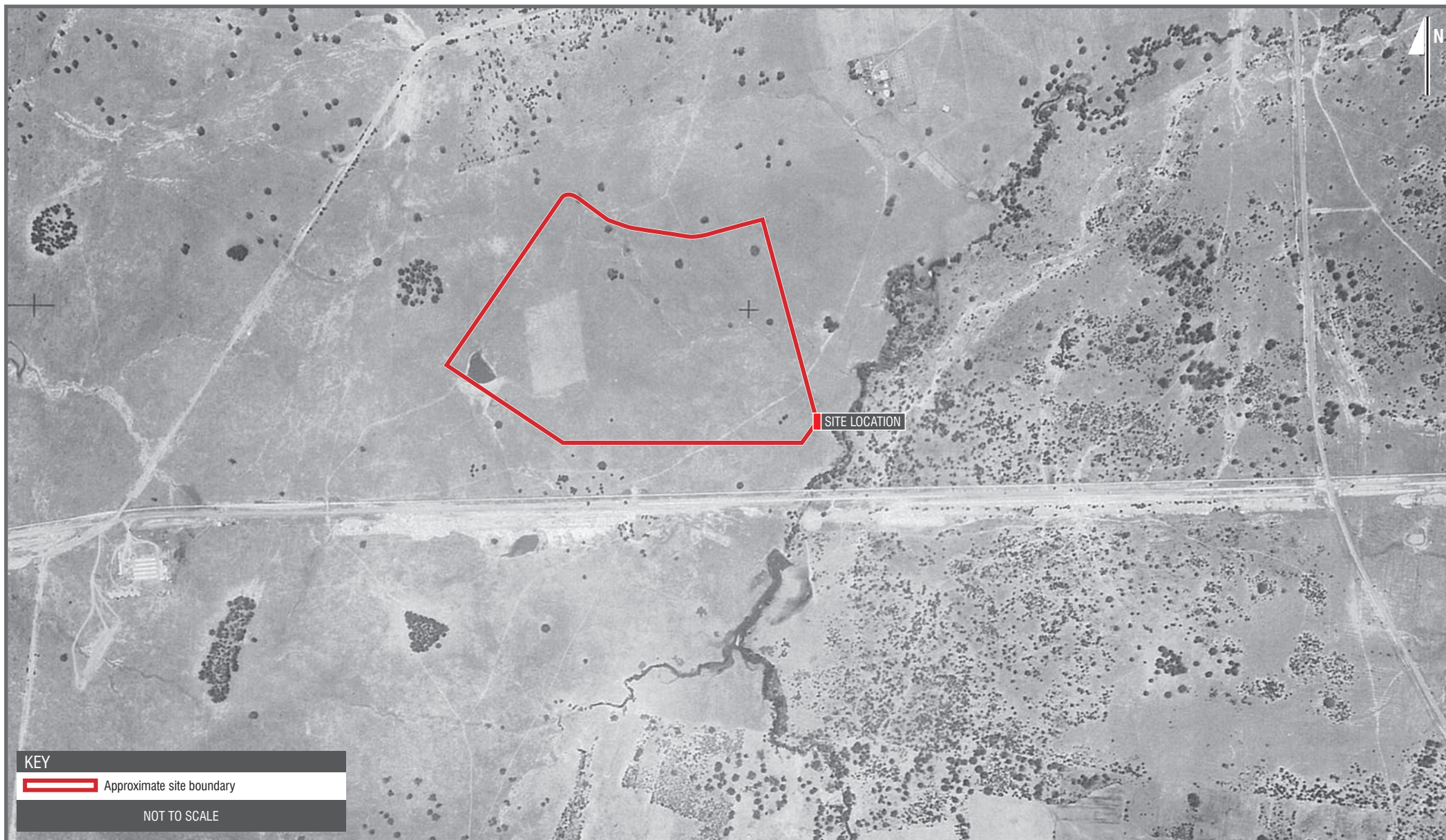
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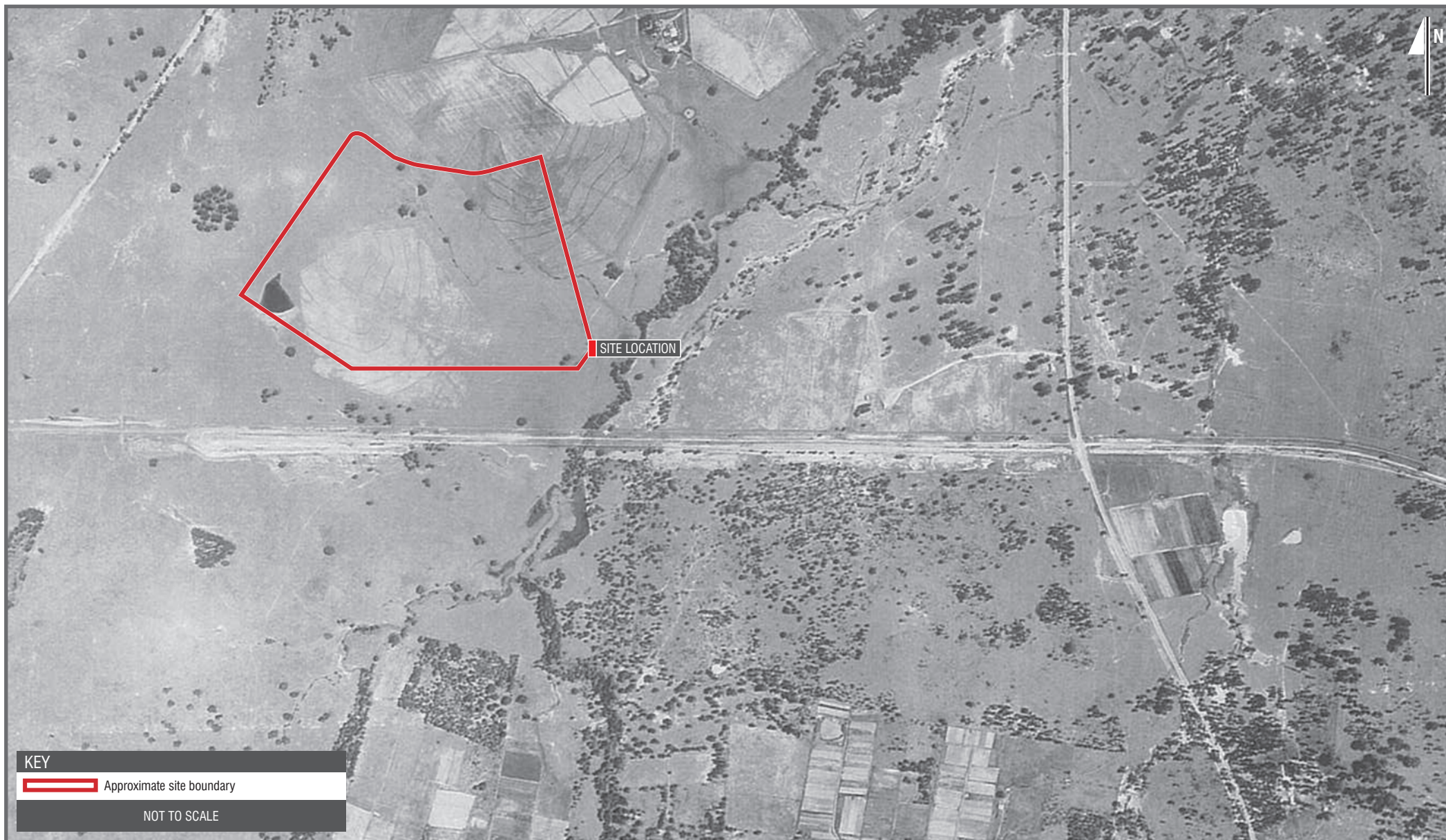
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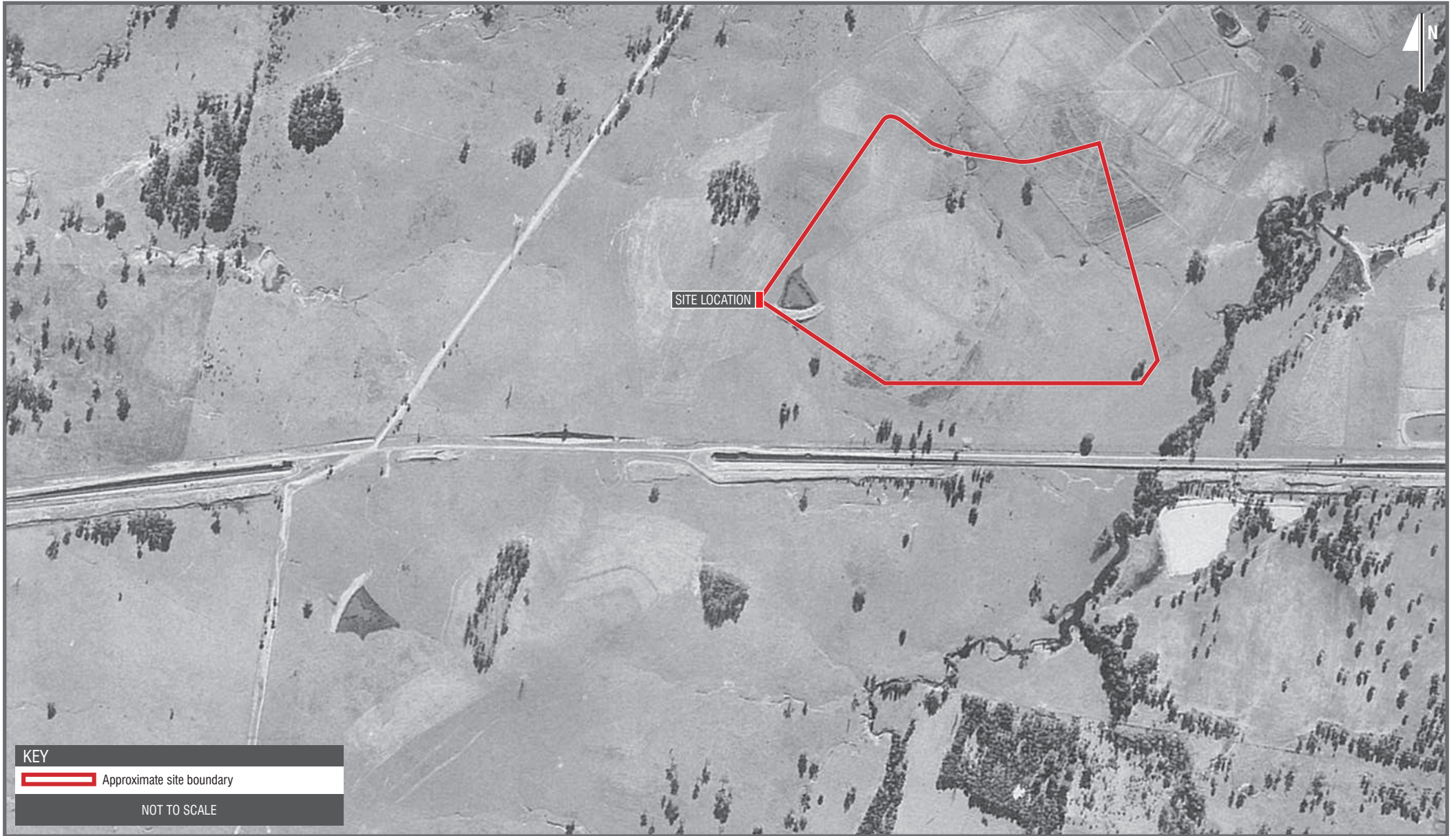
Figures

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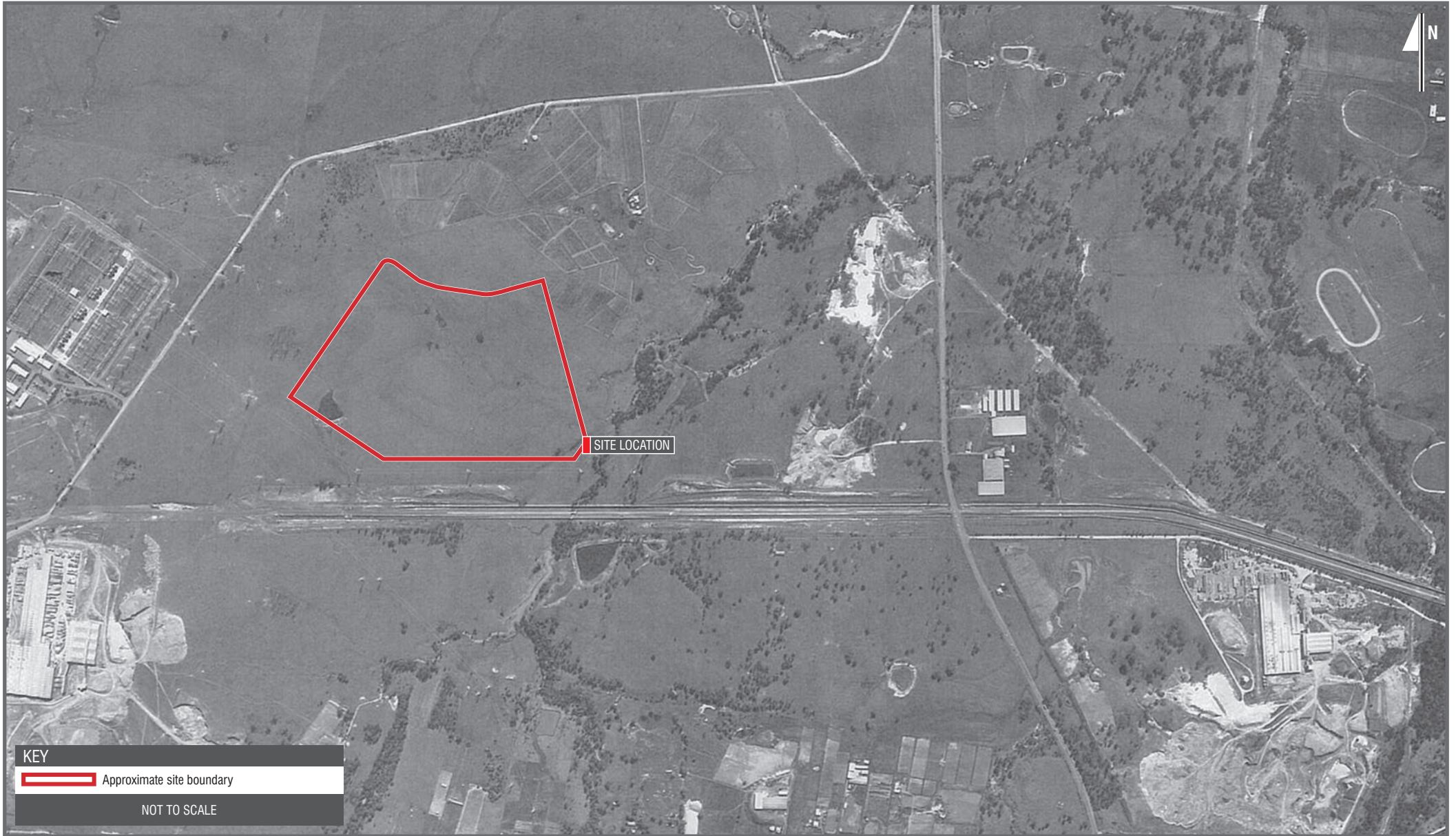












KEY

Approximate site boundary

NOT TO SCALE

AECOM

AERIAL PHOTOGRAPH - 1978

Confidential Due Diligence
Phase I Contamination Report

FIGURE 7







Plates

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PHOTOGRAPHIC LOG

Site Name: Eastern Creek		Site Location: Roberts Road and Capicure Drive, Eastern Creek	Project No: 60161037
Plate No. 1	Date: 25/08/10		
Direction Photo Taken: West			
Description: Site Office and Associated Facilities			

Plate No. 2	Date: 25/08/10	
Direction Photo Taken: West		
Description: Gross Pollutant Trap		

PHOTOGRAPHIC LOG

Site Name: Eastern Creek		Site Location: Roberts Road and Capicure Drive, Eastern Creek	Project No: 60161037
Plate No. 3	Date: 25/08/10		
Direction Photo Taken: East			
Description: Rock-lined Channel			

Plate No. 4	Date: 25/08/10	
Direction Photo Taken: North		
Description: Diesel Fueled Generator		

PHOTOGRAPHIC LOG

Site Name: Eastern Creek		Site Location: Roberts Road and Capicure Drive, Eastern Creek	Project No: 60161037
Plate No. 5	Date: 25/08/10		
Direction Photo Taken: South			
Description: Surface staining beneath disused engine.			

Plate No. 6	Date: 25/08/10	
Direction Photo Taken: West		
Description: Staining on the outside of the shipping container storing unleaded fuel.		

PHOTOGRAPHIC LOG

Site Name:
Eastern Creek

Site Location:
Roberts Road and Capicure Drive, Eastern Creek

Project No:
60161037

Plate No.
7

Date:
25/08/10

Direction Photo Taken:

Description:

20L chemical storage containers noted adjacent to the rock-lined channel.



Appendix A

Titles

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ADVANCE LEGAL SEARCH PTY LIMITED

(ACN 077 067 068)

ABN 49 077 067 068

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17th August 2010

AECOM

Level 5

828 Pacific Highway,

Gordon, NSW, 2072

Attention: Lauren Wells

RE:

M7 Business Hub

Eastern Creek

Ref : 60161037 Task 6.1

Current Search

Folio Identifier 554/1110447 (title attached)

DP 1110447 (plan attached)

Dated 17th August 2010

Registered Proprietor:

BGAI 5 PTY LIMITED

THE AUSTRAL BRICK COMPANY PROPRIETARY LIMITED

Title Tree

Lot 554 DP 1110447

Folio Identifier 554/1110447

Folio Identifier 450/1109136

See notes (a) and (b)

(a)

(b)

Folio Identifier 252/1082988

Folio Identifier 369/1094500

Folio Identifier 250/1082988

Folio Identifiers 10,11/1072146

Folio Identifier 4/233539

Certificate of Title Volume 10776 Folio 104

IVA 176A

Conveyance Book 2853 No 889

Conveyance Book 2154 No 603

Conveyance Book 1174 No 133

Note (a)

	(Lot 252 DP 1082988)
2007 - 2007	BMGW Pty Ltd The Austral Brick Company Proprietary Limited
2005 - 2007	The Austral Brick Company Proprietary Limited
	(Lots 10 & 11 DP 1072146)
2004 - 2005	The Austral Brick Company Proprietary Limited
	(Lot 4 DP 233539)
1987 - 2004	The Austral Brick Company Proprietary Limited
	(Lot 4 DP 233539 - area 111 acres 1 rood 18 ½ perches - CT Vol 10776 Fol 104)
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	(Lot 4 DP 233539 - area 111 acres 1 rood 18 ½ perches - Conveyance Book 2853 No. 889)
1967 - 1968	The Austral Brick Company Proprietary Limited
	(Part of Por.31 Parish of Melville, County of Cumberland - area 114 acres 26 perches - Conveyance Book 2154 No. 603)
1950 - 1967	Penfolds Wines Pty Limited
	(Part of Por.31 Parish of Melville, County of Cumberland -

	area 114 acres 26 perches – Conveyance Book 1174 No. 133)
1919 – 1950	Frederick Thomas Bigg, grazier

Note (b)

	(Lot 369 DP 1094500)
2007 - 2007	BMGW Pty Ltd The Austral Brick Company Proprietary Limited
2006 – 2007	The Austral Brick Company Proprietary Limited
(2006 – 2007)	<i>(Lease to Macquarie Goodman Vineyard Pty Limited)</i>
	(Lot 250 DP 1082988)
2005 – 2006	The Austral Brick Company Proprietary Limited
(2006 – 2006)	<i>(Lease to Macquarie Goodman Vineyard Pty Limited)</i>
	(Lots 10 & 11 DP 1072146)
2004 – 2005	The Austral Brick Company Proprietary Limited
	(Lot 4 DP 233539)
1987 – 2004	The Austral Brick Company Proprietary Limited
	(Lot 4 DP 233539 – area 111 acres 1 rood 18 ½ perches – CT Vol 10776 Fol 104)
1968 – 1987	The Austral Brick Company Proprietary Limited
	(Lot 4 DP 233539 – area 111 acres 1 rood 18 ½ perches – Conveyance Book 2853 No. 889)
1967 – 1968	The Austral Brick Company Proprietary Limited
	(Part of Por.31 Parish of Melville, County of Cumberland – area 114 acres 26 perches – Conveyance Book 2154 No. 603)
1950 – 1967	Penfolds Wines Pty Limited
	(Part of Por.31 Parish of Melville, County of Cumberland – area 114 acres 26 perches – Conveyance Book 1174 No. 133)
1919 – 1950	Frederick Thomas Bigg, grazier

* * * * *



Advanced Legal Search Pty Ltd hereby certifies that the information contained in this document has been provided electronically by the Registrar General in accordance with Section 96B(2) of the Real Property Act.

Information provided through Tri-Search an approved LPI NSW Information Broker

LAND AND PROPERTY INFORMATION NEW SOUTH WALES - TITLE SEARCH

FOLIO: 554/1110447

SEARCH DATE	TIME	EDITION NO	DATE
13/8/2010	11:48 PM	4	15/9/2009

LAND

LOT 554 IN DEPOSITED PLAN 1110447
AT EASTERN CREEK
LOCAL GOVERNMENT AREA BLACKTOWN
PARISH OF MELVILLE COUNTY OF CUMBERLAND
TITLE DIAGRAM DP1110447

FIRST SCHEDULE

BGAI 5 PTY LIMITED
IN 2706/10000 SHARE
THE AUSTRAL BRICK COMPANY PROPRIETARY LIMITED
IN 7294/10000 SHARE
AS TENANTS IN COMMON (T AE825842)

SECOND SCHEDULE (12 NOTIFICATIONS)

- 1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
- 2 DP1082988 RIGHT OF CARRIAGEWAY 10 METRE(S) WIDE AND VARIABLE AFFECTING THE PART(S) SHOWN SO BURDENED IN THE TITLE DIAGRAM
- 3 DP1082988 RIGHT OF CARRIAGEWAY 10 METRES WIDE AND VARIABLE APPURTENANT TO THE LAND ABOVE DESCRIBED
- * AF222044 EASEMENT RELEASED IN SO FAR AS IT AFFECTS LOT 558 IN DP1110447
- 4 AC161328 LEASE TO MACQUARIE GOODMAN VINEYARD PTY LIMITED OF THE PART FORMERLY IN 369/1094500. EXPIRES: 29/6/2015.
- 5 DP1095621 EASEMENT FOR UNDERGROUND CABLES 15 METRE(S) WIDE AFFECTING THE PART(S) SHOWN SO BURDENED IN THE TITLE DIAGRAM
- 6 DP1095621 EASEMENT FOR UNDERGROUND CABLES 12 METRE(S) WIDE AND VARIABLE AFFECTING THE PART(S) SHOWN SO BURDENED IN THE TITLE DIAGRAM
- 7 DP1095621 RIGHT OF ACCESS 12 METRE(S) WIDE AND VARIABLE AFFECTING THE PART(S) SHOWN SO BURDENED IN THE TITLE DIAGRAM
- 8 DP1109136 EASEMENT FOR WATER SUPPLY 3 & 8 METRE(S) WIDE AND VARIABLE AFFECTING THE PART(S) SHOWN SO BURDENED IN THE TITLE DIAGRAM
- 9 DP1110447 RIGHT OF CARRIAGEWAY 20.5 & 26 METRE(S) WIDE AND VARIABLE APPURTENANT TO THE LAND ABOVE DESCRIBED
- 10 DP1110447 EASEMENT FOR SERVICES 20.5 & 26 METRE(S) WIDE AND

END OF PAGE 1 - CONTINUED OVER

AECOM - EASTERN C

PRINTED ON 13/8/2010



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Information provided through Tri-Search an approved LPINSW Information Broker

LAND AND PROPERTY INFORMATION NEW SOUTH WALES - HISTORICAL SEARCH

SEARCH DATE

13/8/2010 11:50PM

FOLIO: 554/1110447

First Title(s): OLD SYSTEM
Prior Title(s): 450/1109136

Recorded	Number	Type of Instrument	C.T. Issue
18/6/2007	DP1110447	DEPOSITED PLAN	FOLIO CREATED EDITION 1
21/6/2007	AD203695	DEPARTMENTAL DEALING	EDITION 2
22/6/2007	AD207866	DEPARTMENTAL DEALING	
31/7/2008	AE121352	CAVEAT	
8/9/2009	AE825842	TRANSFER	EDITION 3
15/9/2009	AE972747	DEPARTMENTAL DEALING	EDITION 4
22/2/2010	AF222044	CANCELLATION OR EXTINGUISHMENT OF EASEMENT	

*** END OF SEARCH ***



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LAND AND PROPERTY INFORMATION NEW SOUTH WALES - HISTORICAL SEARCH

SEARCH DATE

13/8/2010 11:51PM

FOLIO: 450/1109136

First Title(s): OLD SYSTEM

Prior Title(s): 252/1082988 369/1094500

Recorded	Number	Type of Instrument	C.T. Issue
23/4/2007	DP1109136	DEPOSITED PLAN	FOLIO CREATED EDITION 1
1/6/2007	AD162077	WITHDRAWAL OF CAVEAT	
1/6/2007	AD161546 *	TRANSFER	EDITION 2
18/6/2007	DP1110447	DEPOSITED PLAN	FOLIO CANCELLED

*** END OF SEARCH ***



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Information provided through Tri-Search an approved LPI/NSW Information Broker

LAND AND PROPERTY INFORMATION NEW SOUTH WALES - HISTORICAL SEARCH

SEARCH DATE

15/8/2010 7:41PM

FOLIO: 252/1082988

First Title(s): OLD SYSTEM

Prior Title(s): 10-11/1072146 14/1072146

Recorded	Number	Type of Instrument	C.T. Issue
12/7/2005	DP1082988	DEPOSITED PLAN	FOLIO CREATED EDITION 1
9/12/2005	AB973830	WITHDRAWAL OF CAVEAT	
2/3/2006	AC151283	CAVEAT	
6/3/2006	AC156872	WITHDRAWAL OF CAVEAT	
11/4/2006	AC225131	CAVEAT	
9/2/2007	DP1107285	WITHDRAWN - PRE-EXAMINATION PLAN	
28/3/2007	AC984494 *	TRANSFER	EDITION 2
23/4/2007	DP1109136	DEPOSITED PLAN	FOLIO CANCELLED

*** END OF SEARCH ***



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Information provided through Tri-Search an approved LPINSW Information Broker

LAND AND PROPERTY INFORMATION NEW SOUTH WALES - HISTORICAL SEARCH

SEARCH DATE

15/8/2010 7:49PM

FOLIO: 10/1072146

First Title(s): OLD SYSTEM

Prior Title(s): 4/233539

Recorded	Number	Type of Instrument	C.T. Issue
20/10/2004	DP1072146	DEPOSITED PLAN	FOLIO CREATED EDITION 1
28/4/2005	AB363703	REQUEST	
21/6/2005	AB565343	CAVEAT	
12/7/2005	DP1082988	DEPOSITED PLAN	FOLIO CANCELLED

*** END OF SEARCH ***



Advanced Legal Search Pty Ltd hereby certifies that the information contained in this document has been provided electronically by the Registrar General.

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LAND AND PROPERTY INFORMATION NEW SOUTH WALES - HISTORICAL SEARCH

SEARCH DATE

15/8/2010 7:52PM

FOLIO: 11/1072146

First Title(s): OLD SYSTEM

Prior Title(s): 1/233539 4/233539

Recorded	Number	Type of Instrument	C.T. Issue
20/10/2004	DP1072146	DEPOSITED PLAN	FOLIO CREATED EDITION 1
21/6/2005	AB565343	CAVEAT	
12/7/2005	DP1082988	DEPOSITED PLAN	FOLIO CANCELLED

*** END OF SEARCH ***



Advanced Legal Search Pty Ltd hereby certifies that the information contained in this document has been provided electronically by the Registrar General.

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LAND AND PROPERTY INFORMATION NEW SOUTH WALES - HISTORICAL SEARCH

SEARCH DATE

15/8/2010 7:42PM

FOLIO: 369/1094500

First Title(s): OLD SYSTEM
Prior Title(s): 250/1082988

Recorded	Number	Type of Instrument	C.T. Issue
23/6/2006	DP1094500	DEPOSITED PLAN	FOLIO CREATED EDITION 1
9/2/2007	DP1107285	WITHDRAWN - PRE-EXAMINATION PLAN	
28/3/2007	AC984494	TRANSFER	EDITION 2
23/4/2007	DP1109136	DEPOSITED PLAN	FOLIO CANCELLED

*** END OF SEARCH ***



Advanced Legal Search Pty Ltd hereby certifies that the information contained in this document has been provided electronically by the Registrar General.

Information provided through Tri-Search an approved LPI/NSW Information Broker

LAND AND PROPERTY INFORMATION NEW SOUTH WALES - HISTORICAL SEARCH

SEARCH DATE

15/8/2010 7:46PM

FOLIO: 250/1082988

First Title(s): OLD SYSTEM

Prior Title(s): 10-11/1072146 13-14/1072146

Recorded	Number	Type of Instrument	C.T. Issue
12/7/2005	DP1082988	DEPOSITED PLAN	FOLIO CREATED EDITION 1
9/12/2005	AB973830	WITHDRAWAL OF CAVEAT	
2/3/2006	AC151283	CAVEAT	
6/3/2006	AC156872	WITHDRAWAL OF CAVEAT	
7/3/2006	AC161328	LEASE	EDITION 2
11/4/2006	AC225131	CAVEAT	
2/5/2006	DP1095621	DEPOSITED PLAN	EDITION 3
23/6/2006	DP1094500	DEPOSITED PLAN	FOLIO CANCELLED

*** END OF SEARCH ***



Advanced Legal Search Pty Ltd hereby certifies that the information contained in this document has been provided electronically by the Registrar General.

Information provided through Tri-Search an approved LPI/NSW Information Broker

LAND AND PROPERTY INFORMATION NEW SOUTH WALES - HISTORICAL SEARCH

SEARCH DATE

17/8/2010 9:44PM

FOLIO: 4/233539

First Title(s): SEE PRIOR TITLE(S)

Prior Title(s): VOL 10776 FOL 104

Recorded	Number	Type of Instrument	C.T. Issue
-----	-----	-----	-----
5/6/1987		TITLE AUTOMATION PROJECT	LOT RECORDED FOLIO NOT CREATED
15/3/1988		CONVERTED TO COMPUTER FOLIO	FOLIO CREATED CT NOT ISSUED
13/4/1994		AMENDMENT: LOCAL GOVT AREA	
28/6/1995	0335261	REQUEST	
29/8/1996	2412151	REQUEST	
20/10/2004	DP1072146	DEPOSITED PLAN	FOLIO CANCELLED

*** END OF SEARCH ***



IVA No.176A

Vol. 10776 Fol. 104



MA

Edition issued 10-4-1968

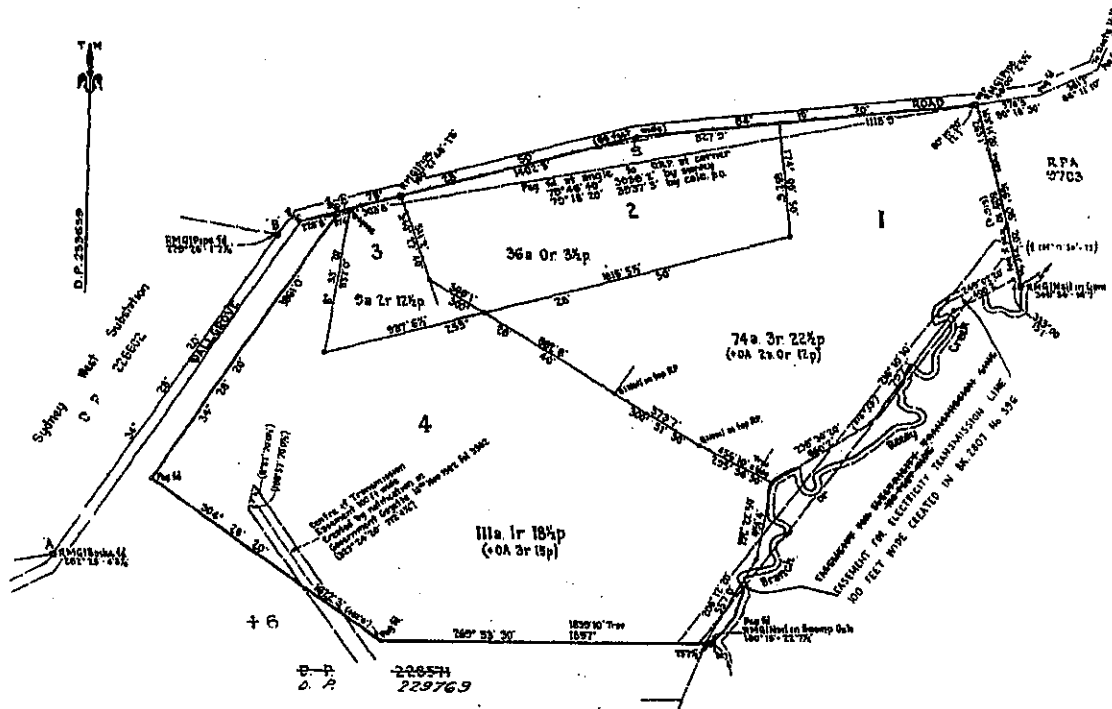
I certify that the person described in the First Schedule is the registered proprietor of the undermentioned estate in the land within described subject nevertheless to such exceptions encumbrances and interests as are shown in the Second Schedule.

Witness *M. Flint*

Jan Watson
Registrar General.



PLAN SHOWING LOCATION OF LAND



ESTATE AND LAND REFERRED TO

Estate in Fee Simple in Lot 4 in Deposited Plan 233539 at Wallgrove in the Municipality of Blacktown Parish of Melville and County of Cumberland being part of Portion 45 granted to John Thomas Campbell on 1-8-1819, part of Portion 32 granted to William Fairburn on 1-8-1819, part of Portion 29 granted to Henry Stockfish on 17-8-1819, part of Portion 30 granted to James Hayes on 17-8-1819 and part of Portion 31 granted to William Bateman on 17-8-1819.

FIRST SCHEDULE (continued overleaf)

THE AUSTRAL BRICK COMPANY PROPRIETARY LIMITED.

SECOND SCHEDULE (continued overleaf)

1. Reservations and conditions, if any, contained in the Crown Grants above referred to.
2. Easement for Transmission Line created by Notification in Government Gazette dated 16-11-1962 Folio 3382 affecting the part of the land above described shown as "Transmission Easement 100 ft. wide created by notification in Government Gazette 16th Nov. 1962 Fol. 3382" in the plan hereon. *DP233539*
3. Easement for Transmission Line created by Deed Book 2807 No.396 affecting the part of the land above described shown as "Easement for Electricity Transmission Line 100 feet wide created in Bk. 2807 No.396" in the plan hereon.
4. CAUTION No.K992550 pursuant to Section 28J of the Real Property Act, 1900. *10.4.1968*

Jan Watson
Registrar General.

WARNING: THIS DOCUMENT MUST NOT BE REMOVED FROM THE LAND TITLES OFFICE.

B97

/Req: B595476

/Doc: CT 10776-104

/Prt: 16-Aug-2010

PERSONS ARE CAUTIONED AGAINST ALTERING OR ADDING TO IT

Page 1) Vol. 10776 Fol. 104

REGISTERED PROPRIETOR

NATURE

INSTRUMENT	NUMBER

DATE _____

ENTERED

**Signature of
Registrar-General**

07604008
07615778

[illegible]**SECOND SCHEDULE (continued)**[illegible]

NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR-GENERAL ARE CANCELLED

RELOADED

19 MAR 2007
Form: 01T
Release: 3.0
www.lands.nsw.gov.au

TRANSFER
New South Wales
Real Property Act 1900



AC984494B

PRIVACY NOTICE Section 31B of the Real Property Act 1900 (RP Act) authorises the Registrar General to collect the information required by this form for the establishment and maintenance of the Real Property Act Register. Section 96B RP Act requires that the Register is made available to any person for search upon payment of a fee, if any.

STAMP DUTY

Office of State Revenue use only
01-03-2007 0004089154-001
SECTION 18(2)
DUTY \$ *****2.00

(A) **TORRENS TITLE**

252/1082988 & 369/1094500

(B) **LODGED BY**

Document Collection Box	Name, Address or DX and Telephone HENRY DAVIS YORK LLPN: 123154H DX 173 SYDNEY Ph:+61 2 9947 6000 Reference: <u>4</u> AGS/7970669/3108180	CODES T TW (Sheriff)
236S		

(C) **TRANSFEROR**

The Austral Brick Company Proprietary Limited
ACN 000 005 500

(D) **CONSIDERATION**

The transferor acknowledges receipt of the consideration of \$ 18,042,700.00 and as regards

(E) **ESTATE**

the land specified above transfers to the transferee an estate in fee simple

(F) **SHARE**

~~TRANSFERRED~~ See Annexure A

(G)

Encumbrances (if applicable):

(H) **TRANSFeree**

BMGW Pty Ltd
ACN 120 437 434

(I)

TENANCY:

DATE 30 JANUARY 2007

(J) I certify that the person(s) signing opposite, with whom I am personally acquainted or as to whose identity I am otherwise satisfied, signed this instrument in my presence.

Certified correct for the purposes of the Real Property Act 1900 by the transferor.

Signature of witness:

Signature of transferor:

Name of witness: See Annexure A
Address of witness:

I certify that the person(s) signing opposite, with whom I am personally acquainted or as to whose identity I am otherwise satisfied, signed this instrument in my presence.

Certified correct for the purposes of the Real Property Act 1900 by the transferee.

Signature of witness:

Signature of transferee:

Name of witness: See Annexure A
Address of witness:

Annexure A to Transfer

Parties:

The Austral Brick Company Proprietary Limited ACN 000 005 500 and BMGW Pty Ltd ACN 120 437 434

Dated 30 JANUARY 2007

Title
252/1082988
369/1094500

Share Transferred
231,059/10,000,000th
2,401/10,000th

Signed, sealed and delivered by
The Austral Brick Company Proprietary
Limited by:



Director/Secretary
Iain H. Thompson
Group Company Secretary

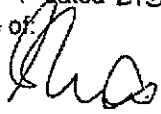
Name (please print)



Director
Lindsay Partridge

Name (please print)

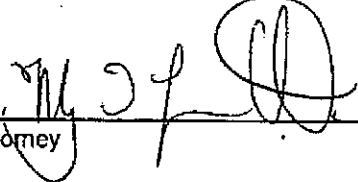
Signed for and on behalf of
BMGW Pty Limited
by its duly authorised attorneys
under power of attorney registered
book 4501 no. 224 dated 21 December 2006
in the presence of:



Witness
Adam Davies

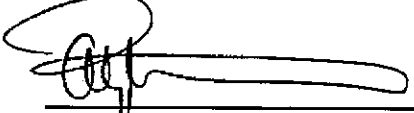
Name (please print)
738-780 Wallgrove Road
Norsley Park NSW 275

Address (please print)



Attorney
Megan Tamsett

Name (please print)



Witness
ANDREW STEELE

Name (please print)



Attorney
Samantha Jane Evans
Solicitor

Name (please print)

44 MARTIN PLACE, SYDNEY

Address (please print)

Form: 01T
Release: 3.0
www.lands.nsw.gov.au

TRANSFER
New South Wales
Real Property Act 1900



AD161546Y

PRIVACY NOTE: Section 31B of the Real Property Act 1900 (RP Act) authorises the Registrar General to collect the information required by this form for the establishment and maintenance of the Real Property Act Register. Section 96B RP Act requires that the Register is made available to any person for search upon payment of a fee, if any.

STAMP DUTY

Office of State Revenue use only

NEW SOUTH WALES DUTY

31-05-2007

0004161285-003

SECTION 18(2)

DUTY

\$ *****12.00

(A) TORRENS TITLE

450/1109136

(B) LODGED BY

Document
Collection
Box

236S

Name, Address or DX and Telephone

HENRY DAVIS YORK

LLPN: 123154H

DX 173 SYDNEY Ph:+61 2 9947 6000

Reference: AGS/8092685/3108180

CODES

T

TW

(Sheriff)

(C) TRANSFEROR

BMGW Pty Ltd ACN 120 437 434 and The Austral Brick Company Proprietary Limited ACN 000 005 550

(D) CONSIDERATION

The transferor acknowledges receipt of the consideration of \$ nil

and as regards

(E) ESTATE

the land specified above transfers to the transferee an estate in fee simple

(F) SHARE

TRANSFERRED

Whole

(G)

Encumbrances (if applicable):

(H) TRANSFEE

The Austral Brick Company Proprietary Limited ACN 000 005 550

(I)

TENANCY:

DATE 23rd April 2007

(J) I certify that the person(s) signing opposite, with whom I am personally acquainted or as to whose identity I am otherwise satisfied, signed this instrument in my presence.

Certified correct for the purposes of the Real Property Act 1900 by the transferor.

Signature of witness:

Signature of transferor:

Name of witness: See Annexure A

Address of witness:

I certify that the person(s) signing opposite, with whom I am personally acquainted or as to whose identity I am otherwise satisfied, signed this instrument in my presence.

Certified correct for the purposes of the Real Property Act 1900 by the transferee.

Signature of witness:

Signature of transferee:

Name of witness: See Annexure A

Address of witness:

Handwritten signature



John L. Thompson
Group Company Secretary
Alexander J. Payne
CFO/Director

This Company Limited by its Attorney
in the State of New South Wales
in accordance with the provisions of
the Companies Act 1993 has caused
this document to be signed by its
attorney in the State of New South
Wales in accordance with the provisions
of the Companies Act 1993.

[Signature]
KIRBY TALENT

The placement of Reference Permanent Marks in lot 561 has been deferred in accordance with Clause 60 of the Surveying Regulation 2001. When placed the nature & position of these Reference Permanent Marks will be shown in a schedule on a separate sheet attached to this plan.

Department Of Lands Approval
(Authorised Officer)
I hereby approve this plan in accordance with the provisions of the Land Act 1933 in relation to the location of the land proposed.

Signature: _____
Date: _____
File Number: _____
Officer: _____

Subdivision Certificate
I certify that the provisions of s.109(1) of the Environmental Planning and Assessment Act 1979 have been satisfied in relation to the proposed subdivision.

Subdivision
(Insert subdivision or lot number)
Consent Authority: *[Signature]*
Date of endorsement: 27 APRIL 2007
Accreditation no: 11358
Subdivision Certificate No: 11358
File No: 05/127/11

Details wherever applicable.

SURVEYING REGULATION 2006: CLAUSE 35 (1)(b)(6)(2)				
MARK	MGA CO-ORDINATES		ZONE	CLASS
	EASTING	NORTHING		
PM 45425	300 245.698	6 255 658.383	56	B
PM 45426	300 997.811	6 255 838.578	56	B
PM 53653	301 144.766	6 255 830.362	56	B
SSM 15571	299 495.109	6 255 435.018	56	B
SSM 155470	299 728.8	6 255 405.8	56	D
SSM 163539	299 634.4	6 255 807.0	56	D
SSM 163541	299 928.8	6 255 251.1	56	D

SOURCE: MGA CO-ORDINATES ADAPTED FROM SCIMS
ON 01/12/2006
COMBINED SEA LEVEL & SCALE FACTOR=1.000080

PLAN FORM 2

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DP1110447

Registered: 18-6-2007

Title System: TORRENS

Purpose: SUBDIVISION

Ref. Map: U 8252-4 & 5

Lot Plan: DP1082988, DP1094500

PLAN OF SUBDIVISION OF

LOT 450 IN DP 1109136, LOT 371

IN DP 1094500 AND LOT 253 IN

DP 1082988

Lengths are in metres. Reduction Ratio 1: 5000

LGA: BLACKTOWN

Locality: EASTERN CREEK

Parish: MELVILLE

County: CUMBERLAND

This is sheet 1 of my plan in 7 sheets.

(Indicate if applicable)

Survey Certificate Surveying Regulation 2006

I, PETER WARREN CORNISH

of 32, FREDERICK ST, ROSDALE N.S.W. 2219

do hereby certify that the above is a true and correct copy of the plan as submitted to me and that the plan has been approved by me.

The plan is subject to the provisions of the Surveying Act 1968.

The plan is subject to the provisions of the Surveying Act 1968.

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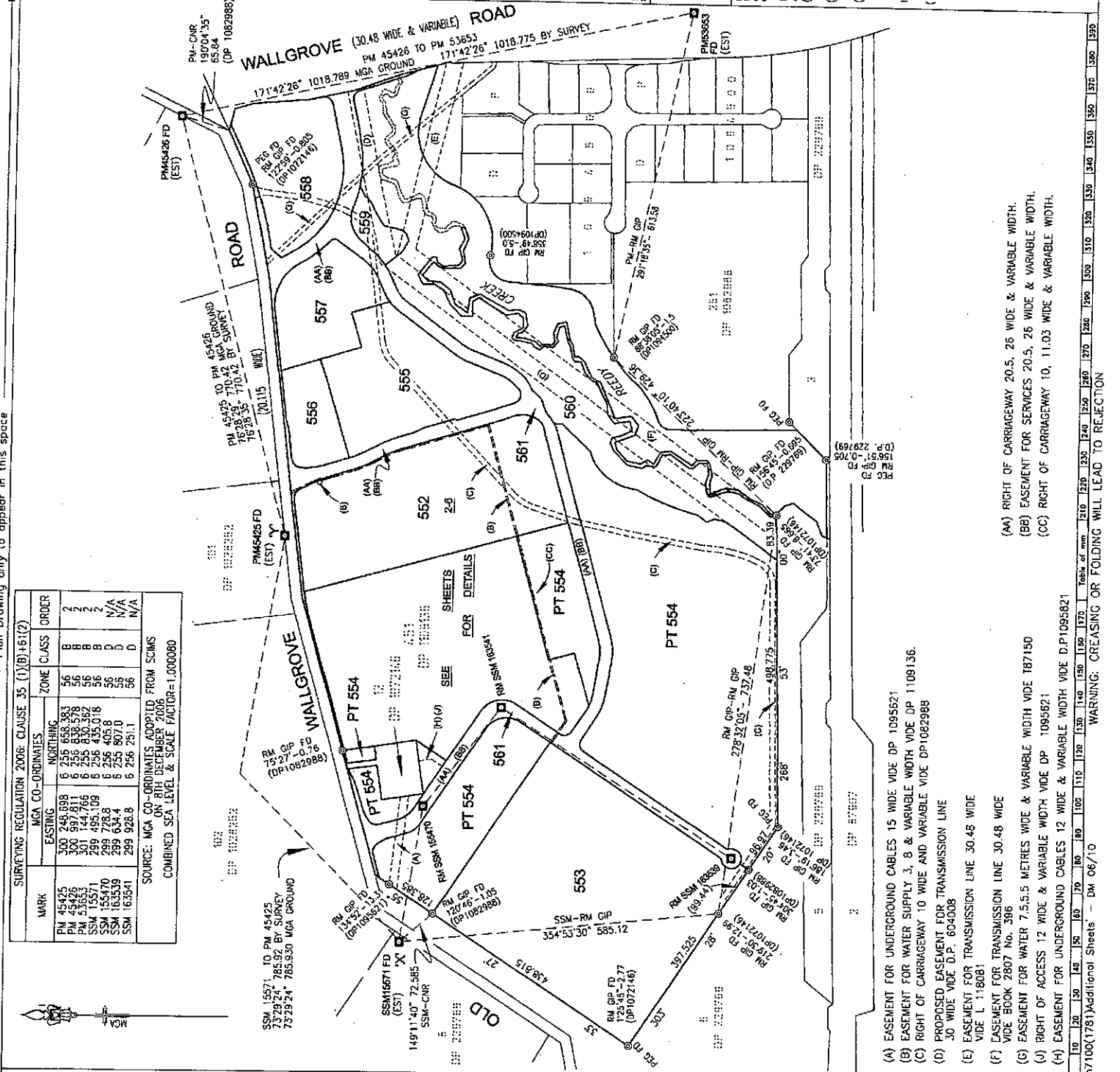
The plan is subject to the provisions of the Surveying Act 1968.

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The plan is subject to the provisions of the Surveying Act 1968.



- (A) EASEMENT FOR UNDERGROUND CABLES 15 WIDE VIDE DP 1095621
(B) EASEMENT FOR WATER SUPPLY 3, 8 & VARIABLE WIDTH VIDE DP 1109136.
(C) RIGHT OF CARRIAGEWAY 10 WIDE AND VARIABLE VIDE DP1082988
(D) PROPOSED EASEMENT FOR TRANSMISSION LINE
30 WIDE VIDE D.P. 604008
(E) EASEMENT FOR TRANSMISSION LINE 30.48 WIDE
VIDE L 118081
(F) EASEMENT FOR TRANSMISSION LINE 30.48 WIDE
VIDE BOOK 2807 No. 306
(G) EASEMENT FOR WATER 7.5-5.5 METRES WIDE & VARIABLE WIDTH VIDE 187150
(H) RIGHT OF ACCESS 12 WIDE & VARIABLE WIDTH VIDE DP 1095621
(I) EASEMENT FOR UNDERGROUND CABLES 12 WIDE & VARIABLE WIDTH VIDE D.P.1095621

- (AA) RIGHT OF CARRIAGEWAY 20.5, 26 WIDE & VARIABLE WIDTH.
(BB) EASEMENT FOR SERVICES 20.5, 26 WIDE & VARIABLE WIDTH.
(CC) RIGHT OF CARRIAGEWAY 10, 11.03 WIDE & VARIABLE WIDTH.

IT IS INTENDED TO RELEASE:

- (1) RIGHT OF CARRIAGEWAY 26, 20.5 WIDE
& VARIABLE WIDTH (VIDE DP 1109136).

SIGNATURES AND SEALS ONLY



Lindsay R. Partridge
Director

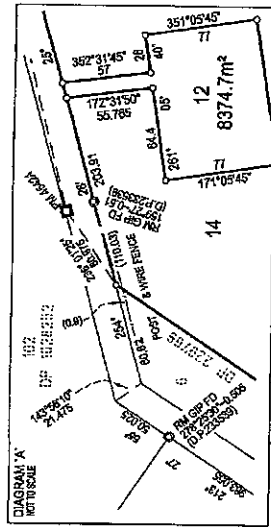
Iain H. Thompson
Secretary

Department of Land and Water Conservation Approval
(Authorised Officer)
In approving this plan certify that all necessary approvals in regard to the allocation of the land shown herein have been given.
Date: _____
Signature: _____
File Number: _____
Office: _____

Subdivision Certificate
I certify that the provisions of s.18(1) of the Environmental Planning and Assessment Act 1979 have been complied with in relation to the proposed subdivision.
* I have 'subdivided' or 'have' subdivided the land and out herein
Authorised Person (General Manager/Deputy General Manager/Deputy General Manager/Deputy General Manager/Deputy General Manager)
Date of endorsement: 15/05/2004
Accreditation no.: 15/05/2004
Subdivision Certificate no.: 11/04/2004
File no.: S.D.C. 20/10/2004
Note: When the plan is to be lodged electronically in the Land and Property Information System, it should include a signature in an electronic or digital form approved by the Registrar-General.
Dated this 15th day of May 2004.
Council File No. 20/10/2004

SURVEYOR'S REFERENCE: s110595001 rev C MINUTE PAPERS RETAINED PERMANENTLY

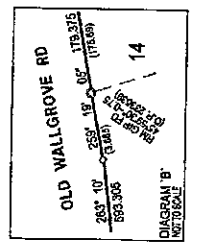
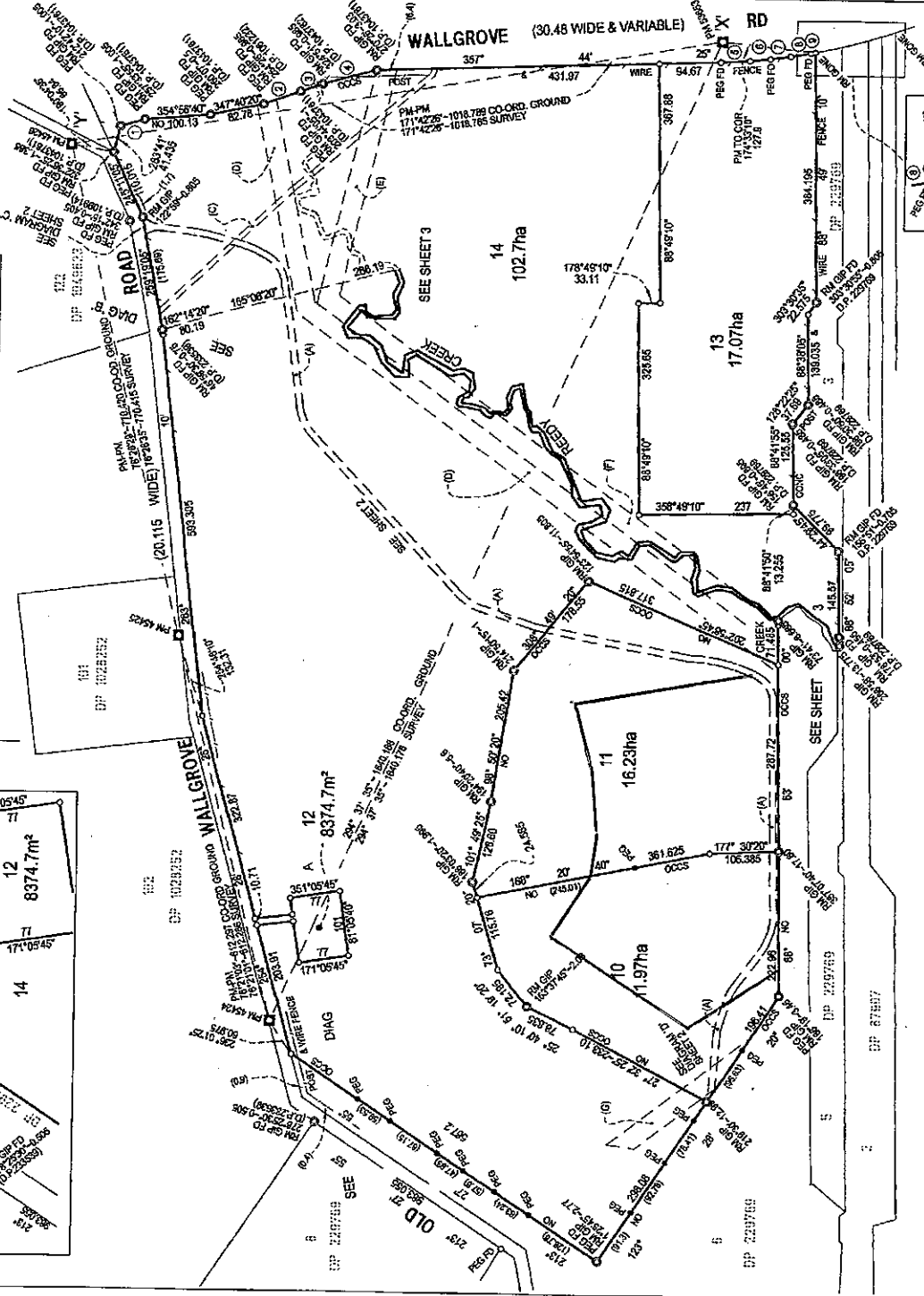
PLAN DRAWING ONLY TO APPEAR IN THIS SPACE



SURVEY PRACTICE REGULATION 2001: CLAUSE 32 (2)				
MARK	EASTING	NORTHING	ZONE	CLASS
PH 45434	299 553.646	6 256 513.884	56	B
PH 45435	300 638.890	6 236 658.383	56	B
PH 45436	300 638.890	6 236 658.383	56	B
PH 45437	301 144.756	6 236 658.383	56	B
PH 45438	301 144.756	6 236 658.383	56	B

SOURCE: MGA CO-ORDINATES ADOPTED FROM L.I.C. COMBINED SEA LEVEL & SCALE FACTOR=1.000079

SCHEDULE OF SHORT LINES	
LINE	BEARING DIST
1	330°00'00" 3.00
2	340°00'00" 3.00
3	350°00'00" 3.00
4	360°00'00" 3.00
5	370°00'00" 3.00
6	380°00'00" 3.00
7	390°00'00" 3.00
8	400°00'00" 3.00
9	410°00'00" 3.00
10	420°00'00" 3.00
11	430°00'00" 3.00
12	440°00'00" 3.00
13	450°00'00" 3.00
14	460°00'00" 3.00
15	470°00'00" 3.00
16	480°00'00" 3.00
17	490°00'00" 3.00
18	500°00'00" 3.00
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20	520°00'00" 3.00
21	530°00'00" 3.00
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23	550°00'00" 3.00
24	560°00'00" 3.00
25	570°00'00" 3.00
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27	590°00'00" 3.00
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33	650°00'00" 3.00
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35	670°00'00" 3.00
36	680°00'00" 3.00
37	690°00'00" 3.00
38	700°00'00" 3.00
39	710°00'00" 3.00
40	720°00'00" 3.00
41	730°00'00" 3.00
42	740°00'00" 3.00
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45	770°00'00" 3.00
46	780°00'00" 3.00
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87	1190°00'00" 3.00
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96	1280°00'00" 3.00
97	1290°00'00" 3.00
98	1300°00'00" 3.00
99	1310°00'00" 3.00
100	1320°00'00" 3.00



FOR CREEK DETAIL SEE SHEET 3
(F) EASEMENT FOR TRANSMISSION LINE 30.48 WIDE
VIDE BOOK 2807 NO. 386
(G) TRANSMISSION EASEMENT 30.48 WIDE CREATED
BY GOVT. GAZ. 16-11-02 VOL. 3382

(A) RIGHT OF CARRIAGEWAY 10 WIDE AND VARIABLE
VIDE BOOK 2807 NO. 386
(C) EASEMENT FOR WATER 7.6 WIDE VIDE OF P. 395223
MAIN
(D) PROPOSED EASEMENT FOR TRANSMISSION LINE
30 WIDE VIDE OF P. 604008
(E) EASEMENT FOR TRANSMISSION LINE 30.48 WIDE
VIDE L. 118081

DP1072146

Registered: LAW 20.10.2004

Title System: TORRENS

Purpose: SUBDIVISION

Ref. Map: 1:50,000

Last Plan: DP233599, DP1061232

PLAN OF SUBDIVISION OF LOTS

1-4 DP 233599 AND LOT 10 DP 1061232

Length in Meters: 1:50,000

LGA: BLACKTOWN

Locality: EASTERN CREEK

Parish: MELVILLE

County: CUMBERLAND

This is sheet 1 of my plan in 3 sheets (please if applicable).

Surveyors Regulation 2001

Surveyor's Declaration

I, the undersigned, being a duly qualified and licensed Surveyor, do hereby certify that the foregoing is a true and correct copy of the original plan as submitted to me, and that the same has been examined and found to be in accordance with the Surveyors Regulation 2001.

I am not aware of any other person claiming an interest in the land shown on this plan.

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DP1072146

Registered: A.W. 20.10.2004

This sheet 2 of 3 pages is 3 pages

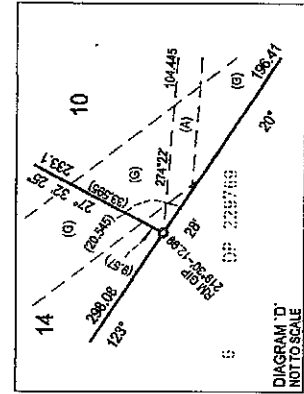
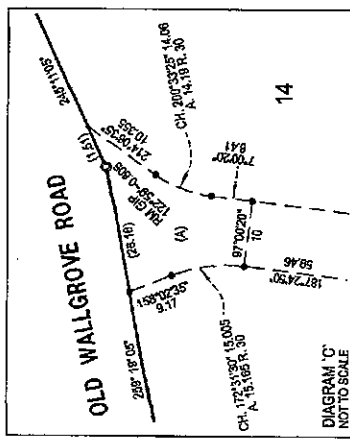
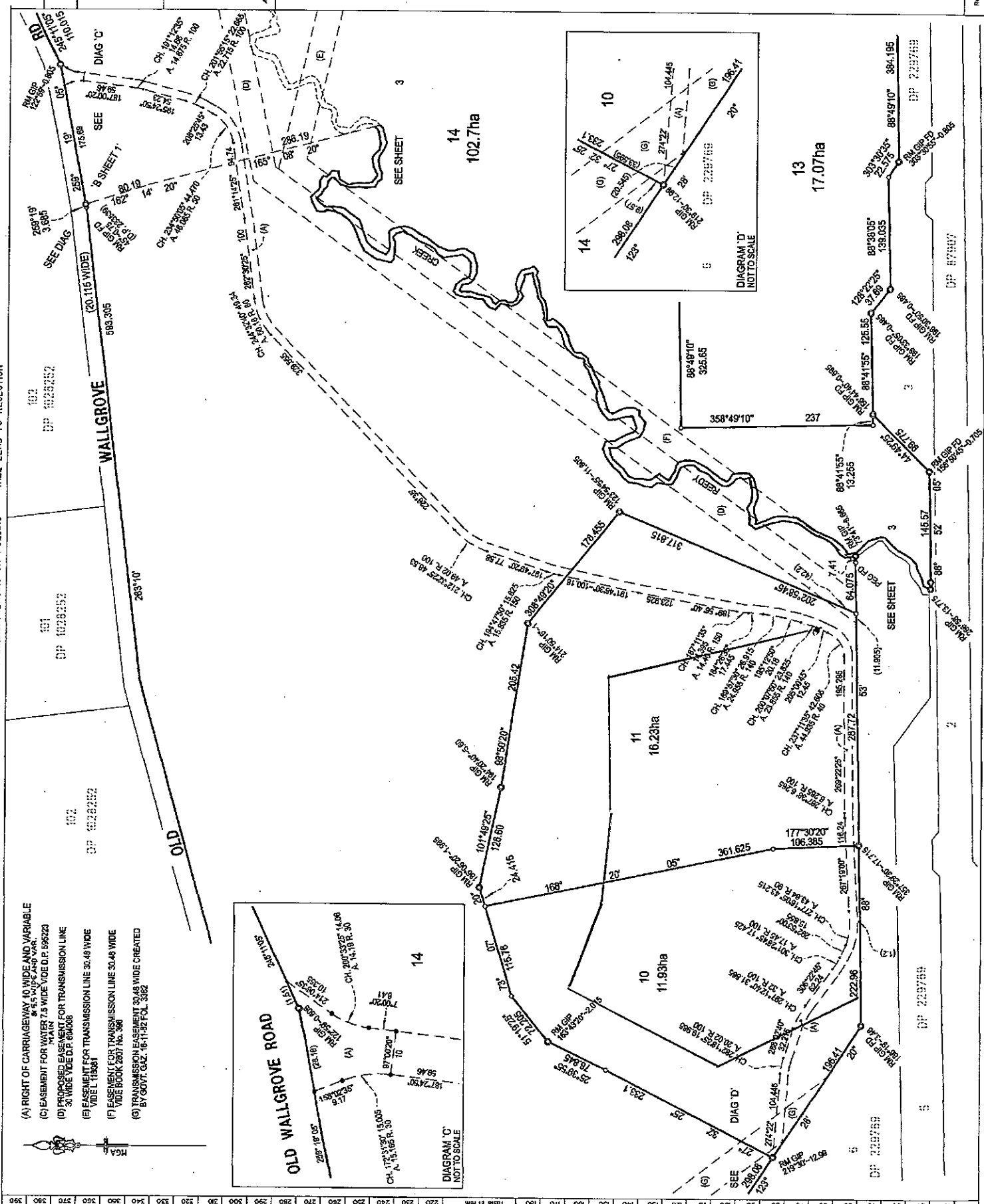
Surveyor: [Signature]

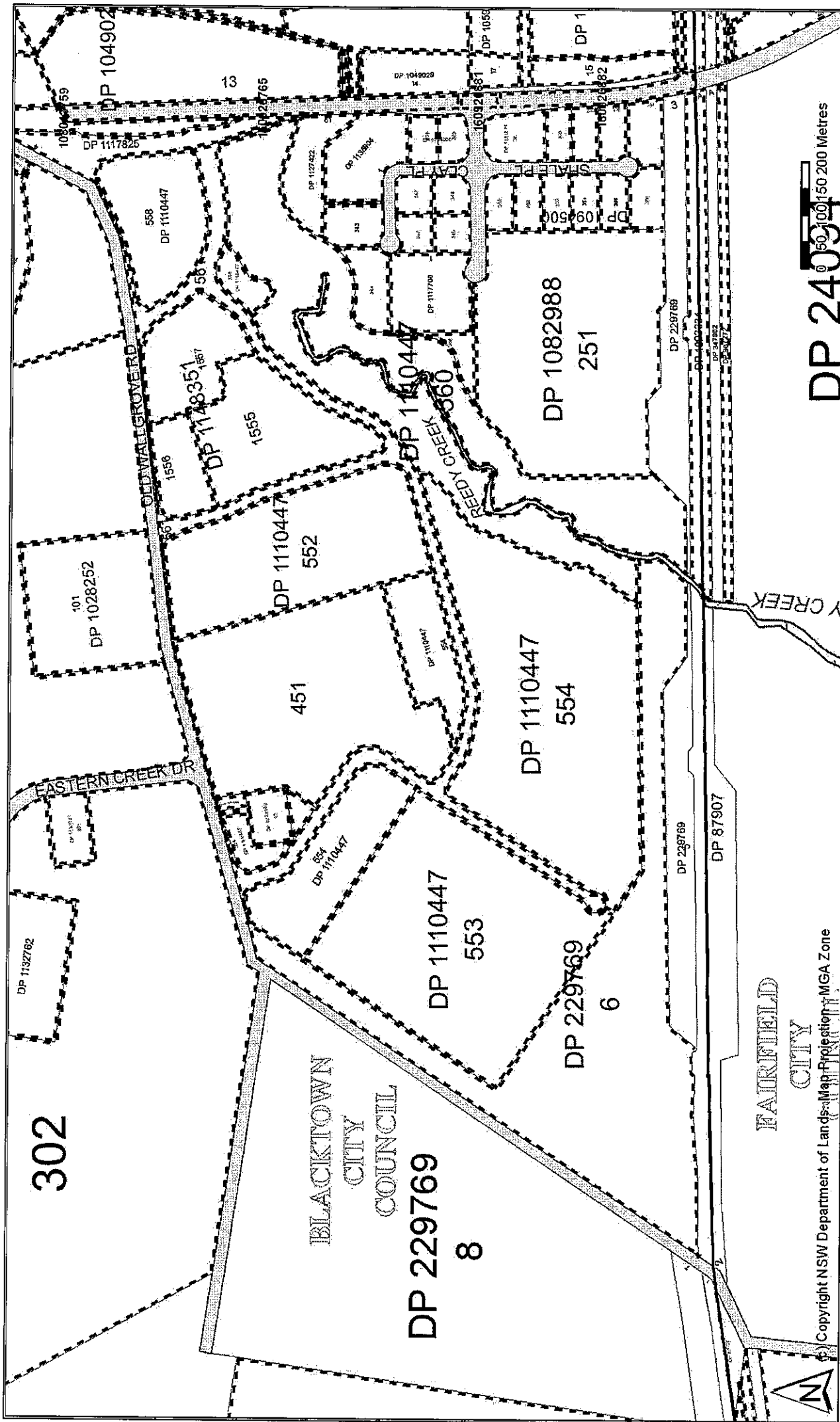
This plan is the property of the [Signature]

[Signature]

Authorised Person: [Signature]

For use where shown in this plan





BLACKTOWN
CITY
COUNCIL

FAIRFIELD
CITY

Copyright NSW Department of Lands - Map Projection: MGA Zone 56

DP 240534

Appendix B

Section 149 Certificate

Foster & Foster Pty Limited

DX 208 Sydney
GPO Box 980 Sydney 2001

Tel (02) 9657-0080
Fax (02) 8088-1188

ABN 40 116 451 140

www.legalsearches.com.au
service@legalsearches.com.au

Trading as:

Property Enquiry Services
Statewide Urgent Enquiries
Urgent Legal Searches

Property Enquiry Services

CERTIFICATE STATUS

To:

Lauren Wells
AECOM Australia Pty Ltd
P.O.BOX 726
PYMBLE 2073

Our Reference **F69809**

Status as at **19/08/2010**

All certificates delivered

Your Ref **Job:60161037 Task6.1**
Your Client **Cb Richard Ellis**
Property **Old Wallgrove Road, Eastern Creek**
LGA and Title **BLACKTOWN, Lot 554 DP1110447**

Certificates Enclosed ** Council Sect 149 (2)
Section 149 (5) add.info

** Please check that enclosed certificates contain correct details including title(s) and property description.

PLANNING CERTIFICATE UNDER SECTION 149

ENVIRONMENTAL PLANNING AND ASSESSMENT ACT, 1979

Certificate No.: 10-4808
Date: 16 AUG 2010
Page: 1 of 9
Enquiries: Ms Lucie
Applicants Ref: F69809 (CB RICHARD E LLIS)

Applicant FOSTER & FOSTER PTY LIMITED
T/AS PROPERTY ENQUIRY SERVICES
DX 208
SYDNEY

Property LOT 554 DP 1110447

OLD WALLGROVE ROAD,

Suburb EASTERN CREEK

Parish of Melville

NOTE: The land the subject of this Certificate is known to be located in the suburb of Eastern Creek. For all correspondence and property transactions this suburb name is to be used.

PART A

PREScribed INFORMATION PROVIDED PURSUANT TO SECTION 149(2) OF THE ENVIRONMENTAL PLANNING AND ASSESSMENT ACT 1979 (EP&A Act 1979)

NOTE: The following information is provided pursuant to Section 149(2) of the EP&A Act 1979, as prescribed by Schedule 4 of the *Environmental Planning and Assessment Regulation 2000*, and is applicable as of the date of this certificate.

1. NAMES OF RELEVANT PLANNING INSTRUMENTS AND DEVELOPMENT CONTROL PLANS

1.1 Environmental Planning Instruments

As at the date of this certificate the abovementioned land is not affected by Blacktown Local Environmental Plan 1988.

1.2 Development Control Plans

As at the date of this certificate the abovementioned land is not affected by Blacktown Development Control Plan 2006.

1.3 Relevant State Environmental Planning Policies (SEPPs), including draft policies, or Regional Environmental Plans deemed to be SEPPs

Council Chambers • 62 Flushcombe Road • Blacktown NSW 2148

Telephone: (02) 9839 6000 • **Facsimile:** (02) 9831 1961 • **DX** 8117 Blacktown

http://www.blacktown.nsw.gov.au • **email:** council@blacktown.nsw.gov.au

All correspondence to: The General Manager • PO Box 63 • Blacktown NSW 2148

NOTICE OF DISCLAIMER OF LIABILITY

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Blacktown City Council also gives notice to all users of the information supplied herein that wherever any particular enquiry herein remains unanswered or has not been elaborated upon, such silence should not be interpreted as meaning or inferring either a negative or a positive response as the case may be.

State Environmental Planning Policy No. 1 - Development Standards

The policy requires that variations to development standards must meet the objectives of local plans and controls. It makes development standards more flexible. It allows councils to approve a development proposal that does not comply with a set standard where this can be shown to be unreasonable or unnecessary.

State Environmental Planning Policy No. 4 - Development Without Consent and Miscellaneous Complying Development

This policy permits minor development and activities on land without a development application or through alternative assessment. This policy should be read in conjunction with Councils controls for Exempt and Complying Development.

State Environmental Planning Policy No. 6 - Number of Storeys in a Building

This Policy sets out a method for determining the number of storeys in a building, to prevent possible confusion arising from the interpretation of various environmental planning instruments.

State Environmental Planning Policy No. 19 - Bushland in Urban Areas

This policy protects and preserves bushland within certain urban areas, as part of the natural heritage or for recreational, educational and scientific purposes. The policy is designed to protect bushland in public open space zones and reservations, and to ensure that bush preservation is given a high priority when local environmental plans for urban development are prepared.

State Environmental Planning Policy No. 32 - Urban Consolidation (Redevelopment of Land)

This Policy states the Government's intention to ensure that urban consolidation objectives are met in all urban areas throughout the State. The Policy focuses on the redevelopment of urban land that is no longer required for the purpose it is currently zoned or used and encourages local councils to pursue their own urban consolidation strategies to help implement the aims and objectives of the policy. Councils will continue to be responsible for the majority of rezonings. The Policy sets out guidelines for the Minister to follow when considering whether to initiate a regional environmental plan (REP) to make particular sites available for consolidated urban redevelopment. Where a site is rezoned by an REP, the Minister will be the consent authority.

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State Environmental Planning Policy No. 33 - Hazardous and Offensive Development

This policy provides new definitions for 'hazardous industry', 'hazardous storage establishment', 'offensive industry' and 'offensive storage establishment'. The definitions apply to all planning instruments, existing and future. The new definitions enable decisions to approve or refuse a development to be based on the merit of proposal. The consent authority must carefully consider the specifics of the case, the location and the way in which the proposed activity is to be carried out. The Policy also requires specified matters to be considered for proposals that are 'potentially hazardous' or 'potentially offensive' as defined in the policy. For example, any application to carry out a potentially hazardous or potentially offensive development is to be advertised for public comment, and applications to carry out potentially hazardous development must be supported by a preliminary hazard analysis (PHA). The Policy does not change the role of Councils as consent authorities, land zoning, or the designated development provisions of the Environmental Planning and Assessment Act 1979.

State Environmental Planning Policy No. 55 - Remediation of Land

This policy provides state-wide planning controls for the remediation of contaminated land. The policy states that land must not be developed if it is unsuitable for a proposed use because it is contaminated. If the land is unsuitable, remediation must take place before the land is developed. The policy makes remediation permissible across the State, defines when consent is required, requires all remediation to comply with standards, ensures land is investigated if contamination is suspected, and requires councils to be notified of all remediation proposals.

State Environmental Planning Policy No. 64 - Advertising and Signage

This policy aims to ensure that outdoor advertising is compatible with the desired amenity and visual character of an area, provides effective communication in suitable locations and is of high quality design and finish. The SEPP was amended in August 2007 to permit and regulate outdoor advertising in transport corridors (e.g. freeways, tollways and rail corridors). The amended SEPP also aims to ensure that public benefits may be derived from advertising along and adjacent to transport corridors.

State Environmental Planning Policy - Affordable Rental Housing 2009

This policy establishes a consistent planning regime for the provision of affordable rental housing. The policy provides incentives for new affordable rental housing, facilitates the retention of existing affordable rentals, and expands the role of not-for-profit providers. It also aims to support local centres by providing housing for workers close to places of work, and facilitate development of housing for the homeless and other disadvantaged people.

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State Environmental Planning Policy - Exempt and Complying Development Codes

This policy streamlines assessment processes for development that complies with specified development standards. The policy provides exempt and complying development codes that have State-wide application, identifying, in the General Exempt Development Code, types of development that are of minimal environmental impact that may be carried out without the need for development consent; and, in the General Housing Code, types of complying development that may be carried out in accordance with a complying development certificate as defined in the Environmental Planning and Assessment Act 1979.

State Environmental Planning Policy - Major Development 2005

The SEPP defines certain developments that are major projects to be assessed under Part 3A of the Environmental Planning & Assessment Act 1979 and determined by the Minister for Planning. It also provides planning provisions for State significant sites. In addition, the SEPP identifies the council consent authority functions that may be carried out by joint regional planning panels (JRPPs) and classes of regional development to be determined by JRPPs. Note: This SEPP was formerly known as State Environmental Planning Policy (Major Projects) 2005.

State Environmental Planning Policy - Western Sydney Employment Area 2009

This State Environmental Planning Policy promotes economic development and the creation of employment in the Western Sydney Employment Area by providing for development, including major warehousing, distribution, freight transport, industrial, high technology and research facilities. The policy provides for coordinated planning, development and rezoning of land for employment or environmental conservation purposes.

State Environmental Planning Policy - Infrastructure 2007

This policy provides a consistent planning regime for infrastructure and the provision of services across NSW, along with providing for consultation with relevant public authorities during the assessment process. The SEPP supports greater flexibility in the location of infrastructure and service facilities along with improved regulatory certainty and efficiency.

State Environmental Planning Policy - Mining, Petroleum Production and Extractive Industries 2007

This policy aims to provide for the proper management and development of mineral, petroleum and extractive material resources for the social and economic welfare of the State. The policy establishes appropriate planning controls to encourage ecologically sustainable development.

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State Environmental Planning Policy - Temporary Structures and Places of Public Entertainment 2007

This policy provides for the erection of temporary structures and the use of places of public entertainment, while protecting public safety and local amenity. The SEPP supports the transfer of the regulation of places of public entertainment and temporary structures (such as tents, marquees and booths) from the Local Government Act 1993 to the Environmental Planning and Assessment Act 1979.

Sydney Regional Environmental Plan No. 9 - Extractive Industry Sydney Region

This plan aims to protect the viability of extractive resources in the Sydney Metropolitan Area by ensuring consideration is given to the impact of encroaching development.

2. ZONING AND LAND USE UNDER RELEVANT ENVIRONMENTAL PLANNING INSTRUMENTS

- (a) The abovementioned land is subject to the provisions of State Environmental Planning Policy (Western Sydney Employment Area) 2009 and is zoned:

IN1 - GENERAL INDUSTRIAL

- (b) The land does not include or comprise a critical habitat. Critical habitat refers to habitat that is critical to the survival of endangered species, populations or ecological communities. Areas of critical habitat are declared under Part 3 of the Threatened Species Conservation Act 1995 and Part 7A of the Fisheries Management Act 1994.
- (c) The land is not within a conservation area.
- (d) This land does not contain an item of environmental heritage under the protection of Blacktown Local Environmental Plan 1988.

3. COMPLYING DEVELOPMENT

Complying development under the *General Housing Code* may be carried out on the land.

Complying development under the *Housing Internal Alterations Code* may be carried out on the land.

Complying development under the *General Commercial and Industrial Code* may be carried out on the land.

Complying development under the *Subdivisions Code* of the Codes SEPP may be carried out on the land.

Disclaimer: This information only addresses matters raised in Clause 1.19 of State Environmental Planning Policy (Exempt and Complying Development Codes) 2008. It is your responsibility to ensure that you comply with the general requirements of the State Environmental Planning Policy (Exempt and Complying Codes) 2008. Failure to comply with these provisions may mean that a Complying Development Certificate issued under the provisions of State Environmental Planning Policy (Exempt and Complying Codes) 2008 is invalid.

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4. COASTAL PROTECTION

The land is not affected by the operation of Sections 38 or 39 of the *Coastal Protection Act, 1979*.

5. MINE SUBSIDENCE

The land has not been proclaimed to be a mine subsidence district within the meaning of Section 15 of the *Mine Subsidence Compensation Act, 1961*.

6. ROAD WIDENING AND ROAD REALIGNMENT

Blacktown Local Environmental Plan 1988 and Blacktown Development Control Plan 2006 nominate preferred road patterns throughout the City.

The land is not affected by road widening/road realignment under Division 2 of Part 3 of the Roads Act 1993 and/or environmental planning instrument.

7. COUNCIL AND OTHER PUBLIC AUTHORITY POLICIES ON HAZARD RISK RESTRICTIONS

Council has not adopted any policies to restrict the development of the land by reason of the likelihood of landslip, bushfire, tidal inundation, subsidence or the occurrence of acid sulphate soils. Although the Council has not adopted a specific policy to restrict development on bush fire prone land, it is bound by statewide bush fire legislation that may restrict development. In this regard, refer to point 11 below.

Council has adopted a policy on contaminated land which may restrict the development of this land. The land contamination policy applies when zoning or land use changes are proposed on land which has previously been used for certain purposes or has the potential to be affected by such purposes undertaken on nearby lands. Council's records may not be sufficient to determine all previous uses on the land, or determine activities that may have taken place on this land. Consideration of Council's policy and the application of provisions under the relevant State legislation and guidelines is necessary.

7A. FLOOD RELATED DEVELOPMENT CONTROLS INFORMATION

There are currently no mainstream or backwater flood-related development controls adopted by Council that apply to the land subject to this Certificate.

8. LAND RESERVED FOR ACQUISITION

Clauses 17, 17A and 18 of Blacktown Local Environmental Plan 1988 provide for the acquisition of certain land zoned 5(a), 5(b), 5(c), 6(a) or 6(c) by a public authority.

9. CONTRIBUTIONS PLANS

Council currently levies contributions under Section 94 of the EP&A Act 1979 for facilities and services. The further development of the subject land may incur such contribution.

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10. MATTERS ARISING UNDER THE CONTAMINATED LAND MANAGEMENT ACT 1997

Item 10 to Schedule 4 of the Environmental Planning and Assessment Regulation 2000 has been repealed by the Contaminated Land Management Amendment Act 2008

11. BUSH FIRE PRONE LAND

The *Rural Fires and Environmental Assessment Legislation Amendment Act 2002*, which came into force on 1 August 2002, introduced development provisions for bush fire prone land as shown on a Bush Fire Prone Land Map. "Bush fire prone land" is land that has been designated by the Commissioner of the NSW Rural Fire Service as being bush fire prone due to characteristics of vegetation and topography. The land the subject of this certificate has been identified on Council's Bush Fire Prone Land Map as being:

clear of any bush fire prone land

On land that is bush fire prone, certain development may require further consideration under Section 79BA or Section 91 of the EP&A Act 1979 and under Section 100B of the *Rural Fires Act 1997*.

12. PROPERTY VEGETATION PLANS

Land to which this Certificate applies is not subject to a Property Vegetation Plan under the provisions of the *Native Vegetation Act 2003*.

13. ORDERS UNDER TREES (DISPUTES BETWEEN NEIGHBOURS) ACT 2006

Land to which this Certificate applies is not the subject of an order made under the *Trees (Disputes Between Neighbours) Act 2006*.

14. DIRECTIONS UNDER PART 3A

Land to which this Certificate applies is not subject to the above.

15. SITE COMPATIBILITY CERTIFICATES AND CONDITIONS FOR SENIORS HOUSING

Land to which this Certificate applies is not subject to the above.

16. SITE COMPATIBILITY CERTIFICATES FOR INFRASTRUCTURE

Land to which this Certificate applies is not subject to the above.

17. SITE COMPATIBILITY CERTIFICATES AND CONDITIONS FOR AFFORDABLE RENTAL HOUSING

Land to which this Certificate applies is not subject to the above.

NOTICE OF DISCLAIMER OF LIABILITY

Blacktown City Council gives notice and points out to all users of the information supplied herein the information herein which has been compiled by Council from sources outside of Council's control, although having been provided with all due care and in good faith, is provided on the basis that Council will not accept any responsibility for and will not be liable for its contents or for any consequence arising from its use, and every user of such information is advised to make all necessary enquiries from the appropriate organisations, institutions and the like.

Blacktown City Council also gives notice to all users of the information supplied herein that wherever any particular enquiry herein remains unanswered or has not been elaborated upon, such silence should not be interpreted as meaning or inferring either a negative or a positive response as the case may be.

18. MATTERS ARISING UNDER THE CONTAMINATED LAND MANAGEMENT ACT 1997 AND CONTAMINATED LAND MANAGEMENT AMENDMENT ACT 2008

- (a) The land to which this certificate relates has not been declared to be significantly contaminated land at the date when the certificate was issued.
- (b) The land to which the certificate relates is not subject to a management order at the date when the certificate was issued.
- (c) The land to which this certificate relates is not the subject of an approved voluntary management proposal at the date when the certificate was issued.
- (d) The land to which this certificate relates is not subject to an ongoing maintenance order as at the date when the certificate was issued.
- (e) The land to which this certificate relates is not the subject of a site audit statement provided to the Council.

19. NATION BUILDING AND JOBS PLAN (STATE INFRASTRUCTURE DELIVERY) ACT 2009

Land to which this Certificate applies is not subject to the above.

PART B

**ADDITIONAL INFORMATION PROVIDED PURSUANT TO
SECTION 149(5) OF THE ENVIRONMENTAL PLANNING
AND ASSESSMENT ACT 1979 (EP&A Act 1979)**

NOTE: When information pursuant to section 149(5) is requested the Council is under no obligation to furnish any of the information supplied herein pursuant to that section. Council draws your attention to section 149(6) which states that a Council shall not incur any liability in respect of any advice provided in good faith pursuant to sub-section (5). The absence of any reference to any matter affecting the land shall not imply that the land is not affected by any matter not referred to in this Certificate.

This advice is provided in accordance with Section 149(5) and 149(6) of the EP&A Act 1979:

The land is affected by a tree preservation control under Blacktown Local Environmental Plan 1988. A person shall not ringbark, cut down, lop, top, remove, injure or wilfully destroy any tree, or cause any tree to be ringbarked, cut down, topped, lopped, injured or wilfully destroyed, except with the consent of the Council.

The provisions of any covenant, agreement or instrument applying to this land purporting to restrict or prohibit certain development may be inconsistent with the provisions of a Regional Environmental Plan, State Environmental Planning Policy or Blacktown Local Environmental Plan 1988, in which case the provisions of any such covenant, agreement or instrument may be overridden.

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Blacktown City Council also gives notice to all users of the information supplied herein that wherever any particular enquiry herein remains unanswered or has not been elaborated upon, such silence should not be interpreted as meaning or inferring either a negative or a positive response as the case may be.

This land may contain an Aboriginal archaeological site under the protection of the National Parks and Wildlife Service Act, 1974. Before any development can proceed in an area known to contain Aboriginal archaeological sites, a consent to destroy must be obtained from the Director of the National Parks and Wildlife Service.

The *Threatened Species Conservation Act 1995* provides for the conservation of threatened species, populations and ecological communities of animals and plants. The *Threatened Species Conservation Act* amended the *Environmental Planning and Assessment Act 1979* to require, amongst other things, that:-

- (a) a critical habitat (as defined in the *Threatened Species Conservation Act 1995*) be identified in environmental planning instruments;
- (b) consent authorities and determining authorities must, when considering proposed development or an activity, assess whether it is likely to significantly affect threatened species, populations and ecological communities, or their habitats, and, if a significant effect is likely, to require the preparation of a species impact statement in accordance with the requirements of the *Threatened Species Conservation Act 1995*;
- (c) consent authorities and determining authorities must, when considering proposed development or an activity, have regard to the relevant recovery plans and threat abatement plans; and
- (d) a regime for concurrence and consultation between consent authorities and determining authorities and the Minister administering the *Threatened Species Conservation Act 1995* or the Director-General of the National Parks and Wildlife be instructed to aid the assessment process under the *Environmental Planning & Assessment Act 1979*.

The *Commonwealth Environment Protection and Biodiversity Conservation Act 1999* provides protection for items of national significance. The Act requires a separate Commonwealth approval to be obtained where an action is likely to have significant impacts on items of national environmental significance. Items of national environmental significance include, amongst other things, nationally threatened animal and plant species and ecological communities. The Commonwealth Department of the Environment and Water Resources should be contacted for further advice.

General Manager

Per: _____

End of Certificate

NOTICE OF DISCLAIMER OF LIABILITY

Blacktown City Council gives notice and points out to all users of the information supplied herein the information herein which has been compiled by Council from sources outside of Council's control, although having been provided with all due care and in good faith, is provided on the basis that Council will not accept any responsibility for and will not be liable for its contents or for any consequence arising from its use, and every user of such information is advised to make all necessary enquiries from the appropriate organisations, institutions and the like.

Blacktown City Council also gives notice to all users of the information supplied herein that wherever any particular enquiry herein remains unanswered or has not been elaborated upon, such silence should not be interpreted as meaning or inferring either a negative or a positive response as the case may be.

Appendix C

DECCW

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You are here: [Home](#) > [Contaminated land](#) > [Record of EPA notices](#)



Search results

Your search for: LGA: Blacktown City Council

Matched 3 notices relating to 2 sites.

[Search Again](#)

[Refine Search](#)

Suburb	Address	Site Name	Notices related to this site
Kings Park	21 Tattersall Road	Former Dow Corning Sealants Factory	1 current
Seven Hills	27 Powers Road	Ma-Refine Oils Seven Hills	2 current

Page 1 of 1

16 August 2010

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You are here: [Home](#) > [Environment protection licences](#) > [POEO Public Register](#) > [Search for licences, applications and notices](#)



Search Results

Your search for: Suburb - Eastern Creek

matched

10 licences (with applications or notices matching your search)

plus 5 notices (where no licence is available online. [See faq](#).)

[Search again](#)

[Return to previous page](#)

Document number	Name	Address	Status / Notice type
12454	ALUMINIUM SPECIALTIES GROUP PTY. LTD. licence summary	3 ALSPEC PLACE EASTERN CREEK 2766	Issued
11798	EASTERN CREEK OPERATIONS PTY LIMITED licence summary	WALLGROVE ROAD EASTERN CREEK 2766	Issued
10042	EDL LFG (NSW) PTY LTD licence summary	WALLGROVE ROAD EASTERN CREEK 2766	Issued
5073	HANSON CONSTRUCTION MATERIALS PTY LTD licence summary	Off Wallgrove Road EASTERN CREEK 2766	Issued
11509	INTERNATIONAL THEME PARK PTY LTD licence summary	100 Wallgrove Road EASTERN CREEK 2766	Surrendered
12569	LMS GENERATION PTY LTD licence summary	Ferrers Road EASTERN CREEK 2766	Issued
494	PIONEER ROAD SERVICES PTY LTD licence summary	OLD WALLGROVE ROAD EASTERN CREEK 2766	Issued
7119	TRANSGRID licence summary	200 OLD WALLGROVE ROAD EASTERN CREEK 2766	Issued
12517	WASTE RECYCLING AND PROCESSING CORPORATION licence summary	WALLGROVE ROAD EASTERN CREEK 2766	Issued
5272	WASTE RECYCLING AND PROCESSING CORPORATION licence summary	WALLGROVE ROAD EASTERN CREEK 2766	Issued
011041	AUSTRALIA'S WONDERLAND notice summary	WALLGROVE ROAD EASTERN CREEK 2766	S 58 Licence Variation
011324	AUSTRALIA'S WONDERLAND notice summary	WALLGROVE ROAD EASTERN CREEK 2766	S 58 Licence Variation
010295	EASTERN CREEK INTERNATIONAL KARTING RACEWAY notice summary	REEN ROAD (PART LOT 1 DP855014) EASTERN CREEK 2766	S 80 Surrender Licence
008414	EASTERN CREEK RACEWAY notice summary	HORSLEY ROAD EASTERN CREEK 2766	S 80 Surrender Licence
1007034	INTERNATIONAL THEME PARK PTY LTD notice summary	WALLGROVE ROAD EASTERN CREEK 2766	S 80 Surrender Licence

Page 1 of 1

27 August 2010

Appendix D

WorkCover

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Our Ref: D10/110789
Your Ref: Lauren Wells

23 August 2010

24 AUG 2010

Attention: Lauren Wells
AECOM Australia Pty Ltd
PO Box 726
PYMBLE NSW 2073

Dear Ms Wells,

RE SITE: M7 Business Hub, Cnr Old Wallgrove & Wallgrove Roads
Eastern Creek

I refer to your site search request received by WorkCover NSW on 17 August 2010 requesting information on licences to keep dangerous goods for the above site.

A search of the Stored Chemical Information Database (SCID) and the microfiche records held by WorkCover NSW has not located any records pertaining to the above-mentioned premises.

If you have any further queries please contact the Dangerous Goods Licensing Team on (02) 4321 5500.

Yours Sincerely



Diana Hayes

Senior Licensing Officer
Dangerous Goods Team

WorkCover. **Watching out for you.**

Appendix E

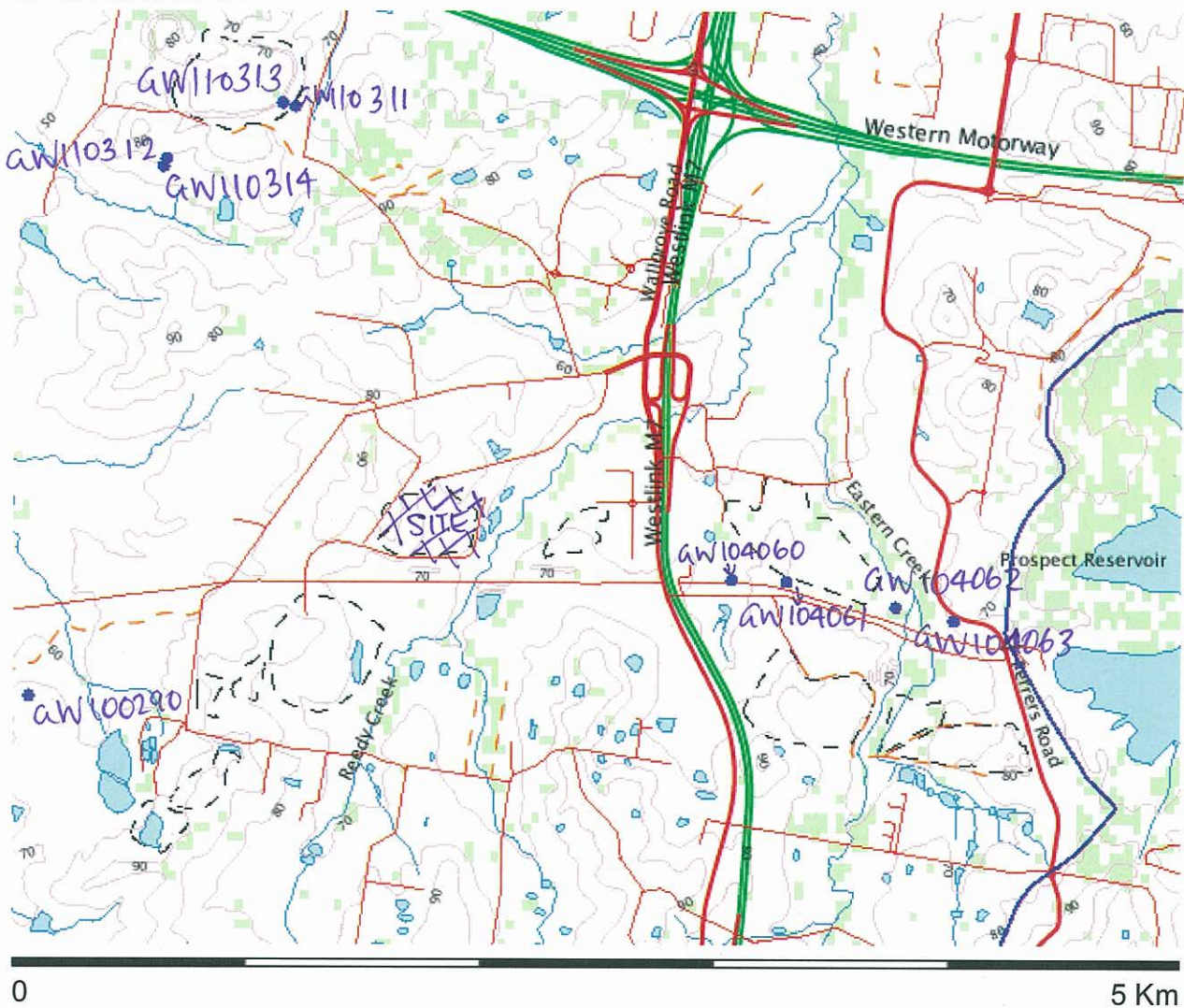
Registered Bores

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M7 Business Hub, Eastern Creek, NSW

Map created with NSW Natural Resource Atlas - <http://nratlas.nsw.gov.au>

Monday, August 16, 2010



Legend

Symbol	Layer	Custodian
	Cities and large towns	renderImage: Cannot build image from features
	Populated places	renderImage: Cannot build image from features
	Towns	
	Groundwater Bores	
	Catchment Management Authority boundaries	
	Major rivers	

Topographic base map

Groundwater Works Summary

For information on the meaning of fields please see [Glossary](#)
Document Generated on Monday, August 16, 2010

[Print Report](#)

[Works Details](#) [Site Details](#) [Form A](#) [Licensed](#) [Construction](#) [Water Bearing Zones](#) [Drillers Log](#)

Work Requested -- GW110313

Works Details [\(top\)](#)

GROUNDWATER NUMBER	GW110313
LIC-NUM	10BL602119
AUTHORISED-PURPOSES	MONITORING BORE
INTENDED-PURPOSES	MONITORING BORE
WORK-TYPE	Well
WORK-STATUS	
CONSTRUCTION-METHOD	Auger - Solid Flight
OWNER-TYPE	Private
COMMENCE-DATE	
COMPLETION-DATE	2009-07-08
FINAL-DEPTH (metres)	150.00
DRILLED-DEPTH (metres)	150.00
CONTRACTOR-NAME	
DRILLER-NAME	
PROPERTY	A C N 114 843 453
GWMA	-
GW-ZONE	-
STANDING-WATER-LEVEL	40.30
SALINITY	
YIELD	0.20

Site Details [\(top\)](#)

REGION	10 - SYDNEY SOUTH COAST
RIVER-BASIN	
AREA-DISTRICT	
CMA-MAP	
GRID-ZONE	
SCALE	
ELEVATION	
ELEVATION-SOURCE	
NORTHING	6258464.00
EASTING	299153.00
LATITUDE	33 47' 42"
LONGITUDE	150 49' 50"
GS-MAP	

AMG-ZONE 56
 COORD-SOURCE
 REMARK

Form-A [\(top\)](#)

COUNTY CUMBERLAND
 PARISH MELVILLE
 PORTION-LOT-DP 1 400697

Licensed [\(top\)](#)

COUNTY CUMBERLAND
 PARISH MELVILLE
 PORTION-LOT-DP 1 400697

Construction [\(top\)](#)

Negative depths indicate Above Ground Level;H-Hole;P-Pipe;OD-Outside Diameter;
 ID-Inside Diameter;C-Cemented;SL-Slot Length;A-Aperture;GS-Grain Size;Q-Quantity

HOLE- NO	PIPE- NO	COMPONENT- CODE	COMPONENT- TYPE	DEPTH- FROM (metres)	DEPTH- TO (metres)	OD (mm)	ID (mm)	INTERVAL	DETAIL
1		Hole	Hole	0.00	3.00	150			Auger - Solid Flight
1		Hole	Hole	3.00	150.00	150			Down Hole Hammer
1	1	Casing	PVC Class 18	0.00	135.00	50			Screwed; Seated on Bottom; End cap
1	1	Opening	Slots - Horizontal	135.00	150.00	50			PVC Class 9; Casing - Machine Slotted; SL: 45mm; A: 4mm
1		Annulus	Bentonite/Grout	128.00	130.00				
1		Annulus	Waterworn/Rounded	130.00	150.00				Graded; GS: 2- 3mm

Water Bearing Zones [\(top\)](#)

FROM- DEPTH (metres)	TO- DEPTH (metres)	THICKNESS (metres)	ROCK- CAT- DESC	S-W- L	D- D- L	YIELD	TEST- HOLE- DEPTH (metres)	DURATION	SALINITY
130.00	150.00	20.00		40.30	0.20			2.00	

Drillers Log [\(top\)](#)

FROM	TO	THICKNESS	DESC	GEO-MATERIAL COMMENT
0.00	1.00	1.00	CLAY SILTY BROWN	
1.00	9.00	8.00	WEATHERED SHALE,BROWN	
9.00	31.00	22.00	SHALE, MEDIUM GREY	
31.00	39.00	8.00	SANDSTONE LIGHT GREY	
39.00	145.00	106.00	SHALE, DARK GREY	
145.00	150.00	5.00	SANDSTONE, LIGHT GREY	

Warning To Clients: This raw data has been supplied to the Department of Infrastructure, Planning and Natural Resources (DIPNR) by drillers, licensees and other sources. The DIPNR does not verify the accuracy of this data. The data is presented for use by you at your own risk. You should consider verifying this data before relying on it. Professional hydrogeological advice should be sought in interpreting and using this data.

Groundwater Works Summary

For information on the meaning of fields please see [Glossary](#)
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[Print Report](#)

[Works Details](#) [Site Details](#) [Form A](#) [Licensed](#) [Construction](#) [Water Bearing Zones](#) [Drillers Log](#)

Work Requested -- GW110312

Works Details [\(top\)](#)

GROUNDWATER NUMBER	GW110312
LIC-NUM	10BL602119
AUTHORISED-PURPOSES	MONITORING BORE
INTENDED-PURPOSES	MONITORING BORE
WORK-TYPE	Well
WORK-STATUS	
CONSTRUCTION-METHOD	Auger - Solid Flight
OWNER-TYPE	Private
COMMENCE-DATE	
COMPLETION-DATE	2009-07-08
FINAL-DEPTH (metres)	100.00
DRILLED-DEPTH (metres)	100.00
CONTRACTOR-NAME	
DRILLER-NAME	
PROPERTY	A C N 114 843 453
GWMA	-
GW-ZONE	-
STANDING-WATER-LEVEL	39.80
SALINITY	
YIELD	0.20

Site Details [\(top\)](#)

REGION	10 - SYDNEY SOUTH COAST
RIVER-BASIN	
AREA-DISTRICT	
CMA-MAP	
GRID-ZONE	
SCALE	
ELEVATION	
ELEVATION-SOURCE	
NORTHING	6258108.00
EASTING	298563.00
LATITUDE	33 47' 53"
LONGITUDE	150 49' 27"
GS-MAP	

AMG-ZONE 56
 COORD-SOURCE
 REMARK

Form-A [\(top\)](#)

COUNTY COOK
 PARISH LINDEN
 PORTION-LOT-DP 2 262213

Licensed [\(top\)](#)

COUNTY CUMBERLAND
 PARISH MELVILLE
 PORTION-LOT-DP 1 400697

Construction [\(top\)](#)

Negative depths indicate Above Ground Level;H-Hole;P-Pipe;OD-Outside Diameter;
 ID-Inside Diameter;C-Cemented;SL-Slot Length;A-Aperture;GS-Grain Size;Q-Quantity

HOLE- NO	PIPE- NO	COMPONENT- CODE	COMPONENT- TYPE	DEPTH- FROM (metres)	DEPTH- TO (metres)	OD (mm)	ID (mm)	INTERVAL	DETAIL
1		Hole	Hole	0.00	3.00	150			Auger - Solid Flight
1		Hole	Hole	3.00	100.00	150			Down Hole Hammer
1	1	Casing	PVC Class 18	0.00	88.00	50			Screwed; Seated on Bottom; End cap
1	1	Opening	Slots - Horizontal	88.00	100.00	50			PVC Class 9; Casing - Machine Slotted; SL: 45mm; A: 4mm
1		Annulus	Bentonite/Grout	81.00	83.00				
1		Annulus	Waterworn/Rounded	83.00	100.00				Graded; GS: 2- 3mm

Water Bearing Zones [\(top\)](#)

FROM- DEPTH (metres)	TO- DEPTH (metres)	THICKNESS (metres)	ROCK- CAT- DESC	S-W- L	D- D- L	YIELD	TEST- HOLE- DEPTH (metres)	DURATION	SALINITY
83.00	100.00	17.00		39.80	0.20			2.00	

Drillers Log [\(top\)](#)

FROM	TO	THICKNESS	DESC	GEO-MATERIAL	COMMENT
0.00	3.00	3.00	SHALE, FILL		
3.00	8.00	5.00	SHALE WEATHERED,	LIGHT BROWN	
8.00	96.00	88.00	SHALE,	LIGHT GREY	
96.00	100.00	4.00	SHALE,	DARK GREY	

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Groundwater Works Summary

For information on the meaning of fields please see [Glossary](#)
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[Print Report](#)

[Works Details](#) [Site Details](#) [Form A](#) [Licensed](#) [Construction](#) [Water Bearing Zones](#) [Drillers Log](#)

Work Requested -- GW110311

Works Details [\(top\)](#)

GROUNDWATER NUMBER	GW110311
LIC-NUM	10BL602119
AUTHORISED-PURPOSES	MONITORING BORE
INTENDED-PURPOSES	MONITORING BORE
WORK-TYPE	Well
WORK-STATUS	
CONSTRUCTION-METHOD	Auger - Solid Flight
OWNER-TYPE	Private
COMMENCE-DATE	
COMPLETION-DATE	2009-07-08
FINAL-DEPTH (metres)	100.00
DRILLED-DEPTH (metres)	100.00
CONTRACTOR-NAME	
DRILLER-NAME	
PROPERTY	A C N 114 843 453
GWMA	-
GW-ZONE	-
STANDING-WATER-LEVEL	31.60
SALINITY	
YIELD	0.20

Site Details [\(top\)](#)

REGION	10 - SYDNEY SOUTH COAST
RIVER-BASIN	
AREA-DISTRICT	
CMA-MAP	
GRID-ZONE	
SCALE	
ELEVATION	
ELEVATION-SOURCE	
NORTHING	6258444.00
EASTING	299218.00
LATITUDE	33 47' 42"
LONGITUDE	150 49' 52"
GS-MAP	

AMG-ZONE 56
 COORD-SOURCE
 REMARK

Form-A [\(top\)](#)

COUNTY CUMBERLAND
 PARISH MELVILLE
 PORTION-LOT-DP 1 400697

Licensed [\(top\)](#)

COUNTY CUMBERLAND
 PARISH MELVILLE
 PORTION-LOT-DP 1 400697

Construction [\(top\)](#)

Negative depths indicate Above Ground Level;H-Hole;P-Pipe;OD-Outside Diameter;
 ID-Inside Diameter;C-Cemented;SL-Slot Length;A-Aperture;GS-Grain Size;Q-Quantity

HOLE- NO	PIPE- NO	COMPONENT- CODE	COMPONENT- TYPE	DEPTH- FROM (metres)	DEPTH- TO (metres)	OD (mm)	ID (mm)	INTERVAL	DETAIL
1		Hole	Hole	0.00	3.00	150			Auger - Solid Flight
1		Hole	Hole	3.00	100.00	150			Down Hole Hammer
1	1	Casing	PVC Class 18	0.00	88.00	50			Screwed; Seated on Bottom; End cap PVC Class 9; Casing - Machine Slotted; SL: 45mm; A: 4mm; Screwed
1	1	Opening	Slots - Horizontal	88.00	100.00	50			
1		Annulus	Bentonite/Grout	81.00	83.00				
1		Annulus	Waterworn/Rounded	83.00	100.00				Graded; GS: 2- 3mm

Water Bearing Zones [\(top\)](#)

FROM- DEPTH (metres)	TO- DEPTH (metres)	THICKNESS (metres)	ROCK- CAT- DESC	S-W- L	D- D- L	YIELD	TEST- HOLE- DEPTH (metres)	DURATION	SALINITY
----------------------------	--------------------------	-----------------------	-----------------------	-----------	---------------	-------	-------------------------------------	----------	----------

83.00 100.00 17.00 31.60 0.20 2.00

Drillers Log [\(top\)](#)

FROM	TO	THICKNESS	DESC	GEO-MATERIAL	COMMENT
0.00	1.00	1.00	CLAY SILTY BROWN		
1.00	9.00	8.00	SHALE WEATHERED,BROWN		
9.00	31.00	22.00	SHALE,MEDIUM,GREY		
31.00	100.00	69.00	SHALE,DARK GREY		

Warning To Clients: This raw data has been supplied to the Department of Infrastructure, Planning and Natural Resources (DIPNR) by drillers, licensees and other sources. The DIPNR does not verify the accuracy of this data. The data is presented for use by you at your own risk. You should consider verifying this data before relying on it. Professional hydrogeological advice should be sought in interpreting and using this data.

Groundwater Works Summary

For information on the meaning of fields please see [Glossary](#)

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[Works Details](#) [Site Details](#) [Form A](#) [Licensed](#) [Construction](#) [Water Bearing Zones](#) [Drillers Log](#)

Work Requested -- GW104063

Works Details [\(top\)](#)

GROUNDWATER NUMBER	GW104063
LIC-NUM	10BL160233
AUTHORISED-PURPOSES	MONITORING BORE
INTENDED-PURPOSES	MONITORING BORE
WORK-TYPE	Bore
WORK-STATUS	(Unknown)
CONSTRUCTION-METHOD	Rotary
OWNER-TYPE	
COMMENCE-DATE	
COMPLETION-DATE	2001-08-23
FINAL-DEPTH (metres)	27.40
DRILLED-DEPTH (metres)	27.40
CONTRACTOR-NAME	
DRILLER-NAME	
PROPERTY	N/A
GWMA	-
GW-ZONE	-
STANDING-WATER-LEVEL	
SALINITY	
YIELD	

Site Details [\(top\)](#)

REGION	10 - SYDNEY SOUTH COAST
RIVER-BASIN	
AREA-DISTRICT	
CMA-MAP	
GRID-ZONE	
SCALE	
ELEVATION	
ELEVATION-SOURCE	
NORTHING	6255343.00
EASTING	302689.00
LATITUDE	33 49' 25"
LONGITUDE	150 52' 5"
GS-MAP	

AMG-ZONE 56
 COORD-SOURCE
 REMARK

Form-A [\(top\)](#)

COUNTY CUMBERLAND
 PARISH MELVILLE
 PORTION-LOT-DP LT 1 DP 206617

Licensed [\(top\)](#)

COUNTY CUMBERLAND
 PARISH MELVILLE
 PORTION-LOT-DP 1 206617

Construction [\(top\)](#)

Negative depths indicate Above Ground Level;H-Hole;P-Pipe;OD-Outside Diameter;
 ID-Inside Diameter;C-Cemented;SL-Slot Length;A-Aperture;GS-Grain Size;Q-Quantity

HOLE- NO	PIPE- NO	COMPONENT- CODE	COMPONENT- TYPE	DEPTH- FROM (metres)	DEPTH- TO (metres)	OD (mm)	ID (mm)	INTERVAL	DETAIL
1		Hole	Hole	0.00	5.60	159			Rotary Air
1		Hole	Hole	5.60	27.40	114			Down Hole Hammer
1	1	Casing	P.V.C.	0.00	5.60	140	130		C: 0-5.6m; Seated on Bottom
1	1	Casing	PVC Class 18	1.00	8.40	60			
1	1	Casing	P.V.C.	26.40	27.40	60	50		Seated on Bottom
1	1	Opening	Screen	8.40	26.40	60			(Unknown) PVC Class 18; A: .5mm; Screwed
1		Annulus	Waterworn/Rounded	8.00	27.40				Graded; GS: 1-2mm

Water Bearing Zones [\(top\)](#)

no details

Drillers Log [\(top\)](#)

FROM	TO	THICKNESS	DESC	GEO-MATERIAL	COMMENT
0.00	3.00	3.00	BROWN CLAY		
3.00	5.00	2.00	GREY CLAY		
5.00	6.00	1.00	BROWN SHALE		
6.00	27.40	21.40	GREY SHALE		

Warning To Clients: This raw data has been supplied to the Department of Infrastructure, Planning and Natural Resources (DIPNR) by drillers, licensees and other sources. The DIPNR does not verify the accuracy of this data. The data is presented for use by you at your own risk. You should consider verifying this data before relying on it. Professional hydrogeological advice should be sought in interpreting and using this data.

Groundwater Works Summary

For information on the meaning of fields please see [Glossary](#)
Document Generated on Monday, August 16, 2010

[Print Report](#)

[Works Details](#) [Site Details](#) [Form A](#) [Licensed](#) [Construction](#) [Water Bearing Zones](#) [Drillers Log](#)

Work Requested -- GW104062

Works Details [\(top\)](#)

GROUNDWATER NUMBER	GW104062
LIC-NUM	10BL160233
AUTHORISED-PURPOSES	MONITORING BORE
INTENDED-PURPOSES	MONITORING BORE
WORK-TYPE	Bore
WORK-STATUS	(Unknown)
CONSTRUCTION-METHOD	Rotary
OWNER-TYPE	
COMMENCE-DATE	
COMPLETION-DATE	2001-08-23
FINAL-DEPTH (metres)	24.40
DRILLED-DEPTH (metres)	24.40
CONTRACTOR-NAME	
DRILLER-NAME	
PROPERTY	N/A
GWMA	-
GW-ZONE	-
STANDING-WATER-LEVEL	
SALINITY	2800.00
YIELD	

Site Details [\(top\)](#)

REGION	10 - SYDNEY SOUTH COAST
RIVER-BASIN	
AREA-DISTRICT	
CMA-MAP	
GRID-ZONE	
SCALE	
ELEVATION	
ELEVATION-SOURCE	
NORTHING	6255420.00
EASTING	302387.00
LATITUDE	33 49' 23"
LONGITUDE	150 51' 53"
GS-MAP	

AMG-ZONE 56
COORD-SOURCE
REMARK

Form-A [\(top\)](#)

COUNTY CUMBERLAND
PARISH MELVILLE
PORTION-LOT-DP LT 1 DP 206617

Licensed [\(top\)](#)

COUNTY CUMBERLAND
PARISH MELVILLE
PORTION-LOT-DP 1 206617

Construction [\(top\)](#)

Negative depths indicate Above Ground Level;H-Hole;P-Pipe;OD-Outside Diameter;
ID-Inside Diameter;C-Cemented;SL-Slot Length;A-Aperture;GS-Grain Size;Q-Quantity

HOLE- NO	PIPE- NO	COMPONENT- CODE	COMPONENT- TYPE	DEPTH- FROM (metres)	DEPTH- TO (metres)	OD (mm)	ID (mm)	INTERVAL	DETAIL
1		Hole	Hole	0.00	5.30	159			Rotary Air
1		Hole	Hole	5.30	24.40	114			Down Hole Hammer
1	1	Casing	P.V.C.	0.00	5.30	140	130		C: 0-5.3m; Seated on Bottom
1	1	Casing	PVC Class 18	1.00	5.40	60			Screwed
1	1	Casing	P.V.C.	23.40	24.40	60	50		Screwed; Seated on Bottom; Cap
1	1	Opening	Screen	5.40	23.40	60			(Unknown) PVC Class 18; A: .5mm; Screwed
1		Annulus	Waterworn/Rounded	4.40	24.40				Graded; GS: 1-2mm

Water Bearing Zones [\(top\)](#)

FROM- DEPTH (metres)	TO- DEPTH (metres)	THICKNESS (metres)	ROCK- CAT- DESC	S-W- L	D- D- L	YIELD	TEST- HOLE- DEPTH (metres)	DURATION	SALINITY
6.00	11.00	5.00		17.00	0.05	24.40		0.25	2800.00

Drillers Log [\(top\)](#)

FROM	TO	THICKNESS	DESC	GEO-MATERIAL	COMMENT
0.00	0.50	0.50	FILL		
0.50	4.00	3.50	BROWN CLAY		
4.00	6.00	2.00	BROWN SHALE		
6.00	11.00	5.00	GREY SHALE		
11.00	24.40	13.40	HARD SHALE		

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Groundwater Works Summary

For information on the meaning of fields please see [Glossary](#)

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Work Requested -- GW104061

Works Details [\(top\)](#)

GROUNDWATER NUMBER	GW104061
LIC-NUM	10BL160233
AUTHORISED-PURPOSES	MONITORING BORE
INTENDED-PURPOSES	MONITORING BORE
WORK-TYPE	Bore
WORK-STATUS	(Unknown)
CONSTRUCTION-METHOD	Rotary
OWNER-TYPE	
COMMENCE-DATE	
COMPLETION-DATE	2001-08-22
FINAL-DEPTH (metres)	24.50
DRILLED-DEPTH (metres)	24.50
CONTRACTOR-NAME	
DRILLER-NAME	
PROPERTY	N/A
GWMA	-
GW-ZONE	-
STANDING-WATER-LEVEL	
SALINITY	
YIELD	

Site Details [\(top\)](#)

REGION	10 - SYDNEY SOUTH COAST
RIVER-BASIN	
AREA-DISTRICT	
CMA-MAP	
GRID-ZONE	
SCALE	
ELEVATION	
ELEVATION-SOURCE	
NORTHING	6255566.00
EASTING	301820.00
LATITUDE	33 49' 18"
LONGITUDE	150 51' 31"
GS-MAP	

AMG-ZONE 56
 COORD-SOURCE
 REMARK

Form-A [\(top\)](#)

COUNTY CUMBERLAND
 PARISH MELVILLE
 PORTION-LOT-DP LT 1 DP 206617

Licensed [\(top\)](#)

COUNTY CUMBERLAND
 PARISH MELVILLE
 PORTION-LOT-DP 1 206617

Construction [\(top\)](#)

Negative depths indicate Above Ground Level;H-Hole;P-Pipe;OD-Outside Diameter;
 ID-Inside Diameter;C-Cemented;SL-Slot Length;A-Aperture;GS-Grain Size;Q-Quantity

HOLE- NO	PIPE- NO	COMPONENT- CODE	COMPONENT- TYPE	DEPTH- FROM (metres)	DEPTH- TO (metres)	OD (mm)	ID (mm)	INTERVAL	DETAIL
1		Hole	Hole	0.00	5.30	159			Rotary Air
1		Hole	Hole	5.30	24.50	114			Down Hole Hammer
1	1	Casing	PVC Class 18	-0.10	8.50	60			Screwed
1	1	Casing	P.V.C.	0.00	5.30	140	130		C: 0-5.3m; Seated on Bottom
1	1	Casing	P.V.C.	23.50	24.50	60	50		Screwed; Seated on Bottom
1	1	Opening	Screen	8.50	23.50	60			(Unknown) PVC Class 18; A: .5mm; Screwed
1		Annulus	Waterworn/Rounded	4.50	24.50				Graded; GS: 1-2mm

Water Bearing Zones [\(top\)](#)

no details

Drillers Log [\(top\)](#)

FROM	TO	THICKNESS	DESC	GEO-MATERIAL	COMMENT
0.00	0.50	0.50	FILL		
0.50	1.00	0.50	TOPSOIL		
1.00	6.00	5.00	WEATHERED SILTSTONE		

6.00 24.50 18.50 GREY SHALE

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Groundwater Works Summary

For information on the meaning of fields please see [Glossary](#)
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Work Requested -- GW104060

Works Details [\(top\)](#)

GROUNDWATER NUMBER	GW104060
LIC-NUM	10BL160233
AUTHORISED-PURPOSES	MONITORING BORE
INTENDED-PURPOSES	MONITORING BORE
WORK-TYPE	Bore
WORK-STATUS	(Unknown)
CONSTRUCTION-METHOD	Rotary
OWNER-TYPE	
COMMENCE-DATE	
COMPLETION-DATE	2001-08-22
FINAL-DEPTH (metres)	24.60
DRILLED-DEPTH (metres)	24.60
CONTRACTOR-NAME	
DRILLER-NAME	
PROPERTY	N/A
GWMA	-
GW-ZONE	-
STANDING-WATER-LEVEL	
SALINITY	
YIELD	

Site Details [\(top\)](#)

REGION	10 - SYDNEY SOUTH COAST
RIVER-BASIN	
AREA-DISTRICT	
CMA-MAP	
GRID-ZONE	
SCALE	
ELEVATION	
ELEVATION-SOURCE	
NORTHING	6255572.00
EASTING	301538.00
LATITUDE	33 49' 17"
LONGITUDE	150 51' 20"
GS-MAP	

AMG-ZONE 56
 COORD-SOURCE
 REMARK

Form-A [\(top\)](#)

COUNTY CUMBERLAND
 PARISH MELVILLE
 PORTION-LOT-DP LT 1 DP 206617

Licensed [\(top\)](#)

COUNTY CUMBERLAND
 PARISH MELVILLE
 PORTION-LOT-DP 1 206617

Construction [\(top\)](#)

Negative depths indicate Above Ground Level;H-Hole;P-Pipe;OD-Outside Diameter;
 ID-Inside Diameter;C-Cemented;SL-Slot Length;A-Aperture;GS-Grain Size;Q-Quantity

HOLE- NO	PIPE- NO	COMPONENT- CODE	COMPONENT- TYPE	DEPTH- FROM (metres)	DEPTH- TO (metres)	OD (mm)	ID (mm)	INTERVAL	DETAIL
1		Hole	Hole	0.00	5.40	159			Rotary Air
1		Hole	Hole	5.40	24.60	114			Down Hole Hammer
1	1	Casing	P.V.C.	0.00	5.40	140	130		C: 0-5.4m; Screwed; Seated on Bottom
1	1	Casing	PVC Class 18	1.00	8.60	60			Screwed
1	1	Casing	P.V.C.	23.60	24.60	60	50		Screwed; Seated on Bottom
1	1	Opening	Screen	8.60	23.60	60			(Unknown) PVC Class 18; A: .5mm; Screwed
1		Annulus	Waterworn/Rounded	4.60	24.60				Graded; GS: 1- 2mm; Q: 160m ³

Water Bearing Zones [\(top\)](#)

no details

Drillers Log [\(top\)](#)

FROM	TO	THICKNESS	DESC	GEO-MATERIAL	COMMENT
0.00	0.30	0.30	TOPSOIL		

0.30	3.00	2.70	BROWN CLAY
3.00	5.00	2.00	BROWN SHALE
5.00	24.60	19.60	GREY SHALE

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Groundwater Works Summary

For information on the meaning of fields please see [Glossary](#)
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Work Requested -- GW100290

Works Details [\(top\)](#)

GROUNDWATER NUMBER	GW100290
LIC-NUM	10BL154250
AUTHORISED-PURPOSES	MONITORING BORE
INTENDED-PURPOSES	MONITORING BORE
WORK-TYPE	Bore
WORK-STATUS	(Unknown)
CONSTRUCTION-METHOD	Rotary
OWNER-TYPE	
COMMENCE-DATE	
COMPLETION-DATE	1994-10-21
FINAL-DEPTH (metres)	80.00
DRILLED-DEPTH (metres)	80.00
CONTRACTOR-NAME	
DRILLER-NAME	
PROPERTY	N/A
GWMA	-
GW-ZONE	-
STANDING-WATER-LEVEL	
SALINITY	1970.00
YIELD	

Site Details [\(top\)](#)

REGION	10 - SYDNEY SOUTH COAST
RIVER-BASIN	
AREA-DISTRICT	
CMA-MAP	
GRID-ZONE	
SCALE	
ELEVATION	
ELEVATION-SOURCE	
NORTHING	6254770.00
EASTING	297937.00
LATITUDE	33 49' 41"
LONGITUDE	150 48' 59"
GS-MAP	

AMG-ZONE 56
 COORD-SOURCE
 REMARK

Form-A [\(top\)](#)

COUNTY CUMBERLAND
 PARISH MELVILLE
 PORTION-LOT-DP A/392643

Licensed [\(top\)](#)

COUNTY CUMBERLAND
 PARISH MELVILLE
 PORTION-LOT-DP 77

Construction [\(top\)](#)

Negative depths indicate Above Ground Level;H-Hole;P-Pipe;OD-Outside Diameter;
 ID-Inside Diameter;C-Cemented;SL-Slot Length;A-Aperture;GS-Grain Size;Q-Quantity

HOLE- NO	PIPE- NO	COMPONENT- CODE	COMPONENT- TYPE	DEPTH- FROM (metres)	DEPTH- TO (metres)	OD (mm)	ID (mm)	INTERVAL	DETAIL
1		Hole	Hole	0.00	80.00	102			Rotary Air
1	1	Casing	P.V.C.	0.00	80.00	50			C: 0-6m; Screwed (Unknown)
1	1	Opening	Screen	23.40	26.30	50		1	PVC; A: .4mm; Screwed (Unknown)
1	1	Opening	Screen	32.20	35.20	50		2	PVC; A: .4mm; Screwed (Unknown)
1	1	Opening	Screen	41.10	44.00	50		3	PVC; A: .4mm; Screwed (Unknown)
1	1	Opening	Screen	49.90	52.90	50		4	PVC; A: .4mm; Screwed (Unknown)
1	1	Opening	Screen	58.80	61.70	50		5	PVC; A: .4mm; Screwed (Unknown)
1	1	Opening	Screen	67.60	70.60	50		6	PVC; A: .4mm; Screwed (Unknown)
1	1	Opening	Screen	76.50	79.40	50		7	PVC; A: .4mm; Screwed

1	Annulus	Waterworn/Rounded	6.00	80.00	Graded; GS: 2mm; Q: .45m ³
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Water Bearing Zones [\(top\)](#)

no details

Drillers Log [\(top\)](#)

FROM	TO	THICKNESS	DESC	GEO-MATERIAL	COMMENT
0.00	1.00	1.00	FILL DOLERITE GRAVEL		
1.00	2.00	1.00	CLAY/ BLUE/ GREY		
2.00	4.00	2.00	SANDSTONE/ BROWN / YELLOW		
4.00	10.00	6.00	INTERBEDDED SILTSTONE / SANDSTONE		
10.00	12.00	2.00	SILTSTONE / DARK GREY		
12.00	15.00	3.00	SILTSTONE / SHALE & CLAY INTERBEDS		
15.00	17.00	2.00	SILTSTONE AND SHALE		
17.00	23.00	6.00	SILTSTONE MASSIVE		
23.00	53.00	30.00	SILTSTONE & SHALE INTERBEDDED		
53.00	54.00	1.00	SANDSTONE & SHALE INTERBEDDED		
54.00	57.00	3.00	SHALE & SILTSTONE INTERBEDDED		
57.00	61.00	4.00	SANDSTONE, SHALE, SILTSTONE INTERBEDDED		
61.00	63.00	2.00	SHALE, CARBONACEOUS		
63.00	64.00	1.00	SHALE, SILTSTONE, SANDSTONE: INTERBEDDED		
64.00	65.00	1.00	SHALE: CARBONACEOUS		
65.00	68.00	3.00	SILTSTONE, SHALE: INTERBEDDED		
68.00	69.00	1.00	SHALE: CARBONACEOUS		
69.00	70.00	1.00	SHALE AND SILTSTONE :INTERBEDDED		
70.00	71.00	1.00	SHALE, SILTSTONE , SANDSTONE INTERBEDDED		
71.00	75.00	4.00	SHALE & SILTSTONE INTERBEDDED		
75.00	76.00	1.00	SHALE, CLAY, SILTSTONE INTERBEDDED		
76.00	80.00	4.00	SHALE, SILTSTONE: INTERBEDDED		

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Groundwater Works Summary

For information on the meaning of fields please see [Glossary](#)
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Work Requested -- GW110314

Works Details [\(top\)](#)

GROUNDWATER NUMBER	GW110314
LIC-NUM	10BL602119
AUTHORISED-PURPOSES	MONITORING BORE
INTENDED-PURPOSES	MONITORING BORE
WORK-TYPE	Well
WORK-STATUS	
CONSTRUCTION-METHOD	Auger - Solid Flight
OWNER-TYPE	Private
COMMENCE-DATE	
COMPLETION-DATE	2009-07-08
FINAL-DEPTH (metres)	151.00
DRILLED-DEPTH (metres)	151.00
CONTRACTOR-NAME	
DRILLER-NAME	
PROPERTY	A C N 114 843 453
GWMA	-
GW-ZONE	-
STANDING-WATER-LEVEL	40.30
SALINITY	
YIELD	0.10

Site Details [\(top\)](#)

REGION	10 - SYDNEY SOUTH COAST
RIVER-BASIN	
AREA-DISTRICT	
CMA-MAP	
GRID-ZONE	
SCALE	
ELEVATION	
ELEVATION-SOURCE	
NORTHING	6258058.00
EASTING	298549.00
LATITUDE	33 47' 55"
LONGITUDE	150 49' 26"
GS-MAP	

AMG-ZONE 56
 COORD-SOURCE
 REMARK

Form-A [\(top\)](#)

COUNTY COOK
 PARISH LINDEN
 PORTION-LOT-DP 2 262213

Licensed [\(top\)](#)

COUNTY CUMBERLAND
 PARISH MELVILLE
 PORTION-LOT-DP 1 400697

Construction [\(top\)](#)

Negative depths indicate Above Ground Level;H-Hole;P-Pipe;OD-Outside Diameter;
 ID-Inside Diameter;C-Cemented;SL-Slot Length;A-Aperture;GS-Grain Size;Q-Quantity

HOLE- NO	PIPE- NO	COMPONENT- CODE	COMPONENT- TYPE	DEPTH- FROM (metres)	DEPTH- TO (metres)	OD (mm)	ID (mm)	INTERVAL	DETAIL
1		Hole	Hole	0.00	3.00	150			Auger - Solid Flight
1		Hole	Hole	3.00	151.00	150			Down Hole Hammer
1	1	Casing	PVC Class 18	0.00	136.00	50			Screwed; Seated on Bottom; End cap PVC Class 9; Casing - Machine Slotted; SL: 45mm; A: 4mm; Screwed
1	1	Opening	Slots - Horizontal	136.00	151.00	50			
1		Annulus	Bentonite/Grout	120.50	122.70				
1		Annulus	Waterworn/Rounded	122.70	151.00				Graded; GS: 2- 3mm

Water Bearing Zones [\(top\)](#)

FROM- DEPTH (metres)	TO- DEPTH (metres)	THICKNESS (metres)	ROCK- CAT- DESC	S-W- L	D- D- L	YIELD	TEST- HOLE- DEPTH (metres)	DURATION	SALINITY
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122.70 151.00 28.30 40.30 0.10 2.00

Drillers Log [\(top\)](#)

FROM	TO	THICKNESS	DESC	GEO-MATERIAL	COMMENT
0.00	3.00	3.00	SHALE FILL		
3.00	8.00	5.00	WEATHERED SHALE,	LIGHT BROWN	
8.00	96.00	88.00	SHALE,	LIGHT GREY	
96.00	151.00	55.00	SHALE,	DARK GREY	

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