

Report on Preliminary Site Investigation for Contamination

> Proposed Gosford Regional Library 123A-125B Donnison Street, Gosford

> > Prepared for Central Coast Council

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Report on Preliminary Site Investigation for Contamination Proposed Gosford Regional Library 123A-125B Donnison Street, Gosford

1. Introduction

This report details the methodology and results of a *Preliminary Site Investigation for Contamination* (PSI) undertaken at 123A-125B Donnison Street, Gosford. The investigation was commissioned by Matthew Gallagher of Central Coast Council (CCC) and was undertaken with reference to Douglas Partners Pty Ltd (DP) proposal CCT180066.P.002 dated 15 March 2018.

It is understood that the proposed development will comprise a multi-storey commercial building with two basement levels for car parking. Two main development options are currently being considered and these are further discussed in Section 1.3.

This PSI was undertaken to supplement DP's *Geotechnical Investigation* of the site (DP, 2018 – Ref 1), and provides an initial evaluation of the site contamination conditions and also comments on the provisional waste classification of soil/rock material that may need to be excavated and disposed of off-site as part of the proposed development.

The PSI was undertaken with reference to the staged investigation approach outlined in *State Environmental Planning Policy No. 55 – Remediation of Land* (SEPP 55 – Ref 2) and The *National Environment Protection (Assessment of Site Contamination) Measure* (NEPM, 1999), amended 2013 (NEPC – Ref 3).

1.1 Purpose of Assessment

The objectives of the PSI were to:

- Identify potential sources of contamination due to past and present activities/practices;
- Identify the nature and possible extent of contamination at the site through visual inspection and soil screening, sampling and analysis;
- Assess the suitability of the site for the proposed use with respect to contamination issues;
- Provide advice on further investigation or remediation works (if required); and
- Provide preliminary *in situ* waste classification of subsurface materials that may need to be excavated and disposed of off-site as part of the proposed development.



1.2 Site Identification

A summary of the site identification details are presented in Table 1.

Identification	Description
Current Land Title	Lot 11 in Deposited Plan 746819 (123B-125A Donnison Street)
	Lot 100 in Deposited Plan 711850 (123A Donnison Street)
Site Area Approximately 3,670 m ²	
Site Coordinates	North-east corner: 345964mE 6300122mS
	South-east corner: 345955mE 6300069mS
	North-west corner: 345901mE 6300132mS
	South-west corner: 345894mE 6300074mS
Zoning	Current zoning as B3 – Commercial Core
Parish / County / Local Council Area Gosford / Northumberland / Central Coast Council	

Figure 1, below, is a plan of the local area and shows the site in relation to various local features.



Figure 1: Location of the site within Wadalba (Source: SIX Maps)





Figure 2: Location of the site (Sourced: Nearmap, dated 12 April 2018)

1.3 Proposed Development

At the time of the field work investigation, it was understood that CCC were considering two concept designs for progression to detailed design:

- **Option 1:** Proposed library occupying part of the site (Lot 100 in DP 711850). The development would comprise a three-storey building (with ground floor mezzanine), podium roof, and two levels of basement car parking; and
- **Option 2:** Proposed library, commercial and office space occupying both Lot 100 in DP 711850 and Lot 11 in DP 746819. The development would comprise a three-storey building (with ground floor mezzanine), with a ten-storey central tower, and two levels of basement car parking.

This report assesses the whole assessment area (i.e. both Lots 11 and 100).

Concept drawings for the project indicate that the finished floor level of the lower basement level will be at approximately RL 3.2 AHD for Option 1 and RL 2.0 AHD for Option 2. The footprint of the proposed basement option will extend right up to the boundaries of the developed area for both options.

Based on the concept plans and survey plans provided to DP, excavation depths for Option 1 are expected to be approximately 6.5 m in the north-west corner of the site and up to 12.5 m in the south-east corner. Excavation depths for Option 2 are expected to be approximately 7.5 m in the north-west corner of the site and up to 15 m in the south-east corner.

Ground floor plans and cross sections of Option 1 and Option 2 are presented in Figure 3 and Figure 4, respectively.





Figure 3: Option 1 - Plan of the proposed development (left), cross section (north-south) of the proposed development (right) (Adapted from drawings provided by Central Coast Council, ref. A100 & A107, dated 29/11/17)



Figure 4: Option 2 - Plan of the proposed development (left), cross section (north-south) of the proposed development (right) (Adapted from drawings provided by Central Coast Council, ref. A100 & A109, dated 29/11/17)

2. Scope of Work

The scope of work comprised:

- Collation and interpretation of data from the following sources to assess the environmental setting and update the site historical information:
 - o Published data, including topographical, geological and hydrogeological maps;
 - o Registered groundwater bore licence search;
 - o NSW EPA Contaminated Land and Protection of Environment Operations databases;
 - o Central Coast Council (CCC) Property Enquiry Information;
 - o SafeWork NSW Storage of Hazardous Chemicals database;



- o Historical Title Deed search;
- o Historical aerial photographs; and
- o Anecdotal site historical information.
- Walkover to update the status of the site;
- Investigations comprising drilling of six test bores (Bores 1 to 6) primarily for geotechnical purposes. It should be noted that investigation locations were limited to accessible external areas, and Bore 3 was drilled within the Donnison Street road reserve (beyond the site boundary). The limited intrusive investigations comprised screening and selective testing of samples for the contaminants of concern identified by the site historical review and walkover; and
- Specifics of the work completed are further detailed in the Sections 7 and 10 of the report.

3. Physical Setting

DP conducted a desktop review of available information regarding the physical setting of the site. The results of that review are summarised in the following sections.

3.1 Topography and Hydrology

Review of the local topographic mapping and site observations indicated that surface levels range from approximately 16 m AHD in the south-east corner of the site to about 7 m AHD in the north-west corner of the site. Topographically the site slopes down towards the north-west, however due to existing developments on the site, the current ground surface levels have been altered by cut and fill processes.

Surface water would generally be expected to drain into the local stormwater system then then flow west and then south to eventually discharge into Brisbane Water (Broad Water) located approximately 600 m to the south of the site.

3.2 Adjacent Site Uses

Surrounding land uses include the following:

- North (down slope) Gosford Library and Kibble Park;
- East (across and up slope) Uniting Church, administration building and car parking;
- South (up slope) Commercial property (car parking) and Henry Parry Drive; and
- West (down slope) Commercial property (car parking).

The potential for contamination from existing off-site land uses or activities to have impacted the site is considered to be relatively low.

A walkover of the adjacent sites was not undertaken as part of this PSI.



3.3 Regional Geology and Soil Landscape

The local geological mapping indicates that the site is underlain by the Terrigal Formation belonging to the Gosford Subgroup of the Triassic Aged Narrabeen Group. The Terrigal Formation typically comprises interbedded laminite, shale, fine to coarse grained sandstone, and claystone with residual soils derived from the weathering of these rocks. Quaternary Alluvium is mapped approximately 20 m north-west of the site and typically comprises silts, sands, gravels and clays.

Reference to the local soil landscape mapping indicates that the site is generally underlain by Erina erosional soil landscape (identified as er in Figure 5). Notwithstanding, the northern portion of the site is mapped as being underlain by disturbed terrain (identified as xx in Figure 5).

Local knowledge and the site walkover observations indicated that subsurface conditions would more likely be consistent with Erina soil landscape with residual clayey soils underlain by Terrigal Formation sandstone or siltstone.



Figure 5: Site Soil Landscape Mapping (Source: Microsoft Virtual Earth with Gosford-Lake Macquarie 1:100,000 Soil Landscapes Sheet overlay)



3.4 Acid Sulfate Soils

The local acid sulfate risk mapping indicates that the site is located in an area mapped as having no known occurrence of acid sulfate soils. It was noted, however, that the soil landscape mapping identified that disturbed terrain in the northern portion of the site. Disturbed terrain in the local area is known to have a risk of being affected by acid sulfate soils.

An acid sulfate soil assessment was completed as part of the geotechnical investigation (Ref 1); with the assessment concluding that acid sulfate soils are not present within the depth of investigation. Therefore, excavations for the proposed development could be undertaken without reference to an acid sulfate soil management plan.

3.5 Groundwater

Given the site's topography and geology, it is considered unlikely that a permanent groundwater table is present at relatively shallow depth (i.e. less than 2 m depth). Intermittent seepage may however be encountered at localised permeability boundaries such as at the interface of filling and natural soils, sand and clay soils or at the weathered rock interface following periods of wet-weather. It should be noted that groundwater levels are potentially transient and can be affected by factors such as soil permeability and recent weather conditions.

Figure 6 is a street map of the local area and shows the site in relation to the local registered groundwater bores.



Figure 6: Registered Groundwater Bores (Source: Microsoft Virtual Earth with NSW Office of Water Registered Groundwater Bore location overlay)



A search for registered groundwater bores in the WaterNSW website, dated July 2018, indicated that there are two registered groundwater bores within a 500 m radius of the site. The information available from the reports suggests that the bores were installed for irrigation purposes; however, only one of the bore licenses was active. A copy of the search results is provided in Appendix C. Given the site topography and subsurface conditions, it is considered unlikely that any potential groundwater contamination from the site would impact the any registered groundwater bores.

4. Site History

4.1 Regulatory Notices Search

The NSW EPA Register of Contaminated Land was searched for any Regulatory Notices that may be current on the site issued under the *Contaminated Land Management (CLM) Act* 1997 and Section 308 of the *Protection of the Environment Operations (POEO) Act* 1997. The information obtained at the time of preparing this report indicated that no current or previous Licences, Notices or Orders were applicable for the site.

4.2 Information from Council Enquiries

As part of this investigation an enquiry was made through Central Coast Council's (CCC) web site. The information obtained relates to applications/approvals dating back to 1981 for Lot 100 and 1984 for Lot 11. The results of the enquiry indicate that several applications have been submitted for the lots, generally indicating several stages of commercial development (initially possibly shops then offices); however, Lot 100 had a past use listed as furniture and building material shop in 1981.

The information obtained from Council's Geocortex database (dated 21 May 2018) indicated that neither of the lots is identified as contaminated land.

A copy of the information obtained is provided in Appendix B.

4.3 WorkCover Dangerous Goods Licences

As part of the PSI, DP completed a search of the Stored Chemical Information Database (SCID) held by SafeWork NSW (formerly WorkCover NSW). SafeWork NSW reported that they did not locate any records pertaining to the site.

A copy of the application search result is provided in Appendix B.



4.4 Historical Title Deed Information

A historical title deeds search was carried out by InfoTrack Pty Ltd, the results of which are provided in Appendix B. Numerous ownership records were received; however, the significant ownership records (from a site contamination standpoint) are summarised below:

Lot 100

- Part of the lot was owned by Thomas Robert Hill (Orchardist) from 1920 to 1943;
- Part of the lot was owned by Robert William Boddenberg (Tyre Retreader and Garage Proprietor) from 1946 to 1965;
- Part of the lot was owned by Advanx (Gosford) Motor Service Pty Ltd (Motor Vehicle Servicing) from 1956 to 1965;
- The whole lot was owned by Westfield Development Corporation and then other companies and collective group of individual (no details of usage available) from circa 1965 to 2000; and
- The whole lot was then acquired by Council in 2000 (current owners).

Lot 11

- Part of the lot was owned by William White (timber dealer) from 1894 to 1966;
- Part of the lot was owned by Thomas Robert Hill (Orchardist) from 1920 to 1956;
- Part of the lot was owned by Robert William Boddenberg (Garage Proprietor) from 1953 to 1965;
- Part of the lot was owned by Advanx (Gosford) Motor Service Pty Ltd (Motor Vehicle Servicing) from 1956 to 1965;
- The majority of the lot was owned by Westfield Development Corporation and then other companies and individuals (no details of usage available) from circa 1965 to 2017 (suspected commercial usage); and
- The whole lot was then acquired by Employment and Training Australia Incorporated (current owners).

Several leases or easements were identified by the search; however, none were considered to be significant to the contamination status of the site.

Overall, the search indicated that the site may have originally had an orchard use, prior to being at least in-part developed for a mechanics workshop (circa 1946), then possibly redeveloped for commercial uses (circa 1965). Both lots currently have commercial (office) uses.

4.5 Historical Aerial Photographs

Historical aerial photographs were reviewed dating back to the earliest available record (1954) and approximately every 10 to 20 years thereafter to assess any major changes to the site and surrounding areas during this period. The following historical aerial photographs were reviewed:

• Photograph – Gosford Run 11G, dated 17.05.54;



- Photograph Gosford Lake Macquarie NSW Run 10, dated 08.03.66;
- Photograph Gosford NSW Run 7, dated 28.05.75;
- Photograph Gosford NSW Run 12, dated 12.09.94;
- Photograph Gosford NSW Run 12, dated 16.03.02;
- Photograph Google Earth Image, dated 02.12.2010; and
- Photograph Google Earth Image, dated 11.08.2016.

Extracts of the 1954, 1966, 1975 and 1994 historical aerial photographs are included as Drawing 2 in Appendix B. Table 2 summarises the observations made during the aerial photograph review.



Table 2: Aerial Photograph Review

Year	Site	Surrounding Land Use
1954	Lot 11 appears to be occupied by a number of small buildings generally in the north and east portions, whilst the south-west portion appears to be possibly grass surfaced with a large tree. Lot 100 appears to be occupied by two or three larger buildings.	The local area appears to comprise possibly a mix of commercial properties (east and north), residential properties (west) and warehouses (south). No intensive agricultural uses were identified on adjacent properties.
1966	Lot 100 appears to be occupied by one large building. Lot 11 appears to be occupied by possibly smaller buildings (or a construction site) and a vehicle access track/road. The photograph quality is poor.	This photograph is of poor quality which limits the comments that can be made. Surrounding areas appear to be in-part developed for primarily commercial uses (based on building sizes).
1975	Lot 100 appears to be occupied by one large building. Lot 11 appears to be occupied by possibly smaller buildings (or a construction site or car parking).	No significant changes were observed, other than an overall increase in development in the local area.
1994	Lot 100 appears to be occupied by one large building, although the dimensions may have slightly changed in association with the construction of a new building in the north-east portion of Lot 11. The southern portion of Lot 11 appears to be a car parking area. The general building layout now appears to be consistent with that observed during the site walkover.	Surrounding areas appear to have mixed commercial and community uses consistent with that observed during the walkover.
2002	No significant changes were observed.	No significant changes were observed.
2010	No significant changes were observed.	No significant changes were observed.
2016	No significant changes were observed.	No significant changes were observed.



4.6 Other Historical Information

As part of the site history review a search of the National Library of Australia (www.trove.nla.gov.au) was completed. A single photograph of the site was retrieved dated 1967. The photograph identifies a Coles New World Supermarket on Lot 100 and a construction site (possibly a commercial (retail) building) on Lot 11. Figure 7 is a copy of the photograph.



Figure 7: Photograph of the site (dated 3 September 1967), taken from the northern side of Donnison Street facing south-east. The existing Uniting Church is visible in the background (left). (Source: www.trove.nla.gov.au)

5. Site Walkover

The following is a summary of site features observed during the site walkover undertaken by a Senior Environmental Engineer as part of the PSI. The walkover was undertaken on 21 March 2018, immediately following the completion of the preliminary intrusive investigations primarily for geotechnical purposes.

At the time of the PSI, the site comprised existing two-level commercial buildings occupying the entirety of Lot 100 and the northern section of Lot 11. The southern portion of Lot 11 contained private car parking spaces.

Photographs of the site are shown in Figures 8 to 11.





Figure 8: Photograph of the northern side of the site, taken from the northern side of Donnison Street, looking south-west



Figure 9: Photograph of the southern side of the site, taken from the south-eastern corner of the site, looking west







Figure 10: Photograph of the southern side of the site, taken from the south-western corner of the site, looking east

The following tenants were identified to be occupying the commercial (office) buildings at the time of the walkover:

- ET Australia Training College (Lots 11 and 100);
- Community Corrections Gosford Office (Lot 11);
- Indivia Australia (accountants) (Lot 11);
- Apprenticeship Centre (Lot 100);
- Regional Youth Support Services (Lot 100);
- Step Towards Employment Program (Lot 100);
- After Care Resource Centre (Lot 100);
- Options Disability Support (Lot 100); and
- Coastal Accommodation Service Supporting Youth (Lot 100).

In summary, the existing tenants appeared to utilise the site for commercial (office, educational and community services) purposes, and these existing uses are considered not to have any direct significant impact on the site's contamination status. The private internal areas of the buildings were not accessed at the time of the walkover.

The walkover identified that the site was almost entirely covered with either the building footprints or sealed pavements (asphalt, pavers or concrete). Furthermore, based on ground levels in surrounding areas and existing developments on the site; the existing ground surface levels are suspected to have been altered by cut and fill processes.

6. Preliminary Conceptual Site Model

A conceptual site model (CSM) is a representation of site-related information regarding contamination sources, receptors and exposure pathways between those sources and receptors. The CSM provides the framework for identifying how the site became contaminated and how potential receptors may be exposed to contamination either in the present or the future i.e. it enables an assessment of the potential source – pathway – receptor linkages (complete pathways).

6.1 Potential Contamination Sources and Contaminants of Concern

Table 3 summarises the potential sources of contamination and associated contaminants of concern that have been identified at the site.

Potential Contamination Source/Activity	Description of Potential Contaminating Activity	Primary Potential Contaminants of Concern
Importation and/or placement of contaminated filling	Importation of filling is possible based on site observations and past site development.	Various - Common contaminants associated with imported filling are metals (As, Cd, Cr, Cu, Pb, Hg, Ni and Zn), TRH, BTEX, PAH, PCB, OCP and asbestos
Construction and demolition of buildings and structures	Historical review has identified the presence of buildings and structures at the site. The review has also identified possible past reconstruction/renovation/demolition of structures.	Metals, OCP and asbestos
Use/storage of oils/chemicals	Historical review has identified the possible past uses/activities including orchards, timber dealer, tyre retreader, garage proprietor and motor vehicle servicing.	Metals, TRH, BTEX, PAH, phenols, VOC and OCP

Table 3: Potential Contamination Sources and Contaminants of Concern

Notes:

As = arsenic, Cd = cadmium, Cr = chromium, Cu = copper, Pb = lead, Hg = mercury, Ni = nickel and Zn = Zinc TRH = total recoverable hydrocarbons, BTEX = benzene, toluene, ethylbenzene and xylene, PAH = polycyclic aromatic hydrocarbons, PCB = polychlorinated biphenyls, VOC = volatile organic compounds, OCP = organochlorine pesticides



The potential contamination sources (S) on and adjacent to the site are therefore as follows:

- S1 Contaminated filling;
- S2 Construction and demolition of buildings and structures; and
- S3 Use and storage of oil/chemicals.

6.2 Potential Receptors of Concern

The potential receptors of contamination sourced from the site are considered to be:

- R1 Site users (current and future commercial use);
- R2 Land users in adjacent areas (generally commercial and recreational uses);
- R3 Terrestrial ecology;
- R4 Surface water (Brisbane Water);
- R5 Groundwater; and
- R6 Property.

6.3 Potential Pathways

The pathways by which the potential sources of contamination could reach potential receptors are described below:

- P1 Ingestion and dermal contact;
- P2 Inhalation of dust and/or vapours;
- P3 Leaching of contaminants into groundwater and lateral migration of groundwater;
- P4 Surface water runoff; and
- P5 Direct contact with terrestrial ecology / property.

6.4 Conceptual Site Model

A 'source–pathway–receptor' approach has been used to assess the potential risks of harm being caused to human, water or environmental receptors from contamination sources on or in the vicinity of the site, via exposure pathways. The possible pathways between the above sources and receptors are described in Table 4.



Source	Pathway	Receptor
S1 - Contaminated filling.	P1 - Ingestion and dermal contact	R1 - Site users (future)
S2 - Construction and demolition of	P2 - Inhalation of dust and/or vapours	R1 - Site users R2 - Adjacent site users
buildings and structures. S3 - Use and storage of oil/chemicals.	P3 - Leaching of contaminants into groundwater and lateral migration of groundwater	R4 - Surface water (Brisbane Water) R5 - Groundwater
	P4 - Surface water runoff	R4 - Surface water (Brisbane Water)
	P5 – Contact with terrestrial ecology / property	R3 - Terrestrial ecology R6 - Property

Table 4: Conceptual Site Model

An intrusive investigation is required to assess for possible contamination. Given the preliminary stage development planning and limited site access, the client elected to limit investigations to screening and testing of site soils from the geotechnical investigation locations. This scope provides an initial evaluation of the site contamination conditions and would inform a detailed site investigation (if undertaken).

7. Sampling and Analysis Plan and Methodology

7.1 Data Quality Objectives

This PSI has been devised in general accordance with the seven step data quality objective (DQO) process which is provided in Appendix B, Schedule B2 of NEPC (2013). The DQO process is outlined as follows:

- State the problem;
- Identify the decision;
- Identify inputs into the decision;
- Define the boundary of the assessment;
- Develop a decision rule;
- Specify acceptable limits on decision errors; and
- Optimise the design for obtaining data.

Referenced sections for the respective DQOs listed above are provided in Appendix G.



7.2 Data Quality Indicators

The performance of the assessment in achieving the DQO was assessed through the application of data quality indicators (DQI) as defined by:

Precision:	A quantitative measure of the variability (reproducibility) of data;							
Accuracy:	A quantitative measure of the closeness of reported data to the "true" value;							
Representativeness:	The confidence (expressed qualitatively) that data are representative of each media present on the site;							
Completeness:	A measure of the useable data from a data collection activity; and							
Comparability:	The confidence (expressed qualitatively) that data can be considered equivalent for each sampling and analytical event.							

Further comments on the DQIs are presented in Appendix G.

7.3 Summary of Field Methodologies

Field investigations were carried out by DP's Mr Matthew Harrison (Engineering Geologist), on 19 and 20 March 2018. Investigations comprised the following activities:

- Drilling of boreholes (Bores 1 to 6) using a track mounted drilling rig equipped with continuous flight augers for drilling in soils and diamond rock coring equipment for coring in rock. The bores were drilled to depths of between approximately 2.0 m and 14.5 m;
- Collection of soil samples from each borehole at the surface or immediately underlying surface pavements and then approximately 0.5 – 1.0 m depth intervals or changes in soil strata / signs of potential contamination; and
- Collection of additional soil samples for quality control purposes.

7.4 Soil Sampling

7.4.1 Sampling Rationale

Primarily a broad-grid spaced sampling rationale was completed across the site with sampling locations limited to accessible external areas that were clear of in-ground services. Bore 3 was drilled within the Donnison Street road reserve (beyond the site boundary) and therefore samples from this location were not submitted for laboratory testing.

The number of sampling points undertaken for the PSI was less than the recommended number of sampling points required for site characterisation as required by *Contaminated Sites: Sampling Design Guidelines* (NSW EPA 1995 – Ref 4). This scope provides an initial evaluation of the site contamination conditions and would inform a more detailed site investigation (if undertaken).

Filling and/or near surface soils were typically targeted for sampling and laboratory testing. The approximate borehole locations are shown on Drawing 1, Appendix B.



7.4.2 Soil Methodology and Handling

All soil sampling was performed with reference to industry standard operating procedures. All sampling data was recorded on borehole log sheets. The general sampling procedure comprised the following:

- Collecting soil samples directly from the auger flight or split-spoon sampling tube using disposable gloves or stainless steel sampling equipment. Care was taken to remove any extraneous material deposited on the auger. Identification of the sampling method for each sample was recorded on the individual borehole logs, Appendix E;
- Changing of disposable gloves between each sampling event to prevent cross contamination;
- Decontaminating all sampling equipment using a 3% solution of phosphate free detergent (liquinox) and tap water. Sampling equipment was given a final rinse with deionised water prior to collecting each sample;
- Transferring samples into laboratory-prepared glass jars and capping immediately;
- Field screening of replicate soil samples collected in sealed plastic bags for Total Photoionisable Compounds (TOPIC) using a calibrated PID;
- Labelling sample containers with individual and unique identification, including project number, sample location and sample depth;
- Placing the glass jars into a cooled, insulated and sealed containers while on site;
- Using chain of custody (COC) documentation enabling sample tracking and custody to be crosschecked at any point in the transfer of samples from the field to the laboratory; and
- Dispatching samples to Envirolab Services Pty Ltd (Envirolab), accredited by NATA, was employed to conduct the sample analysis. The laboratory is required to carry out in-house QA/QC procedures.

7.5 Rationale for Selection of Laboratory Analyses

A total of 38 primary soil samples were collected during field investigations, nine samples were sent to Envirolab Services, 12 Ashley Street, Chatswood, NSW. In addition, a single blind replicate soil samples (QA1) and a rinsate blank (RB1) were analysed by Envirolab for QA purposes. Envirolab is accredited by NATA for the tests undertaken.

Selected soil samples were analysed for a range of contaminants of potential concern, as described in Section 6. The rationale for selection of samples for laboratory testing was informed by the CSM and was generally based on site observations (e.g. presence of anthropogenic inclusions, evidence of disturbance, etc.), PID readings and their location within the subsoil strata (i.e. filling or natural). For this site, filling and/or near surface soils were typically targeted for laboratory testing.



8. Quality Assurance and Quality Control

Quality assurance (QA) and quality control (QC) measures were implemented throughout the investigation. This was achieved by defining the data quality objectives (DQOs – Section 7.1) for the project based on the CSM prior to the commencement of field investigations. All QA/QC information was then evaluated against the DQOs and is summarised in Appendix G.

9. Site Assessment Criteria

9.1 Soil Contamination

The Site Assessment Criteria (SAC) applied in the current investigation are informed by the CSM that has provisionally identified human and environmental receptors to potential contamination on the site (refer to Section 6). It understood that development plans are at a preliminary conceptual stage and may change from what is currently proposed. Analytical results are assessed (as a Tier 1 assessment) against the SAC comprising primarily the investigation and screening levels of Schedule B1, *National Environment Protection (Assessment of Site Contamination) Measure* 1999, as amended 2013 (NEPC 2013 – Ref 2).

The investigation and screening levels adopted in the current assessment comprise levels which apply to a generic commercial / industrial use scenario. The adopted SAC are listed in Appendix D.

9.2 Waste Classification

The preliminary *in situ* waste classification was generally conducted in accordance with NSW EPA *Waste Classification Guidelines – Part 1: Classification of Waste*, November 2014 (EPA, 2014 – Ref 5).

Waste classification of the material was conducted with reference to the six step process as set out in NSW EPA (2014). Contaminant threshold values for the waste classification are presented in Table 6.

With respect to natural materials underlying the filling, EPA (2014) defines Virgin Excavated Natural Material (VENM) as:

Natural material (such as clay, gravel, sand, soil or rock fines):

- that has been excavated or quarried from areas that are not contaminated with manufactured chemicals, or process residues, as a result of industrial, commercial, mining or agricultural activities; and
- that does not contain any sulfidic ores or soils or any other waste, and includes excavated natural material that meets such criteria for virgin excavated natural material as may be approved from time to time by a notice published in the NSW Government Gazette."

General reference was also made to The *Excavated Natural Material Order 2014* (EPA, 2014a – Ref 6). The maximum concentration values (for comparative purposes only) are presented in Table 6.



10. Field Work Results and Observations

Results of the field work are summarised below and are included in the borehole logs, Appendix E. These logs should be read in conjunction with the attached notes which define the descriptive terms and classification methods used.

Pavement Surfacing and Road Base Filling	Asphalt, spray seal, pavers or concrete surface layer underlain by a generally grey sandy gravel road base was encountered to a maximum depth of 0.3 m.
Filling	Grey silty sand or dark brown clayey silty sand or yellow/brown sand with some gravel filling encountered in Bores 1, 2, 5 and 6 is suspected to be reworked site-sourced soils. The suspected reworked filling was encountered in four of the six bores to depths ranging between 0.5 m and 1.3 m; underlain by
Natural Soil	Natural soils typically comprised brown/yellow sand or clayey sand underlain by red/orange/brown/grey sandy clay then clay. The presence of the upper sandy profile is suspected to be dependent on whether the current ground surface is positioned within an area of cut as a result of past development activities.
SANDSTONE/SILTSTONE	Weathered sandstone/siltstone bedrock was typically encountered at depths ranging between 3.0 and 5.8 m.

Trace quantities of anthropogenic inclusions were encountered in the filling at Bore 6 (only) and comprised trace quantities of plastic and glass. No soil staining or odours were observed during the walkover or at the test bore locations.

Free groundwater was not observed in the boreholes whilst auger drilling in soils and the introduction of drilling fluids into the boreholes during rock coring prevented groundwater observations being made. It is noted that monitoring of groundwater levels was undertaken on 19 April 2018 as part of the geotechnical investigation following a period of relatively dry weather. At that time, standing groundwater was measured at 6.3 m depth in Bore 2 (RL 5 m AHD) and 2.25 m depth in Bore 3 (RL 6.25 m AHD). It should be noted that groundwater levels are variable and can be affected by factors such as soil permeability and recent climatic conditions, and can vary with time.

10.1 Photoionisation Detector Results

Replicates for all soil samples were collected in plastic bags and allowed to equilibrate under ambient temperatures before screening for Total Photoionisable Compounds (TOPIC) using a PID. The PID was calibrated each day prior to use using ambient air as the "zero" air (0.0 ppm) and isobutylene at a concentration of 100 ppm as the calibration "span" gas.

Field measurement of TOPIC indicated relatively low results of less than 1 ppm. The recorded readings were not considered to be indicative of potentially significant volatile organic compound contamination and are considered to fall within background levels. The results of sample screening



are shown on the borehole logs in Appendix E. It is noted that the PID results were consistent with general observations made during the field work.

11. Laboratory Testing

11.1 Soil Contamination Laboratory Results

The soil contamination laboratory test results are summarised below in Tables 5 and 6.



						Heavy	Metals					P	AH			TF	RH									Asbestos
Sample ID	Depth (m)	PID (ppm)	As	Cd	Cr ¹	Cu	Pb	Hg	Ni	Zn	B(a)P	B(a)P TEQ	Naphthalene	total ²	F1 (Ce-C10)	F2 (>C ₁₀ -C ₁₆)	F3 (>C16-C34)	F4 (>C34-C40)	Benzene	Toluene	Ethylbenzene	Total Xylene	PCB ²	Total Phenols	OCP ²	
1/0.5	0.5	<1.0	ND	ND	3	ND	8	ND	ND	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2/0.1	0.1	<1.0	ND	ND	14	71	5	ND	52	31	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2/0.5	0.5	<1.0	ND	0.7	12	46	380	0.8	8	140	0.07	ND	ND	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND ND		ND
2/1.0	1.0	<1.0	ND	ND	4	ND	8	ND	ND	6	-	-	-	-	-	-	-	-	-	-	-	-	-			-
4/0.25	0.25	<1.0	ND	ND	25	20	7	ND	21	11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4/0.5	0.5	<1.0	ND	ND	19	5	10	ND	5	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5/0.5	0.5	<1.0	ND	ND	8	6	5	ND	6	12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
6/0.2	0.2	<1.0	6	5.5	10	79	290	5	14	4600	0.1	ND	ND	1.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	Chrysotile asbestos detected
6/0.7	0.7	<1.0	ND	ND	5	2	7	ND	1	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F	PQL		4	0.4	1	1	1	0.1	1	1	0.05	0.5	0.1	0.1	25	50	100	100	0.5	0.5	1	2	0.1		0.1 (individual)	0.1g/kg
													Site Asse	ssment	Criteria (S	AC)									•	
Н	IL D ³		3,000	900	3,600	240,000	1,500	730	6,000	400,000	NC	40	NC	4,000	NC	NC	NC	NC	NC	NC	NC	NC	7		45/530/3600/50 ⁷	NC
HS	SL D ³		NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NL	NC	260	NL	NC	NC	3	NL	NL	230	NC		NC	0.001%
EIL /	/ ESL ⁴		160	NC	530	150	1,800	NC	60	440	1.4	NC	370	NC	215	170	1,700	3,300	75	135	165	180	NC		640 (DDT)	NC
Managen	nent Lim	iits ³	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	700	1,000	3,500	10,000	NC	NC	NC	NC	NC		NC	NC

Table 5: Results of Soil Analysis (All results in mg/kg unless otherwise stated)

Notes:

1 All Chromium are assumed to exist in the Cr(III), how ever the HIL SAC adopted has been conservatively assumed to be that for Cr(IV)

2 Where analytical results below laboratory practical quantitation limit (PQL) for all compounds, results quoted as ND

3 Health based investigation/screening or management levels for commercial / industrial land use

4 Ecological based investigation/screening or management levels for commercial / industrial land use

5 OCP thresholds given in order Aldrin+Dieldrin/Chlordane/ DDD+DDE+DDT/Endosulfan/Endrin/Heptachlor/HCB/Methoxychlor

6 OCP threshold based on DDT concentration only

7 OPP threshold for Chlorpyrifos only

CEC Cation Exchange Capcity

ND Not detected at reporting limit

NL Not limiting

- not analysed / not applicable

PQL Laboratory practical quantitation limit

Bold Exceedes Guidelines

FC Fibrous Cement Material Sample



				Metals							P	AH	Т	RH									
Sample ID	Depth (m)	Sample	(mqq) OIA	Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Zinc	B(a)P	total ²	C6-C9	C10-C36	Benzene	Toluene	Ethylbenzene	Total Xylene	PCB ²	Total Phenols	ъ С О	Asbestos
1/0.5	0.5	F	<1.0	ND	ND	3	ND	8	ND	ND	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2/0.1	0.1	F	<1.0	ND	ND	14	71	5	ND	52	31	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2/0.5	0.5	F	<1.0	ND	0.7	12	46	380	0.8	8	140	0.07	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2/1.0	1.0	Ν	<1.0	ND	ND	4	ND	8	ND	ND	6	-	-	-	-	-	-	-	-	-	-	ND	-
4/0.25	0.25	F	<1.0	ND	ND	25	20	7	ND	21	11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4/0.5	0.5	N	<1.0	ND	ND	19	5	10	ND	5	5	-	-	-	-	-	-	-	-	-	-	ND	-
5/0.5	0.5	F	<1.0	ND	ND	8	6	5	ND	6	12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
6/0.2	0.2	F	<1.0	6	5.5	10	79	290	5	14	4600	0.1	1.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	Chrysotile asbestos detected
6/0.7	0.7	Ν	<1.0	ND	ND	5	2	7	ND	1	19	-	-	-	-	-	-	-	-	-	-	ND	-
QA1	6/0.7	Ν	<1.0	ND	ND	5	8	7	ND	2	25	-	-	-	-	-	-	-	-	-	-	-	-
	PC	QL		4	0.5	1	1	1	0.1	1	1	0.05	0.1	25	250	0.5	0.5	1	3	0.6	<5	0.1 (individual)	0.01
	Excavated Na	atural Material	3	40 [20]	1 [0.5]	150 [75]	200 [100]	100 [50]	1.0 [0.5]	60 [30]	300 [150]	1 [0.5]	40 [20]	NC	40 [20]	0.5 (NC)	65 (NC)	25 (NC)	15 (NC)	NC	NC	NC	Free of Asbestos
	General So	olid Waste ⁴		100	20	100	NC	100 (5)	4	40	NC	0.8	200	650	10,000	10	288	600	1,000	50	288	50	Free of Asbestos
	Restricted S	Solid Waste ⁴		400	80	400	NC	400 (20)	16	160	NC	3.2	800	2,600	40,000	40	1,152	2,400	4,000	50	1152	50	Free of Asbestos

Table 6: Results of Waste Classification Analysis Compared Against Waste Classification Guidelines (All results in mg/kg unless otherwise stated)

Notes:

1 All Chromium are assumed to exist in the stable Cr(III) oxidation state, as Cr(VI) will be too reactive and unstable under the normal environment

2 Where analytical results below laboratory practical quantitation limit (PQL) for all compounds, results quoted as <PQL of most compounds

3 The excavated natural material order 2014 issued under the Protection of the Environment Operations (Waste) Regulation 2014 – General Exemption Under Part 9, Clause 93.

Threshold values presented as Absolute Maximum Concentration & [Maximum Average Concentration for Characterisation]

4 Waste Classification Guidelines Part 1: Classifying Waste (Leachable concentration mg/L)

5 OCP thresholds given in order Aldrin+Dieldrin/Chlordane/ DDD+DDE+DDT/Heptachlor

PQL Practical Quantitation limits

- not analysed / not applicable

Bold Exceedes Guidelines



12. Discussion of Results

12.1 Soil Contamination Results

Soil samples tested generally reported contaminant concentrations below the adopted health-based SAC and ecological-based SAC (Appendix D) for a commercial land use, with the exception of the following sample.

A sample of suspected reworked site-sourced filling collected from Bore 6 (i.e. Sample 6/0.2) reported a positive asbestos identification result (i.e. chrysotile asbestos in matted material in soil) and also a zinc concentration of 4,600 mg/kg which is above ecological-based SAC (Ref 3). The zinc concentration was below the human health-based investigation level of 7,400 mg/kg. The positive asbestos result and elevated metal concentrations are consistent with the observed anthropogenic inclusions (plastic and glass) in the filling at Bore 6.

12.2 Preliminary *In Situ* Waste Classification

Waste classification of the material was conducted with reference to the six step process as set out in EPA (2014) which is summarised in Table 7 below.

Step	Classification	Rationale
1. Is it special waste?	Yes (In-part)*	Some filling is considered to be impacted by asbestos. Asbestos impacted filling appears to be limited to the locality of Bore 6.
2. Is it liquid waste?	No	Waste composed of soil matrix (<i>i.e.</i> no liquids)
3. Is the waste "pre- classified"?	No	Waste not observed to contain coal tar, batteries, lead paint or dangerous goods containers.
4. Does the waste have hazardous waste characteristics?	No	Waste not observed to/ or considered at risk to contain explosives, gases, flammable solids, oxidising agents, organic peroxides, toxic substances or corrosive substances.
5. Chemical Assessment	Undertaken	Refer to Table 6 in Section 10.
6. Is the waste putrescible?	No	All observed components of material were composed of materials pre-classified as non- putrescible (<i>i.e.</i> soils). Organic content is assessed to be minor.

Table 7: Six Step Classification



In summary, the following provisional waste classifications are provided for soil encountered at the site:

- Filling in the locality of Bore 6 would provisionally be classified as both *Special (Asbestos) Waste* and *Restricted Solid Waste (non putrescible)* and must be managed as both of these classifications. Further investigations are recommented to further characterise and delinate the area affected by this classification;
- Filling in the locality of Bore 2 would provisionally classified as *Restricted Solid Waste (non putrescible)* primarily due to the metal concentrations reported (e.g lead and nickel). Further investigations are recommented to further characterise and delinate the area affected by this classification;
- Remaining filling at the site would be provisionally classified as *General Solid Waste (non putrescible)*, subject to the results of a detailed site investigation for contamination (DSI) and the successful further characterisation and delineation of soils in the locality of Bores 2 and 6. Some filling materials encountered at the site (i.e. Bores 1, 4 and 5) could however potentially be reassessed and classified as ENM, subject to the results of an *in situ* ENM assessment and successful segregation of the filling from other filling materials at the site; and
- Natural soils (excluding any buried topsoil materials) could be potentially be classified as Virgin Excavated Natural Material (VENM), subject to the successful stripping of overlying filling and confirmation testing of the exposed natural soil surface. Appropriate segregation of the overlying filling would be required for the VENM classification to be applicable to the natural soils at the site.

13. Conclusions and Recommendations

DP has undertaken a PSI for the proposed commercial development at 123A-125B Donnison Street, Gosford. This PSI provides information on the likely contamination constraints associated with the proposed commercial uses of the site.

At the time of investigation, two commercial buildings (office buildings) and sealed car parking/driveway access areas generally occupied the site. Based on the review of historical information and a site walkover, DP identified potential contamination sources (refer to Section 6) primarily comprising the placement of filling, construction/demolition of past structures and the use/storage of oil/chemicals associated with past site uses. The PSI included a broad-grid spaced soil investigation programme limited to geotechnical test bore locations to provide an initial assessment of the site's contamination status.

The soil investigation comprised the inspection and screening of soils at six locations and testing of the soils for potential contaminants of concern. It is noted that one of the geotechnical boreholes was positioned beyond the northern site boundary due to access and in-ground service constraints.



The results of soil testing reported contaminant concentrations generally below the adopted SAC, with the exception of filling at Bore 6, which reported asbestos (matted material in soil) and a zinc concentration (exceeding the EIL only) above the adopted SAC. The presence of asbestos in Bore 6 and the elevated metal concentrations in Bores 2 and 6 are likely to be associated with past site activities (e.g. historic garage/motor vehicle servicing and then demolition/redevelopment of the site) that have resulted in an impacted layer of suspect reworked site-sourced filling beneath car park pavement materials and overlying the natural site soils.

Based on the current site conditions (sealed car park) these soil impacts do not pose an unacceptable risk to human health or the environment; however, they would require further investigation, remediation and validation if this area is disturbed.

The results of the PSI indicated that some areas of site have been subject to activities that have caused contamination. It is recommended that a DSI be completed at the site prior to redevelopment to effectively characterise and delineate site contamination conditions and then to facilitate the effective remediation and management of any site contamination as part of the redevelopment process.

Provisional waste classification of soils encountered at the site indicated that filling and topsoils would be nominally classified as a combination of *Special (Asbestos) Waste, Restricted Solid Waste (non putrescible)* and *General Solid Waste (non putrescible)*. The underlying natural soils could be classified as *Virgin Excavated Natural Material (VENM)*, subject to the successful stripping of overlying filling and confirmation testing of the exposed natural soil surface. Appropriate segregation of the overlying filling would be required for the VENM classification to be applicable to the natural soils at the site.

Notwithstanding the above comments regarding the suitability of the site for the proposed development, given that significant bulk excavation works are proposed for the development, it is recommended that a specific remediation action plan (RAP) is developed to manage the excavation, handling and classification of materials that require off-site disposal/reuse. In this regard, the presence of metals, asbestos and other potential contaminants in site soils will require careful management.

In summary, the PSI indicates that the site can be made compatible with the proposed commercial premises from a contamination standpoint, subject to completion of a DSI, the implementation of a suitable RAP, followed by remediation and then validation of the requisite works. Moreover, careful consideration and implementation during earthworks would minimise the volume of soils requiring disposal to landfill and maximise soils that could be beneficially reused at an off-site location.



14. References

- 1. DP Report on Geotechnical Investigation, Proposed Gosford Regional Library, 123A-125B Donnison Street, Gosford, Project 83343.00, dated April 2018.
- 2. Minister for Urban Affairs and Planning, Managing Land Contamination, Planning Guidelines SEPP 55 Remediation of Land, 1998.
- 3. National Environment Protection Council (NEPC) *National Environment Protection (Assessment of Site Contamination) Measure* 1999 (amended 2013) (NEPC, 2013).
- 4. NSW EPA, Contaminated Sites: Sampling Design Guidelines, September 1995.
- 5. NSW EPA, Waste Classification Guidelines, Part 1: Classifying Waste, November 2014.
- 6. NSW EPA, *The Excavated Natural Material Order*, Resource Recovery Order under Part 9, Clause 93 of the Protection of the Environment Operations (Waste) Regulation 2014.

15. Limitations

Douglas Partners (DP) has prepared this report for this project at 123A-125B Donnison Street, Gosford in accordance with DP's proposal CCT180066.P.002 dated 15 March 2018 and acceptance received from Central Coast Council dated 21 March 2018. The work was carried out under DP's Conditions of Engagement. This report is provided for the exclusive use of Central Coast Council for this project only and for the purposes as described in the report. It should not be used by or relied upon for other projects or purposes on the same or other site or by a third party. Any party so relying upon this report beyond its exclusive use and purpose as stated above, and without the express written consent of DP, does so entirely at its own risk and without recourse to DP for any loss or damage. In preparing this report DP has necessarily relied upon information provided by the client and/or their agents.

The results provided in the report are indicative of the sub-surface conditions on the site only at the specific sampling and/or testing locations, and then only to the depths investigated and at the time the work was carried out. Sub-surface conditions can change abruptly due to variable geological processes and also as a result of human influences. Such changes may occur after DP's field testing has been completed.

DP's advice is based upon the conditions encountered during this investigation. The accuracy of the advice provided by DP in this report may be affected by undetected variations in ground conditions across the site between and beyond the sampling and/or testing locations. The advice may also be limited by budget constraints imposed by others or by site accessibility.

This report must be read in conjunction with all of the attached and should be kept in its entirety without separation of individual pages or sections. DP cannot be held responsible for interpretations or conclusions made by others unless they are supported by an expressed statement, interpretation, outcome or conclusion stated in this report.

This report, or sections from this report, should not be used as part of a specification for a project, without review and agreement by DP. This is because this report has been written as advice and opinion rather than instructions for construction.



Although the sampling plan adopted for this investigation is considered appropriate to achieve the stated project objectives, there are necessarily parts of the site that have not been sampled and analysed. This is either due to undetected variations in ground conditions or to budget constraints (as discussed above), or to parts of the site being inaccessible and not available for inspection/sampling, or to vegetation preventing visual inspection and reasonable access. It is therefore considered possible that HBM, including asbestos, may be present in unobserved or untested parts of the site, between and beyond sampling locations, and hence no warranty can be given that asbestos is not present.

The contents of this report do not constitute formal design components such as are required, by the Health and Safety Legislation and Regulations, to be included in a Safety Report specifying the hazards likely to be encountered during construction and the controls required to mitigate risk. This design process requires risk assessment to be undertaken, with such assessment being dependent upon factors relating to likelihood of occurrence and consequences of damage to property and to life. This, in turn, requires project data and analysis presently beyond the knowledge and project role respectively of DP. DP may be able, however, to assist the client in carrying out a risk assessment of potential hazards contained in the Comments section of this report, as an extension to the current scope of works, if so requested, and provided that suitable additional information is made available to DP. Any such risk assessment would, however, be necessarily restricted to the environmental components set out in this report and to their application by the project designers to project design, construction, maintenance and demolition.

Douglas Partners Pty Ltd

Appendix A

About This Report



Introduction

These notes have been provided to amplify DP's report in regard to classification methods, field procedures and the comments section. Not all are necessarily relevant to all reports.

DP's reports are based on information gained from limited subsurface excavations and sampling, supplemented by knowledge of local geology and experience. For this reason, they must be regarded as interpretive rather than factual documents, limited to some extent by the scope of information on which they rely.

Copyright

This report is the property of Douglas Partners Pty Ltd. The report may only be used for the purpose for which it was commissioned and in accordance with the Conditions of Engagement for the commission supplied at the time of proposal. Unauthorised use of this report in any form whatsoever is prohibited.

Borehole and Test Pit Logs

The borehole and test pit logs presented in this report are an engineering and/or geological interpretation of the subsurface conditions, and their reliability will depend to some extent on frequency of sampling and the method of drilling or excavation. Ideally, continuous undisturbed sampling or core drilling will provide the most reliable assessment, but this is not always practicable or possible to justify on economic grounds. In any case the boreholes and test pits represent only a very small sample of the total subsurface profile.

Interpretation of the information and its application to design and construction should therefore take into account the spacing of boreholes or pits, the frequency of sampling, and the possibility of other than 'straight line' variations between the test locations.

Groundwater

Where groundwater levels are measured in boreholes there are several potential problems, namely:

 In low permeability soils groundwater may enter the hole very slowly or perhaps not at all during the time the hole is left open;

- A localised, perched water table may lead to an erroneous indication of the true water table;
- Water table levels will vary from time to time with seasons or recent weather changes. They may not be the same at the time of construction as are indicated in the report; and
- The use of water or mud as a drilling fluid will mask any groundwater inflow. Water has to be blown out of the hole and drilling mud must first be washed out of the hole if water measurements are to be made.

More reliable measurements can be made by installing standpipes which are read at intervals over several days, or perhaps weeks for low permeability soils. Piezometers, sealed in a particular stratum, may be advisable in low permeability soils or where there may be interference from a perched water table.

Reports

The report has been prepared by qualified personnel, is based on the information obtained from field and laboratory testing, and has been undertaken to current engineering standards of interpretation and analysis. Where the report has been prepared for a specific design proposal, the information and interpretation may not be relevant if the design proposal is changed. If this happens, DP will be pleased to review the report and the sufficiency of the investigation work.

Every care is taken with the report as it relates to interpretation of subsurface conditions, discussion of geotechnical and environmental aspects, and recommendations or suggestions for design and construction. However, DP cannot always anticipate or assume responsibility for:

- Unexpected variations in ground conditions. The potential for this will depend partly on borehole or pit spacing and sampling frequency;
- Changes in policy or interpretations of policy by statutory authorities; or
- The actions of contractors responding to commercial pressures.

If these occur, DP will be pleased to assist with investigations or advice to resolve the matter.

About this Report

Site Anomalies

In the event that conditions encountered on site during construction appear to vary from those which were expected from the information contained in the report, DP requests that it be immediately notified. Most problems are much more readily resolved when conditions are exposed rather than at some later stage, well after the event.

Information for Contractual Purposes

Where information obtained from this report is provided for tendering purposes, it is recommended that all information, including the written report and discussion, be made available. In circumstances where the discussion or comments section is not relevant to the contractual situation, it may be appropriate to prepare a specially edited document. DP would be pleased to assist in this regard and/or to make additional report copies available for contract purposes at a nominal charge.

Site Inspection

The company will always be pleased to provide engineering inspection services for geotechnical and environmental aspects of work to which this report is related. This could range from a site visit to confirm that conditions exposed are as expected, to full time engineering presence on site.
Appendix B

Drawings 1 and 2



Douglas Partners Geotechnics | Environment | Groundwater

CLIENT:	Central Coast Council										
OFFICE:	Central Coast	DRAWN BY:	BJK								
SCALE:	As shown	DATE:	04/04/2018								

Site Investigation Location Plan Proposed Gosford Regional Library 123A-125B Donnison Street, Gosford

PROJECT No:	83343.01
DRAWING No:	1
REVISION:	0



Central

Coast

NTS

DRAWN BY:

DATE:

OFFICE:

SCALE:



TITLE: Historical Aerial Photographs Proposed Gosford Regional Library BJK 123A-125B Donnison Street, Gosford 04/04/2018

Appendix C

Background Information



Find a Property Gosford City Council

003.1981.00000614.001 Development Application - SHOP (Lodged: 03/02/1981) 003.1981.00001159.001 Development Application - SHOP (Lodged: 29/05/1981) 003.1981.00001160.001 Development Application - FURNITURE AND BLD MATERIAL SHO (Lodged: 29/05/1981) 003.1981.00001290.001 Development Application - SIGNS (Lodged: 30/06/1981) 003.1981.00001369.001 Development Application - REFRESHMENT ROOMS (Lodged: 14/07/1981) 003.1981.00001503.001 Development Application - SIGNS (Lodged: 07/08/1981) 003.1981.00001504.001 Development Application - SIGNS (Lodged: 07/08/1981) 003.1981.00001523.001 Development Application - SIGNS (Lodged: 12/08/1981) 003.1981.00001587.001 Development Application - SHOP USE (Lodged: 21/08/1981) 003.1981.00001687.001 Development Application - SHOP USE (Lodged: 11/09/1981) 003.1981.00002117.001 Development Application - SHOP (Lodged: 09/12/1981) 003.1982.00003012.001 Development Application - SIGNS (Lodged: 21/09/1982) 003.1986.00007076.001 Development Application - CAR PARK STATION ADD (Lodged: 27/02/1986) 004.1986.00038501.001 Building Application - COMMERCIAL PREMISE (Lodged: 17/06/1986) 003.1987.00009064.001 Development Application - COMMERCIAL PREMISE (Lodged: 31/12/1987) 004.1987.00046295.001 Building Application - OFFICES (Lodged: 31/12/1987) 004.1995.00079589.001 Building Application - COMMERCIAL PREMISE (Lodged: 09/01/1995) 011.2000.00010538.001 Development Application - REF:PARKSIDE YOUTH SERVICES,SMALL EXTENSION FRONT OF BUILDING,INTERNAL REFUBISHMENT (Lodged: 22/12/2000) 012.2000.00010538.001 Construction Certificate - REF:PARKSIDE YOUTH SERVICE CTR,SMALL EXTENSION FRONT OF BLDG,INTERNAL REFURBISHMENT (Lodged: 22/12/2000) 012.2000.00010538.002 Construction Certificate - COMMUNITY BUILDING (Lodged: 27/08/2001) 011.2000.00010538.002 Development Application - Sec 96 Amendment to modify Condition 21, defer works on footpath. (Lodged: 11/01/2002) 011.2000.00010538.003 Development Application - Section 96 (Lodged: 06/05/2005) 012.2000.00010538.003 Construction Certificate - Section 96 - Interior alterations (Lodged: 20/06/2005) 011.2012.00042463.001 Development Application - Change of Use from Community Facility to Educational Establishment

(Lodged: 06/07/2012)

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	ABOUT COUNCIL	BUILDING AND DEVELOPMENT	ENVIRONMENT AND WASTE	ARTS, CULTURE AND RECREATION	COMMUNITY	WHAT'S ON
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Locked Bag 2906, Lisarow NSW 2252 Customer Experience 13 10 50 ABN 81 913 830 179 | www.safework.nsw.gov.au

Our Ref: D18/111521 Your Ref: Brent Kerry 30 April 2018

Attention: Brent Kerry Douglas Partners Pty Ltd Unit 5 3 Teamster Cl Tuggerah NSW 2259

Dear Mr Kerry

RE SITE: 123A & 123B-125A Donnison St Gosford NSW

I refer to your site search request received by SafeWork NSW on 18 April 2018 requesting information on Storage of Hazardous Chemicals for the above site.

A search of the records held by SafeWork NSW has not located any records pertaining to the above mentioned premises.

For further information or if you have any questions, please call us on 13 10 50 or email <u>licensing@safework.nsw.gov.au</u>

Yours sincerely

Customer Service Officer Customer Experience - Operations SafeWork NSW

Brent Kerry

From:	Matthew Gallagher <matthew.gallagher@centralcoast.nsw.gov.au></matthew.gallagher@centralcoast.nsw.gov.au>
Sent:	Monday, 21 May 2018 9:55 AM
To:	Brent Kerry
Subject:	RE: Gosford Regional Library - Contamination Investigation

Hi Brent,

As discussed, see below which confirms neither parcel is classified as a Contaminated Land Parcel.



Let me know if you need anything else.

Matthew Gallagher Property Development Manager Economic Development and Project Delivery Central Coast Council

m: 0417 787 861 e: Matthew.Gallagher@centralcoast.nsw.gov.au

Best, Matt





Req:R359799 /Doc:DP 0711850 P /Rev:23-Jun-1992 /Sts:OK.OK /Pgs:ALL /Prt:28-Mar-2018 14:50 /Seq:1 of 1 Ref:gosford /Src:M



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Řr [#] 13₿5 *. t _s .	STAMP DUTY	3.Kom F
	GRANTING EASEMENT REAL PROPERTY ACT, 1900 (See Instructions for Completion on back of form	TG SIS
	Serviont Tenement (Land burdened)	Dominant Tenement (Land benefited)
	Torrens Tisle Reference	Torrens Title Reference
DESCRIPTION OF LAND Note (a)	FOLIO IDENTIFIER 11/746819	FOLIO IDENTIFIER 100/711850
TRANSFEROR (registered proprietor of servient tenement) Note (b)	PAN CONTINENTAL REALTY FTY LIMITED	
Note (c)	(the abovenamed TRANS=EROR) hereby acknowledges receipt of the consideration of \$ 1,00 and TRANSFERS and GRANTS the easements set out in the anno marked "A"	exure hereto
	out of the servient tenemant and appurtenant to the dominant tenement to the TRANSFEREE	
TRANSFEREE (registered proprietor of dominant tenement) Note (b)	JARVIS RIGDEN HAYMAN, BERNARD DOMINIC HORAN, TO CURRAN, ROSS PHILLIP BARNETT, MICHAEL BESSER, RI SUTHERLAND BROOK, GAEL BROOK, P2TER RONALD KLUGH C/- Davey and Associates (Real Estate) Pty Limited of 22	CHARD MARKHAM KENDALL, AND ER AND LINDALL LEE KLUGER a
PRIOR ENCUMBRANCES -Noto (d)	subject to the following PRIOR ENCUMBRANCES: 1	In REALTR
ENCUMBRANCES		
	2 3 DATE OF TRANSFER 15 Might 1995 We hereby certify this dealing to be correct in the purposes of the Real Property Act, 1900. Signed in my presence by the transferor who is personally known to me The Common Seal of Pan Continental Realty Pty Limited was affixed by "authority of its Board of Directors in the presence of the director and secretary whose signatures Name of Witness (BLOCK LETTERS) appear hereon Address of the transferce who is personally known to me Signed in my presence by the transferce of the personally known to me Signed in my presence by the transferce of the personally known to me Signed in my presence by the transferce of the personally known to me Signed in my presence by the transferce of the personally known to me Signed in my presence by the transferce of the personally known to me Signed in my presence by the transferce of the personally known to me Signed in my presence by the transferce of the personal the company states	lommon Seal *
ENCUMBRANCES Nota (d) EXECUTION Note (e)	2 3 DATE OF TRANSFER 11 ^K Mignet 1995 We hereby certify this dealing to be correct to the purposes of the Real Property Act, 1900. Signed in my presence by the transferor who is personally known to me The Common Seal Of Pan Continental Realty Pty Limited was affixed by "authority of its Board of Directors in the common Seal Of Pan Continental Realty Pty Limited was affixed by "authority of its Board of Directors in the common Seal Of Pan Continental secretary whose signatures Name of Witness (BLOCK LETTERS) appear hereon Affress und occupation of Witness Signed Lampy presence by the transferce who is performing to me Signed Lampy presence by the transferce who is performing to me Signed Lampy presence by the transferce who is performing the me states Signed Lampy presence by Witness affixing the Seal state that they have to notice of the revocation of Power of Attorney Book 3119 Nos. Size 160 inclusive upder the authority of which they have executed the None of Witness (BLOCK LETTERS) Meres and occupation of Witness Second the personstienation of Witness Second they have executed The Mitness (BLOCK LETTERS) Materia and occupation of Witness Second they have executed	And Hauts
ENCUMBRANCES -Note (d) EXECUTION Note (e) Note (e) TO BE COMPLETED BY LODGING PARTY	2 A	Eleasture of Transferor UIOMINION Eleasture of Transferor UIOMI

BP 138

INSTRUCTIONS FOR COMPLETION

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This dealing should be marked by the Commissioner of Stamp Dutles before lodgment at the Registrar General's Office.

Typewriting and handwriting should be clear, legible and in permanent black non-copying ink.

Alterations are not to be made by erasure; the words rejected are to be ruled through and initialled by the parties to the dealing.

If the space provided is insufficient, additional sheets of the same size and quality of paper and having the same margins as this form should be used. Each additional sheet must be identified as an annexure and signed by the parties and the attesting witnesses.

Registered mortgagees, chargees and lessees of the servient tenement should consent to the grant of easement; otherwise, the mortgage, charge or lesse should be noted in the memorandum of prior encumbrances.

Rule up all blanks.

The following instructions relate to the side notes on the form.

- (a) Description of land. TORRENS TITLE REFERENCE .--- Insert the current Folio Identifiers or Volume and Folios of the Certificates of Title/Crown Grants for both the dominant and servient tenements, e.g., 135/SP12345 or Vol. 8514 Fol. 126.
- (b) Show the full name, address and occupation or description.
- (c) State the nature of the essement (see, e.g. section 181A of the Conveyancing Act, 1919), and accurately describe the site of the essement. The transfer and grant must comply with section 88 of the Conveyancing Act, 1919.

(d) In the memorandum of prior encumbrances state only the registered number of any mortgage, lesse or charge (except where the consent of the mortgagee, lessee or chargee is furnished), and of any wris recorded in the Register.

(e) E:ecution.

- GENERALLY
- Should there be insufficient space for the execution of this dealing, use an ennexure sheet.
 The cartificate of correctesss under the Real Property Act, 1900 must be signed by all parties to the transfer, each party to execute the dualing in the presence of an adult witness, not being a party to the dualing, to whom he is personally known. no. colling a party so sime scaling and other is its printering national. The solicitor for the trans iree may sign the certificate on behalf of the transform, the sufficient's name (not that of Ms firm) to be typewritten or printed edjacent to his signature. Any perior history or may sendly certifying is liable to the panalites provided by section 117 of the Real Property Act, 1900.
- min preventions is exercised by an attorney for the transferes pursuant to a registered power of attorney, the form of attestadon must set out the full name of the attorney, and the form of axaculton must indicate the source of his authority, s.J., "AB by the attorney (or receiver or delegate, as the case may be) XY pursuent to power of attorney registered Book No. , and i declare that have no notice of the reveausion of the said power of attorney". ATTORNEY
- AUTHORITY (5.) If the sense is a second pursuant to an authority (other than specified in (iii)), the form of execution must indicate the statutory, judicial or other authority pursuant to which the transfer has been executed. CORPORATION (/) If the transfer is executed by a corporation under sail, the form of avacuiton should include a statement that the test has been properly affixed, e.g., in accordance with the Articles of Azoolation al the corporation.

(f) Insert the name, postal address, Document Exchange reference, telephone number, and delivery box number of the lodging party.

(g) The lodging party is to complete the LOCATION OF DOCUMENTS panel. Place a tick in the appropriate box to indicate the whereabouts of the Certificate of Ticle. List, in an abbreviated form, other documents lodged, e.g., stat. dec. for statutory declaration, pbte for probate, L/A for letters of administration.

OF	FICE	USE	ONLY

DIRECTION: PROP			PIRST S	CHEDULE DIRECTIONS
(A) FOLIO "DENTIFIER	(B) Ne. (C) SHAR	E (D)]	(E)	NAME AND DESCRIPTION
			SECOND SCH	IEDULE & OTHER DIRECTIONS
POLIO IDENTIHER	(G) DIRECTION	(-I) NOTEN TYPE	D DEALING	(K) DETAILS
100/711850	No	εA		Right of carriage way 3.55 wide appurtenant to the land above described affecting the Land designated "W,"x," Y."Z" on DP 746819
100/111850	ON	EB		Right of carriage way 6.5 wide & variable width appurtenent to the land above described affecting the land designated "C4" on DP 746819.
100/711850	ON	EC		Right of carriage way 6.5 wide appurtenant to the land above described affecting the land designated 1°C3" on DP 746819
100/711850	No	ED		Right of footway 1.2 wide appurtenant to the land lobove described affecting the land designated "F" lon plan with ×790647
100/111850	ON	EE		Easement for parking appurtement to the land above described affecting the land designated "P4" or I plan with x 790647
100/711850	ON	EF		Right of carriage way 4.755 wide appurtenant to the land above described affecting the land designated "LI" on plan with x790647

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Req:R368863 /Doc:DL X790647 /Rev:23-Jan-1998 /Sts:OK.OK /Pgs:ALL /Prt:31-Mar-2018 12:50 /Seq:3 of 7 Ref:gosford /Src:M OFFICE USE ONLY × 790647 **RP 88A** •

REGISTRATION DIRECTION ANNEXURE

D FOLIO IDENTIFIER	(É) DIRECTION	IG) DEALING	IH) DETAILS
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X790647

- 1., A Right of Carriage Way 3.35 wide over land designated W,X,Y,Z on Deposited Plan 746819 limited in depth to RL 14.0 and limited in height to RL 17.5 on Australian Height Datum.
- 2. A Right of Carriage Way 6.5 wide and variable width limited in depth to RL 14.0 & limited in height to RL 17.5 on Australian Height Datum over land designated C4 on Deposited Plan 746819.
- A Right of Carriage Way 6.5 wide limited in depth to an inclined plane passing through points R1,R2 and R3 and limited in height to an inclined plane passing through points R4, R5,R6 over land designated C3 on Deposited Plan 746819.
- 4. A Right of Footway 1.2 wide limited in depth to RL 8.75 and limited in height to RL 16.0 over land designated (F) on plan annexed hereto
- 5. Full and free right for the proprietor of the lot benefited and every person authorised by him to park motor vehicles on the relevant part of the lot burdened designated (P4) in the annexed Plan, (hereinafter called "the burdened land") but upon and subject to the following conditions which conditions shall also constitute and be covenants and agreements by and between the proprietor of the lot benefited and the proprietor of the lot burdened for themselves and their respective successors, assigns and transferees with the intention and agreement that the benefit and burden of such covenants and agreements shall pass with the benefit and burden of this easement, and the proprietor of the lot benefited hereby covenants and agrees with the proprietor of the lot burdened that:-
 - (a) no structural or other damage shall be done to the lot burdened or any part thereof in exercising the rights hereby granted;
 - (b) the proprietor of the lot benefited and any person authorised by him will use the burdened land at their own risks and the proprietor of the lot benefited hereby releases the proprietor of the lot burdened and its contractors and employees from all claims and demands of whatever kind and all liability which may arise in respect of any accident or damage to property or death of or injury to any person of whatsoever nature or kind in or near the burdened land and the proprietor of the lot burdened shall have no responsibility for any loss of or damage to personal property of the proprietor of the lot benefited or any person authorised by him or any other any person of the lot benefited or any person of the lot benefited or any person authorised by him or any other person other than as may be caused by the negligence or the proprietor of the lot burdened its contractors or employees;

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- (c) the proprietor of the lot benefited shall indemnify and keep indemnified the proprietor of the lot burdened and its contractors and employees from and against all actions, claims, demands, losses, damages, costs and expenses incurred by the proprietor of the lot burdened or its contractors or employees or for which the proprietor of the lot burdened or its contractors or employees may become liable in respect of or arising from any damage to property or death of or injury to any person which may be authorised in upon or near the relevant part of the lot burdened; and
- the proprietor of the lot benefited and any (d) persons authorised by him shall comply with the rules (if any) from time to time promulgated by the proprietor of the lot burdened for the orderly management of the burdened land <u>PROVIDED</u> that any such rule does not derogate from the rights hereby granted.
- A Right of Carriageway 4.755 wide limited in depth to R.L. 14.0 and limited in height to R.L. б. 17.5 over land designated (L1) on plan annexed hereto (hereinafter called "the burdened land') but upon and subject to the following conditions which conditions shell also constitute and be covenants and agreements by and between the prop-rietor of the lot benefited and the proprietor of the lot burdened for themselves and their respective successors, assigns and transferees with the intention and agreement that the benefit and burden of such covenants and agreements shall pass with the benefit and burden of this easement:
 - vehicles may stand or park on the burdened land for any period of time as may reasonably necessary to deliver or pick-up any goods, (a) materials, foodstuffs, waste or refuse to or from the lot benefited <u>PROVIDED</u> that such vehicles shall, so far as it is possible to do so, be positioned so as to prevent use of the burdened land by any other persons lawfully using same;
 - (b) except as permitted by paragraph (a) hereof, no vehicle shall obstruct or stand on or park on the burdened land;
 - (c) the proprietor of the lot benefited and any persons authorised by him shall comply with the rules (if any) from time to time promulgated by the proprietor of the lot burdened for the orderly management of the lot burdened PROVIDED that any such rule does not derogate from the rights hereby granted.

The persons having the right to extinguish, vary or modify any of the above easements are all of the registered proprietors for the time being of Lot 100 in Deposited Plan No. 711850 and Folio Identifier 11/746819.

Req:R368863 /Doc:DL X790647 /Rev:23-Jan-1998 /Sts:OK.OK /Pgs:ALL /Prt:31-Mar-2018 12:50 /Seq:6 of 7 Ref:gosford /Src:M

"" × 790647 .' THIS IS THE PLAN REFERRED TO IN ANNEXED TRANSFER GRANTING EASEMENTS MADE BETWEEN PAN CONTINENTAL REALTY PTY.LIMITED AS TRANSFEROR AND JARVIS RIGDEN HAYMAN, BERNARD DOMINIC HORAN, TONY GORDON DONALD, JOHN EUGENE CURRAN, ROSS PHILLIP BARNETT, MICHAEL BESSER, RICHARD MARKHAM KENDALL, ANDREW SUTHERLAND BROOK, GAEL BROOK, PETER RONALD KLUGER AND LINDALL LEE KLUGER AY. HENRY PARTY DU ANNA Arvey 101 4 3 5 ũ 7468 Ð NOSINNOG 13 A A 0 55.065 OF GOODS LIMITED DEPTHTO RL. 8.75 25 E.VARIABLE WIDTH LIMIT (5.2 TOUTH STUDOLGH POINTS ESE erop 403 33 LL'A 5 711850 NTEDIN HEIGHTTO R.L. 17 1002 IN TELOTI TO AN INCLUED PLANE PASSING 2 00 2 ONIDADING INCUNED PLANE PASSING 4 N. 8 LIMITED 0.81) 3 0 0 30.355 0 Mais EASEMENT 38) U Å 5 2 Û (5) XA 2 WIDE U 4.0 E LI P SAIDAO へんろししくつちくし R RL. 14.00 TEVELS OF PROPOSED L Ū 200 ū 10.40 202 Z Z 0 0 S P 0 UO 14.50 3.L 11.00 LIMITED PLGHT OF FASEME (16) 15:02 531 È L SITES DEGT GSE PL. OBO S STRAL 10 A A (Re) 0 83 C(RS) 6 ų. (2 (a 4 5 3 (H) Y W ENTAL REAL SUV: Common LIM Seal Z. Selfaces PTY. ANDIN * ITC Commo. Geal

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X790647



CUSTOM CREDIT CORPORATION LIMITED the Mortgages pursuant to Mortgages numbered V766737, W286022 and W869887 hereby consent to registration of the within Transfer Granting Easement,

DATED 15 August, 1988

1.1

CUSTOM CREDIT CORPORATION LIMITED by its attorney ROSS EDWIN GOLLEDGE pursuant to Pover of Attorney registered book 3612 No 993 and I declare that I have no notice of the revocation of the said Power of Attorney

Attorney

Huntingeton Witness

Req:R362205 /Doc:CT 10156-084 CT /Rev:20-Jan-2011 /Sts:OK.SC /Pgs:ALL /Prt:28-Mar-2018 22:07 /Seq:1 of Ref:gosford /Src:M TIFICATE OF TITLE 1015608 NEW SOUTH WALES PERTY ACT, 1900, as amended. 10156 Fol Appln. No. 24480. Prior Titles Vol. 6663 Fols. 72 & 73. 84 Vol LB. -++ 00 1st Edition issued. 3.11.1965. K117392 Fol. CANCELLED W I certify that the person described in the First Schedule is the registered proprietor of the undermentioned estate in the land within 56 described subject nevertheless to such exceptions encumbrances and interests as are shown in the Second Schedule. 01 I Mosflell Jato Witness 11 Registrar General. WARNING: THIS DOCUMENT MUST NOT BE REMOVED FROM THE LAND TITLES OFFICE. PLAN SHOWING LOCATION OF LAND Vol. Donnison St 1 (Page GTEO'A PERSONS ARE CAUTIONED AGAINST ALTERING OR ADDING TO THIS CERTIFICATE OR ANY NOTIFICATION HEREON 1604 5in. 64ft 4in W.A. 38per ١ 646 16065 K 117392045 Scale: 80 feet to one inch. At ESTATE AND LAND REFERRED TO Estate in Fee Simple in Lot 1 in plan lodged with Transfer No. F817574 (Filed as F.P.381824) in the Shire of Gosford Town and Parish of Gosford and County of Northumberland being part of Allotment 12 of Section 32 granted to Robert Creighton on 28.5.1855. Excepting thereout all mines of coal resorved by the Crown Grant. lateo Registrar General. FIRST SCHEDULE (continued overleaf) WESTFIELD DEVELOPMENT CORPORATION LIMITED. late Registrar General. SECOND SCHEDULE (continued overleaf) 1. Reservations and conditions, if any, contained in the Crown Grant above referred to. lates Registrar General NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR GENERAL ARE CANCELLED.

	ENTERED Signature of Registrar General						TION	by June	
	I DATE ENT		1				CANCELLATION	Discharged K531728 Discharged K7310 62 Discharged L42595	
	INSTRUMENT	11	11Q		*		Signature of Registrar General	Junear Junear	
	NATURE	Le 1	Application	9.00)	ENTERED	29/2 1965	
FIRST SCHEDULE (continued)	REGISTERED PROPRIETOR	and from al Muhad the Recencing	This dect is cancelled as t. the whal		ATA CENTRAL	SECOND SCHEDULE (continued)	PARTICULARS	tille Nativel Marine and Barefite Brief and the telle Native Brief and the Alex house here and "She Buthermander" in the westered hereines huser as hyperated when hat a of the Bard within desired (without sindure of consure of motors) to Benefite Bruef Bruef Bard and the Alex and the motors of the tended (marine Bruef Board and the Alex and the tended (without sindure of consure of the tended Bard and the Alex and the Alex and the Alex and the tended (without sindure of consure of the tended Bard and the Alex and the Alex and the tended (without sindure of consure of the tended Bard and the Alex and the tended (without sindure of the tended bard and the Alex a	
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Transfer Sy22234 Transfer Sy22234 NULE (continued) REGISTERED Registration Registration NULE (continued) REGISTERED Registration Registration	20-3-1981	Signature of Recistrar General
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LAND Historical REGISTRY SERVICES Title



NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

FOLIO: 100/711850

First Title(s): OLD SYSTEM · Prior Title(s): VOL 14269 FOL 190 Recorded Number Type of Instrument C.T. Issue _____ ----_____ _____ 4/3/1985 DP711850 DEPOSITED PLAN FOLIO CREATED EDITION 1 22/3/1985 V638395 SURRENDER OF LEASE 22/3/1985 V638396 SURRENDER OF LEASE EDITION 2 7/5/1985 V662209 DISCHARGE OF MORTGAGE 7/5/1985 V662210 LEASE 7/5/1985 V662211 LEASE 7/5/1985 V662212 LEASE EDITION 3 8/5/1985 V662213 TRANSFER 8/5/1985 V662214 MORTGAGE 8/5/1985 V664932 MORTGAGE EDITION 4 21/5/1985 V736518 DEPARTMENTAL DEALING EDITION 5 14/9/1988 X790643 REQUEST 14/9/1988 X790644 DISCHARGE OF MORTGAGE 14/9/1988 X790645 DISCHARGE OF MORTGAGE 14/9/1988 X790645 DISCHARGE OF MORTGAGE 14/9/1988 X790647 TRANSFER GRANTING EASEMENT EDITION 6 26/9/1988 X790648 TRANSFER RELEASING EASEMENT 26/9/1988 X790649 LEASE 26/9/1988 X790650 LEASE X790651 LEASE 26/9/1988 26/9/1988 X790652 MORTGAGE 'EDITION 7 15/1/1992 E191083 TRANSFER EDITION 8 22/9/1994 U629146 TRANSMISSION APPLICATION EDITION 9 U668009 LEASE 30/9/1994 U668010 LEASE 30/9/1994 EDITION 10

17/4/1998 3922552 DISCHARGE OF MORTGAGE 17/4/1998 3922553 TRANSFER 17/4/1998 3922554 MORTGAGE

3908170 DEPARTMENTAL DEALING

EDITION 11

END OF PAGE 1 - CONTINUED OVER

gosford

8/4/1998

PRINTED ON 31/3/2018

NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE -----31/3/2018 10:41AM

FOLIO: 100/711850 -----

PAGE 2

Recorded	Number	Type of Instrument	C.T. Issue
8/12/2000 8/12/2000	7275576	DISCHARGE OF MORTGAGE	EDITION 12
12/5/2003	9597767	LEASE	EDITION 13
23/7/2008	AE102528	LEASE	EDITION 14

*** END OF SEARCH ***

gosford

PRINTED ON 31/3/2018

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Received: 31/03/2018 10:41:18

Reg:R368837 /DR Ref:gosford /S	STC:M STAMP DUTY	<pre>/Pgs:ALL /Prt:31-Mar-2 TRANSFER</pre>		47 /Seq:1 of 2 562213	
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TRANSFEROR	Identifier 100/711850				
Note (b)	PAN CONTINENTAL REALTY PTY. LIMITED				
ESTATE Note (c)	(the abovenamed TRANSFEROR) hereby acknowledges receipt of and transfers an estate in fee simple in the land aboys described to the TRANSFEREE	the consideration of \$1,650,000			
TRANSFEREE Note (d)	JARVIS RIGDEN: HAYMAN, BERNARD DOMINI XXNNARXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	UD, JOHN EUGENE CURRAN,	(0)		OFFICE USE ONLY
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	Address and occupation of Witness Directors in the presence of:-	×	See	TENERY SIGNATON TIANSI	mer Director
Note (g)	Signed in my presence by the transferee who is personally known	to me			
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Reg:R368838 /Doc:DL E191083 /Rev:09-Jun-2010 /Sts:OK.OK /Pgs:ALL /Prt:31-Mar-2018 10:47 /Seg:1 of 1 Ref: gosford /Src:M OFFICE USE ONLY **RP 13** STAMP DUTY E 191083 U of TRANSFER R т REAL PROPERTY ACT, 1900 \$ forrens Title Reference If Part Only, Delete Whole and Give Details Location DESCRIPTION OF LAND Note (a) WHOLE Gosford. Folio Identifier 100/711850 TRANSFEROR Note (b) PETER RONALD KLUGER ESTATE Note (c) (the abovenamed TRANSFEROR) hereby acknowledges receipt of the consideration of \$ 51,979.00 and transfers an estate in fee simple as to two one-eighteenth shares in the land above described to the TRANSFEREE TRANSFEREE Note (d) JARVIS RIGDEN HAYMAN, TONY GORDON DONALD, ROSS PHILLIP BARNETT, RICHARD MARKHAM KENDALL, BERNARD DOMINIC HORAN, JOHN EUGENE CURRAN AND OFFICE USE ONLY MICHAEL BESSER as tenants in common as to one-eighth share each AND ANDREW SUTHERLAND BROOK and GAEL BROOK as tenants in common as to one-sixteenth share each TENANCY Note (e) as joint tenants/tenants in common subject to the following PRIOR ENCUMBRANCES 1 Margage No. × 79065 Leaves × 790650 2 3 9 × 790651 PRIOR ENCUMBRANCES Note (1) 12" Rocembe 1991. DATE We hereby certify this dealing to be correct for the purposes of the Real Property Act, 1900. ash hallpount EXECUTION Note (g) Signed in my presence by the transferor who is personally known to me 11 KKA 111112 h H.R. ANCE GORDON WAUGOOND 22 PRACTITIONS ? D AF Signed in my presence by the transferee who is personally known to me Note (g) Signature of Writness Name of Wilness (BLOCK LETTERS) Solute 10 south Address and occupation of Wilness HCOOK LOCATION OF DOGUMENTS PIGOTT STINSON TO BE COMPLETED BY LODGING PARTY LODGED BY OTHER CT STUART THOM Notes (h) and (i) Herewith SOLICITORS Kruc es PERPETUAL TRUSTEE CHAMBERS In L.T.O. with 39 HUNTER ST., SYDNEY 2000 Ref 687 G Produced by BAF V Delivery Box Number OFFICE USE ONLY Checked Passed REGISTERED -19 Secondary 20,30 Signed Extra Fee Delivery

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COOL N			SMISSION APPLICATION		
			STION 93, REAL PROPERTY ACT, 1900 structions for Completion on back of form)	\$	R
DECODINTION		Title reference	LAND of which deceased is registered proprietor		
DESCRIPTION OF LAND Note (a)		ier 100/711850	If Part Only. Delete Whole and Give Details WHOLE PART one-eig being an undivided one-ninti	Gosford hth	Location
acc			share as tenant in common		
			ORTGAGE, OR CHARGE of which deceased is register	red proprietor	
REGISTERED DEALING Note (b)	Type of Dealing	Registered Number	Torrens Title Reference		Location
				1	
	ROSS PHILLIP	PADNETT			
DECEASED REGISTERED PROPRIETOR	ROSS PHILLIP I	DARNETT			
Note (c)					
Note (d)	(the abovenamed DECEAS	SED) is registered as proprietor	r of the land above described. The APPLN	CANT	
APPLICANT Noie (e)	MICHELE GAIL E	BARNETT of 3 Mt. (Gilead Road, Thirroul, 2515		OFFICE USE C
	MICHELE GAIL E	BARNETT of 3 Mt. (Gilead Road, Thirroul, 2515		OFFICE USE O
	being entitled as Probate No. 103251/	unficiary Ex /92	Gilead Road, Thirroul, 2515 Kecutrix of whose will was of whose will was		of the abovenamed dece
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	being entitled as Probate No. 103251/ Ecttors of Administration No. to Michele G hereby applies to be register	gunfitiary Ex /92 6a Gail Barnett ared as proprietor of the estate	cor interest of the said deceased in the land above desc	s ware granted on 12th	of the abovenamed dece
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*

I/We MICH	HELE GAIL BARNETT of 3 Mt. Gilead Road,	Thirroul, 2515						
executor of th	ne will of ROSS PHILLIP BARNETT		CONSENT OF					
administrator	of the estate of		EXECUTOR OR ADMINISTRATO					
consent to thi	s application		Note (j)					
Signature of Witne		-						
Address and Occu	IBLOCK LETTERS) PETER HEDLEY LEGGO	Remain Sy						
		Signature of Executor/Administrator						
L	SOLICITOR WARRAWONG							
	INSTRUCTIO	NS FOR COMPLETION						
Before lodgment a	at the Land Titles Office this application-							
	e marked "Registration not Opposed" by the Commissioner of a plicable, stamp duty should be paid and the application approp		31st December, 1982; and					
Typewriting and hi	andwriting should be clear, legible and in permanent dense bla	ick or dark blue non-copying ink.						
Alterations are not	to be made by erasure; the words rejected are to be ruled three	ough and initialled by the parties to the dealing in the left hand	d margin.					
If the space provide must be identified	ed is insufficient, additional sheets of the same size and quality as an annexure and signed by the applicant and the attesting	of paper and having the same margins as this form should be witness.	used. Each additional sheet					
Rule up all blanks.								
The following instr	e following instructions relate to the side notes on the form.							
(a) Description	(a) Description of land. (If application is only in respect of a registered dealing, rule through this panel.)							
	() TOBRENS TITLE REFERENCE Insert the current reference to the Folio of the Register for the land the subject of the application, e.g., 12/701924 or Vol. 12364 Fol. 126.							
	WHOLE. If part only of the land in the Folio of the Register is the subject of t							
	(ION, insert the locality shown on the Folio of the Register, e.g. at Chullora, the		Rous.					
	dealing. (If application is only in respect of a Certificate of Til		1000000					
12634 Fol.	egistered number of the lease, mortgage, or charge, the title re 124—at Camperdown.	erence affected thereby, and the location of the land involved,	e.g. Lease—W123456—Vol.					
(c) Show the fu	Il name of the deceased registered proprietor.							
(d) Strike out "I	land above described" or "abovementioned registered dealing"	whichever does not apply.						
(e) Show the fu if as tenants	Il name, address and description of the applicant. If devisees or s in common, state the shares in which they hold.	beneficiaries apply, indicate whether they hold as joint tenants o	or tenants in common, and,					
(1) Insert execu- non", the en trustee.	utor, administrator, trustee, devisee or beneficiary as appropriate titlement may be abbreviated, e.g. administrator c.t.a., admin	If letters of administration have been granted, e.g., "cum testam strator d.b.n., &c. Applicants should not claim as executor an	tento annexo" or "de bonis d devisee or executor and					
(g) Execution.								
GENERALLY	(i) Should there be insufficient space for the execution of this dealing, u							
	 (ii) The certificate of correctness under the Real Property Act, 1900, must being a party to the application, to whom ter/she is personally know Property Act, 1900. 	be signed by all the applicants, each applicant to execute the dealing in the p n. Any person falsely or negligently certifying is flable to the penalties provi	resence of an adult witness, not ded by section 117 of the Real					
ATTORNEY	(iii) If the application is executed by an attorney for the applicant pursuan form of execution must indicate the source of his/her authority. e.g. "A Book No	t to a registered power of attorney, the form of atlestation must set out the ful 3 by his/her attorney (or receiver or delegate, as the case may be), XY pursuant	If name of the attorney, and the to power of attorney registered					
AUTHORITY	 (iv) If the application is executed pursuant to an authority (other than spec application has been executed, 	fied in (iii)), the form of execution must indicate the statutory, judicial or other	authority pursuant to which the					
CORPORATIO	ON (v) If the application is executed by a corporation under seal, the form of Articles of Association of the corporation. Each person attesting the application of the corporation.	iffixing of the seal must state his/her position (e.g., director, secretary) in the	ed, e.g. in accordance with the corporation.					
and in the second second	me, postal address, Document Exchange reference, telephone							

(j) Consent of the executor or administrator is required only where the applicant claims otherwise than as executor, administrator, or trustee.

OFFICE USE ONLY

			FIRST SCHE	DULE DIREC	TIONS
FOLIO IDENTIFIER	(B) DIRECTION	(C)			NAME
-					
		- E			
			_		
	1				
		SECON	D SCHEDULE		DIRECTIONS
(D) FOLIO IDENTIFIER (OR REGD. DEALING & FOLIO IDENTIFIER)	DIRECTION	(F) (G NOTFN TYPE	DEALING NUMBER	(H)	DETAILS
				1	
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AUSDOC Commercial & Law Stationers P/L 1989

	Instructions	ro:M US/0634/96 for filling out	office of State Re	TRANSE New South W Real Property Ac	ER Vales t 1900	/Prt:31-Mar-2018 1 392255	
(A)		ISFERRED te, specify the t transferred.	CERTIFICATE	OF TITLE FOLIO	IDENTIF	IER 100/711850	
(B)		/	49A	Gronge Stree 237-1111 Reference (15 characte	USTRALI NUSTRALI R. SYDING er maximun	A BANK LIMITED A BANK HOUSE M D): GAU902	(I)
(C) (D)	acknowledge and as regard	es receipt of the c ls the land specific	onsideration of .ONI ed above transfers to	E. MILLION & TWO the transferee an esta	. HUNDREI te in fee sin	DTHOUSANDDOLLAR	T, RICHARD MARKHAM REW SUTHERLAND BROOM S. (\$1,200,000.00)
(E) (F) (G)	TRANSFERE	T TS (s713 LGA) TW (Sheriff)) ENTERPRISES P July incorporat	an a	TED (A.C.N. 080 W South Wales an Services, Acco	· in section with the ·
S (/ an	Signed in my igned by 1 A.C.N. 002 uthority w THE COMMOI LIMITED (/ authority of: Secretary Signed in my	presence by the the Transfer 736 343) u hereof they N SEAL of DA A.C.N. 002.7 re of Witness (BI of the Boar Address of presence by the Signature of	transferor who is pe ors by the Att nder Powers of have.signed.t WEY FINANCIAL 36.343).is.her OCK LETTERS d of Directors Witness	Attorney Book he within Tran MANAGEMENT PTY reunto affixed in the presen	e. inancial : 4188 N sfer. .)) by) ce) Div me. STUAR Solicit signed on onveyancer,	Management Pty. os. 951-959 inclu- Davey FINANCIAL MANAGEMENT ACLOSED	Arcor Arcor Arcor Association of licensed name in block letters.
				Page 1 of		Checked by (LTC	D use)



LAND REGISTRY Title Search InfoTrack SERVICES



NEW SOUTH WALES LAND REGISTRY SERVICES - TITLE SEARCH

FOLIO: 100/711850

SEARCH DATE	TIME	EDITION NO	DATE
31/3/2018	10:56 AM	14	23/7/2008

LAND ----

LOT 100 IN DEPOSITED PLAN 711850 AT GOSFORD LOCAL GOVERNMENT AREA CENTRAL COAST PARISH OF GOSFORD COUNTY OF NORTHUMBERLAND TITLE DIAGRAM DP711850

FIRST SCHEDULE _____

THE COUNCIL OF THE CITY OF GOSFORD

(T 7275577)

SECOND SCHEDULE (10 NOTIFICATIONS)

1 DECEDURATIONS AND CONDITIONS IN THE COOMN CONNT(C)

1 .	RESERVATI	ONS AND CONDITIONS IN THE CROWN GRANT (S)
2	DP610446	EASEMENT FOR SUPPORT APPURTENANT TO THE LAND ABOVE
		DESCRIBED AFFECTING THE LAND SHOWN SO BURDENED IN THE
		TITLE DIAGRAM
3	DP711850	EASEMENT FOR SUPPORT AFFECTING THE PART OF THE LAND
		ABOVE DESCRIBED SHOWN SO BURDENED IN THE TITLE DIAGRAM
4	X790647	RIGHT OF CARRIAGEWAY 3.55 WIDE APPURTENANT TO THE
		LAND ABOVE DESCRIBED AFFECTING THE LAND DESIGNATED
		"W", "X", "Y", "Z" ON DP746819
5	X790647	RIGHT OF CARRIAGEWAY 6.5 WIDE & VARIABLE WIDTH
		APPURTENANT TO THE LAND ABOVE DESCRIBED AFFECTING THE
		LAND DESIGNATED "C4" ON DP746819
6	X790647	RIGHT OF CARRIAGEWAY 6.5 WIDE APPURTENANT TO THE
		LAND ABOVE DESCRIBED AFFECTING THE LAND DESIGNATED
		"C3" ON DP746819
7	X790647	RIGHT OF FOOTWAY 1.2 WIDE APPURTENANT TO THE LAND
		ABOVE DESCRIBED AFFECTING THE LAND DESIGNATED "F" ON
		PLAN WITH X790647
8	X790647	EASEMENT FOR PARKING APPURTENANT TO THE LAND ABOVE
		DESCRIBED AFFECTING THE LAND DESIGNATED "P4" ON PLAN
		WITH X790647
9	X790647	RIGHT OF CARRIAGEWAY 4.755 WIDE APPURTENANT TO THE
		LAND ABOVE DESCRIBED AFFECTING THE LAND DESIGNATED
		"L1" ON PLAN WITH X790647
10	AE102528	LEASE TO PARKSIDE GOSFORD LTD EXPIRES: 31/1/2012.
		OPTION OF RENEWAL: 5 YEARS WITH A FURTHER OPTION OF 5
		YEARS.

END OF PAGE 1 - CONTINUED OVER

PRINTED ON 31/3/2018

gosford

NEW SOUTH WALES LAND REGISTRY SERVICES - TITLE SEARCH

FOLIO: 100/711850

PAGE 2

NOTATIONS

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

gosford

PRINTED ON 31/3/2018

* Any entries preceded by an asterisk do not appear on the current edition of the Certificate of Title. Warning: the information appearing under notations has not been formally recorded in the Register. InfoTrack an approved NSW Information Broker 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 1900.

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Received: 31/03/2018 10:56:41
Req:R362206 /Doc:CT 10418-065 CT /Rev:10-Jan-2011 /Sts:OK.SC /Pgs:ALL /Prt:28-Mar-2018 22:07 Ref: gosford /Src:M 10418065 *TIFICATE OF TITLE* PERTY ACT, 1900, as amended. NEW SOUTH WALES 10418 Fol. 65 Crown Grant Vol. 1091 Fol. 157 Vol. Prior Title Vol. 1148 Fol. 206 RP 10 Edition issued 18-10-1966 -K451506 CANCELLED W Fol 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. 00 -S.Vandine Jatso -Witness. WARNING THIS DOCUMENT MUST NOT BE REMOVED FROM THE LAND TITLES OFFICE Registrar General. PLAN SHOWING LOCATION OF LAND Vol 1 Donnison St. (Page 1046 PERSONS ARE CAUTIONED AGAINST ALTERING OR ADDING TO THIS CERTIFICATE OR ANY NOTIFICATION HEREON 2 Allot 11 C \$ SQ 21/2 Sec 32 OAS Scale: 20 feet to one inch K451506 IT. H.J.R. ESTATE AND LAND REFERRED TO Estate in Fee Simple in Lot 2 in plan lodged with Transfor No. 520308 (filed as F.P.105327) in the Shire of Gosford Town and Parish of Gosford and County of Northumberland. Excepting thereout the minerals reserved by the Crown Grant. FIRST SCHEDULE (Continued overleaf) WILLIAM ROBERT WITTE GE Point Clare, Retired and KATHLEEN MITTE his wife, as Joint Tenants. Jatoo Registrar General SECOND SCHEDULE (Continued overleaf) 1. Reservations and conditions, if any, contained in the Grown Grant above referred to. 2. Right-of-Way-created by Transfer No. 520308 affecting the land above described. Anoguided & 77/37/ 3. Caveat No. REDEATR. Entored 74 1 1966. Wild down X486044 4. Caveat No. K362429 (Anntered 24-6-1966. Wild down X488798 General. Entered 6-10-1966 Wildraum K 474587 13 K451507 Regiatrar Tho Cavaat No. Registrar General NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR GENERAL ARE CANCELLED RG 2/62

	ENTERED Signature of Resistant Ganard	916 S-12-1946		12-2-1078 BT01-2-11				CANCELLATION		23-10-126 - 68
	INSTRUMENT NATURE NUMBER	Transfer X474533		Application 0511545		lows		ENTÉRED Signature of Registrar-General	June June	}
FIRST SCHEDULE (continued)	REGISTERED PROPRIETOR	wither Development los parties rimited	the dealesion tenteres and m lynial million of hearing donely	T. & G. Mutuel Life Society Limited	es lo the		I SECOND SCHEDULE (KURUnded)	INSTRUMENT PARTICULARS PARTICULARS	known as dhops an the the Bernston direct, to Charles Juniching Oth at Berefle Beref a Ne Durgher Knuri (Var Ner will r. M. K. K. (Low Ner Laill r. M. K. K. (Low Ner Laill r. M. K. K. (Low Ner Stanter Stanter	LOUIOVAN OI ANINCHIDER, COMPANY DITECTOR

Req:R362207 /Doc:CT 10816-040 CT /Rev:14-Jan-2011 /Sts:OK.SC /Pgs:ALL /Prt:28-Mar-2018 22:07 /Seq:1 of Ref:gosford /Src:M 10816.040 TIFICATE OF TITLE OPERTY ACT, 1900, as amended. NEW SOUTH WALES 40 10816 Fol Vol Crown Grant Vol.1091 Fol.157 Prior Title Vol.1957 Fol.128 Edition issued 12-6-1968 CANCELLED AS L42596 Log H 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. -5 Jatao -Durger Witness Registrar General. WARNING THIS DOCUMENT MUST NOT BE REMOVED FROM THE LAND TITLES OFFICE PLAN SHOWING LOCATION OF LAND Vol. St Page 1) Donnison 30FGin. Allot 22 PERSONS ARE CAUTIONED AGAINST ALTERING OR ADDING TO THIS CERTIFICATE OR ANY NOTIFICATION HEREON 2 1 23 3GF 2 7/4 per: Sec. 32 306 Gim Allot 9 L425960Hall Scale: 20feet to one inch. BH ESTATE AND LAND REFERRED TO Estate in Fee Simple in Lot 1 in plan lodged with Transfer No.520308 (Filed as F.P.105327) in the Shire of Gosford Town and Parish of Gosford and County of Northumberland. EXCEPTING THEREOUT the minerals reserved by the Crown Grant. FIRST SCHEDULE (continued overleaf) THE AUSTRALASIAN TEMPERANCE AND GENERAL MUTCHLETTE ASSURANCE SOCIETY LIMITED. SECOND SCHEDULE (continued overleaf) Reservations and conditions, if any, contained in the Crown Grant above referred to. Lense No.K731063 of the premises known as Shop 2 in the Westfield Shopping Centre, Donnison Expired Street, Cosford (reserving rights) to Charles Furnishings Pty, Limited, Entered 14-7-1967.14-10-1977 2 Lease No.K731065 of the premises known as Shop No.1 in the Westfield Shopping Centre, Street, Gosford (reserving rights) to William Tange Pty. Limited. Entered 14-7-1967. Donnison 3. Entered 14-7-1967. Expired 14-10-1977 Jatos Registrar General NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR GENERAL ARE CANCELLED

	Signature of Registrar-General				
	ENTERED	14-10-1977		CANCELLATION	
	DATE				
	INSTRUMENT	0365301		Signature of Registrar-General	
	NATURE	Application as follows- utespectively.		ENTERED	A 1761-01-41
FIRST SCHEDULE (continued)	REGISTERED PROPRIETOR	This deed is cancelled as in the where issued on 29-10. New cortificates of Title have issued on 29-10. For lots in depended Plan No. 610446 tots 2 Vol. 14269For 190 Condititut. Weike Twa 34200	SECOND SCHEDULE (continued)	PARTICULARS	of premises known as Shop Number One, 1254 Donnison Street Cosford, to Sidney Anthory Smith and Maureen Anne Smith, both of Long Jetty, Retail and Wholesale Butchers. Date of expiry 24-7-1982
		T & G Mittual Life Society Limited		INSTRUMENT NUMBER DATE	6365301
		& G Mutual I		INATURE	Tease



LAND Historical REGISTRY SERVICES Title



NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

FOLIO: 101/711850

First Title(s): OLD SYSTEM VOL 1091 FOL 157 Prior Title(s): VOL 14269 FOL 190

Recorded	Number	Type of Instrument	C.T. Issue
4/3/1985	DP711850	DEPOSITED PLAN	FOLIO CREATED EDITION 1
11/6/1985 11/6/1985	V766736 V766737	DISCHARGE OF MORTGAGE MORTGAGE	EDITION 2
25/5/1987	DP746819	DEPOSITED PLAN	* FOLIO CANCELLED

*** END OF SEARCH ***

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	Signature of Registrar General	Doc 0/02 201210		W869511													
	ENTERED								CANCELLATION	41651062							
	DATE									Discharged							
	INSTRUMENT NUMBER								Signature of Registrar General	· · · · · ·							
	NATURE								ENTERED	6161-6-112							
FIK31 SCHEDULE (continued)	REGISTERED PROPRIETOR		DPARTHORIP Remained 2 MAY 1987	This folio is cancelled or to whole part in the in the part of conventeer folios for fors (1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	200	C.		SECOND SCHEDULE (continued)	PARTICULARS	to The Commercial Dathing Company of States thatted	created pursuant to Section 885 Conveyencing Act. 121	CISOHI do to be regrated to the second secon	Bassineeud 22-5,1987,				
			50	III.	4 B				DATE								100 - 100 -
									INSTRUMENT	R435645							
									NATURE	tion bgage							

Reg:R359802 /Doc:CT 14480-115 CT /Rev:23-Dec-2010 /Sts:OK.SC /Pgs:ALL /Prt:28-Mar-2018 14:50 Ref:gosford /Src:M 44901 ICATE OF TITLE NEW SOUTH WALES PROPERTY ACT, 1900 IVA No. 34439 14480 Fol 115 Vol. 5 EDITION ISSUED 11 981 Fol 4480 I certify that the person described in the First Schedule is the registered proprietor of the undermembioned estate in the land within described subject nevertheless to such exceptions encumbrances and interests as are shown in the Second Schedule. 6 Registrar General. PLAN SHOWING LOCATION OF LAND LENGTHS ARE IN METRES (Page 1) Vol. PERSONS ARE CAUTIONED AGAINST ALTERING OR ADDING TO THIS CERTIFICATE OR ANY NOTIFICATION HEREON WARNING: THIS DOCUMENT MUST NOT BE REMOVED FROM THE REGISTRAR GENERAL'S OFFICE. 0440 P 593424 D CENTRE O-23 0 SEE (12.88) 000 5.04 ANAM DIAGRA D.P.504120 0: 105 P 368273 D Ö DIAGRAM P (X) RIGHT OF WAY 3-355 3-355) WIDE- BK 590 NO 282 đ (x) (Y) RIGHT OF CARRIAGE WAY (3-355) u 3-355 WIDE-BK2813 NO.820 (Z) CROSS EASEMENTS -BK2693 NO.853 AREA: 505.9 IVA34439 10 ESTATE AND LAND REFERRED TO Estate in Fee Simple in Lot 4 in Deposited Flan 504120 at Gosford in the City of Gosford Parish of Gosford County of Northumberland being part of Allotment 13 of Section 32 granted to Robert Creighton on 28-5-1855. EXCEPTING THEREOUT all mines of coal reserved by the Crown Grant. FIRST SCHEDULE THE SOUTH BRITISH INSULANCE COMPANY LIMITED. 3. 4.1 SECOND SCHEDULE 1. Reservations and conditions, if any, contained in the Crown grant above referred to. CAUTION. The land within described is held subject to any subsisting interest (as defined in Section 28A Real Property Act, 1900).
 Book 590 No. 282 Right of way appurtenant to the land above described affecting the land 2652 shown so burdened in the plan hereon.
 Book 2653 No. 853 Cross-easements (Section 181B Conveyancing Act, 1919) affecting the party (~)\$ 3.9.1985 walls shown so burdened in the plan hereon. 5. Book 2813 No. 820 Right of carriageway appurtement to the land above described affecting the land shown so burdened in the plan hereon. NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR GENERAL ARE CANCELLED 2/64

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	FIRST SCHE	DULE (continued)			
	REGISTERED PROPR	JETOR			Registrar Gen
adenne Pty. Limited by Transfer W28	6021. Registered	18-4-1986.			
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FILLS 74	6819 Reals				
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86022 Mortgage to Custom Credit Cor			1980.		
Intervits created pursuant to Section 3 by the registration of DP '746815		1919.		-	
Registered 22-5-1987	(Carl				
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LAND Historical REGISTRY SERVICES Title



NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

FOLIO: 11/746819

Firs Pric	st Title(s): or Title(s) <mark>:</mark>	OLD SYSTEM VOL 1091 FOL 15 101/711850 VOL 6215 FOL 12 VOL 8443 FOL 18 VOL 13565 FOL 22 VOL 14480 FOL 115 VOL 13565 FOL 22	26
Recorded	Number	Type of Instrument	C.T. Issue
	DP746819		FOLIO CREATED EDITION 1
1/7/1987	W867381	TRANSFER	
1/7/1987	W869887	MORTGAGE	EDITION 2
3/7/1987		AMENDMENT: CT DELIVEREE	
10/11/1987	X114616	REQUEST	
10/11/1987	X114618	TRANSFER	EDITION 3
14/9/1988	X790646	TRANSFER	
14/9/1988	X790647	TRANSFER GRANTING EASEMENT	EDITION 4
26/9/1988	X790648	TRANSFER RELEASING EASEMENT	EDITION 5
30/1/1989	¥125585	LEASE	EDITION 6
22/2/1989	¥203365	LEASE	EDITION 7
21/3/1989	Y250547	DISCHARGE OF MORTGAGE	
21/3/1989	Y250548	TRANSFER	
21/3/1989	Y250549	REQUEST	
21/3/1989	¥250550	MORTGAGE	EDITION 8
17/7/1990	Z133457	DEPARTMENTAL DEALING	
17/7/1990	Z125752	LEASE	
17/7/1990	Z108260	SUB-LEASE I	EDITION 9
4/3/1993	1163597	LEASE	EDITION 10
24/8/1994	U557086	SURRENDER OF LEASE	
24/8/1994	U557085		EDITION 11
21/10/2005	0576056	DISCURDER OF MODECACE	
31/10/1996	2576056 2576057	DISCHARGE OF MORTGAGE . MORTGAGE I	EDITION 12
31/10/1996	2376037	NULIONOE	SPITION IZ
3/2/1997	2804339	LEASE	EDITION 13

END OF PAGE 1 - CONTINUED OVER

PRINTED ON 31/3/2018

NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

FOLIO: 11/	746819		PAGE	2
Recorded	Number	Type of Instrument	C.T. Issue	
15/7/1997 15/7/1997	3232006 3232007	DISCHARGE OF MORTGAGE MORTGAGE	EDITION 14	
6/3/2000	6618787	LEASE	EDITION 15	
19/8/2002	8874280	LEASE	EDITION 16	
	9342959	DISCHARGE OF MORTGAGE MORTGAGE		
3/2/2003	9342960	LEASE	EDITION 17	
10/2/2004 10/2/2004	AA186978 AA186966	TRANSFER OF LEASE SUB-LEASE		
23/6/2005	AB570083	APPLICATION FOR REPLACEMENT CERTIFICATE OF TITLE	EDITION 18	
28/6/2005	AB521929	LEASE	EDITION 19	
18/8/2005	AB705680	LEASE	EDITION 20	
17/10/2005	AB842914	LEASE	EDITION 21	
3/11/2005	AB885467	DISCHARGE OF MORTGAGE	EDITION 22	
26/4/2007	AD42761	TRANSFER	EDITION 23	
8/11/2007	AD548284	LEASE	EDITION 24	
4/2/2009	AE480173	LEASE	EDITION 25	
5/3/2010	AE843199	APPLICATION		
31/5/2011	AG269182	LEASE	EDITION 26	
4/1/2013	AH466015	LEASE	EDITION 27	
27/3/2013	AH543572	CHANGE OF NAME		
18/3/2014	AI375797	LEASE	EDITION 28	

END OF PAGE 2 - CONTINUED OVER PRINTED ON 31/3/2018

EDITION 29

gosford

 18/7/2017
 AM572774
 TRANSFER

 18/7/2017
 AM572775
 MORTGAGE

SEARCH DATE ------31/3/2018 10:34AM

FOLIO: 11/746819

PAGE 3

Recorded Number Type of Instrument C.T. Issue

*** END OF SEARCH ***

gosford

PRINTED ON 31/3/2018

InfoTrack an approved NSW Information Broker 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 1900.
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Received: 31/03/2018 10:34:59

Req:R368821 /Doc:DL W867381 /Rev:22-Sep-2010 /Sts:OK.SC /Pgs:ALL /Prt:31-Mar-2018 10:35 /Seq:1 of Ref: gosford /Src:M RP 13 1985 STAMP DUTY 1) DULY STA TRANSFER 01 Т REAL PROPERTY ACT. 1900 3 \$ If Part Only, Delete Whole and Give Details Location Torrens Title Reference DESCRIPTION OF LAND PART being that part of the Note (a) PART of the land in land in Certificate of Title . GOSFORD. Certificate of Title Volume 13565 Folio 2 which is Volume 13565 Folio 2 not included in Lot 12 shown in plan of subdivision approved NOW BEING by the Council of the City of 11/746819 3 PART Gosford No. 1348 of 19/3/1987 TRANSFEROR KEVIN BERNARD SHUMACK of Gosford, Optometrist, Note (b) and SHIRLEY MARGARET SHUMACK his wife. 460 (the abovenamed TRANSFEROR) hereby acknowledges receipt of the consideration of \$ 45,000.00 20 ESTATE and transfers an estate in fee simple 0 in the land above described to the TRANSFEREE Note (c) OFFICE USE ONLY TRANSPEREE 26/199 Note (d LIMITED of 26/199/ Pacific Highway, North Sydney. GRADENNE PTY. OVER TENANCY as joint tenants/tenants in common Note (e) subject to the following PRIOR ENCUMBRANCES 1. ... PRIOR ENCUMBRANCES 3. 2 Note (f) 30/4/1987 DATE We hereby certify this dealing to be correct for the purposes of the Real Property Act, 1900. S. M. Shem and Signed in my presence by the transferor who is personally known to me EXECUTION Note (g) 2)rinan Signature of Witness JENNIFER DRINAN Witness (BLOCK LETTERS 3/119 MANN STREET, GOSFORD ionature of Transferor LEGAL SECRETARY Signed in my presence by the transferee who is personally known to me Note (g) Signature of Witness Name of Witness (BLOCK LETTERS) Hallack 's SOLICITOR Address and occupation of Witness IAN STABBACK LOCATION OF DOCUMENTS LODGED BY TO BE COMPLETED BY LODGING PARTY OTHER СТ IAN. R. STABBACK Solicitor Dx 246. Herewith. Notes (h) and (i) Č1 Ser Charles - B In L.T.O. with 746819 Produced by 76 -810.6. Delivery Box Number 139 REGISTERED -19 OFFICE USE ONLY Checked Passed Secondary Directions F3. Signed -1 JUL 1987 Extra Fee Delivery Directions 52

BP 13						
1985			INSTRUCT	TIONS FOR COMP	LETION	
This dealing should be marked Typewriting and handwriting sh Alterations are not to be made I If the space provided is insufficit identified as an annexure and si If it is intended to create easem Fule up all blanks. The following instructions relate (a) Description of land. (b) Description of land. (c) TomRess TITLE REFI (c) PARTXWHOLE The ARTYWHOLE The (c) Show the full name off (c) If the estate being trans (c) Show the full name, ad (c) Delete if only one trans stares in which they he (f) In the memorandum of (g) Execution. GENERALLY (i) Sho (ii) TORREST (ii) Sho (iii) TORREST (iii) Sho (iii) TORREST (iii) Sho (iii) TORREST (iii) Sho (iii) The stare of the stares in which they he (iii) If the stare of the stare stares in which they he (iii) If the memorandum of (g) Execution. GENERALLY (iii) Sho (iii) The starest (iii) Sho (iiii) Sho (iii) Sho (iii) Sho (iii) Sho (iii) Sho (i	ould be clear, leg by erasure; the w ent, additional shi- igned by the part ents, covenants, e to the SIDE NO ERENCE.—For a manu- toniy of the land in the e locality shown on the the transferor(s). sterred is a lesser dress and occupi feree. If more that old. prior encumbran wild there be insufficient erasticate of correctme restilicate of correctme restilicate of correctme restilicate of correctme restilicate of correctme restilicate of correctme to the transfer of the second of the transfer of the second of the transfer of the second of the transfer of the second of the transfer is executed in transfer is executed in	pible and in ords rejects eets of the s ies and the &c., use for TES on the al reference in totic of the Reg a Certificate of estate than attion or des n one transl ces, state for this space for t space for t is being or this oursuant to my s ourse of his oursuant to my	mp Duties before lon permanent dense bi ad are to be ruled th ame size and quality altesting witnesses. ms RP13A, RP13B, I form. sant me ¹ Volume and Polio I ister is being transferred, d Title/Crown Grant, e.g., at a an estate in fee sim caription of the trans leree, delete either "j innly the registered m he estatic on behalt of the penalities provided by sec for the transferoritransfer her det from of thes deal earl Property 41, 1900, mus horizon	dgment by hand at lack or dark blue n rough and initialled of paper and havin RP13C as appropria (eg., Vol 8514 Fol 126)- elete the word "WHOLE" a Chullara It me locality is mple, delete "fee sin iferee(s). oint tenants" or "fet umber of any mort it be signed by all paries to a transferce, the solicitors" ction 17 of the Real Prin te pursuant to a registore is atomay (or receiver or fied in (iii)), the form of ex-	the Land Titles Office. on-copying ink. by the parties to the dealing in the left hand margin g the same margins as this form should be used. Each the same margins as this form should be used. Each the same margins as this form should be used. Each net as the lot and plan sumber, portion, &c. See also sections 327 and not snown, insert the Parish and County, e.g., Ph. Lismore Co. Rous. tople," and insert appropriate estate. The first appropriate estate. The same indicater the to execute the dealing in the presence of an an ame lot that of higher firm), to be typewriten or printed adjacent to 1 power of alteries, the form of attestation must set out the full name elegent, as the case may be XY pursuant to power of altorney registere ecution must indicate the statutory. Judicial or other authority pursuan terment that the seal has been properly filted, e.g., in accordance with	additional sheet must be 1327AA of the Local Government nts in common, state the ibject. dult witness, not being a party to the signature. Any person falsely of the attorney, and the form of elbock No.
 (h) Insert the name, postal (ii) The lodging party is to p 	address, Docume	ATION OF	ge reference, telepho DOCUMENTS pane	one number, and de	, director, secretary) in the corporation. divery box number of the lodging party, appropriate box to indicate the whereabouts of the C for probate, L/A for letters of administration, &c.	ALSIVER.
			0	FFICE USE ONLY		LO 1341
ga dheana bhairte			FIRST	SCHEDULE DIRECTIONS		
(A) FOLIO IDENTIFIER	(B) DIRECTION	(C)	NAME			
11/ 746819 13/746819	<i>₽</i> ₽0₽	is V.	711850, am 6215 F 126, ADENNE	V 8443 FJ	GLTY PTY. LTD of Part form NNE PTY. LIMITED of Par 18 V13565F2 and V14480 TED	5 formerly F. 115.
	11. 11. 11.				CTIONS	
	14.18		SECOND SCHE	DULE AND OTHER DIRE	CTIONS	
(D) FOLIO (DENTIFIER	(E) DIRECTION	(F) NOTEN	(G) DEALING NUMBER	(H)	DETAILS	
	z(bac/ co	101 910	7- 19M-TC 1072	1 TTT: SD.# /	W867381 /Rev:22-Sep-2010 /Sts:0K.	-W:DIZ/ DIOISOD:19

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Reg:R368822 /Doc:DL X114618 /Rev:15-Sep-2010 /Sts:OK.SC /Pgs:ALL /Prt:31-Mar-2018 10:35 /Seg:1 of Ref: gosford /Src:M STAMP DUTY RP.13 1985 all C 44000 TRANSFER NOR т REAL PROPERTY ACT, 1900 0 \$ 03 Location If Part Only, Delete Whole and Give Details **Torrens Title Reference** T DESCRIPTION OF LAND Gosford PART: NUMBER Folio Identifier as much of land in Folio Noto (a) 11/746819 11/746819 as was in Certificates 1 of Title Volume 6215 Folio 6.5 126 and Volume 8443 Folio 18 1. 5 TRANSFEROR GRADENNE PTY.LIMITED Note (b) 2732 (the abovenamed TRANSFEROR) hereby acknowledges receipt of the consideration of \$ 60, 000 - 00 ESTATE and transfers an estate in fee simple Note (C) in the land above described to the TRANSFEREE OFFICE USE ONLY TRANSFEREE PAN CONTINENTAL REALTY PTY. LIMITED of of- MOore Beafard. 120 Pacific Highway. St. Leonards New. Noje (d) OVE TENANCY Note (e) ioint tanante/tenants in common subject to the following PRIOR ENCUMBRANCES 1. PRIOR ENCUMBRANCES 3. 2. Note (!) 20 DATE We hereby certify this dealing to be correct for the purposes of the Real Property Act, 1900. Signed in my presence by the transferor who is personally known to me EXECUTION Note (g) THE COMMON SEAL OF GRADENNE PTY LIMITED WAS affixed by Buthority of its Board of DirectorsE Director 4 Commun Secretary 0 1 Scal ure of Transfero r 07 * Signed in my presence by the transferee who is personally known to me Note (g) THE COMMON SEAL OF PAN CONTINENTAL REALTY NOT STADITED was affixed by authority of its Board Directors Common TT: Seal Secretary Signature of Transferee * LOCATION OF DOCUMENTS LODGED BY OTHER TO BE COMPLETED BY LODGING PARTY IAN R. STABBACK Herewith. Notes (h) and (i) In L.T.O. with Produced by 810.6 Delivery Box Number REGISTERED Chocked Passed OFFICE USE ONLY Secondary 618 Eur 10 NOV 1987 Signed Extra Fee Delivery Directions OVER

報告				
19	RP 13 1985			
34			INSTRUCTIONS FOR COMPLETION	
1	Typewriting and handwriting shi Alterations are not to be made to	ould be clear, leg	oner of Stamp Duties before lodgment by hand at the Land Titles Office. lible and in permanent dense black or dark blue non-copying ink. ords rejected are to be ruled through and initialled by the parties to the dealing in the left hand margin.	
	If the space provided is insufficie identified as an annoxure and si	nt additional sho	outs of the same size and quality of paper and having the same margins as this form should be used. Each additional shoot	must bo
3	If it is intended to create easeme	ants, covenants, &	Sc., use forms RP13A, RP13B, RP13C as appropriate.	
	Rule up all blanks. The following instructions relate	to the SIDE NO	TES on the form.	
	(a) Description of land.		A second se	
N _{te} r.	(a) PARTAWHOLE	only of the land in the f	to be of the Register is being transferred, doleth the word "WHOLE" and insen the lot and plan number, ponton, oc see also socions at rando as reverse and account of the second	Jovennikut
	(b) Show the full name of 1		Centificate of TitlerCrown Grant, e.g., et Chullora. If this locality is not shown, usert the Parish and County, e.g., Ph. Lismore Co. Rous.	
	(c) If the estate being trans	terred is a lesser	estate than an estate in fee simple, defete "fee simple" and insert appropriate estate.	
	(d) Show the full name, add	dress and occupa	tion or description of the transferee(s). n one transferee, delete either "joint tenants" or "tenants in common", and, if the transferees hold as tenants in common,	state the
	shares in which they ho	d.		
	(a) Execution.		ces, state only the registered number of any mortgage, lease, charge or writ to which this dealing is subject.	
	GENERALLY (I) 5NO (III) The The The ATTORNEY (IIII) If th ext AUTHORNITY (IV) If th	certul-cate of correctine dealing, to whom heras solicitor for the transfe eggigently certulying is a transfer is executed to sution must indicate the e transfer is executed p	Init space for the execution of this dealing, use an annexure sheet. Issunder the Real Property Act, 1900, must be signed by all parties to the transfer, each party to execute the dealing in the presence of an adult witness, not bein the is personality known. The mark sign the certificate on behalf of the transferce, the solicitor's name (not that of his/her firm), to be typewritten or printed adjacent to the signature. Any person is able to the personalise provided by socian 117, of the Real Property Act, 1900. by an attorney for me transferce/itensterce pursuant to a registerind power of attorney, inc form of attortation must set out the full name of the attorney, and is source of his/her authority, e.g. "AB by this attorney (or receiver or disegrate, sith ecise may be) XY pursuant to pave registered Book No pursuant to an authority (other Inan specified in (m)), the form of execution must indicate the statutory, judicial or other authority pursuant to which the transfer pursuant to an authority (other Inan specified in (m)), the form of execution must indicate the statutory, judicial or other authority pursuant to which the transfer	rson laisely the form of or has been
	CORPORATION (v) If the	a transfer is executed b oration Each person	y a corporation under seal, the form of execution should include a statement limit the seal has been properly affixed, e.g., in accordance with the Articles of Associ- attesting the attiving, of the seal must state his/her position (e.g., director, secretary) in the corporation.	ation of the
1.5	(b) Insert the name postal	address, Docume	ent Exchange reference, telephone number, and delivery box number of the lodging party.	a List in
	 (i) The lodging party is to c an abbreviated form, otherwised 	omplete the LOC her documents to	ATION OF DOCUMENTS panel. Place a tick in the appropriate box to indicate the whereabouts of the Certificate of Title dged, e.g., stat. dec. for statutory declaration, pbte for probate, L/A for fetters of administration, &c.	2. E121, 111
			OFFICE USE ONLY LO. 1341	CALL CONTRACT
	*		FIRST SCHEDULE DIRECTIONS	
IA	FOLIO IDENTIFIER	(8) DIRECTION	(C) NAME	
		PROP	PAN CONTINENTAL REALTY PTY. LTD part lovmerly in 101/711850 Vol 6215 For 126 and Voc 8443 For 18 and GRADE PTY. LIMITED of part formerly in Vol For 2 and Vol 14480 For 115	ENNE 13565
			SECOND SCHEDULE AND OTHER DIRECTIONS	
(D)	FOLIO IDENTIFIER	(E) DIRECTION	(F) NOTEN TYPE (G) DEALING (H) DETAILS	
	CT &	5ng	Box 85 M	TO TOOD . TO

Req:R368822 /Doc:DL X114618 /Rev:15-Sep-2010 /Sts:OK.SC /Pgs:ALL /Prt:31-Mar-2018 10:35 /Seq:2 of 2

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4 2 2		TRANSFER	31, or 10 VAI
3		REAL PROPERTY ACT, 19	900 T
t. 1. 3.	Torrens Tille Referance	If Part Only, Delete Whole and Giv	ive Details
DESCRIPTION OF LAND Note (a)		PART XXXXXXX	- former
	Folio Identifier 11/746819	being that part still r in the name of the tran namely those parts form	nsferor
CANTA A		namely those parts form Certificates of Title V 19565 Folio 2 and Volum	Volume
TRANSFEROR		14480 Folio 115	ne
Note (b)	GRADENNE PTY.LIMITED of 3/120	0 Pacific Highway St Leonar	rðs
ESTATE Note (c)		dges receipt of the consideration of \$ 160	0,000 already paid to the transferor $f = \frac{1}{2} \sqrt{2/2} \sqrt{27}$
Note (c) TRANSFEREE	in the land above described to the TRANSFEREE		OFFICE USE ONLY
Note (d)	PAN CONTINENTAL REALTY PTY.LI of 3/120 Pacific Highway St.		
TENANCY			5
Note (e)	as joint tenants/tenants in common		
PRIOR ENCUMBRANCES Note (f)	subject to the following PRIOR ENCUMBRANCES 2. Mortgage W869887	1. Mortgage W 286022	INE AL
interio (1)	DATE 20 /12/1987	7	(Common) -
	We hereby certify this dealing to be correct for the pu		A Seal T
EXECUTION Note (9)	Signed in my presence by the transferor who is perso THE COMMON SEAL OF GRADENNE P		0 + 0
	in accordance With its Article presence of the director and s	les of Association in the	De la de la
	appear where of the director and s	sectedary most	Khulton KC
	Address and occupation of Witness	- athaltan	Director
Note (g)	Signed in my presence by the transferee who is person	onally known to me	
	THE COMMON SEAL OF PAN CONTINE affixed in according with its	ENTAL REALTY PTY.LIMITED was	as Seal
	the presence of the director a appear hereon		
	Name of Witness (BLOCK LETTERS)	~ M. Lt.	Thifflerer
	Address and occupation of Witness	Becretary	- Director Signature of Transferrer
TO BE COMPLETED BY LODGING PARTY	LODGED BY	ст отн	LOCATION OF DOCUMENTS
Notes (h) and (i)	Pigott Stinson		Herewith.
			In L.T.O. with
	Delivery Box Number 687G	e1	Produced by 46
OFFICE USE ONLY	Checked Passed REGISTERED	19 Secondary	
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CEALE.		TRANSFER	- T	3 2 " 4 ×	142505
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	. Torrens Title Reterence	If Part Only, Delete Whol		Location	
LAND te (0)	FOLIO IDENTIFIER 11/746819	WHOLE		GOSFORD	
1					
ANSFEROR ne (b)	PAN CONTINENTAL REALTY	PTY. LIMITED of 267 Pacif	ic Highway, Nort	.h Sydney	
TATE No (c)	(the abovenamed TRANSFEROR) hereby a and transfers an estate in fee simple in the land above described to the TRANS		, of \$ 2,600,000.00)	
ANSFEREE te (d)	TRENT DOUGLAS FAREBROTH Medical Practitioner	ER of RMB 7033 Taylor Road	1, Lisarow NSW 2	251 0F	
NANCY le (e)	as joint lengats/tenants in common			<u>_</u>	
IOR ICUMBRANCES te (f)	Subject to live Jollowing PRIOR ENCUMBR 27, 293,545	RANCES 1. 7.1.7.5585	(IN)	III)	
ECUTION	We hereby certify this dealing to be correc Signed in my presence by the transferor w THE COMMON SEAL OF PAN	ho is personally known to me		mon	
ie (g)	PTY LIMITED WAS HEREUN THE PRESENCE OF THE DI	TO AFFIXED IN RECTOR	the x	- Junio	il.
	PTY LIMITED WAS HEREUN THE PRESENCE OF THE DI AND SECRETARY WHOSE ST APPEAR HEREON Signed in my presence by the transferred w	RECTOR. GNATURES	X	- Huffa	DIRECTOR
	THE PRESENCE OF THE DI AND SECRETARY WHOSE SI APPEAR HEREON	RECTOR. GNATURES	A STO	NATURE OF SECRET	h
	THE PRESENCE OF THE PERMIT	RECTOR GNATURES	 6	NATUREDOF SECRET	FARY
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NEW SOUTH WALES LAND REGISTRY SERVICES - TITLE SEARCH

FOLIO: 11/746819

LAND

SERVICES

SEARCH DATE	TIME	EDITION NO	DATE
31/3/2018	11:27 AM	29	18/7/2017

LAND -----

LOT 11 IN DEPOSITED PLAN 746819 AT GOSFORD LOCAL GOVERNMENT AREA CENTRAL COAST PARISH OF GOSFORD COUNTY OF NORTHUMBERLAND TITLE DIAGRAM DP746819

FIRST SCHEDULE _____

EMPLOYMENT AND TRAINING AUSTRALIA INCORPORATED

(T AM572774)

SECOND SCHEDULE (11 NOTIFICATIONS)

		ONS AND CONDITIONS IN THE CROWN GRANT(S)
2	F164795	COVENANT AFFECTING THE PART SHOWN SO BURDENED IN
3	DDC10446	THE TITLE DIAGRAM.
3	DP610446	EASEMENT FOR SUPPORT APPURTENANT TO THE PART OF THE
		LAND ABOVE DESCRIBED SHOWN SO BENEFITED IN THE TITLE DIAGRAM
4	EASEMENT (S) AFFECTING THE PART(S) SHOWN SO BURDENED IN THE TITLE
		REATED BY:
	DP746	819 -RIGHT OF CARRIAGEWAY 3.35 WIDE OVER LANDS
		DESIGNATED W, X, Y, Z
	DP746	819 -RIGHT OF CARRIAGEWAY 6.5 WIDE DESIGNATED C3
	DP746	819 -RIGHT OF CARRIAGEWAY 6.5 WIDE & VARIABLE WIDTH
		DESIGNATED C4
	X7906	47 -RIGHT OF CARRIAGEWAY 3.55 WIDE OVER LANDS
		DESIGNATED W, X, Y, Z
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	117000	OVER LANDS DESIGNATED C4
	X7906	-RIGHT OF CARRIAGEWAY 6.5 WIDE OVER LANDS DESIGNATED C3
5	DP711850	EASEMENT FOR SUPPORT APPURTENANT TO THE PART OF THE
-	DIVIIOSO	LAND ABOVE DESCRIBED SHOWN SO BENEFITED IN THE TITLE
		DIAGRAM
6	X790647	RIGHT OF FOOTWAY 1.2 WIDE AFFECTING THE PART OF THE
		LAND ABOVE DESCRIBED SHOWN SO BURDENED ON PLAN WITH
		X790647
7	X790647	EASEMENT FOR PARKING AFFECTING THE PART OF THE LAND
		ABOVE DESCRIBED SHOWN SO BURDENED ON PLAN WITH X790647
8 .	X790647	RIGHT OF CARRIAGEWAY 4.755 WIDE AFFECTING THE PART
		OF THE LAND ABOVE DESCRIBED SHOWN SO BURDENED ON PLAN

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PRINTED ON 31/3/2018

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NEW SOUTH WALES LAND REGISTRY SERVICES - TITLE SEARCH

FOLIO: 11/746819

PAGE 2

SECOND SCHEDULE (11 NOTIFICATIONS) (CONTINUED)

WITH X790647

9	AH466015	LEASE TO BLINK MOBILE TECHNOLOGIES PTY LTD OF SUITE
		2 / 123-125 DONNISON STREET, GOSFORD. EXPIRES:
		1/1/2017. OPTION OF RENEWAL: 4 YEARS.
10	AI375797	LEASE TO GOVERNMENT PROPERTY NSW OF SUITES 3, 5, 6
		AND 7 FIRST FLOOR, 123-125 DONNISON STREET, GOSFORD.
		EXPIRES: 30/11/2018.
11	AM572775	MORTGAGE TO GENE PTY LTD

NOTATIONS

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

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PRINTED ON 31/3/2018

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Appendix D

Site Assessment Criteria



Appendix D – Site Assessment Criteria

It is understood that future development planning is only at a preliminary stage, however it is likely to comprise include a multi-level commercial building (library) with possibly two levels of basement car parking.

The Site Assessment Criteria (SAC) applied in the current investigation are informed by the CSM which identified human and environmental receptors to potential contamination on the site (refer to Section 6). Analytical results are assessed (as a Tier 1 assessment) against the SAC comprising primarily the investigation and screening levels of Schedule B1, *National Environment Protection (Assessment of Site Contamination) Measure* 1999, as amended 2013 (NEPC, 2013).

The investigation and screening levels applied in the current investigation comprise levels adopted for a generic commercial land use scenario.

D1 Soils

Health Investigation and Screening Levels

The generic Health Investigation Levels (HILs) and Health Screening Levels (HSLs) are considered to be appropriate for the assessment of human health risk associated with contamination at the site. The adopted soil HILs and HSLs for the potential contaminants of concern are presented in Table D2, with inputs into their derivation shown on Table D1

Variable Input I		Rationale	
Potential exposure pathway	Soil vapour intrusion (inhalation)	The adopted HSLs are predicated on a potential vapour intrusion pathway, as identified in the CSM.	
Soil Type	Sand	Sand, silt and clay soils encountered at the site. Sand has been conservatively adopted as being the predominant soil type.	
Depth to contamination	0 m to <1 m	0 m to <1 m conservatively assumed.	

Table D1: Inputs to the Derivation of HSLs



able D2		in	mg/kg	Unless		State
Contaminan		1	HIL- D		HSL- D	
	Arsenic		3,000			
	Cadmium		900			
	Chromium (VI)		3,600			
Metals	Copper		240,000			
Metals	Lead		1,500			
	Mercury (inorganic)		730			
	Nickel		6,000			
	Zinc		400,000			
	Benzo(a)pyrene TEQ ¹		40			
PAH	Naphthalene				NL ³	
	Total PAH		4,000			
	C6 – C10 (less BTEX) [F1]				260	
	>C10-C16 (less Naphthalene) [F2]				NL ³	
TRH	>C16-C34 [F3]					
	>C34-C40 [F4]				3	
	Benzene					
	Toluene				NL ³	
BTEX	Ethylbenzene				NL ³	
	Xylenes				230	
	Aldrin + Dieldrin		45			
	Chlordane		530			
	DDT+DDE+DDD		3,600			
	Endosulfan		2,000			
OCP	Endrin		100			
	Heptachlor		50			
	НСВ		80			
	Methoxychlor		2,500			
	PCB ²	1	7			
	Phenols		240,000			

Notes:

1 Sum of carcinogenic PAH

2 Non dioxin-like PCBs only.

3 The soil saturation concentration (Csat) is defined as the soil concentration at which the porewater phase cannot dissolve any more of an individual chemical. The soil vapour that is in equilibrium with the porewater will be at its maximum. If the derived soil HSL exceeds Csat, a soil vapour source concentration for a petroleum mixture could not exceed a level that would results in the maximum allowable vapour risk for the given scenario. For these scenarios, no HSL is presented for these chemicals and the HSL is shown as 'not limiting' or 'NL'.



Ecological Investigation Levels

Ecological Investigation Levels (EILs) and Added Contaminant Limits (ACLs), where appropriate, have been derived in NEPC (2013) for only a short list of contaminants comprising As, Cu, Cr (III), DDT, naphthalene, Ni, Pb and Zn. The adopted EILs, derived using the *Interactive (Excel) Calculation Spreadsheet* (Standing Council on Environment and Water (SCEW) website (<u>http://www.scew.gov.au/node/941</u>)) are shown in the following Table D4, with inputs into their derivation shown on Table D3.

Variable	Input	Rationale		
Age of contaminants	"Aged" (>2 years)	Potential contamination sources are generally greater than 2 years		
рН 6		Terrigal Formation soils in the local area are known to be slightly acidic		
CEC	5 cmol₀/kg	Typical CEC value for local clay soils that comprise the majority of the top 2 m of soil profile.		
Clay content 5%		Conservatively assumed clay content of 5%		
Traffic volumes Iow Conservatively assumed traffic low volume		Conservatively assumed traffic low volume		
State / Territory	NSW			

Table D3: Inputs to the Derivation of EILs

Table D4: EIL in mg/kg

	Analyte	EIL
Metals	Arsenic	160
	Copper	150
	Nickel	60
	Chromium III	530
	Lead	1800
	Zinc	440
PAH	Naphthalene	370
OCP	DDT	640



Ecological Screening Levels

Ecological Screening Levels (ESLs) are used to assess the risk of selected petroleum hydrocarbon compounds, BTEX and benzo(a)pyrene to terrestrial ecosystems. The adopted ESLs, based on a coarse soil type, are shown in the following Table D5.

	Analyte	ESL ¹	Comments
TRH	TRH C6 – C10 (less BTEX) [F1]		All ESLs are low
	>C10-C16 (less Naphthalene) [F2]		reliability apart from those marked with *
	>C16-C34 [F3]		which are moderate
	>C34-C40 [F4]		reliability
BTEX	BTEX Benzene		
	Toluene		
	Ethylbenzene	165	
	Xylenes		
PAH	Benzo(a)pyrene	1.4	

Table D5: ESL in mg/kg

Management Limits

In addition to appropriate consideration and application of the HSLs and ESLs, there are additional considerations which reflect the nature and properties of petroleum hydrocarbons, including:

- Formation of observable light non-aqueous phase liquids (LNAPL);
- Fire and explosion hazards;
- Effects on buried infrastructure e.g. penetration of, or damage to, in-ground services.

The adopted management limits, based on a coarse soil type, are shown in the following Table D6.

Table D6: Management Limits in mg/kg

Analyte		Management Limit
TRH $C_6 - C_{10}$ (F1) [#]		700
	>C ₁₀ -C ₁₆ (F2) [#]	1,000
	>C ₁₆ -C ₃₄ (F3)	3,500
	>C ₃₄ -C ₄₀ (F4)	10,000

Separate management limits for BTEX and naphthalene are not available hence these have not been subtracted from the relevant fractions to obtain F1 and F2



Asbestos in Soil

Asbestos only poses a risk to human health when asbestos fibres are made airborne and inhaled. If asbestos is bound in a matrix such as cement or resin, it is not readily made airborne except through substantial physical damage. Bonded Asbestos-Containing Materials (ACM) in sound condition represents a low human health risk, whilst both Fibrous Asbestos (FA) and Asbestos Fines (AF) materials have the potential to generate, or be associated with, free asbestos fibres. Consequently, FA and AF must be carefully managed to prevent the release of asbestos fibres into the air.

A detailed asbestos assessment was not undertaken as part of these works as asbestos was not an identified as a contaminant of concern at the time of writing the proposal. Therefore the presence or absence of asbestos at a limit of reporting of 0.1 g/kg has been adopted for this assessment as an initial screen.

Appendix E

Borehole Logs

Sampling

Sampling is carried out during drilling or test pitting to allow engineering examination (and laboratory testing where required) of the soil or rock.

Disturbed samples taken during drilling provide information on colour, type, inclusions and, depending upon the degree of disturbance, some information on strength and structure.

Undisturbed samples are taken by pushing a thinwalled sample tube into the soil and withdrawing it to obtain a sample of the soil in a relatively undisturbed state. Such samples yield information on structure and strength, and are necessary for laboratory determination of shear strength and compressibility. Undisturbed sampling is generally effective only in cohesive soils.

Test Pits

Test pits are usually excavated with a backhoe or an excavator, allowing close examination of the insitu soil if it is safe to enter into the pit. The depth of excavation is limited to about 3 m for a backhoe and up to 6 m for a large excavator. A potential disadvantage of this investigation method is the larger area of disturbance to the site.

Large Diameter Augers

Boreholes can be drilled using a rotating plate or short spiral auger, generally 300 mm or larger in diameter commonly mounted on a standard piling rig. The cuttings are returned to the surface at intervals (generally not more than 0.5 m) and are disturbed but usually unchanged in moisture content. Identification of soil strata is generally much more reliable than with continuous spiral flight augers, and is usually supplemented by occasional undisturbed tube samples.

Continuous Spiral Flight Augers

The borehole is advanced using 90-115 mm diameter continuous spiral flight augers which are withdrawn at intervals to allow sampling or in-situ testing. This is a relatively economical means of drilling in clays and sands above the water table. Samples are returned to the surface, or may be collected after withdrawal of the auger flights, but they are disturbed and may be mixed with soils from the sides of the hole. Information from the drilling (as distinct from specific sampling by SPTs or undisturbed samples) is of relatively low reliability, due to the remoulding, possible mixing or softening of samples by groundwater.

Non-core Rotary Drilling

The borehole is advanced using a rotary bit, with water or drilling mud being pumped down the drill rods and returned up the annulus, carrying the drill cuttings. Only major changes in stratification can be determined from the cuttings, together with some information from the rate of penetration. Where drilling mud is used this can mask the cuttings and reliable identification is only possible from separate sampling such as SPTs.

Continuous Core Drilling

A continuous core sample can be obtained using a diamond tipped core barrel, usually with a 50 mm internal diameter. Provided full core recovery is achieved (which is not always possible in weak rocks and granular soils), this technique provides a very reliable method of investigation.

Standard Penetration Tests

Standard penetration tests (SPT) are used as a means of estimating the density or strength of soils and also of obtaining a relatively undisturbed sample. The test procedure is described in Australian Standard 1289, Methods of Testing Soils for Engineering Purposes - Test 6.3.1.

The test is carried out in a borehole by driving a 50 mm diameter split sample tube under the impact of a 63 kg hammer with a free fall of 760 mm. It is normal for the tube to be driven in three successive 150 mm increments and the 'N' value is taken as the number of blows for the last 300 mm. In dense sands, very hard clays or weak rock, the full 450 mm penetration may not be practicable and the test is discontinued.

The test results are reported in the following form.

 In the case where full penetration is obtained with successive blow counts for each 150 mm of, say, 4, 6 and 7 as:

 In the case where the test is discontinued before the full penetration depth, say after 15 blows for the first 150 mm and 30 blows for the next 40 mm as:

15, 30/40 mm

Sampling Methods

The results of the SPT tests can be related empirically to the engineering properties of the soils.

Dynamic Cone Penetrometer Tests / Perth Sand Penetrometer Tests

Dynamic penetrometer tests (DCP or PSP) are carried out by driving a steel rod into the ground using a standard weight of hammer falling a specified distance. As the rod penetrates the soil the number of blows required to penetrate each successive 150 mm depth are recorded. Normally there is a depth limitation of 1.2 m, but this may be extended in certain conditions by the use of extension rods. Two types of penetrometer are commonly used.

- Perth sand penetrometer a 16 mm diameter flat ended rod is driven using a 9 kg hammer dropping 600 mm (AS 1289, Test 6.3.3). This test was developed for testing the density of sands and is mainly used in granular soils and filling.
- Cone penetrometer a 16 mm diameter rod with a 20 mm diameter cone end is driven using a 9 kg hammer dropping 510 mm (AS 1289, Test 6.3.2). This test was developed initially for pavement subgrade investigations, and correlations of the test results with California Bearing Ratio have been published by various road authorities.

Soil Descriptions

Description and Classification Methods

The methods of description and classification of soils and rocks used in this report are based on Australian Standard AS 1726-1993, Geotechnical Site Investigations Code. In general, the descriptions include strength or density, colour, structure, soil or rock type and inclusions.

Soil Types

Soil types are described according to the predominant particle size, qualified by the grading of other particles present:

Туре	Particle size (mm)
Boulder	>200
Cobble	63 - 200
Gravel	2.36 - 63
Sand	0.075 - 2.36
Silt	0.002 - 0.075
Clay	<0.002

The sand and gravel sizes can be further subdivided as follows:

Туре	Particle size (mm)
Coarse gravel	20 - 63
Medium gravel	6 - 20
Fine gravel	2.36 - 6
Coarse sand	0.6 - 2.36
Medium sand	0.2 - 0.6
Fine sand	0.075 - 0.2

The proportions of secondary constituents of soils are described as:

Term	Proportion	Example
And	Specify	Clay (60%) and Sand (40%)
Adjective	20 - 35%	Sandy Clay
Slightly	12 - 20%	Slightly Sandy Clay
With some	5 - 12%	Clay with some sand
With a trace of	0 - 5%	Clay with a trace of sand

Definitions of grading terms used are:

- Well graded a good representation of all particle sizes
- Poorly graded an excess or deficiency of particular sizes within the specified range
- Uniformly graded an excess of a particular particle size
- Gap graded a deficiency of a particular particle size with the range

Cohesive Soils

s Pai

Cohesive soils, such as clays, are classified on the basis of undrained shear strength. The strength may be measured by laboratory testing, or estimated by field tests or engineering examination. The strength terms are defined as follows:

Description	Abbreviation	Undrained shear strength (kPa)
Very soft	VS	<12
Soft	S	12 - 25
Firm	f	25 - 50
Stiff	st	50 - 100
Very stiff	vst	100 - 200
Hard	h	>200

Cohesionless Soils

Cohesionless soils, such as clean sands, are classified on the basis of relative density, generally from the results of standard penetration tests (SPT), cone penetration tests (CPT) or dynamic penetrometers (PSP). The relative density terms are given below:

Relative Density	Abbreviation	SPT N value	CPT qc value (MPa)
Very loose	vl	<4	<2
Loose		4 - 10	2 -5
Medium dense	md	10 - 30	5 - 15
Dense	d	30 - 50	15 - 25
Very dense	vd	>50	>25

Soil Descriptions

Soil Origin

It is often difficult to accurately determine the origin of a soil. Soils can generally be classified as:

- Residual soil derived from in-situ weathering of the underlying rock;
- Transported soils formed somewhere else and transported by nature to the site; or
- Filling moved by man.

Transported soils may be further subdivided into:

- Alluvium river deposits
- Lacustrine lake deposits
- Aeolian wind deposits
- Littoral beach deposits
- Estuarine tidal river deposits
- Talus scree or coarse colluvium
- Slopewash or Colluvium transported downslope by gravity assisted by water. Often includes angular rock fragments and boulders.

Rock Descriptions

Rock Strength

Rock strength is defined by the Point Load Strength Index $(Is_{(50)})$ and refers to the strength of the rock substance and not the strength of the overall rock mass, which may be considerably weaker due to defects. The test procedure is described by Australian Standard 4133.4.1 - 2007. The terms used to describe rock strength are as follows:

Term	Abbreviation	Point Load Index Is ₍₅₀₎ MPa	Approximate Unconfined Compressive Strength MPa*
Extremely low	EL	<0.03	<0.6
Very low	VL	0.03 - 0.1	0.6 - 2
Low	L	0.1 - 0.3	2 - 6
Medium	М	0.3 - 1.0	6 - 20
High	Н	1 - 3	20 - 60
Very high	VH	3 - 10	60 - 200
Extremely high	EH	>10	>200

* Assumes a ratio of 20:1 for UCS to $Is_{(50)}$. It should be noted that the UCS to $Is_{(50)}$ ratio varies significantly for different rock types and specific ratios should be determined for each site.

Degree of Weathering

The degree of weathering of rock is classified as follows:

Term	Abbreviation	Description
Extremely weathered	EW	Rock substance has soil properties, i.e. it can be remoulded and classified as a soil but the texture of the original rock is still evident.
Highly weathered	HW	Limonite staining or bleaching affects whole of rock substance and other signs of decomposition are evident. Porosity and strength may be altered as a result of iron leaching or deposition. Colour and strength of original fresh rock is not recognisable
Moderately weathered	MW	Staining and discolouration of rock substance has taken place
Slightly weathered	SW	Rock substance is slightly discoloured but shows little or no change of strength from fresh rock
Fresh stained	Fs	Rock substance unaffected by weathering but staining visible along defects
Fresh	Fr	No signs of decomposition or staining

Degree of Fracturing

The following classification applies to the spacing of natural fractures in diamond drill cores. It includes bedding plane partings, joints and other defects, but excludes drilling breaks.

Term	Description
Fragmented	Fragments of <20 mm
Highly Fractured	Core lengths of 20-40 mm with some fragments
Fractured	Core lengths of 40-200 mm with some shorter and longer sections
Slightly Fractured	Core lengths of 200-1000 mm with some shorter and longer sections
Unbroken	Core lengths mostly > 1000 mm

Rock Descriptions

Rock Quality Designation

The quality of the cored rock can be measured using the Rock Quality Designation (RQD) index, defined as:

RQD % = $\frac{\text{cumulative length of 'sound' core sections} \ge 100 \text{ mm long}}{\text{total drilled length of section being assessed}}$

where 'sound' rock is assessed to be rock of low strength or better. The RQD applies only to natural fractures. If the core is broken by drilling or handling (i.e. drilling breaks) then the broken pieces are fitted back together and are not included in the calculation of RQD.

Stratification Spacing

For sedimentary rocks the following terms may be used to describe the spacing of bedding partings:

Term	Separation of Stratification Planes
Thinly laminated	< 6 mm
Laminated	6 mm to 20 mm
Very thinly bedded	20 mm to 60 mm
Thinly bedded	60 mm to 0.2 m
Medium bedded	0.2 m to 0.6 m
Thickly bedded	0.6 m to 2 m
Very thickly bedded	> 2 m
Symbols & Abbreviations

Introduction

These notes summarise abbreviations commonly used on borehole logs and test pit reports.

Drilling or Excavation Methods

С	Core drilling
R	Rotary drilling
SFA	Spiral flight augers
NMLC	Diamond core - 52 mm dia
NQ	Diamond core - 47 mm dia
HQ	Diamond core - 63 mm dia
PQ	Diamond core - 81 mm dia

Water

\triangleright	Water seep
\bigtriangledown	Water level

Sampling and Testing

- A Auger sample
- B Bulk sample
- D Disturbed sample
- E Environmental sample
- Undisturbed tube sample (50mm)
- W Water sample
- pp Pocket penetrometer (kPa)
- PID Photo ionisation detector
- PL Point load strength Is(50) MPa
- S Standard Penetration Test V Shear vane (kPa)

Description of Defects in Rock

The abbreviated descriptions of the defects should be in the following order: Depth, Type, Orientation, Coating, Shape, Roughness and Other. Drilling and handling breaks are not usually included on the logs.

Defect Type

В	Bedding plane
Cs	Clay seam
Cv	Cleavage
Cz	Crushed zone
Ds	Decomposed seam
F	Fault
J	Joint
Lam	Lamination
Pt	Parting
Sz	Sheared Zone
V	Vein

Orientation

The inclination of defects is always measured from the perpendicular to the core axis.

h horizontal

21

- v vertical
- sh sub-horizontal
- sv sub-vertical

Coating or Infilling Term

cln	clean
со	coating
he	healed
inf	infilled
stn	stained
ti	tight
vn	veneer

Coating Descriptor

ca	calcite
cbs	carbonaceous
cly	clay
fe	iron oxide
mn	manganese
slt	silty

Shape

cu	curved
ir	irregular
pl	planar
st	stepped
un	undulating

Roughness

ро	polished
ro	rough
sl	slickensided
sm	smooth
vr	very rough

Other

fg	fragmented
bnd	band
qtz	quartz

Symbols & Abbreviations

Graphic Symbols for Soil and Rock

General

0	

Asphalt Road base

Concrete

Filling

Soils



Topsoil

Peat Clay

Silty clay

Sandy clay

Gravelly clay

Shaly clay

Silt

Clayey silt

Sandy silt

Sand

Clayey sand

Silty sand

Gravel

Sandy gravel



Talus

Sedimentary Rocks



Limestone

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Metamorphic Rocks

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Slate, phyllite, schist

Quartzite

Gneiss

Igneous Rocks



Granite

Dolerite, basalt, andesite

Dacite, epidote

Tuff, breccia

Porphyry

CLIENT:

PROJECT:

Central Coast Council

LOCATION: 123A-125B Donnison Street, Gosford

Proposed Gosford Regional Library

SURFACE LEVEL: 15.7 AHD* **EASTING:** 345950 **NORTHING:** 6300071 **DIP/AZIMUTH:** 90°/-- BORE No: 1 PROJECT No: 83343.00 DATE: 19/3/2018 SHEET 1 OF 2

				-				: 90 /		SHEET I OF 2
	De		Description	hic t		Sam		In Situ Testing	2	Well
RL	De (n		of Strata	Graphic Log	Type	Depth	Sample	Results & Comments	Water	Construction Details
	-	0.05 0.1′	ASPHALT/SPRAYED SEAL: Black asphalt/sprayed seal, sub-angular gravels up to 20mm in size		D/E	0.08		PID=<1ppm		
15	-	0.6 -	FILLING: Dark grey sandy gravel filling (roadbase), gravel is fine to medium grained and sub-angular, sand is		D/E	0.5		PID=<1ppm		
-#	-		FILLING: Grey silty sand filling, sand is fine grained, humid. Possibly reworked site soils.							-
	-1		SAND: Loose, brown/yellow sand, fine grained, humid		_D/E_	1.0		PID=<1ppm		-1
-	-	1.2-	SANDY CLAY: Stiff, orange/brown sandy clay, sand is fine to medium grained, M <wp< td=""><td></td><td>S D/E</td><td>1.2</td><td></td><td>pp = 350-400 3,3,6 N = 9</td><td></td><td></td></wp<>		S D/E	1.2		pp = 350-400 3,3,6 N = 9		
14	-	1.6 -	CLAY: Very stiff, brown/red clay, trace fine to medium grianed sand, M <wp< td=""><td></td><td>D/E</td><td>1.5</td><td></td><td>pp >400 PID=<1ppm</td><td></td><td></td></wp<>		D/E	1.5		pp >400 PID=<1ppm		
-	-2				D/E	2.0		PID=<1ppm		-2
	-		- hard at 2.5m		_D_	2.5				-
13	-				s			7,9,12 N = 21 PID=<1ppm		-
-	- -3 -					2.9 2.95		pp >400		-3
-	-				D	3.5		PID=<1ppm		
12	-									
-	-4		- grading to red/brown and grey at 4.0m		s	4.0		7,14,16		-4
-	-				D	4.45 4.5		N = 30 PID=<1ppm		
-1-	-									
-	-5 - -									-5
-	-	5.6-			D S	5.5 5.55		26 refusal		
- 10	-		SANDSTONE: Pale grey and brown/red sandstone, fine to medium grained, thinly bedded (0-5°)			5.6 5.94		PL(A) = 0.3		
	-6					5.94		PL(D) = 0.29		-6
	-									
-6	-	6.89			с	6.74		PL(A) = 0.3 PL(D) = 0.25		
	-7		SILTSTONE AND SANDSTONE: Pale grey and brown/red interlaminated siltstone/sandstone, fine grained, thinly laminated to thinly bedded (0-5°), with							-7
-	-		some claystone laminations			7.57		PL(A) = 0.08 PL(D) = 0.04		
-8	-							, L(D) - 0.04		
					[1			

 RIG:
 Scout 1 (Traccess)
 DRILLER:
 S Kennedy
 LOGGED:
 J Rayner
 CASING:
 NW to 3.0 m

 TYPE OF BORING:
 100mm \u03c6 Solid Flight Auger to V-Bit refusal at 5.6m, then NMLC coring to 14.53m.
 WATER OBSERVATIONS:
 No free groundwater observed whilst augering, groundwater then precluded due to coring techniques

 REMARKS:
 Location coordinates are in MGA94 Zone 56 H. *Surface level interpolated from survey plan

A Auger sample G Gas sample PID Photo ionisation detector (ppm)	
B Bulk sample P Piston sample PL(A) Point load axial test Is(50) (MPa)	- 11-
B Bulk sample P Piston sample PL(A) Point load axial test Is(50) (MPa) BLK Block sample U, Tube sample (x mm dia.) C Core drilling W Water sample pp Pocket pentrometrer (RPa)	ers
C Core drilling W Water sample pp Pocket penetrometer (kPa)	
D Disturbed sample D Water seep S Standard penetration test	
E Environmental sample V Water level V Shear vane (kPa)	ndwater

SURFACE LEVEL: 15.7 AHD* **EASTING:** 345950 **NORTHING:** 6300071 **DIP/AZIMUTH:** 90°/-- BORE No: 1 PROJECT No: 83343.00 DATE: 19/3/2018 SHEET 2 OF 2

	1							-	
	Donth	Description	hic		Sampling & In Situ Testing		5	Well	
RL	Depth (m)	of	Graphic Log	Type	Depth	Sample	Results & Comments	Water	Construction
	, ,	Strata	G	Ţ	Del	San	Comments	_	Details
	- - - - 8.5 -	SILTSTONE AND SANDSTONE: Pale grey and brown/red interlaminated siltstone/sandstone, fine grained, thinly laminated to thinly bedded (0-5°), with some claystone laminations <i>(continued)</i>		с	8.06 8.5		PL(A) = 1.12 PL(D) = 1.42		
	- 8.3 - - - - - 9	SILTSTONE: Pale grey and grey with some brown/red and orange staining, thinly laminated to very thinly bedded (0-5°)	· · _	-	8.75		PL(A) = 0.18 PL(D) = 0.09		-9
				- - - - - -	9.71		PL(A) = 0.11		
	- - 9.92 - - 10 -	SILTSTONE AND SANDSTONE: Pale grey and brown/orange interlaminated siltstone/sandstone, fine to medium grained, thinly laminated (0-5°)		с			PL(D) = 0.02		- 10
	- - -				10.34		PL(A) = 0.12 PL(D) = 0.09		
-	- - 11 -				10.93		PL(A) = 1.72 PL(D) = 1.03		-11
4	-				11.4		PL(A) = 0.06		
	- 11.82 - - 12 -	SANDSTONE: Grey and brown sandstone, medium to coarse gained, indistinct bedding		- - - - - - -			PL(D) = 0.08 PL(A) = 0.73		-12
3	- - - - - - 13			с	12.31		PL(D) = 0.69		-13
2	-				13.68		PL(A) = 0.97 PL(D) = 0.54		
	- - 14 - -						(c) 0.01		- - 14 - - -
	14.53 - - - -	Bore discontinued at 14.53m. Limit of investigation. Standpipe piezometer installed upon completion.	1		-14.53-				
	- 15 - - - - - - - -								- 15

 RIG:
 Scout 1 (Traccess)
 DRILLER: S Kennedy
 LOGGED: J Rayner
 CASING: NW to 3.0 m

 TYPE OF BORING:
 100mm φ Solid Flight Auger to V-Bit refusal at 5.6m, then NMLC coring to 14.53m.
 WATER OBSERVATIONS:
 No free groundwater observed whilst augering, groundwater then precluded due to coring techniques

 REMARKS:
 Location coordinates are in MGA94 Zone 56 H. *Surface level interpolated from survey plan

 SAMPLING & IN SITU TESTING LEGEND

 A
 Auger sample
 G
 Gas sample
 PILD
 Photo ionisation detector (ppm)

 B
 Bulk sample
 P
 Piston sample
 PILD
 Photo ionisation detector (ppm)

 BLK
 Block sample
 U
 Tube sample (x mm dia.)
 PL(A) Point load axial test Is(50) (MPa)

 C
 Core drilling
 W
 Water sample
 p
 Pocket penetrometer (kPa)

 D
 Disturbed sample
 P
 Water seep
 S
 Standard penetration test

 E
 Environmental sample
 Water level
 V
 Shear vane (kPa)



PROJECT: LOCATION:

CLIENT:

CT: Proposed Gosford Regional Library ION: 123A-125B Donnison Street, Gosford

CLIENT:

PROJECT:

Central Coast Council

LOCATION: 123A-125B Donnison Street, Gosford

Proposed Gosford Regional Library

SURFACE LEVEL: 11.3 AHD* **EASTING:** 345900 **NORTHING:** 6300089 **DIP/AZIMUTH:** 90°/-- BORE No: 2 PROJECT No: 83343.00 DATE: 19/3/2018 SHEET 1 OF 2

				_					_	
	_		Description	. <u>.</u>		Sam		& In Situ Testing	5	Well
Ч	De (n		of	Graphic Log	Type	Depth	Sample	Results & Comments	Water	Construction
	-		Strata	G	Тy	De	San	Comments	-	Details
		0.04 - 0.25 -	ASPHALT/SPRAYED SEAL: Black asphalt/sprayed seal, sub-angular gravels up to 20mm in size		D/E	0.1		PID=<1ppm		-
			FILLING: Dark grey sandy gravel filling (roadbase), gravel is fine to medium grained and sub-angular, sand is medium to coarse grained, damp		D/E	0.5		PID=<1ppm		- - -
		0.7	FILLING: Grey silty sand filling, sand is fine grained, humid. Possibly reworked site soils.							
	-1	1.1	SAND: Loose, brown/yellow sand, fine grained, with trace very minor charcoal, humid	······································	<u>D/E</u> S	1.0		PID=<1ppm 4,5,4		-1
-9-		1.4	CLAYEY SAND: Loose, brown sand, fine to medium grained, humid	(' <i>I.''</i> '). ('/.'/		1.4 1.45		N = 9 pp = 300-400 PID=<1ppm		-
		1.8-	SANDY CLAY: Very stiff, brown sandy clay, sand is fine to medium grained, M <wp< td=""><td>·./. ./.</td><td></td><td>1.5</td><td></td><td></td><td></td><td>-</td></wp<>	·./. ./.		1.5				-
	-2		CLAY: Very stiff, brown/red clay, trace fine to medium grianed sand, M=Wp		D/E	2.0		PID=<1ppm		-2
-0 -					D/E	2.5		PID=<1ppm		-
					s			7,9,11 N = 20		-
	-3				D/E	2.9 2.95		pp = 300-400 PID=<1ppm		-3
			- brown/red mottled pale grey and brown at 3.0m			3.0				-
					D/E	3.5				-
	- 4	4.0-			D/E	4.0		PID=<1ppm		-4
			CLAY: Hard, pale grey mottled brown/red, trace fine grained sand, M <wp< td=""><td></td><td>s</td><td>1.0</td><td></td><td>12,14,17 N = 31</td><td></td><td>-</td></wp<>		s	1.0		12,14,17 N = 31		-
						4.4 4.45		pp >400		-
										-
	- 5									-5
-9										-
			becoming weathered and at 5 Cm		s	5.5		14,20		-
		5.8 -	- becoming weathered rock at 5.6m SILTSTONE AND SANDSTONE: Pale grey and			5.7 5.79		refusal pp >400		-
	-6		brown/red interbedded siltstone/sandstone, fine grained, very thinly bedded to thinly bedded (0-5°)			5.8				-6
-2-										-
					С					
	-7				ł					-7
-4						7.4				
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					С					
				<u> </u> :::						

 RIG:
 Scout 1 (Traccess)
 DRILLER:
 S Kennedy
 LOGGED:
 J Rayner
 CASING:
 NW to 3.0 m

 TYPE OF BORING:
 100mm \u03c6 Solid Flight Auger to V-Bit refusal at 5.8m, then NMLC coring to 12.70m.
 WATER OBSERVATIONS:
 No free groundwater observed whilst augering, groundwater then precluded due to coring techniques

 REMARKS:
 Location coordinates are in MGA94 Zone 56 H. *Surface level interpolated from survey plan

	SAM	PLIN	G & IN SITU TESTING	LEG	END		
A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)	 _	
E	Bulk sample	Р	Piston sample		A) Point load axial test Is(50) (MPa)		Douglas Partners
E	K Block sample	U,	Tube sample (x mm dia.)	PL(C	D) Point load diametral test Is(50) (MPa)	1.	Louolas Parners
	Core drilling	Ŵ	Water sample	pp	Pocket penetrometer (kPa)		
C	Disturbed sample	⊳	Water seep	S	Standard penetration test	11	
E	Environmental sample	Ŧ	Water level	V	Shear vane (kPa)		Geotechnics Environment Groundwater

SURFACE LEVEL: 11.3 AHD* **EASTING:** 345900 **NORTHING:** 6300089 **DIP/AZIMUTH:** 90°/-- BORE No: 2 PROJECT No: 83343.00 DATE: 19/3/2018 SHEET 2 OF 2

						0	nlin - f			1
Ι.	De	oth	Description	Graphic Log				& In Situ Testing	er	Well
Ч	(n	n)	of	Grap	Type	Depth	Sample	Results & Comments	Water	Construction
			Strata			Ō	Sa	Commenta		Details
- ε - ε 	- - - - -		SILTSTONE AND SANDSTONE: Pale grey and brown/red interbedded siltstone/sandstone, fine grained, very thinly bedded to thinly bedded (0-5°) <i>(continued)</i> 8.19m: Sandstone is fine to medium grained, thinly bedded to medium bedded			8.24		PL(A) = 0.8 PL(D) = 0.87		
	- 9 - - - - -	9.8		·- ∷∶	С					-9
-	- - 10 - - - - -		SANDSTONE: Pale grey and brown/orange sandstone, medium to coarse grained, indistinct bedding			9.95 10.0		PL(A) = 0.66 PL(D) = 0.61		-10
- - - - - - - - - - -	- - 11 - - - - -				с	10.95		PL(A) = 0.69 PL(D) = 0.69		- 11
-	- - 12 - -	2.32				11.95		PL(A) = 0.84 PL(D) = 0.73		- 12
ł			SILTSTONE: Grey siltstone, very thinly laminated (0-5°)	· · ·		12.42		PL(A) = 0.29 PL(D) = 0.14		
F	. 1	2.64 12.7	SANDSTONE: Pale grey and brown/orange sandstone,			-12.7-				
	- 13 - 13 		\medium to coarse grained, indistinct bedding/ Bore discontinued at 12.7m. Limit of investigation. Standpipe piezometer installed upon completion.							- 13
	- - - 14 - -									14
- +- - +- 	- 15									- 15
- - -	-									

RIG: Scout 1 (Traccess)

CLIENT:

PROJECT:

Central Coast Council

LOCATION: 123A-125B Donnison Street, Gosford

Proposed Gosford Regional Library

DRILLER: S Kennedy

LOGGED: J Rayner

CASING: NW to 3.0 m

TYPE OF BORING: 100mm ϕ Solid Flight Auger to V-Bit refusal at 5.8m, then NMLC coring to 12.70m.

 WATER OBSERVATIONS: No free groundwater observed whilst augering, groundwater then precluded due to coring techniques

 REMARKS: Location coordinates are in MGA94 Zone 56 H. *Surface level interpolated from survey plan

A Auger sample G Gas sample PID Photo ionisation detector (ppm)	
B Bulk sample Piston sample Piston sample PL(A) Point bad axial test ts(50) (MPa) BLK Block sample U, Tube sample (xmm dia.) C Core drilling W Water sample (point bad diametral test ts(50) (MPa) pp Pocket penetrometer (kPa)	
BLK Block sample U, Tube sample (x mm dia.) PL(D) Point load diametral test Is(50) (MPa)	
C Core drilling W Water sample pp Pocket penetrometer (kPa)	
D Disturbed sample N Water seen S Standard ponetration feet	
E Environmental sample Vater level V Shear vane (kPa)	dwater

CLIENT:

PROJECT:

Central Coast Council

LOCATION: 123A-125B Donnison Street, Gosford

Proposed Gosford Regional Library

SURFACE LEVEL: 8.5 AHD* **EASTING**: 345946 **NORTHING**: 6300127 **DIP/AZIMUTH**: 90°/-- BORE No: 3 PROJECT No: 83343.00 DATE: 20/3/2018 SHEET 1 OF 2

Der		Description	- ic		Sam		& In Situ Testing		Well
Dep (m		of Strata	Graphic Log	Type	Depth	Sample	Results & Comments	Water	Construction Details
C).05-	ASPHALT/SPRAYED SEAL: Black asphalt/sprayed seal, sub-angular gravels up to 20mm in size	\times	D/E	0.1	<i>s</i>	PID=<1ppm		
	0.4 -	FILLING: Generally comprising yellow/brown sandy gravel filling (roadbase), gravel is sub-rounded to sub-angular up to 20mm in size, sand is fine to coarse grained, humid		D/E	0.5		PID=<1ppm		
1	0.8	SANDY CLAY: Stiff, red/brown and grey/brown sandy clay, sand is fine to medium grained, M=Wp		_D/E_	1.0		PID=<1ppm		- - -1
		CLAY: Very stiff, brown/red clay, trace fine to medium grianed sand, M <wp< td=""><td></td><td>s</td><td>1.4</td><td></td><td>4,6,6 N = 12 pp = 300-400</td><td></td><td></td></wp<>		s	1.4		4,6,6 N = 12 pp = 300-400		
				D/E	1.45 1.5		PID=<1ppm		-
2				D/E	2.0		PID=<1ppm		-2
		- hard at 2.5m			2.5				
-3	20	$_{\rm T}$ - grading to red/brown and grey, with some ironstone		S D/E	2.9		6,9,20 N = 29 pp >400		
3	3.0	\gravel at 2.9m // SANDSTONE: Low strength, highly weathered,		U/E	2.95 3.0		PID=<1ppm		-3
	3.7	yellow/brown sandstone			3.7				
4		SANDSTONE: Pale grey and brown/red to brown/orange sandstone, fine to medium grained, indistinct bedding, some zones of extremely weathered rock with soil like properties		С	3.92		PL(A) = 0.17 PL(D) = 0.15		
5					4.9 5.13		PL(A) = 0.11 PL(D) = 0.09		-5
							PL(A) = 0.69		
6				С	5.91		PL(A) = 0.09 PL(D) = 0.66		-6
7					6.57		PL(A) = 0.77 PL(D) = 1		-7
				с	7.33				
7	7.75 -	SANDSTONE: Brown/red and pale grey sandstone, medium to coarse grained, indistinct bedding		U	7.93		PL(A) = 0.44		

 RIG:
 Scout 1 (Traccess)
 DRILLER:
 S Kennedy
 LOGGED:
 M Harrison
 CASING:
 NW to 3.0

 TYPE OF BORING:
 100mm \(\phi\) Solid Flight Auger to V-Bit refusal at 3.7m, then NMLC coring to 10.02m.
 WATER OBSERVATIONS:
 No free groundwater observed whilst augering, groundwater then precluded due to coring techniques

 REMARKS:
 Location coordinates are in MGA94 Zone 56 H. *Surface level interpolated from survey plan

	SAM	PLINC	3 & IN SITU TESTING		
A	Auger sample	G	Gas sample	PID Photo ionisation detector (ppm)	
B	Bulk sample K Block sample	P	Piston sample Tube sample (x mm dia.)	PL(A) Point load axial test Is(50) (MPa) PL(D) Point load diametral test Is(50) (MPa)	Douglas Partners
C	Core drilling	Ŵ	Water sample	pp Pocket penetrometer (kPa)	
D	Disturbed sample	⊳	Water seep	S Standard penetration test	
E	Environmental sample	Ŧ	Water level	V Shear vane (kPa)	Geotechnics Environment Groundwater

CLIENT:

PROJECT:

LOCATION:

Central Coast Council

Proposed Gosford Regional Library

123A-125B Donnison Street, Gosford

SURFACE LEVEL: 8.5 AHD* **EASTING**: 345946 **NORTHING**: 6300127 **DIP/AZIMUTH**: 90°/-- BORE No: 3 PROJECT No: 83343.00 DATE: 20/3/2018 SHEET 2 OF 2

_										
	Denth	Description	ic T		Sampling & In Situ Testing			5	Well	
RL	Depth (m)	of Strata	Graphic Log	Type	Depth	Sample	Results & Comments	Water	Construction Details	
	8.69 -	SANDSTONE: Brown/red and pale grey sandstone, medium to coarse grained, indistinct bedding <i>(continued)</i>					PL(D) = 0.5			
	-9	SILTSTONE: Grey siltstone, indistinct bedding	· · -		8.79		PL(A) = 0.09 PL(D) = 0.08		9	
	- 9 - 9.2-			С					-9	
		SILTSTONE AND SANDSTONE: Grey and brown/orange interlaminated siltstone/sandstone, fine grained, thinly laminated (0-5°)								
	9.76 - - ¹⁰ 10.02 -	SILTSTONE: Grey and brown/orange siltstone, indistinct bedding	· · _		9.9 -10.02-		PL(A) = 0.14 PL(D) = 0.21			
	10.02	Bore discontinued at 10.02m. Limit of investigation. Standpipe piezometer installed upon completion.			10.02					
- Ņ									-	
	-11								- - -11	
									-	
	- 12								- 12	
	.								-	
-4-										
	- 13								- 13	
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	- 14								- 14	
_φ. - ·	.									
	- 15								- 15	

 RIG:
 Scout 1 (Traccess)
 DRILLER: S Kennedy
 LOGGED: M Harrison
 CASING: NW to 3.0 m

 TYPE OF BORING:
 100mm \$\phi\$ Solid Flight Auger to V-Bit refusal at 3.7m, then NMLC coring to 10.02m.
 WATER OBSERVATIONS:
 No free groundwater observed whilst augering, groundwater then precluded due to coring techniques

 REMARKS:
 Location coordinates are in MGA94 Zone 56 H. *Surface level interpolated from survey plan



SURFACE LEVEL: 8.5 AHD* **EASTING:** 345940 **NORTHING:** 63100108 **DIP/AZIMUTH:** 90°/--

BORE No: 4 PROJECT No: 83343.00 DATE: 20/3/2018 SHEET 1 OF 1

							1: 90 ⁻ /		SHEET 1 OF 1
		Description	lic		Sam		In Situ Testing	-	Well
RL	Depth (m)	of Strata	Graphic Log	Type	Depth	Sample	Results & Comments	Water	Construction Details
\mathbb{H}		PAVERS: Red/brown pavers, 80mm thick		-		ő			
$\left \right $	0.08	CONCRETE: Grey concrete, sub-rounded to sub-angular gravels up to 30mm in size							-
	- 0.19			D/E	0.25		PID=<1ppm		-
	- 0.3	FILLING: Generally comprising clayey gravel, gravel is sub-angular and up to 50mm in size, humid	× × ×				·· ·•••		-
ŀ	-	SANDY CLAY: Red/brown and slightly grey sandy clay, M <wp< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td></wp<>							-
-∞-	-			D/E	0.5		PID=<1ppm		
	_								
	-								-
	-								-
-	-1			D/E	1.0		PID=<1ppm		-1
	-								-
+ +	-		. /. /						-
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	-			D/E	1.5				
	_			D/E	1.5		PID=<1ppm		
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	-								-
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	-2 2.0	Bore discontinued at 2.0m. Limit of investigation	7.7.	-D/E-	-2.0-		PID=<1ppm		2
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RIG: Scout 1 (Traccess) DRILLER: S Kennedy LOGGED: M Harrison

CASING:

WATER OBSERVATIONS: No free groundwater observed

TYPE OF BORING: 100mm ϕ V-Bit Auger

REMARKS: Location coordinates are in MGA94 Zone 56 H. *Surface level interpolated from survey plan

SAMPLING & IN SITU TESTING LEGEND LEGEND PID Photo ionisation detector (ppm) PL(A) Point load axial test Is(50) (MPa) PL(D) Point load diametral test Is(50) (MPa) pp Pocket penetrometer (kPa) S Standard penetration test V Shear vane (kPa) Gas sample Piston sample Tube sample (x mm dia.) Water sample Water seep Water level A Auger sample B Bulk sample BLK Block sample G P U, W **Douglas Partners** Core drilling Disturbed sample Environmental sample CDE ₽ Geotechnics | Environment | Groundwater



Central Coast Council Proposed Gosford Regional Library 123A-125B Donnison Street, Gosford

LOCATION:

SURFACE LEVEL: 13.6 AHD* **EASTING:** 345950 **NORTHING:** 6300088 **DIP/AZIMUTH:** 90°/-- BORE No: 5 PROJECT No: 83343.00 DATE: 20/3/2018 SHEET 1 OF 1

							1: 90 /		SHEET I OF I
		Description	Jic		Sam		In Situ Testing	er.	Well
RL	Depth (m)	of Strata	Graphic Log	Type	Depth	Sample	Results & Comments	Water	Construction Details
	0.05 0.15	ASPHALT/SPRAYED SEAL: Black asphalt/sprayed seal, sub-angular gravels up to 20mm in size		D/E	0.1	0)	PID=<1ppm		-
6	· · ·	FILLING: Generally comprising grey sandy gravel filling (roadbase), gravel is sub-angular and up to 30mm in size, sand is fine to coarse grained, humid FILLING: Generally comprising yellow brown sand filling with some gravel, sand is fine to medium grained, gravel is sub-rounded to sub-angular and up to 30mm in size, humid		D/E	0.5		PID=<1ppm		-
	-1			D/E	1.0		PID=<1ppm		- -1 -
12		SANDY CLAY: Red/brown and slightly grey sandy clay, M <wp< td=""><td></td><td>D/E</td><td>1.5</td><td></td><td>PID=<1ppm</td><td></td><td>-</td></wp<>		D/E	1.5		PID=<1ppm		-
	-2			D/E	2.0		PID=<1ppm		-2
		- red/brown and grey at 2.3m							-
	2.5 -	Bore discontinued at 2.5m. Limit of investigation	<u> ·/ ·/</u>	-D/E-	—2.5—		PID=<1ppm		-
	- 3								- 3
- 0-									
									-

RIG: Scout 1 (Traccess) DRILLER: S Kennedy

LOGGED: M Harrison

CASING:

TYPE OF BORING: 100mm ϕ V-Bit Auger **WATER OBSERVATIONS:** No free groundwater observed

CLIENT:

PROJECT:

LOCATION:

Central Coast Council

Proposed Gosford Regional Library

123A-125B Donnison Street, Gosford

REMARKS: Location coordinates are in MGA94 Zone 56 H. *Surface level interpolated from survey plan

 SAMPLING & IN SITU TESTING LEGEND

 A
 Auger sample
 G
 Gas sample
 Ploto ionisation detector (ppm)

 B
 Buik sample
 Piston sample
 Ploto ionisation detector (ppm)

 BLK
 Biock sample
 P
 Ploto ionisation detector (ppm)

 C Core drilling
 V
 Tube sample (x mm dia.)
 PL(A) Point load axial test Is(50) (MPa)

 D
 Disturbed sample
 P
 Water sample
 Ploto ionisation detector (ppm)

 PL (A) Point load diametral test Is(50) (MPa)
 PL(D) Point load diametral test Is(50) (MPa)
 PL(D) Point load diametral test Is(50) (MPa)

 D
 Disturbed sample
 P
 Water sample
 P coket penetrometer (kPa)

 E
 Environmental sample
 Water level
 V
 Shear vane (kPa)

SURFACE LEVEL: 13.5 AHD* **EASTING:** 345920 **NORTHING:** 6300075 **DIP/AZIMUTH:** 90°/--

BORE No: 6 PROJECT No: 83343.00 DATE: 20/3/2018 SHEET 1 OF 1

_							H. 90 /		
		Description	ic		Sam		& In Situ Testing	5	Well
묍	Depth (m)	of	Graphic Log	Type	oth	ple	Results &	Water	Construction
	()	Strata	Ū	Ty	Depth	Sample	Results & Comments		Details
	0.03	ASPHALT/SPRAYED SEAL: Black asphalt/sprayed seal, / sub-angular gravels up to 20mm in size	\boxtimes	D/E	0.05		PID=<1ppm		
	0.13		ĎŇ	D/E	0.0				
	-	FILLING: Generally comprising grey sandy gravel filling (roadbase), gravel is sub-angular and up to 30mm in size, sand is fine to coarse grained, humid	\bigotimes	D/E	0.2		PID=<1ppm		
	•	FILLING: Generally comprising dark brown clayey silty	\bigotimes						
		sand with trace plastic and glass, humid (possibly	\bigotimes						-
-13-	- 0.5	 reworked site-won soils) SAND: Yellow/brown sand with trace clay, sand is fine to 							
	-	medium grained, humid							
	-			D/E	0.7		PID=<1ppm		-
	-								
	-								
	-1								-1
	-								
	-								
	-								
	-								
-12	-			D/E	1.5		PID=<1ppm		
	- 1.6	SANDY CLAY: Red/brown and slightly grey sandy clay,	7.7.7						
		M <wp< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></wp<>							
	-		1.						
	-								
	-2			D/E	2.0		PID=<1ppm		-2
									-
	-								
	-								
	-		././						
-5	- 2.5	Bore discontinued at 2.5m. Limit of investigation	12 . 2 .	-D/E-	-2.5-		PID=<1ppm-		
	-								
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RIG: Scout 1 (Traccess) DRILLER: S Kennedy

LOGGED: M Harrison

CASING:

TYPE OF BORING: 100mm ϕ V-Bit Auger **WATER OBSERVATIONS:** No free groundwater observed

CLIENT:

PROJECT:

LOCATION:

Central Coast Council

Proposed Gosford Regional Library

123A-125B Donnison Street, Gosford

REMARKS: Location coordinates are in MGA94 Zone 56 H. *Surface level interpolated from survey plan

 SAMPLING & IN SITU TESTING LEGEND

 A
 Auger sample
 G
 Gas sample
 Ploto ionisation detector (ppm)

 B
 Bulk sample
 Piston sample
 Ploto ionisation detector (ppm)

 BLK Block sample
 U
 Tube sample (x mm dia.)
 PL(A) Point load axial test Is(50) (MPa)

 C
 Core drilling
 W
 Water sample
 P
 Pocket penetrometer (kPa)

 D
 Disturbed sample
 V
 Water seepe
 S
 Standard penetration test

 E
 Environmental sample
 Water level
 V
 Shear vane (kPa)

Appendix F

Laboratory Certificates Chain of Custody Documentation



Envirolab Services Pty Ltd ABN 37 112 535 645 12 Ashley St Chatswood NSW 2067 ph 02 9910 6200 fax 02 9910 6201 customerservice@envirolab.com.au www.envirolab.com.au

CERTIFICATE OF ANALYSIS 187943

Client Details	
Client	Douglas Partners Tuggerah
Attention	Brent Kerry
Address	Unit 5, 3 Teamster Close, Tuggerah, NSW, 2259

Sample Details	
Your Reference	83343.01, PSI & Waste Class
Number of Samples	10 Soil, 1 Water
Date samples received	23/03/2018
Date completed instructions received	23/03/2018

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Please refer to the last page of this report for any comments relating to the results.

Report Details

 Date results requested by
 03/04/2018

 Date of Issue
 03/04/2018

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 Accredited for compliance with ISO/IEC 17025 - Testing. Tests not covered by NATA are denoted with *

Asbestos Approved By

Analysed by Asbestos Approved Identifier: Jessica Hie Authorised by Asbestos Approved Signatory: Paul Ching <u>Results Approved By</u> Dragana Tomas, Senior Chemist

Jeremy Faircloth, Organics Supervisor Long Pham, Team Leader, Metals Nick Sarlamis, Inorganics Supervisor Paul Ching, Senior Analyst Authorised By

Jacinta Hurst, Laboratory Manager



vTRH(C6-C10)/BTEXN in Soil						
Our Reference		187943-1	187943-2	187943-3	187943-5	187943-7
Your Reference	UNITS	1/0.5	2/0.1	2/0.5	4/0.25	5/0.5
Date Sampled		19/03/2018	19/03/2018	19/03/2018	20/03/2018	20/03/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	26/03/2018	26/03/2018	26/03/2018	26/03/2018	26/03/2018
Date analysed	-	26/03/2018	26/03/2018	26/03/2018	26/03/2018	26/03/2018
TRH C ₆ - C ₉	mg/kg	<25	<25	<25	<25	<25
TRH C6 - C10	mg/kg	<25	<25	<25	<25	<25
vTPH C ₆ - C ₁₀ less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	74	82	82	81	80

vTRH(C6-C10)/BTEXN in Soil		
Our Reference		187943-8
Your Reference	UNITS	6/0.2
Date Sampled		20/03/2018
Type of sample		Soil
Date extracted	-	26/03/2018
Date analysed	-	26/03/2018
TRH C ₆ - C ₉	mg/kg	<25
TRH C ₆ - C ₁₀	mg/kg	<25
vTPH C ₆ - C ₁₀ less BTEX (F1)	mg/kg	<25
Benzene	mg/kg	<0.2
Toluene	mg/kg	<0.5
Ethylbenzene	mg/kg	<1
m+p-xylene	mg/kg	<2
o-Xylene	mg/kg	<1
naphthalene	mg/kg	<1
Total +ve Xylenes	mg/kg	<1
Surrogate aaa-Trifluorotoluene	%	81

svTRH (C10-C40) in Soil						
Our Reference		187943-1	187943-2	187943-3	187943-5	187943-7
Your Reference	UNITS	1/0.5	2/0.1	2/0.5	4/0.25	5/0.5
Date Sampled		19/03/2018	19/03/2018	19/03/2018	20/03/2018	20/03/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	26/03/2018	26/03/2018	26/03/2018	26/03/2018	26/03/2018
Date analysed	-	26/03/2018	26/03/2018	26/03/2018	26/03/2018	26/03/2018
TRH C ₁₀ - C ₁₄	mg/kg	<50	<50	<50	<50	<50
TRH C ₁₅ - C ₂₈	mg/kg	<100	<100	<100	<100	<100
TRH C ₂₉ - C ₃₆	mg/kg	<100	<100	<100	<100	<100
TRH >C ₁₀ -C ₁₆	mg/kg	<50	<50	<50	<50	<50
TRH >C10 - C16 less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C ₁₆ -C ₃₄	mg/kg	<100	<100	<100	<100	<100
TRH >C ₃₄ -C ₄₀	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	97	96	96	98	97

svTRH (C10-C40) in Soil		
Our Reference		187943-8
Your Reference	UNITS	6/0.2
Date Sampled		20/03/2018
Type of sample		Soil
Date extracted	-	26/03/2018
Date analysed	-	26/03/2018
TRH C10 - C14	mg/kg	<50
TRH C15 - C28	mg/kg	<100
TRH C ₂₉ - C ₃₆	mg/kg	<100
TRH >C ₁₀ -C ₁₆	mg/kg	<50
TRH >C ₁₀ - C ₁₆ less Naphthalene (F2)	mg/kg	<50
TRH >C ₁₆ -C ₃₄	mg/kg	<100
TRH >C34 -C40	mg/kg	<100
Total +ve TRH (>C10-C40)	mg/kg	<50
Surrogate o-Terphenyl	%	96

PAHs in Soil						
Our Reference		187943-1	187943-2	187943-3	187943-5	187943-7
Your Reference	UNITS	1/0.5	2/0.1	2/0.5	4/0.25	5/0.5
Date Sampled		19/03/2018	19/03/2018	19/03/2018	20/03/2018	20/03/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	26/03/2018	26/03/2018	26/03/2018	26/03/2018	26/03/2018
Date analysed	-	26/03/2018	26/03/2018	26/03/2018	26/03/2018	26/03/2018
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	0.07	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	0.3	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	98	95	100	99	98

PAHs in Soil		
Our Reference		187943-8
Your Reference	UNITS	6/0.2
Date Sampled		20/03/2018
Type of sample		Soil
Date extracted	-	26/03/2018
Date analysed	-	26/03/2018
Naphthalene	mg/kg	<0.1
Acenaphthylene	mg/kg	<0.1
Acenaphthene	mg/kg	<0.1
Fluorene	mg/kg	<0.1
Phenanthrene	mg/kg	<0.1
Anthracene	mg/kg	<0.1
Fluoranthene	mg/kg	0.3
Pyrene	mg/kg	0.3
Benzo(a)anthracene	mg/kg	<0.1
Chrysene	mg/kg	0.2
Benzo(b,j+k)fluoranthene	mg/kg	0.3
Benzo(a)pyrene	mg/kg	0.1
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1
Benzo(g,h,i)perylene	mg/kg	0.1
Total +ve PAH's	mg/kg	1.3
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5
Surrogate p-Terphenyl-d14	%	95

Organochlorine Pesticides in soil						
Our Reference		187943-1	187943-2	187943-3	187943-4	187943-5
Your Reference	UNITS	1/0.5	2/0.1	2/0.5	2/1.0	4/0.25
Date Sampled		19/03/2018	19/03/2018	19/03/2018	19/03/2018	20/03/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	26/03/2018	26/03/2018	26/03/2018	26/03/2018	26/03/2018
Date analysed	-	26/03/2018	26/03/2018	26/03/2018	26/03/2018	26/03/2018
НСВ	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve DDT+DDD+DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	102	97	108	102	107

Organochlorine Pesticides in soil					
Our Reference		187943-6	187943-7	187943-8	187943-9
Your Reference	UNITS	4/0.5	5/0.5	6/0.2	6/0.7
Date Sampled		20/03/2018	20/03/2018	20/03/2018	20/03/2018
Type of sample		Soil	Soil	Soil	Soil
Date extracted	-	26/03/2018	26/03/2018	26/03/2018	26/03/2018
Date analysed	-	26/03/2018	26/03/2018	26/03/2018	26/03/2018
НСВ	mg/kg	<0.1	<0.1	<0.1	<0.1
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1
Total +ve DDT+DDD+DDE	mg/kg	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	111	92	106	106

PCBs in Soil						
Our Reference		187943-1	187943-2	187943-3	187943-5	187943-7
Your Reference	UNITS	1/0.5	2/0.1	2/0.5	4/0.25	5/0.5
Date Sampled		19/03/2018	19/03/2018	19/03/2018	20/03/2018	20/03/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	26/03/2018	26/03/2018	26/03/2018	26/03/2018	26/03/2018
Date analysed	-	26/03/2018	26/03/2018	26/03/2018	26/03/2018	26/03/2018
Aroclor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	102	97	108	107	92

PCBs in Soil		
Our Reference		187943-8
Your Reference	UNITS	6/0.2
Date Sampled		20/03/2018
Type of sample		Soil
Date extracted	-	26/03/2018
Date analysed	-	26/03/2018
Aroclor 1016	mg/kg	<0.1
Aroclor 1221	mg/kg	<0.1
Aroclor 1232	mg/kg	<0.1
Aroclor 1242	mg/kg	<0.1
Aroclor 1248	mg/kg	<0.1
Aroclor 1254	mg/kg	<0.1
Aroclor 1260	mg/kg	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1
Surrogate TCLMX	%	106

Acid Extractable metals in soil						
Our Reference		187943-1	187943-2	187943-3	187943-4	187943-5
Your Reference	UNITS	1/0.5	2/0.1	2/0.5	2/1.0	4/0.25
Date Sampled		19/03/2018	19/03/2018	19/03/2018	19/03/2018	20/03/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	26/03/2018	26/03/2018	26/03/2018	26/03/2018	26/03/2018
Date analysed	-	27/03/2018	27/03/2018	27/03/2018	27/03/2018	27/03/2018
Arsenic	mg/kg	<4	<4	<4	<4	<4
Cadmium	mg/kg	<0.4	<0.4	0.7	<0.4	<0.4
Chromium	mg/kg	3	14	12	4	25
Copper	mg/kg	<1	71	46	<1	20
Lead	mg/kg	8	5	380	8	7
Mercury	mg/kg	<0.1	<0.1	0.8	<0.1	<0.1
Nickel	mg/kg	<1	52	8	<1	21
Zinc	mg/kg	15	31	140	6	11

Acid Extractable metals in soil						
Our Reference		187943-6	187943-7	187943-8	187943-9	187943-10
Your Reference	UNITS	4/0.5	5/0.5	6/0.2	6/0.7	QA1
Date Sampled		20/03/2018	20/03/2018	20/03/2018	20/03/2018	20/03/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	26/03/2018	26/03/2018	26/03/2018	26/03/2018	26/03/2018
Date analysed	-	27/03/2018	27/03/2018	27/03/2018	27/03/2018	27/03/2018
Arsenic	mg/kg	<4	<4	6	<4	<4
Cadmium	mg/kg	<0.4	<0.4	5.5	<0.4	<0.4
Chromium	mg/kg	19	8	10	5	5
Copper	mg/kg	5	6	79	2	8
Lead	mg/kg	10	5	290	7	7
Mercury	mg/kg	<0.1	<0.1	5.0	<0.1	<0.1
Nickel	mg/kg	5	6	14	1	2
Zinc	mg/kg	5	12	4,600	19	25

Misc Soil - Inorg						
Our Reference		187943-1	187943-2	187943-3	187943-5	187943-7
Your Reference	UNITS	1/0.5	2/0.1	2/0.5	4/0.25	5/0.5
Date Sampled		19/03/2018	19/03/2018	19/03/2018	20/03/2018	20/03/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	26/03/2018	26/03/2018	26/03/2018	26/03/2018	26/03/2018
Date analysed	-	26/03/2018	26/03/2018	26/03/2018	26/03/2018	26/03/2018
Total Phenolics (as Phenol)	mg/kg	<5	<5	<5	<5	<5

Misc Soil - Inorg		
Our Reference		187943-8
Your Reference	UNITS	6/0.2
Date Sampled		20/03/2018
Type of sample		Soil
Date prepared	-	26/03/2018
Date analysed	-	26/03/2018
Total Phenolics (as Phenol)	mg/kg	<5

Moisture						
Our Reference		187943-1	187943-2	187943-3	187943-4	187943-5
Your Reference	UNITS	1/0.5	2/0.1	2/0.5	2/1.0	4/0.25
Date Sampled		19/03/2018	19/03/2018	19/03/2018	19/03/2018	20/03/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	26/03/2018	26/03/2018	26/03/2018	26/03/2018	26/03/2018
Date analysed	-	27/03/2018	27/03/2018	27/03/2018	27/03/2018	27/03/2018
Moisture	%	9.7	8.0	13	8.1	18
Moisture						
Our Reference		187943-6	187943-7	187943-8	187943-9	187943-10
Your Reference	UNITS	4/0.5	5/0.5	6/0.2	6/0.7	QA1
Date Sampled		20/03/2018	20/03/2018	20/03/2018	20/03/2018	20/03/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	26/03/2018	26/03/2018	26/03/2018	26/03/2018	26/03/2018
Date analysed	-	27/03/2018	27/03/2018	27/03/2018	27/03/2018	27/03/2018
Moisture	%	20	6.7	15	7.5	7.4

Asbestos ID - soils						
Our Reference		187943-1	187943-2	187943-3	187943-5	187943-7
Your Reference	UNITS	1/0.5	2/0.1	2/0.5	4/0.25	5/0.5
Date Sampled		19/03/2018	19/03/2018	19/03/2018	20/03/2018	20/03/2018
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	03/04/2018	03/04/2018	03/04/2018	03/04/2018	03/04/2018
Sample mass tested	g	Approx. 30g	Approx. 40g	Approx. 30g	Approx. 30g	Approx. 30g
Sample Description	-	Brown coarse- grained soil & rocks				
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres				
		detected	detected	detected	detected	detected
Trace Analysis	-	No asbestos detected				

Asbestos ID - soils		
Our Reference		187943-8
Your Reference	UNITS	6/0.2
Date Sampled		20/03/2018
Type of sample		Soil
Date analysed	-	03/04/2018
Sample mass tested	g	28.6g
Sample Description	-	Brown coarse- grained soil & rocks
Asbestos ID in soil	-	Chrysotile asbestos detected Organic fibres
		detected
Trace Analysis	-	No asbestos detected

vTRH(C6-C10)/BTEXN in Water		
Our Reference		187943-11
Your Reference	UNITS	RB1
Date Sampled		20/03/2018
Type of sample		Water
Date extracted	-	29/03/2018
Date analysed	-	29/03/2018
TRH C ₆ - C ₉	µg/L	<10
TRH C ₆ - C ₁₀	µg/L	<10
TRH C_6 - C_{10} less BTEX (F1)	µg/L	<10
Benzene	µg/L	<1
Toluene	µg/L	<1
Ethylbenzene	µg/L	<1
m+p-xylene	µg/L	<2
o-xylene	µg/L	<1
Naphthalene	µg/L	<1
Surrogate Dibromofluoromethane	%	115
Surrogate toluene-d8	%	116
Surrogate 4-BFB	%	106

svTRH (C10-C40) in Water		
Our Reference		187943-11
Your Reference	UNITS	RB1
Date Sampled		20/03/2018
Type of sample		Water
Date extracted	-	26/03/2018
Date analysed	-	28/03/2018
TRH C ₁₀ - C ₁₄	µg/L	<50
TRH C ₁₅ - C ₂₈	μg/L	180
TRH C ₂₉ - C ₃₆	μg/L	<100
TRH >C ₁₀ - C ₁₆	µg/L	160
TRH >C10 - C16 less Naphthalene (F2)	µg/L	160
TRH >C ₁₆ - C ₃₄	µg/L	<100
TRH >C ₃₄ - C ₄₀	µg/L	<100
Surrogate o-Terphenyl	%	108

Metals in Water - Dissolved		
Our Reference		187943-11
Your Reference	UNITS	RB1
Date Sampled		20/03/2018
Type of sample		Water
Date digested	-	26/03/2018
Date analysed	-	28/03/2018
Arsenic - Dissolved	mg/L	<0.05
Cadmium - Dissolved	mg/L	<0.01
Chromium - Dissolved	mg/L	<0.01
Copper - Dissolved	mg/L	<0.01
Lead - Dissolved	mg/L	<0.03
Mercury - Dissolved	mg/L	<0.0005
Nickel - Dissolved	mg/L	<0.02
Zinc - Dissolved	mg/L	<0.02

Method ID	Methodology Summary
ASB-001	Asbestos ID - Qualitative identification of asbestos in bulk samples using Polarised Light Microscopy and Dispersion Staining Techniques including Synthetic Mineral Fibre and Organic Fibre as per Australian Standard 4964-2004.
Inorg-008	Moisture content determined by heating at 105+/-5 °C for a minimum of 12 hours.
Inorg-031	Total Phenolics by segmented flow analyser (in line distillation with colourimetric finish). Solids are extracted in a caustic media prior to analysis.
Metals-020	Determination of various metals by ICP-AES.
Metals-021	Determination of Mercury by Cold Vapour AAS.
Org-003	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.
Org-003	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID.
	F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.
	Note, the Total +ve TRH PQL is reflective of the lowest individual PQL and is therefore "Total +ve TRH" is simply a sum of the positive individual TRH fractions (>C10-C40).
Org-005	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC with dual ECD's.
Org-005	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC with dual ECD's.
	Note, the Total +ve reported DDD+DDE+DDT PQL is reflective of the lowest individual PQL and is therefore simply a sum of the positive individually report DDD+DDE+DDT.
Org-006	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD.
Org-006	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD. Note, the Total +ve PCBs PQL is reflective of the lowest individual PQL and is therefore" Total +ve PCBs" is simply a sum of the positive individual PCBs.

Method	ID Methodology Summary
Org-0	 Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013. For soil results:- 'EQ PQL'values are assuming all contributing PAHs reported as <pql actually="" and="" approach="" are="" at="" be="" calculation="" can="" conservative="" contribute="" false="" give="" given="" is="" li="" may="" most="" not="" pahs="" positive="" pql.="" present.<="" teq="" teqs="" that="" the="" this="" to=""> 'EQ zero'values are assuming all contributing PAHs reported as <pql and="" approach="" are="" below="" but="" calculation="" conservative="" contribute="" false="" is="" least="" li="" more="" negative="" pahs="" pql.<="" present="" susceptible="" teq="" teqs="" that="" the="" this="" to="" when="" zero.=""> 'EQ half PQL'values are assuming all contributing PAHs reported as <pql "total="" +ve="" a="" above.="" and="" approaches="" are="" between="" conservative="" half="" hence="" individual="" is="" least="" li="" lowest="" mid-point="" most="" note,="" of="" pahs="" pahs"="" pahs.<="" positive="" pql="" pql.="" reflective="" simply="" stipulated="" sum="" the="" therefore="" total=""> </pql></pql></pql>
Org-0	3 Water samples are analysed directly by purge and trap GC-MS.
Org-0	4 Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.
Org-0	6 Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.
Org-0	6 Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater. Note, the Total +ve Xylene PQL is reflective of the lowest individual PQL and is therefore "Total +ve Xylenes" is simply a sum of the positive individual Xylenes.

QUALITY CONT	QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil					Duplicate Spike R				covery %
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-11	[NT]
Date extracted	-			26/03/2018	[NT]		[NT]	[NT]	26/03/2018	
Date analysed	-			26/03/2018	[NT]		[NT]	[NT]	26/03/2018	
TRH C ₆ - C ₉	mg/kg	25	Org-016	<25	[NT]		[NT]	[NT]	103	
TRH C ₆ - C ₁₀	mg/kg	25	Org-016	<25	[NT]		[NT]	[NT]	103	
Benzene	mg/kg	0.2	Org-016	<0.2	[NT]		[NT]	[NT]	110	
Toluene	mg/kg	0.5	Org-016	<0.5	[NT]		[NT]	[NT]	106	
Ethylbenzene	mg/kg	1	Org-016	<1	[NT]		[NT]	[NT]	104	
m+p-xylene	mg/kg	2	Org-016	<2	[NT]		[NT]	[NT]	97	
o-Xylene	mg/kg	1	Org-016	<1	[NT]		[NT]	[NT]	109	
naphthalene	mg/kg	1	Org-014	<1	[NT]		[NT]	[NT]	[NT]	
Surrogate aaa-Trifluorotoluene	%		Org-016	86	[NT]		[NT]	[NT]	77	

QUALITY CO	QUALITY CONTROL: svTRH (C10-C40) in Soil					Duplicate Spike Recov				covery %
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-11	[NT]
Date extracted	-			26/03/2018	[NT]		[NT]	[NT]	26/03/2018	
Date analysed	-			26/03/2018	[NT]		[NT]	[NT]	26/03/2018	
TRH C ₁₀ - C ₁₄	mg/kg	50	Org-003	<50	[NT]		[NT]	[NT]	130	
TRH C ₁₅ - C ₂₈	mg/kg	100	Org-003	<100	[NT]		[NT]	[NT]	110	
TRH C ₂₉ - C ₃₆	mg/kg	100	Org-003	<100	[NT]		[NT]	[NT]	92	
TRH >C ₁₀ -C ₁₆	mg/kg	50	Org-003	<50	[NT]		[NT]	[NT]	130	
TRH >C ₁₆ -C ₃₄	mg/kg	100	Org-003	<100	[NT]		[NT]	[NT]	110	
TRH >C ₃₄ -C ₄₀	mg/kg	100	Org-003	<100	[NT]		[NT]	[NT]	92	
Surrogate o-Terphenyl	%		Org-003	74	[NT]		[NT]	[NT]	105	

QUALITY CONTROL: PAHs in Soil						Du	Duplicate		Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-11	[NT]
Date extracted	-			26/03/2018	[NT]		[NT]	[NT]	26/03/2018	
Date analysed	-			26/03/2018	[NT]		[NT]	[NT]	26/03/2018	
Naphthalene	mg/kg	0.1	Org-012	<0.1	[NT]		[NT]	[NT]	106	
Acenaphthylene	mg/kg	0.1	Org-012	<0.1	[NT]		[NT]	[NT]	[NT]	
Acenaphthene	mg/kg	0.1	Org-012	<0.1	[NT]		[NT]	[NT]	[NT]	
Fluorene	mg/kg	0.1	Org-012	<0.1	[NT]		[NT]	[NT]	104	
Phenanthrene	mg/kg	0.1	Org-012	<0.1	[NT]		[NT]	[NT]	107	
Anthracene	mg/kg	0.1	Org-012	<0.1	[NT]		[NT]	[NT]	[NT]	
Fluoranthene	mg/kg	0.1	Org-012	<0.1	[NT]		[NT]	[NT]	100	
Pyrene	mg/kg	0.1	Org-012	<0.1	[NT]		[NT]	[NT]	103	
Benzo(a)anthracene	mg/kg	0.1	Org-012	<0.1	[NT]		[NT]	[NT]	[NT]	
Chrysene	mg/kg	0.1	Org-012	<0.1	[NT]		[NT]	[NT]	107	
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-012	<0.2	[NT]		[NT]	[NT]	[NT]	
Benzo(a)pyrene	mg/kg	0.05	Org-012	<0.05	[NT]		[NT]	[NT]	108	
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-012	<0.1	[NT]		[NT]	[NT]	[NT]	
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-012	<0.1	[NT]		[NT]	[NT]	[NT]	
Benzo(g,h,i)perylene	mg/kg	0.1	Org-012	<0.1	[NT]		[NT]	[NT]	[NT]	
Surrogate p-Terphenyl-d14	%		Org-012	108	[NT]		[NT]	[NT]	126	

QUALITY CONTROL: Organochlorine Pesticides in soil							plicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-11	[NT]	
Date extracted	-			26/03/2018	[NT]		[NT]	[NT]	26/03/2018		
Date analysed	-			26/03/2018	[NT]		[NT]	[NT]	26/03/2018		
НСВ	mg/kg	0.1	Org-005	<0.1	[NT]		[NT]	[NT]	[NT]		
alpha-BHC	mg/kg	0.1	Org-005	<0.1	[NT]		[NT]	[NT]	101		
gamma-BHC	mg/kg	0.1	Org-005	<0.1	[NT]		[NT]	[NT]	[NT]		
beta-BHC	mg/kg	0.1	Org-005	<0.1	[NT]		[NT]	[NT]	90		
Heptachlor	mg/kg	0.1	Org-005	<0.1	[NT]		[NT]	[NT]	93		
delta-BHC	mg/kg	0.1	Org-005	<0.1	[NT]		[NT]	[NT]	[NT]		
Aldrin	mg/kg	0.1	Org-005	<0.1	[NT]		[NT]	[NT]	81		
Heptachlor Epoxide	mg/kg	0.1	Org-005	<0.1	[NT]		[NT]	[NT]	85		
gamma-Chlordane	mg/kg	0.1	Org-005	<0.1	[NT]		[NT]	[NT]	[NT]		
alpha-chlordane	mg/kg	0.1	Org-005	<0.1	[NT]		[NT]	[NT]	[NT]		
Endosulfan I	mg/kg	0.1	Org-005	<0.1	[NT]		[NT]	[NT]	[NT]		
pp-DDE	mg/kg	0.1	Org-005	<0.1	[NT]		[NT]	[NT]	90		
Dieldrin	mg/kg	0.1	Org-005	<0.1	[NT]		[NT]	[NT]	104		
Endrin	mg/kg	0.1	Org-005	<0.1	[NT]		[NT]	[NT]	99		
pp-DDD	mg/kg	0.1	Org-005	<0.1	[NT]		[NT]	[NT]	80		
Endosulfan II	mg/kg	0.1	Org-005	<0.1	[NT]		[NT]	[NT]	[NT]		
pp-DDT	mg/kg	0.1	Org-005	<0.1	[NT]		[NT]	[NT]	[NT]		
Endrin Aldehyde	mg/kg	0.1	Org-005	<0.1	[NT]		[NT]	[NT]	[NT]		
Endosulfan Sulphate	mg/kg	0.1	Org-005	<0.1	[NT]		[NT]	[NT]	83		
Methoxychlor	mg/kg	0.1	Org-005	<0.1	[NT]		[NT]	[NT]	[NT]		
Surrogate TCMX	%		Org-005	119	[NT]		[NT]	[NT]	116		

QUALIT		Du		Spike Recovery %						
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-11	[NT]
Date extracted	-			26/03/2018	[NT]		[NT]	[NT]	26/03/2018	
Date analysed	-			26/03/2018	[NT]		[NT]	[NT]	26/03/2018	
Aroclor 1016	mg/kg	0.1	Org-006	<0.1	[NT]		[NT]	[NT]	[NT]	
Aroclor 1221	mg/kg	0.1	Org-006	<0.1	[NT]		[NT]	[NT]	[NT]	
Aroclor 1232	mg/kg	0.1	Org-006	<0.1	[NT]		[NT]	[NT]	[NT]	
Aroclor 1242	mg/kg	0.1	Org-006	<0.1	[NT]		[NT]	[NT]	[NT]	
Aroclor 1248	mg/kg	0.1	Org-006	<0.1	[NT]		[NT]	[NT]	[NT]	
Aroclor 1254	mg/kg	0.1	Org-006	<0.1	[NT]		[NT]	[NT]	100	
Aroclor 1260	mg/kg	0.1	Org-006	<0.1	[NT]		[NT]	[NT]	[NT]	
Surrogate TCLMX	%		Org-006	119	[NT]		[NT]	[NT]	108	

QUALITY CONT		Du		Spike Recovery %						
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-11	[NT]
Date prepared	-			26/03/2018	6	26/03/2018	26/03/2018		26/03/2018	
Date analysed	-			27/03/2018	6	27/03/2018	27/03/2018		27/03/2018	
Arsenic	mg/kg	4	Metals-020	<4	6	<4	<4	0	108	
Cadmium	mg/kg	0.4	Metals-020	<0.4	6	<0.4	<0.4	0	99	
Chromium	mg/kg	1	Metals-020	<1	6	19	20	5	108	
Copper	mg/kg	1	Metals-020	<1	6	5	8	46	110	
Lead	mg/kg	1	Metals-020	<1	6	10	9	11	107	
Mercury	mg/kg	0.1	Metals-021	<0.1	6	<0.1	<0.1	0	78	
Nickel	mg/kg	1	Metals-020	<1	6	5	8	46	107	
Zinc	mg/kg	1	Metals-020	<1	6	5	7	33	100	[NT]

QUALITY CONTROL: Acid Extractable metals in soil						Du		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	8	26/03/2018	26/03/2018			[NT]
Date analysed	-			[NT]	8	27/03/2018	27/03/2018			[NT]
Arsenic	mg/kg	4	Metals-020	[NT]	8	6	7	15		[NT]
Cadmium	mg/kg	0.4	Metals-020	[NT]	8	5.5	6.3	14		[NT]
Chromium	mg/kg	1	Metals-020	[NT]	8	10	11	10		[NT]
Copper	mg/kg	1	Metals-020	[NT]	8	79	110	33		[NT]
Lead	mg/kg	1	Metals-020	[NT]	8	290	230	23		[NT]
Mercury	mg/kg	0.1	Metals-021	[NT]	8	5.0	5.2	4		[NT]
Nickel	mg/kg	1	Metals-020	[NT]	8	14	14	0		[NT]
Zinc	mg/kg	1	Metals-020	[NT]	8	4600	4300	7	[NT]	[NT]
QUALITY CONTROL: Misc Soil - Inorg						Du	Spike Recovery %			
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Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-11	[NT]
Date prepared	-			26/03/2018	[NT]		[NT]	[NT]	26/03/2018	[NT]
Date analysed	-			26/03/2018	[NT]		[NT]	[NT]	26/03/2018	[NT]
Total Phenolics (as Phenol)	mg/kg	5	Inorg-031	<5	[NT]	[NT]	[NT]	[NT]	96	[NT]

QUALITY CONTR	ROL: vTRH((BTEXN in Water			Du	plicate	Spike Recovery %			
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	[NT]
Date extracted	-			29/03/2018	[NT]		[NT]	[NT]	29/03/2018	
Date analysed	-			29/03/2018	[NT]		[NT]	[NT]	29/03/2018	
TRH C ₆ - C ₉	µg/L	10	Org-016	<10	[NT]		[NT]	[NT]	105	
TRH C ₆ - C ₁₀	µg/L	10	Org-016	<10	[NT]		[NT]	[NT]	105	
Benzene	µg/L	1	Org-016	<1	[NT]		[NT]	[NT]	101	
Toluene	µg/L	1	Org-016	<1	[NT]		[NT]	[NT]	105	
Ethylbenzene	µg/L	1	Org-016	<1	[NT]		[NT]	[NT]	106	
m+p-xylene	µg/L	2	Org-016	<2	[NT]		[NT]	[NT]	106	
o-xylene	µg/L	1	Org-016	<1	[NT]		[NT]	[NT]	107	
Naphthalene	µg/L	1	Org-013	<1	[NT]		[NT]	[NT]	[NT]	
Surrogate Dibromofluoromethane	%		Org-016	116	[NT]		[NT]	[NT]	115	
Surrogate toluene-d8	%		Org-016	115	[NT]		[NT]	[NT]	121	
Surrogate 4-BFB	%		Org-016	103	[NT]		[NT]	[NT]	111	

QUALITY CON		Du	plicate		Spike Re	covery %				
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			28/03/2018	[NT]		[NT]	[NT]	28/03/2018	
Date analysed	-			28/03/2018	[NT]		[NT]	[NT]	28/03/2018	
TRH C ₁₀ - C ₁₄	µg/L	50	Org-003	<50	[NT]		[NT]	[NT]	130	
TRH C ₁₅ - C ₂₈	µg/L	100	Org-003	<100	[NT]		[NT]	[NT]	132	
TRH C ₂₉ - C ₃₆	µg/L	100	Org-003	<100	[NT]		[NT]	[NT]	121	
TRH >C ₁₀ - C ₁₆	µg/L	50	Org-003	<50	[NT]		[NT]	[NT]	130	
TRH >C ₁₆ - C ₃₄	µg/L	100	Org-003	<100	[NT]		[NT]	[NT]	132	
TRH >C ₃₄ - C ₄₀	µg/L	100	Org-003	<100	[NT]		[NT]	[NT]	121	
Surrogate o-Terphenyl	%		Org-003	81	[NT]		[NT]	[NT]	112	

QUALITY CON	Duplicate				Spike Recovery %					
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date digested	-			26/03/2018	[NT]		[NT]	[NT]	26/03/2018	
Date analysed	-			28/03/2018	[NT]		[NT]	[NT]	28/03/2018	
Arsenic - Dissolved	mg/L	0.05	Metals-020	<0.05	[NT]		[NT]	[NT]	102	
Cadmium - Dissolved	mg/L	0.01	Metals-020	<0.01	[NT]		[NT]	[NT]	103	
Chromium - Dissolved	mg/L	0.01	Metals-020	<0.01	[NT]		[NT]	[NT]	105	
Copper - Dissolved	mg/L	0.01	Metals-020	<0.01	[NT]		[NT]	[NT]	105	
Lead - Dissolved	mg/L	0.03	Metals-020	<0.03	[NT]		[NT]	[NT]	105	
Mercury - Dissolved	mg/L	0.0005	Metals-021	<0.0005	[NT]		[NT]	[NT]	94	
Nickel - Dissolved	mg/L	0.02	Metals-020	<0.02	[NT]		[NT]	[NT]	110	
Zinc - Dissolved	mg/L	0.02	Metals-020	<0.02	[NT]		[NT]	[NT]	104	

Result Definiti	esult Definitions						
NT	Not tested						
NA	Test not required						
INS	Insufficient sample for this test						
PQL	Practical Quantitation Limit						
<	Less than						
>	Greater than						
RPD	Relative Percent Difference						
LCS	Laboratory Control Sample						
NS	Not specified						
NEPM	National Environmental Protection Measure						
NR	Not Reported						

Quality Contro	Quality Control Definitions								
Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.								
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.								
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.								
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.								
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.								
Australian Drinking	Water Guidelines recommend that Thermotolerant Coliform. Faecal Enterococci. & E.Coli levels are less than								

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: <5xPQL - any RPD is acceptable; >5xPQL - 0-50% RPD is acceptable.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Measurement Uncertainty estimates are available for most tests upon request.

Report Comments

svTRH (C10-C40) in Water - The positive result in the rinsate sample is due to a single peak with no hydrocarbon profile, consistent with plastic containers

Asbestos: A portion of the supplied sample was sub-sampled for asbestos analysis according to Envirolab procedures. We cannot guarantee that this sub-sample is indicative of the entire sample. Envirolab recommends supplying 40-50g of sample in its own container.

Note: Samples 187943- 1-3 & 5-8 were sub-sampled from jars provided by the client.

Sample 187943-8; Chrysotile asbestos identified in matted material, it is estimated to be 0.13g/kg in 28.60g of soil (i.e. > reporting limit for the method of 0.1g/kg).



CHAIN OF CUSTODY DESPATCH SHEET

Project No:					Suburb		Gosford			To: Envirolab Services				
					Number				Attn: Aileen					
Project Manage					Sample	ər:	MJH			Attn:		<u>en</u>		
Emails:				ners.com.al						Phone:				
Date Required.			24 nours		ours C	72 hou		Standard		Email:				
Prior Storage:	Esky	y Nriag	ge 🗆 Sh			ples contai	in 'potential	HBW?	Yes 🛛	No 🗹	(If YES, the	en handle, tr	ansport and	d store in accordance with FPM HAZ
	1 '	pled	Sample Type	Туре					Analytes	;	 			
Sample ID	Lab ID	Date Sampled	S - soil W - water	G - glass P - plastic	Heavy Metals	OCP/OPP PCB	TRH and BTEX	РАН	Total Phenols	Asbestos 500 ml	Combo#7	Combo#7A	OCP	Notes/preservation
1/0.5	Γ <u></u>	19/03/18	s	0				1			1	X		
2/0.1	2	19/03/18	s	G								x		
2/0.5	3	19/03/18	s	G								X		
2/1.0	4	19/03/18	S	G	x								X	
-4/0.25	5	20/03/18	S	G								X		
4/0.5	Q	20/03/18	S	G	Х								<u>x</u>	
5/0.5	イ	20/03/18	S	G			<u> </u>	<u> </u>				x		
6/0.2	8	20/03/18	S	G			!	<u> </u>	_		Ĺ	X		Envirolat Sarvines
6/0.7	٩	20/03/18	S	G	x		'	L			L	ر ۱	x	ETIVIROLAB 12 Ashtey St Chatswood NSW 2357
QA1	0	20/03/18	S	G	X		<u>ا</u>		<u> </u>	<u> </u>	ļ			Ph: 1021 5511 6230 Job No: 187943
RB1	11	20/03/18	S	G	x		x	L		!	L			Date Received: 23/3/2018
	<u> </u>	<u> </u>						L						Time Received: 10 30
		'									<u> </u>			Received by: Temp: Cool/Ambient R_
		<u>[</u> '				— —	'		 	↓ !	 		+	Cooling: Ice/Kepack C
PQL (S) mg/kg				<u>+</u>	<u> </u>	 	<u> </u> '	¦		 		ANZEC	C PQLs	req'd for all water analytes
PQL = practical Metals to Analy	d quantit				t to Labor	atory Met	hod Deter	tion Limi	it	- Lab Re	eport/Re	ference N		
Total number o					inquished	d by:	BJK	Transpr	orted to la	aboratory	by:		<u>.</u>	
Send Results to		Douglas Parti			Iress Tug	jgerah						Phone:		Fax:
Signed:	RI	Time		Received b	Jy:		Raz				Date & T	fime: `	23312	05.01 310

Appendix G

Quality Assurance / Quality Control



APPENDIX G – QA/QC Procedures and Results

G1. Quality Assurance and Quality Control

The investigation has been devised broadly in accordance with the seven step data quality objective (DQO) process which is provided in Appendix B, Schedule B2 of the National Environment Protection (Assessment of Site Contamination) Measure 1999 as amended 2013 (NEPC 2013 – Ref 3). The DQO process is outlined as follows:

- Stating the Problem;
- Identifying the Decision;
- Identifying Inputs to the Decision;
- Defining the Boundary of the Assessment;
- Developing a Decision Rule;
- Specifying Acceptable Limits on Decision Errors; and
- Optimising the Design for Obtaining Data.

The DQOs have been addressed within the report as shown in Table G1.

Table G1: D	ata Quality	Objectives
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Data Quality Objective	Report Section Where Addressed
State the Problem	S1 Introduction
Identify the Decision	S12 Discussion of Results
	S13 Conclusions and Recommendations
	S1 Introduction
	S3 Physical Setting
	S4 Summary of Site History
Identify Inputs to the Decision	S5 Site Walkover
	S6 Preliminary Conceptual Site Model
	S9 Site Assessment Criteria
	S10 Field Work
	S11 Laboratory Testing
Define the Boundary of the Assessment	S1 Introduction
Define the boundary of the Assessment	Drawing 1 - Appendix B
Develop a Decision Rule	S9 Site Assessment Criteria
	S10 Field Work
Specify Acceptable Limits on Decision Errors	S11 Laboratory Testing
	Quality Assurance / Quality Control - Appendix G
	S2 Scope of Works
Optimise the Design for Obtaining Data	S10 Field Work
	Quality Assurance / Quality Control



G2. Field and Laboratory Quality Control

The field and laboratory QC procedures and results are summarised in the following Table G2. Reference should be made to the field work and analysis procedures in Section 9 and the laboratory results certificates in Appendix F for further details.

Item	Evaluation / Acceptance Criteria	Achievement
Analytical laboratories used	NATA accreditation	yes
Holding times	Various based on type of analysis	yes
Intra-laboratory replicates	5% of primary samples; <50% RPD (>5 x PQL)	yes ¹
Rinsates	1 per sampling event; <pql< td=""><td>yes</td></pql<>	yes
Laboratory / Reagent Blanks	1 per batch; <pql< td=""><td>yes</td></pql<>	yes
Matrix Spikes	1 per lab batch; 70-130% recovery (inorganics); 60- 140% recovery (organics)	yes
Surrogate Spikes	All organics analysis; 70-130% recovery (inorganics); 60-140% recovery (organics)	yes
Control Samples	1 per lab batch; 70-130% recovery (inorganics); 60- 140% recovery (organics)	yes

 Table G2:
 Field and Laboratory QC

NOTE: 1 qualitative assessment of RPD results overall. A single minor exception was identified for the 6/0.7-QA1 (Cu) field intralaboratory duplicate result, which reported an RPD of 120%; however, this was considered to be acceptable due to the relatively low absolute concentration difference.

In summary, the QC data is determined to be of sufficient quality to be considered acceptable for the assessment.

G3. Data Quality Indicators

The reliability of field procedures and analytical results was assessed against the following data quality indicators (DQIs):

- Completeness a measure of the amount of usable data from a data collection activity;
- Comparability the confidence (qualitative) that data may be considered to be equivalent for each sampling and analytical event;
- Representativeness the confidence (qualitative) of data representativeness of media present on-site;
- Precision a measure of variability or reproducibility of data; and
- Accuracy a measure of closeness of the data to the 'true' value.

The DQIs were assessed as outlined in the following Table G3.



Table G3: Data Quality Indicators

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Data Quality Indicator	Method(s) of Achievement
Completeness	Planned broad-spaced systematic and selected target locations sampled. Locations were limited to accessible areas that were clear of in-ground services ;
	Preparation of field logs, sample location plan and chain of custody (COC) records;
	Laboratory sample receipt information received confirming receipt of samples intact and appropriateness of the chain of custody;
	Samples analysed for contaminants of potential concern (COPC) identified in the Conceptual Site Model (CSM);
	Completion of COC documentation;
	NATA endorsed laboratory certificates provided by the laboratory;
	Satisfactory frequency and results for field and laboratory QC samples as discussed in Section G2.
Comparability	Using appropriate techniques for sample recovery, storage and transportation, which were the same for the duration of the project;
	Works undertaken by appropriately experienced and trained DP environmental scientist / engineer / geologist;
	Use of a NATA registered laboratory,
	Satisfactory results for field and laboratory QC samples.
Representativeness	Target media sampled;
	Spatial and temporal distribution of sample locations;
	Sample numbers recovered and analysed are considered to be representative of the target media and complying with DQOs;
	Samples were extracted and analysed within holding times;
	Samples were analysed in accordance with the analysis request.
Precision	Acceptable RPD between the original sample and the replicate;
	Satisfactory results for all other field and laboratory QC samples.
Accuracy	Satisfactory results for all field and laboratory QC samples.

Based on the above, it is considered that the DQIs have been complied with. As such, it is concluded that the field and laboratory test data obtained are reliable and useable for this assessment.