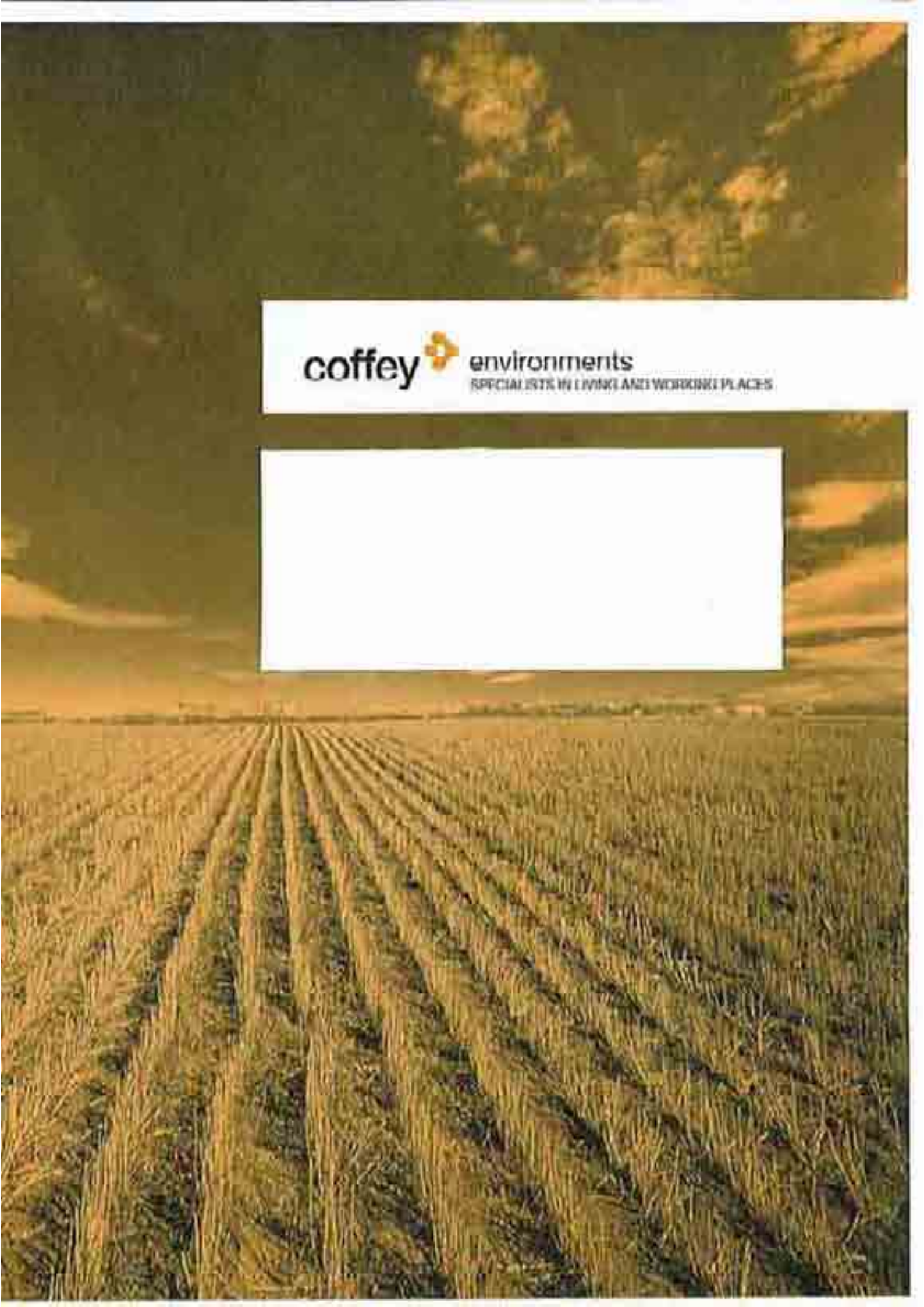




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SPECIALISTS IN LIVING AND WORKING PLACES

**CONTAMINATION ASSESSMENT
SYDNEY ADVENTIST HOSPITAL
185 FOX VALLEY ROAD
WAHROONGA NSW**

Prepared for:

Taylor Thomson Whitting
Level 3, 18 Chandee Street
ST LEONARDS, NSW, 2065

Report Date: 30 May 2006
Project Ref: GEOTLCOV23402AA

Written/Submitted:



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Revised/Approved by:



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30 May 2008

001

Taylor Thompson Whiting
Level 3, 48 Chandos Street
ST LEONARDS, NSW, 2000

Attention: Mr Barry Young

Dear Barry,

**RE: CONTAMINATION ASSESSMENT - SYDNEY ADVENTIST HOSPITAL
185 FOX VALLEY ROAD, WAHRONGA, NSW**

We are pleased to present our Contamination Assessment report on the above site.

We draw your attention to the attached sheets titled "Important Information about your Coffey Environmental Report". These sheets should be read in conjunction with this report.

Thank you for your commission for this work and we look forward to the opportunity of being of assistance in the future. Should you have any questions in relation to the report, please do not hesitate to contact the undersigned.

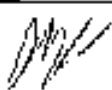
For and on behalf of Coffey Environments Pty Ltd



MANUEL FERNANDEZ

Associate Environmental Engineer

RECORD OF DISTRIBUTION

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ABBREVIATIONS

AEC	Area of Environmental Concern
AHD	Australian Height Datum
AST	Aboveground Storage Tank
C₈-C₂₆	Hydrocarbon chainlength fraction
BH	Borehole
BTEX	Benzene, Toluene, Ethylbenzene and Xylenes
CBH	Coffey Borehole
COC	Chemical of Concern
DECC	Department of Environment and Climate Change (NSW)
DIPNR	Department of Infrastructure, Planning and Natural Resources
ID	Identification
LOR	Limit of Reporting
MGT	MGT Environmental
µg/L	micrograms per litre
mg/kg	milligrams per kilogram
mg/L	milligrams per litre
NATA	National Association of Testing Authorities
NEHF	National Environmental Health Forum
NEPM	National Environment Protection Measure
NSW EPA	Environment Protection Authority of New South Wales
OCF	Organochlorine Pesticide
OPP	Organophosphorous Pesticide
PAH	Polycyclic Aromatic Hydrocarbon

ABBREVIATIONS

PCB	Polychlorinated Biphenyl
PID	Photoionisation Detector
Ppm	parts per million
PQL	Practical Quantitation Limit
QA	Quality Assurance
QC	Quality Control
RL	Reduced Level
RPD	Relative Percent Difference
SGS	SGS Environmental Services Pty Ltd
SIL	Soil Investigation Level
SOP	Standard Operating Procedures
TD	Total Depth
TPH	Total Petroleum Hydrocarbon
VOC	Volatile Organic Compound

EXECUTIVE SUMMARY

Colley Geotechnics Pty Ltd (Colley Geotechnics) was commissioned by Taylor Thomson Whitting, to carry out a Geotechnical Investigation and Contamination Assessment at the SAN Hospital located at 185 Fox Valley Road, Wahroonga, NSW (Figure 1) (referred herein as 'the site'). The work was commissioned by Barry Young of Taylor Thomson Whitting (TTW) on behalf of Colley Projects Pty Ltd and was carried out in general accordance with the relevant sections of our fee proposal reference GEOTL COV23464AA-AA, dated 4 February 2008. Colley Geotechnics sister company Colley Environments Pty Ltd (Colley Environments) assisted with the contamination investigation component of the works. This report presents the results of the contamination assessment which was carried out in conjunction with a geotechnical investigation (Report Ref: GEOTL COV23462AA-AD, dated 4 April 2008).

The existing SAN Hospital is located on the western side of Fox Valley Road and is bound by The Commonarra Parkway to the south and Coups Creek to the west and north. Existing developments within the hospital grounds include multistorey buildings, roads, car parks, sport facilities and landscaped grassed areas.

We understand there are four proposed improvements to the hospital and these are labelled building 1, 2, 3 and 4 as shown on the Site Plan in Figure 2. Information of the proposed improvements are as follows:

- **Building 1:** A new five storey multi deck car park to be built in the same area as an existing car park at grade.
- **Building 2:** A new four storey reinforced concrete framed building to replace an existing car park at grade.
- **Building 3:** A new building with a possible three storey basement.
- **Building 4:** An existing three storey brick building with modifications to load bearing internal walls within the eastern corner. The building will appear unchanged from the outside.

The objectives of the contamination assessment were to assess the likelihood for contamination to exist on the site from past and present activities and make recommendations on the need for further investigation and/or remediation, should contamination be present.

The scope of work for the contamination assessment included:

- A site history study and site walkover,
- Drilling (28) boreholes, from which the subsurface conditions were logged and soil samples were collected;
- Laboratory analysis of selected soil samples for a suite of potential chemicals of concern (COC), and
- Reporting the results of the assessment including, summarising the site history, results of fieldwork, presenting and interpreting analytical results and findings, comparing chemical concentrations to applicable guidelines, and making recommendations on the need for further investigation and / or remediation and management.

EXECUTIVE SUMMARY

The results of the site history study indicated that the site has been used for hospital related purposes since at least 1951 and possibly since 1903. The proposed building areas have generally been undeveloped with part of Building 2 possibly having been used for some agricultural use and Buildings 1 and 3 recording some filling. Building 3 received larger quantities of fill to raise levels and create a retention pond. Generally the likelihood for the areas assessed to be affected by contamination was assessed to be low.

Field investigations confirmed the presence of fill soils in the three study areas ranging between 0.2m and 6.9m in depth. Building Area 3 recorded the deeper fill profile with shallower fill at proposed Building areas 1 and 2. No obvious evidence of contamination was noted and samples selected for analysis for a suite of potential COCs did not record concentrations exceeding the adopted SILs for a commercial landuse.

A direct assessment of the groundwater quality was not made as part of this study. Based on the soil laboratory results, the anticipated depth to groundwater and lack of nearby contamination sources, the likelihood of groundwater contamination adversely affecting the proposed development is considered low.

Based on the results of this study it is considered that the potential for the areas assessed to be affected by land contamination that would adversely affect the proposed development is low and therefore the areas are considered suitable for proposed commercial use.

A preliminary assessment of the fill soils waste classification was made as part of this study. Based on the results, the fill soils are likely to classify as general solid waste for offsite disposal to a licensed facility. Natural soils underlying the fill are likely to classify as Virgin Excavated Natural Material (VENM), subject to the soils not being mixed with other fill soils or wastes.

+ + +

1 INTRODUCTION

Coffey Geotechnics Pty Ltd (Coffey Geotechnics) was commissioned by Taylor Thomson Whitting, to carry out a Geotechnical Investigation and Contamination Assessment at the SAN Hospital located at 185 Fox Valley Road, Wahroonga, NSW (Figure 1) (referred herein as 'the site'). The work was commissioned by Barry Young of Taylor Thomson Whitting (TTW) on behalf of Coffey Projects Pty Ltd and was carried out in general accordance with the relevant sections of our fee proposal reference GEOTLCOV23464AA-AA, dated 4 February 2008. Coffey Geotechnics sister company Coffey Environments Pty Ltd (Coffey Environments) assisted with the contamination investigation component of the works. This report presents the results of the contamination assessment which should be read in conjunction with the Geotechnical Investigation report (Report Ref: GEOTLCOV23462AA-AD, dated 4 April 2008).

The existing SAN Hospital is located on the western side of Fox Valley Road and is bound by The Concordia Parkway to the south and Goups Creek to the west and north. Existing developments within the hospital grounds include multi-storey buildings, roads, car parks, sport facilities and landscaped grassed areas.

We understand there are four proposed improvements to the hospital and these are labelled building 1, 2, 3 and 4 as shown on the Site Plan in Figure 2. Information of the proposed improvements are as follows:

- Building 1: A new five storey multi deck car park to be built in the same area as an existing car park at grade.
- Building 2: A new four storey reinforced concrete framed building to replace an existing car park at grade.
- Building 3: A new building with a possible three storey basement
- Building 4: An existing three storey brick building with modifications to load bearing internal walls within the eastern corner. The building will appear unchanged from the outside.

1.1 Objectives

The objectives of the contamination assessment were to assess the likelihood for contamination to exist on the site from past and present activities and make recommendations on the need for further investigation and/or remediation, should contamination be present.

2 SCOPE OF WORK

The scope of work for the contamination assessment was as follows:

- A site history study including a review of aerial photographs, a search of historical land titles, interviewing people familiar with the history of the site, a review of published geological and topographic maps, review of NSW Department of Environment and Climate Change (DECC) records for listing of the site, a search of nearby groundwater holes registered with the Department of Natural Resources (DNR), review of dangerous goods licenses held for the site by WorkCover and a search of Ku-Ring-Gai Council (Council) records;
- A site walkover to visually assess potential sources of contamination, observe surrounding landuses, topography, drainage, nearby sensitive environments, and assess details of the site history and desk study to further assess potential Areas of Environmental Concern (AECs) and Chemicals of Concern (COCs);
- Drilling (28) boreholes, from which the subsurface conditions were logged and soil samples were collected;
- Laboratory analysis of selected soil samples for a suite of analytes including Total Petroleum Hydrocarbons (TPH), Benzene, Toluene, Ethylbenzene, Xylenes (BTEX), Polycyclic Aromatic Hydrocarbons (PAH), Polychlorinated Biphenyls (PCB), Organochlorine Pesticides (OCP), asbestos and heavy metals (arsenic, cadmium, chromium, copper, lead, mercury, nickel and zinc). For waste classification purposes selected samples were also tested using the Toxicity Characteristic Leaching Procedure (TCLP) for PAH and heavy metals; and
- Preparation of this report summarising the site history, results of fieldwork, presenting and interpreting analytical results and findings, comparing chemical concentrations to applicable guidelines, and making recommendations on the need for further investigation and / or remediation and management.

3 SITE LANDUSE AND DESCRIPTION

3.1 Site Location and Landuse

The existing SAN Hospital is located on the western side of Fox Valley Road and is bound by The Comenarra Parkway to the south and Coups Creek to the west and north. The hospital grounds are a parcel of land that is irregular in shape with an approximate area of 55,550m². The approximate sizes of the three areas where new building structures will require some ground disturbance (and being the focus of this assessment) are:

- Building 1 68m x 24m 1,584m²
- Building 2 95m x 37m 3,515m²
- Building 3 32m x 30m 960m²
- Building 4 20m x 9m 180m²

Existing developments within the hospital grounds include multistorey buildings, roads, car parks, sport facilities and landscaped grassed areas. A summary of the site identification is presented below in Table 1

Table 1: Summary of Site Identification Information

Street Address	185 Fox Valley Road, Wahmonga, NSW
Area	Total - 55,550m ² (size of areas covered by this assessment - are Bld 1 - 1,584m ² , Bld 2 - 3,515m ² , Bld 3 - 960m ² & Bld 4 180m ²)
Title Identifiers	Lot 62 DP1017514
Zoning	5(a) Special uses A (Hospital) and Part Recreation 6(b)
Local Government Area	Ku-Ring-Gai
Parish	Gordon
County	Cumberland
Grid Co ordinates	151° 05' 48.62" E; 33° 44' 01.39" S (Centre Building 1) 151° 05' 56.41" E; 33° 43' 56.90" S (Centre Building 2) 151° 05' 50.58" E; 33° 44' 03.50" S (Centre Building 3) 151° 05' 59.41" E; 33° 44' 03.11" S (Centre Building 4)

The site locality is shown in Figure 1, the proposed improvements (Buildings 1 to 4) and the current SAN Hospital layout are shown in Figure 2. A cadastral plan is also included in Appendix A.

Surrounding land use to the SAN Hospital includes:

- Residential premises, located to the northeast, east and south;
- Creek and bushland, located to the west and northwest;
- A childcare Centre located to the southeast at the intersection of Fox Valley Road and Comenarra Parkway.

3.2 Topography and Drainage

Reference to the Hornsby 1:25,000 Topographic Map (9130 4-S) indicates that the site lies at an elevation between about 150m and 160m above Australian Height Datum (AHD). Typically the ground surface of the central hospital grounds is relatively flat and falls to the western and southern areas of the site towards Coups Creek.

15/2

A survey plan provided to Goffey Geotechnics (Drawing Ref: Plan titled 'Detail Survey of Sydney Adventist Hospital Ground', prepared by Concrete Constructions (NSW) Pty Ltd. dated 1989) indicates Buildings 1 and 3 lie at an elevation range of 156m AHD and 160m AHD and Building 2 lies at an elevation ranging between 157m AHD and 161m AHD.

Surface water at the site is anticipated to flow from the higher elevated central and northern hospital ground areas and flow towards the northwest, west and south towards Coup Creek and areas of lower elevation. A grassed stormwater retention pond was noted to the north west of proposed Building 2 and a grassed stormwater retention pond within the proposed Building 3 area. On site drainage is likely to flow into the grassed ponds during wet weather periods.

The closest watercourse to the site is Coup Creek, which is located approximately 50m north and west of the site in an inferred down slope direction. Runoff from the site is likely to flow into Coup Creek, which eventually flows into the Lane Cove River located approximately 620m to the west. The Lane Cove River flows in a south-easterly direction before joining the Parramatta River located approximately 14km to the southeast.

Further details regarding the general topography and drainage for each proposed building area are included in Section 4.2.

3.3 Local Geology, Hydrogeology and Groundwater Use

Reference to the Sydney 1:100,000 Geological Sheet indicates the site locality spans the contact between Ashfield Shale and Hawkesbury Sandstone. Ashfield Shale is described as a black to dark grey shale and laminate while Hawkesbury Sandstone is described as medium to coarse grained quartz sandstone, very minor shale and laminate lenses.

A survey of groundwater bores registered with Department of Water and Energy (DWE) indicated that there is one registered bore within a 1 kilometre radius of the site. Bore GW107929 is registered for recreation purposes and is located within the grounds of the retirement village on Mount Pleasant Avenue which is approximately 50m west to northwest and in an inferred upgradient location of the hospital grounds. The work summary sheet for the bore indicated that the bore was installed on the 18 March 2005, is registered for recreational purposes, had a standing water level of 58m below ground surface level with the lithology indicated to be sandstone from 0m to 180m. No other relevant details were supplied.

Based on observations of the surrounding topography, the regional groundwater would be expected to be located at depths greater than 10m.

4 SITE HISTORY AND OBSERVATIONS

Information on the site history was obtained from:

- A historical land title search to review previous landowners and possible past uses of the site;
- Interviews with persons familiar with the site;
- Review of selected aerial photographs;
- Review of records held by Ku-Ring-Gai Council;
- A search of NSW DECC records;
- A search of WorkCover records; and

The site history information is presented in Appendix A and a summary is provided below.

4.1 Summary of Site History

4.1.1 General

Site history information suggests that the site has been used as a hospital since prior to 1951 and possibly as far back as 1903. Various individuals owned the site prior to this time. Title records indicate that Sydney Sanitarium and Benevolent Association was the registered proprietor for at least a portion of the site since 1903 and later by the Australasian Conference Association Limited (who are the current registered proprietors).

Various alterations have occurred to the hospital buildings over the history of the site. The areas of the proposed buildings have not previously been developed, except more recently for retention basins or car park areas. Further details of each area are provided below.

A search of the NSW DECC Contaminated Land Record website indicated there were no notices issued for the site under the Environmentally Hazardous Chemicals Act (1985) or the Contaminated Land Management Act (1997).

A search of the NSW DECC public register for Licences, Applications and Notices website indicated the site has an EPA license for Hazardous, Industrial or Group A waste generation or storage (73) up to 100t under section 300 of the Protection of the Environment Operations Act 1997. No breaches or notices have been issued for the site under the license (No. 6546).

Site history information suggested that fuel or chemical storage was unlikely within or in very close proximity to the proposed building sites.

A WorkCover search of the Stored Chemical Information Database (SCID) for licenses to keep dangerous goods indicated that a license (No.35/0174068) for the SAN Hospital to store a number of dangerous goods at various locations throughout the SAN Hospital for hospital related activities. The records indicate storage of products such as compressed/liquefied gases, motor spirit, copper based pesticide, organophosphorous pesticide, caustic, hypochlorite, hydrogen peroxide, hydrochloric acid, ethanol, diesel and heating oil. The closest (non-gaseous) storage area to the current study areas is approximately 100m.

The WorkCover search also suggested that the correct decommissioning procedures were not followed for two USTs (20,000L capacity each) located north of the maintenance buildings which were located approximately 125m east and upgradient of the proposed Building 1 and 125m northerly and upgradient of the proposed Building 3. The letter indicated that the petrol tank was removed and the diesel tank was filled with sand/soil, but there was no written history.

The closest storage containers to the proposed Buildings 1 and 3 were the two former USTs (mentioned above, two ASTs (15,000L & 20,000L) containing boiler oil 100m to the east-southeast and a number of gas cylinders approximately 125m to the east and upgradient of Building 1 and 3. The closest storage containers to the proposed Building 2 are a liquid oxygen AST 25m to the west and a UST (12,000L) and generator containing diesel fuel approximately 75m to the south which are both upgradient of Building 2.

4.1.2 Building 1

Aerial photographs and anecdotal evidence indicated that up until the mid 1990s the study area comprised vacant grassed areas and bush land. From the mid 1990s to date the study area was noted as being an asphalt paved carpark which was constructed at the same time of the stores/laundry building to the immediate east. The 1951 to 1986 aerial photographs indicated several structures to the west and southwest of Building 1. Anecdotal evidence suggested that the structures were former sewerage works and generator buildings which ceased operations in the 1970s.

4.1.3 Building 2

Aerial photographs indicated that up until the 1960s the study area was vacant rural land with agricultural landuses at the western portion of this area. A dairy was noted to be located west of the proposed Building 2 study area. The 1970 and 1986 aerial photograph indicated the southeast corner of Building 2 was paved carpark until the mid 1980s at which point the Building 2 area became an asphalt paved carpark. Anecdotal evidence suggested the Operating Theatre block (located immediately south of the Building 2 area) was approximately 11 years old and prior to its construction the area was for growing vegetables in gardens. Anecdotal evidence also suggested the SAN Clinic located immediately south of the southeast corner of the Building 2 was originally constructed of concrete, metal sheeting, brick and fibre cemented sheeting which was later removed.

4.1.4 Building 3

The 1951 to 1978 aerial photographs indicated the area was predominantly vacant grassed areas. The 1986 and 1994 aerial photographs indicated the presence of bare soil mounds located within the centre of the Building 3. Anecdotal evidence suggested the soil mounds comprised fill soils sourced offsite and 'cut' soils from other areas within the SAN Hospital grounds, used for the construction of the retention basin. The 2005 aerial photograph shows this area to be landscaped and grass covered. Anecdotal evidence suggested one source of fill material used to create the basin (approximately 40-50%) was from cut earthworks activities at other locations with the SAN Hospital. The main source of fill (approximately 50-60%) used for the basin's construction was from a shopping centre development on Pennant Hills Road located approximately 1km to 1.5km west of the site approximately 10 years ago.

4.1.5 Building 4

The area where Building 4 is located appears to have been occupied by this (or a similar) structure since at least 1951 and likely to have been used as a hospital ward building.

The results of the above mentioned site history searches are included in Appendix A.

4.1.5 Gaps in the Site History

Following the review of the site history information the following gaps in site history are noted relating to the areas being assessed:

- The activities associated with the incinerator located west of the proposed Building 1 including disposal of incinerator wastes;
- The exact nature of agricultural activities in areas surrounding the hospital;
- The quality of fill soils imported to the site for retention basin construction.

4.2 Site Observations

An environmental scientist and a geotechnical engineer made observations of the general site and study areas at the time of fieldwork on the 10 March 2008 and an Associate Geotechnical Engineer on the 28 March 2008 during a site walkover. The proposed improvement layouts are shown on Figures 3 and 4. Selected site photographs are included in Appendix F.

4.2.1 Building 1

The proposed Building 1 site was located along the western perimeter of the hospital where currently a level asphalt surface car park was situated. The land adjacent to the car park generally slopes downwards to the west, with the car park having been cut into the slope along the eastern boundaries and filled along the western boundaries. The fill was estimated to be 2m high at the north western end of the car park.

To the west of the car park was a well maintained grassed strip of land approximately 20m wide. Further west, the land falls sharply and the vegetation consists of bushes and mature trees.

To the east of the car park the Stores and Business Offices were located approximately 3m to 4m above the ground surface of the car park with garden beds, bushes, trees and maintained grassed areas dividing the two areas. The Stores and Business Office buildings were noted as being constructed of metal sheeting and brick.

A stormwater drain oriented in a north-south direction was noted through the centre of the carpark area as evident by several steel grates and access pits.

4.2.2 Building 2

The proposed Building 2 site was located along the central northern perimeter of the hospital where an asphalt surface car park was situated. In this area, the land falls to the north at an angle of 3 to 4 degrees with the car park terraced over 3 levels to accommodate the slope. There was minor cut and fill earthworks estimated at 1m height associated with the terracing. The eastern end of the car park was lower than the western end and has been filled where a former gully was located.

Adjacent to the north west of the car park was a maintained grassed drainage basin. The basin was approximately 2m deep and in the base was a galvanised steel grill probably associated with a drainage system. Beyond the basin the land slopes downwards to the north towards Coups Creek where dense vegetation was present.

Adjacent to the western portion of the carpark an aboveground storage tank containing liquid nitrogen was noted within a steel fence compound. Immediately to the south and southeast, the carpark was bound by the Operating Theatre Block and the SAN clinic. Additional carpark areas and the Fox Valley Centre were located to the east and northeast approximately 1m to 2m above ground surface level of the study area.

The car park terraces were separated by garden beds approximately 1m to 2m in width. The garden beds were noted to be filled with bark chip and leaf litter from the tall trees (approximately 15 to 20m in height) which were generally the only plant species identified in the garden beds.

4.2.3 Building 3

The detail and location of proposed Building 3 was not finalised at the time this report was prepared, however we understand it is to be located adjacent and to the south of the proposed Building 2 site. In this area is a maintained grassed drainage basin. The basin is approximately 2m to 3m deep and has a galvanised steel grill and manhole in the base. The southern and western batter faces within the basin are garden beds which have been bark chipped with overgrown shrub and grass plants species noted.

At the western end of the basin was a 6m wide well maintained grassed crest. At the western edge of the grassed crest, a 2m wide strip used for the dumping of grass cuttings was noted. Beyond this, the land falls at an angle of approximately 18 degrees to the west and was vegetated with thick grass. Fragments of broken brick observed on the surface suggest that the basin walls may have been constructed using fill material. To the southwest the land falls at an angle of approximately 18 degrees to the south and was a maintained grass slope. At the base of the slopes are mature trees and bushes.

Adjacent to the south of the basin was a car park. The south western end of the car park has been raised approximately 1.5m above the surrounding ground level. To the east of the basin the Staff Amenities Buildings are located, comprising two single storey buildings. An in-ground swimming pool is located to the northeast of the basin.

Approximately 20m to 30m to the south and southeast of the carpark, the surrounding land use was a childcare centre and residential housing.

4.2.4 Building 4

Observations of the Building 4 were carried out by an Associate Geotechnical Engineer on the 28 March 2008. Building 4 was an existing three storey brick structure located in the eastern area of the hospital. The building is a brick structure used as a hospital ward.

The building has a basement along its south eastern side and is inter-connected to new structures along the north western and south western walls. The land surrounding the building generally slopes down to the east.

A stairway leads to the basement from within the building. Within the basement in rooms titled "South Wing Switch Room" and the "Electrical Store Room", brick strip footings supporting a concrete slab associated with the ground floor were visible. The footings were resting on shale which was clearly visible since the basement had been cut into it.

5 POTENTIAL AREAS OF ENVIRONMENTAL CONCERN (AEC) AND CHEMICALS OF CONCERN (COC)

Based on the site history information and site observations, potential Areas of Environmental Concern (AEC) and Chemicals of Concern (COCs) were identified. These are summarised in the following table

6 SAMPLING AND ANALYSIS PLAN

The site sampling and analysis plan was designed to check for soil contamination for proposed building areas 1, 2 and 3.

The proposed developments for Building 4 were indicated to involve the adjustment of internal walls and possible height adjustments to the building. As the development works do not involve disturbance to the subsurface conditions, no sampling was proposed within the Building 4 study area.

A total of 27 sampling locations including 25 boreholes and two surface samples were drilled across the three study areas. Sampling locations are shown in Figures 3 and 4.

The majority of the sampling locations for the investigation were pre-positioned for geotechnical purposes and were also used to collect soil samples for environmental purposes. Eight additional locations were used to complement these locations for environmental purposes. At the time of the field work and service location the areas indicated to be the study areas for the proposed Buildings 1, 2 and 3 were identified larger than what is presented in Figures 3 and 4. In total twenty-seven sampling locations were positioned for geotechnical and environmental purposes for Building 1, 2 and 3. Of the twenty-seven locations, seventeen sampling locations were identified to be outside and immediately adjacent to the three study areas, but were within reasonably close proximity to give an indication of the possibility for contamination to exist based on the general broad potential contamination sources.

To assess a site with an area of $1,584\text{m}^2$ with respect to contamination for Building 1, the NSW EPA (1995) Sampling Design Guidelines recommends seven sampling locations, subject to the results of the site history. This is based on detecting a circular hotspot of approximately 19.9m in diameter with 95% confidence. At the time of the fieldwork seven geotechnical sampling locations were used to assess the potential for contamination to exist at the proposed Building 1 study area.

To assess a site with an area of $3,515\text{m}^2$ with respect to contamination for Building 2, the NSW EPA (1995) Sampling Design Guidelines recommends eleven sampling locations, subject to the results of the site history. This is based on detecting a circular hotspot of approximately 22.5m in diameter with 95% confidence. At the time of the fieldwork thirteen sampling locations were positioned to assess the potential for contamination to exist at the proposed Building 2 study area.

To assess a site with an area of 950m^2 with respect to contamination for Building 3, the NSW EPA (1995) Sampling Design Guidelines recommends six sampling locations, subject to the results of the site history. This is based on detecting a circular hotspot of approximately 15.2m in diameter with 95% confidence. At the time of the fieldwork seven sampling locations were selected to assess the potential for contamination to exist at the proposed Building 3 study area.

The geotechnical boreholes were spread across each of the study areas in a rough grid based pattern, with the spacing between locations ranging between 10m and 20m. The additional environmental sampling locations were positioned between the geotechnical locations to better assess areas within the proposed Building 1, 2 and 3 footprints.

Samples were generally collected at the depth intervals of 0.0-0.1m, 0.5m, 1.0m and every 1.5m thereafter where deeper fill was encountered. Samples at the base of fill and the underlying natural soils were also collected. A minimum of two samples at each location were selected for analysis with additional samples from deeper fill soil also selected for analysis.

Selected soil samples collected from borehole locations were analysed for a suite of common potential chemicals of concern, as assessed from the site history. Samples for TPH and BTEX analysis were selected based on field screening and field evidence of potential contamination.

A direct assessment of groundwater quality was not carried out, as part of this preliminary investigation.

6.1 Quality Assurance/Quality Control

A quality assurance/quality control plan was designed to achieve the predetermined data quality objectives (DQOs) and to demonstrate accuracy, precision, comparability, representativeness and completeness of the data generated and the procedures for assessing the DQOs are met. The results of the laboratory quality control are discussed in Section 9.3.1.

7 ASSESSMENT CRITERIA

7.1 Soil Vapour Criteria

For the purposes of this report the generalised soil vapour criteria presented in Table 3 have been used as a guide to the potential for hydrocarbon contamination. These criteria have been developed by Coffey Environments based on our experience (where monitoring for volatile organic compounds has occurred) to assist in the assessment of hydrocarbon contamination levels in soil. It is important to note that these generalised criteria are only a guide and that the PID has a different response to different chemicals.

Table 3: Generalised Soil Gas Criteria

PID reading as ppm isobutylene	Generalised soil gas content description relating to petroleum hydrocarbon contamination
<20 ppm	NEGLIGIBLE
20 to 60 ppm	LOW
60 – 300 ppm	MODERATE
>300 ppm	SIGNIFICANT

7.2 Soil Investigation Levels (SILs)

In order to assess the degree of contamination in soils on the site, the results of soil analyses were compared with guidelines in the following references:

- NSW Department of Environment and Conservation (2006) Guidelines for the NSW Auditor Scheme (2nd Edn.);
- NSW EPA (1994) Guidelines for Assessing Service Station Sites; and
- NEPC (1999) National Environmental Protection (Assessment of Site Contamination) Measure (NEPM) – Schedule B (1) Guideline on Investigation levels for Soil and Groundwater.

The NSW DEC (2006) Guidelines for the NSW Site Auditor Scheme and the NEPM summarise the National Environmental Health Forum (NEHF) investigation levels for protection of human health for different landuses. The references also provide guidelines for provisional phytotoxicity based investigation levels, (referred to as environmental investigation levels in the NEPM (EILs)) for a range of contaminants in soils.

The NEHF-F investigation levels are applicable for commercial/industrial landuse. The NEHF-F guidelines have been applied to soil samples collected from the proposed commercial development including the construction of hospital buildings in each of the study areas within the site.

The NSW EPA (1994) guidelines provide acceptable cleanup levels at Service Station Sites which are to be redeveloped for a sensitive use such as residential. The NSW DECC also recommends the use of these guidelines for assessing hydrocarbon contaminants for sites with less sensitive landuses (such as residential). Based on use of the site for commercial purposes, these criteria are used to supplement the NPIIF commercial/industrial investigation levels. The NSW DEC (2006) guidelines provide human health criteria for petroleum hydrocarbons based on speciation of aliphatic and aromatic compounds for different landuses.

There are currently no national or NSW guidelines for asbestos in soil. The NSW DECC has advised that asbestos is a human health issue and not an environmental issue. On the advice of the NSW Department of Health, the NSW DECC has advised NSW Site Auditors (Site Auditors Meeting 4 March 2000) that "no asbestos in the soil or the surface is permitted". Enhealth (2005) provides some guidance on assessing and managing asbestos in soil although does not provide a threshold concentration or investigation level for asbestos.

The adopted Soil Investigation Levels (SILs) are summarised in Tables 4, 5 and 6.

7.3 Waste Classification Criteria

In order to assess the waste classification of the site soils on a preliminary level, the results of soil analysis were compared to the NSW DECC (2008) Waste Classification Guidelines.

The guidelines provide threshold values for total concentrations and leachable concentrations based on TCLP test results for a list of about 50 contaminants and groups of contaminants. For a waste to be classified under a given category (i.e. special, liquid, hazardous, restricted solid, general solid (putrescible and non-putrescible), both total and leachable concentrations of the waste should meet the respective threshold concentrations. The waste may be classified solely based on total concentrations (i.e. without undertaking leachability testing), but the applicable threshold concentrations when leachability testing is not undertaken are significantly lower (i.e. more stringent) than would apply when leachability testing is undertaken.

8 FIELD INVESTIGATIONS

Field investigations were carried between the 10 and 25 March 2008 in the full time presence of a geotechnical engineer from the Lane Cove Office who recorded an engineering log of the subsurface conditions observed at each location and collected soil samples.

Twenty-five (25) boreholes, designated CBH1 to CBH25 were drilled using a truck mounted drilling rig equipped with a continuous flight auger, to depths ranging between 1m and 12.30m. The boreholes were drilled in soils using 100mm solid flight augers and a steel V shaped bit (V-bit) or tungsten carbide bit (TC-bit). Standard Penetration Testing was carried out in all boreholes to assess soil strength and to obtain samples for logging and laboratory analysis. Upon encountering rock, diamond coring techniques were used to advance the boreholes and to obtain core for analysis.

Two sampling locations, designated CBH26 and CBH27 were drilled using a hand auger to depths of 0.1m and 0.2m respectively. The sampling locations were placed within garden beds of the Building 2 study area where the drilling could not gain access.

Water level readings were collected from boreholes at times and under conditions stated on the borehole logs. In cored boreholes, water was used as a drilling fluid and groundwater levels could not be monitored. It must be noted that fluctuations in the level of the groundwater may occur due to variations in rainfall, temperature, and other factors.

The approximate locations of the boreholes and surface samples were measured relative to existing site features using a measuring wheel and/or tape and are shown in Figures 3 and 4. Test elevations were measured by staff and dumpy level to a datum of 162.541m AHD located within the hospital grounds. Engineering logs of the boreholes are included in Appendix B with explanatory sheets defining the terms and symbols used.

8.1 Soil Sampling

During drilling, soil samples were generally collected directly off the auger or the hand auger head within the upper 1m thereafter with a Standard Penetration Test (SPT) tube sampler. Between sampling locations the augers and hand auger were washed by brush scrubbing with a phosphate free detergent and finally rinsed with potable water. The SPT tube sampler was also washed with a phosphate free detergent, rinsed with potable water followed by rinsing with distilled water between sampling locations. Soil samples were collected with a new pair of latex gloves between sampling locations.

Soil samples were generally collected within the fill soils and upper residual layers. Samples were also collected where there was visual evidence of potential contamination (if observed) or at major changes in stratigraphy. The soil was placed into clean 250mL glass jars, which were sealed with Teflon lined caps, labelled and placed directly into ice cooled chests.

Soil vapour testing was carried out using a Mini Rae 2000 photoionisation detector (PID) fitted with a 10.6eV lamp and calibrated with isobutylene gas at a concentration of 100ppm. This instrument allows rapid, semi quantitative analysis of ionisable volatile organic compounds in the soil.

Soil samples for chemical analysis were collected in duplicate into tightly sealed plastic bags. The headspace air above each sample was measured with the PID. The results of the soil vapour testing are presented in Appendix C.

8.2 Field Quality Control Procedures

The field quality control was generally in accordance with the quality control plan and consisted of the following:

- Sampling was performed generally in accordance with the procedures outlined in Coffey Environments relevant standard operating procedures, which are based on industry accepted protocols for environmental sampling;
- Calibration of field instruments in accordance with manufacturers instructions;
- Collection and analysis of eight blind coded intra laboratory duplicate soil samples and three inter laboratory duplicate samples, which are summarised in Table 4;
- One rinseate blank sample designated RB102 was collected from the V-bit and solid stem augers and analysed for heavy metals, TPH, BTEX, PAH, OCP and PCB to check sampling equipment had been correctly decontaminated between sampling locations;
- Primary samples were transported in ice-cooled chests to the contract laboratory, MGT Environmental Consulting Pty Ltd (MGT) in Victoria who is NATA accredited for the analysis performed, under chain of custody conditions. A copy of the chain of custody is included in Appendix D;
- Three duplicate samples were selected for analysis at the secondary laboratory. Samples were transported in ice-cooled chests to the contract laboratory, SGS Environmental Pty Ltd (SGS) in Alexandria, New South Wales who is NATA accredited for the analysis performed, under chain of custody conditions. A copy of the chain of custody is included in Appendix D;

Table 4: Summary of Duplicate Soil Samples

Primary Sample ID	Duplicate Soil Sample ID	Duplicate Type		Analysis						
		Intra Laboratory	Inter Laboratory	TPH	BTEX	PAH	OCP	PCB	Heavy Metals	Asbestos
CBH11/0.0-0.1	QC100	✓	-	-	-	-	-	-	✓	-
CBH11/0.2-0.3	QC106	✓	-	-	-	✓	-	-	✓	-
CBH14/0.3-0.5	QC108	✓	-	✓	✓	✓	✓	-	✓	-
CBH14/0.3-0.5	QC109	-	✓	✓	✓	✓	✓	-	✓	-
CBH17/0.2-0.3	QC110	✓	-	-	-	-	-	-	✓	-
CBH17/0.2-0.3	QC111	-	✓	-	-	-	-	-	✓	-
CBH6/0.2-0.3	QC114	✓	-	-	-	-	-	-	✓	-
CBH21/1.0-1.45	QC118	✓	-	✓	✓	✓	-	-	✓	-
CBH21/1.0-1.45	QC119	-	✓	✓	✓	✓	-	-	✓	-
CBH23/0.8-1.0	QC120	✓	-	✓	✓	-	-	-	✓	-
CBH6/0.0-0.1	QC122	✓	-	✓	✓	-	-	✓	-	-
Total		8	3	6	6	5	2	1	10	0
Total Primary Samples Analysed				36	38	39	17	11	62	12

8.3 Laboratory Analysis

Samples were selected for analysis mainly based on geological origin/fill type of the material, soil sample depth, site location, PID screening and field observations.

The following is a summary of the primary sample analysis for the proposed Building 1 area:

- 14 samples for heavy metals;
- 7 samples for BTEX and TPH;
- 8 samples for PAH;
- 2 samples for OCPs;
- 2 samples for PCBs;
- 1 samples for asbestos; and
- 1 samples for TCLP Heavy Metals

- 1 samples for TCLP PAH Benzo(a)pyrene

The following is a summary of the primary sample analysis for the proposed Building 2 area:

- 26 samples for heavy metals;
- 15 samples for BTEX and TPH;
- 13 samples for PAH,
- 7 samples for OCPs;
- 1 samples for PCBs;
- 4 samples for asbestos; and
- 2 samples for TCLP Heavy Metals

The following is a summary of the primary sample analysis for the proposed Building 3 area:

- 23 samples for heavy metals;
- 17 samples for BTEX and TPH;
- 20 samples for PAH,
- 6 samples for OCPs;
- 4 samples for PCBs;
- 3 samples for asbestos; and
- 2 samples for TCLP Heavy Metals
- 1 samples for TCLP PAH Benzo(a)pyrene

Original laboratory sheets and analytical procedures are included in Appendix D.

9 RESULTS OF FIELD AND LABORATORY INVESTIGATIONS

9.1 Subsurface Conditions

The generalised subsurface conditions encountered across the site from the boreholes are summarised below:

ASPHALT (Unit 1)	Bitumen and Roadbase materials for boreholes excavated in car parking areas within the proposed Building 1 and 2 footprints. Thickness in proposed Building 1: 0-0.3m encountered at CBH2, CBH6, CBH8, CBH15, CBH19, CBH22 Thickness in proposed Building 2: 0-0.4m encountered at CBH4, CBH5, CBH9, CBH10, CBH12 to CBH14, CBH17 and CBH23 to CBH25.
FILL (Unit 2)	Silly sand, clayey sand, sandy clay and clay, with some sandstone gravel up to cobbles size, concrete rubble, organic fragments and trees roots. Thickness in proposed Building 1: 0-2.5m encountered at CBH11, CBH15, CBH19, CBH22 Thickness in proposed Building 2: 0.15m-3.14m encountered at CBH2, CBH12, CBH13, CBH14, CBH17 and CBH23 to CBH27 Thickness in proposed Building 3: 0-5.85m encountered at CBH11, CBH13, CBH17, CBH16, CBH18, CBH20, CBH21 A sandstone boulder was encountered at 1.0-1.2m for CBH11 within the proposed Building 1 footprint.
RESIDUAL (Unit 3)	Typically - Sandy clay and clay: stiff, low to high plasticity, orange brown, pale grey and red - Silty sand and sand: fine to medium grained, brownish grey Thickness: 0 to 1.2m
SANDSTONE (Unit 4)	Unit 3A typically: - Very low to medium strength, yellow, red, orange, grey, extremely to moderately weathered Thickness: 0 to 3.7m Unit 3B typically: - Medium to high strength, grey, yellow, orange, red and brown, moderately weathered to fresh

Continued

SHALE

Found only beneath Building 4. Very low to medium strength, highly to moderately weathered, grey and orange shale.

(Unit 5)

Notes:

- (1) The unit thickness and base of unit values are based on the boreholes and may not represent the extremes (maximum or minimum) values across the site.
- (2) Rock classified in accordance with Pells et al (1998) "Foundations on Sandstone and Shale in the Sydney Region" Aust. Geomech. Jnl, Dec 1998.

Apart from the fill, the subsurface conditions encountered are consistent with the published geological information.

Organic odours were noted at borehole locations CBH1, CBH3 and CBH11. No unusual odours or oily sheens were noted in soils during sampling at remaining locations. A black coloured material was noted at about 4.05m to 4.25m in CBH16 in the Building 3 area. The material did not have an unusual odour.

Groundwater inflows were noted in three boreholes (CBH1, CBH7 and CBH10) surrounding the proposed Building 3 footprint within the fill soils at depths of 3.5m, 1.0m and 5.5m respectively. A groundwater inflow was also noted within the fill soils at CBH2B at a depth of 1.5m which was located within the proposed Building 1 footprint. These groundwater inflows are considered to represent 'perched' groundwater located within the clayey fill and unlikely to represent local groundwater.

Within the cored boreholes, water was used as a drilling fluid which prevented groundwater observations. No groundwater was encountered during drilling or within the period they were open.

It should be noted that groundwater levels are subject to variation due to the influence of rainfall, temperature, local drainage and the seasons. There may also be the potential for development of perched groundwater tables following periods of rainfall.

9.2 Soil Vapour

Results of the soil gas headspace measurements are presented in Appendix C

Soil samples tested recorded negligible to low readings ranging from 0 to 34.5ppm. The sample PID results were generally consistent with field observations and the laboratory-tested soil samples.

9.3 Soil Contamination

9.3.1 Quality Assurance/Quality Control

A data validation report for each batch of samples were prepared by Colley Environments as part of the quality assurance programme and are included in Appendix E. Following review of laboratory reports, the following comments can be made:

- A laboratory prepared trip spike was not taken into the field for this round of fieldwork. An assessment of potential loss of volatiles through this method cannot be made. This is not considered significant as soils screened in the field with a PID indicated a low likelihood for volatile contamination to exist on the site.

- Several BTEX surrogates recorded recoveries ranging between 50% and 58% for the soil samples CBH4/0.05-0.2m, CBH7/1.0-1.3m, CBH7/2.8-2.8m, CBH8/0.4-0.5m, CBH11/0.9-1.05m, CBH18/0.3-0.5m and CBH21/1.0-1.45m, which is below the lower control limit of 60%. This result may indicate that lower concentrations of BTEX may have been recorded than what was actually present for these samples. This result is not considered significant as screening results and observations suggested that volatile contaminants were unlikely to be present.
- Several laboratory spikes for PAHs and a PAH surrogate recorded recoveries above the upper control limit of 110% for the sample CBH21/0.4-0.5m. These results may indicate that some concentrations of PAHs for this sample may have been reported higher than what were actually present.
- RPDs ranging between 55% and 108% above the control limit of 50%, were recorded for the copper, mercury, nickel, zinc and the PAH Phenanthrene for the soil duplicate pairs CBH1/0.0-0.1m and QC100; CBH11/0.2-0.3m and QC106; CBH17/0.2-0.3m and QC110; CBH17/0.2-0.3m and QC111; CBH21/1.0-1.45m and QC119; and CBH21/1.0-1.45m and QC119. These results are considered to be attributed to the heterogeneous nature of the contaminant distribution throughout the soil/fill matrix.
- Several inconsistencies were noted between the duplicate pairs CBH1/0.0-0.1m and QC100; CBH2/0.15-0.25m and QC102; CBH17/0.2-0.3m and QC111; CBH6/0.2-0.3m and QC114; CBH21/1.0-1.45m and QC118 and QC119, for arsenic, copper, lead, nickel, zinc. These results are not considered significant as concentrations of the primary and duplicate samples were close to the LOR.

Apart from the above, the QA/QC was considered generally appropriate for the purposes of this assessment.

Data Quality Indicators (DQI) (completeness, comparability, representativeness, precision and accuracy) for both field and laboratory procedures have been checked. Based on the assessment it is considered that the data collected for this assessment is adequate and meets the objectives of the QA/QC plan.

9.3.2 Comparison of Results to Soil Investigation Levels

The laboratory test results for soil samples collected within or immediately adjacent to the proposed development areas of Buildings 1, 2 and 3 are summarised in Tables 5, 6 and 7 respectively.

Concentration of the COCs tested were generally low and below the adopted SILs and/or below the laboratory reporting limits.

For the proposed Building 1 study area concentrations of PAHs, arsenic, chromium, copper, lead, nickel and zinc were generally low and below the adopted SILs. Concentrations of TPH, BTEX, COP, PCB, cadmium, mercury and asbestos were below the laboratory limits of reporting (LOR).

For the proposed Building 2 study area concentrations of TPH C₁₀-C₃₀, PAHs, arsenic, chromium, copper, lead, nickel and zinc were generally low and below the adopted SILs. Concentrations of BTEX, COP, PCB, cadmium, mercury and asbestos were below the laboratory LOR.

For the proposed Building 3 study area concentrations of PAHs, arsenic, chromium, copper, lead, nickel and zinc were generally low and below the adopted SILs. Concentrations of TPH, BTEX, COP, PCB, cadmium, mercury and asbestos were below the laboratory limits LOR.

9.3.3 Comparison of Results to Waste Classification Guidelines

The laboratory test results were compared to waste classification criteria. Results for Buildings 1, 2 and 3 are summarised in Tables 8, 9 and 10, respectively.

The laboratory results were compared to the guidelines presented in the NSW DECC (2008) Waste Classification Guidelines. Based on this assessment the soils for the proposed Buildings 1, 2 and 3 were assessed to classify as General Solid Waste for landfill disposal.

10 DISCUSSION

10.1 Building 1

Fieldwork results indicated that this area had fill soils ranging in depth between 0.2m to 2.5m (generally increasing in depth from east to west). The fill soils were typically clayey sands and sandy clays. Some brick and terracotta pieces were noted in CBH15 at a depth of about 2m. The soils are likely to be natural site soils from cut and fill activities (although this cannot be confirmed). No obvious evidence of contamination was noted. Sixteen (16) samples selected for analysis from the fill soils at various depth intervals did not indicate concentrations of the potential COCs tested above the adopted SILs.

10.2 Building 2

Fieldwork results indicated that this area had fill soils ranging in depth between 0.2m to 3.2m (generally increasing in depth from south-west to north-east). The fill soils were typically clayey sands and clay. No obvious evidence of contamination was noted. Thirty three (33) samples selected for analysis from the fill soils at various depth intervals did not indicate concentrations of the potential COCs tested above the adopted SILs.

10.3 Building 3

Fieldwork results indicated that this area had fill soils ranging in depth between 2.7m to 6.9m (generally increasing in depth from north-east to south-west). The fill soils were typically clayey sands, clays and sandy clays. A black coloured material was noted at about 4.05m to 4.25m in CBH16 in the Building 3 area. The material did not have an unusual odour and was insufficient for a sample. Apart from this no obvious evidence of contamination was noted. Twenty seven (27) samples selected for analysis from the fill soils at various depth intervals did not indicate concentrations of the potential COCs tested above the adopted SILs.

10.4 Building 4

The site history and site observations made as part of this assessment did not indicate obvious potential sources of contamination. The results from other areas would suggest that the likelihood for this area to be affected by contamination is low.

Groundwater quality at the site was not directly assessed as part of this study. It would generally appear that the likelihood for groundwater contamination to be present at the proposed building areas that would adversely affect the proposed development from a contamination perspective is low. Some USTs exist on the site further upslope of the areas being assessed which could act potential contamination sources to groundwater. Their distance and previous usage would suggest that if contamination occurred, the likelihood of it impacting these areas is likely to be relatively low.

11 CONCLUSIONS

The results of the site history study indicated that the site has been used for hospital related purposes since at least 1951 and possibly since 1903. The proposed building areas have generally been undeveloped with part of Building 2 possibly having been used for some agricultural use and Buildings 1 and 3 recording some filling. Building 3 received larger quantities of fill to raise levels and create a retention pond. Generally the likelihood for the areas assessed to be affected by contamination was assessed to be low.

Field investigations confirmed the presence of fill soils in the three study areas ranging between 0.2m and 0.9m in depth. Building area 3 recorded the deeper fill profile with shallower fill at proposed Building areas 1 and 2. No obvious evidence of contamination was noted and samples selected for analysis for a suite of potential COCs did not record concentrations exceeding the adopted SILs for a commercial landuse.

A direct assessment of the groundwater quality was not made as part of this study. Based on the soil laboratory results, the anticipated depth to groundwater and lack of nearby contamination sources, the likelihood of groundwater contamination adversely affecting the proposed development is considered low.

Based on the results of this study it is considered that the potential for the areas assessed to be affected by land contamination that would adversely affect the proposed development is low and therefore the areas are considered suitable for proposed commercial use.

A preliminary assessment of the fill soils waste classification was made as part of this study. Based on the results the fill soils are likely to classify as general solid waste for offsite disposal to a licensed facility. Natural soils underlying the fill are likely to classify as Virgin Excavated Natural Material (VENM), subject to the soils not being mixed with other fill soils or wastes.

12 LIMITATIONS

The findings contained in this report are the result of discrete/specific methodologies used in accordance with normal practices and standards. To the best of our knowledge, they represent a reasonable interpretation of the general condition of the site at the time the investigations were carried out.

Under no circumstances, however, can it be considered that these findings represent the actual state of the site at all points. Should any site conditions be encountered during construction that vary significantly from those discussed in this report, Colley Environments should be advised and appropriate action taken.

This report does not provide geotechnical information or information about hazardous building materials in site structures.

13 REFERENCES

1. EnHealth Council (2005), *Management of Asbestos in the Non-Occupational Environment*
2. NEPC (1989), *National Environment Protection (Assessment of Site Contamination) Measure*
3. NSW EPA (1994), *Guidelines for Assessing Service Station Sites*
4. NSW EPA (1995), *Sampling Design Guidelines*
5. NSW EPA (1997), *Guidelines for Consultants Reporting on Contaminated Sites*
6. NSW DEC (2006), *Guidelines for the NSW Auditor Scheme 2nd Ed.*
7. NSW DECC (2008), *Waste Classification Guidelines*

Important information about your **Coffey Environmental Report**

Uncertainties as to what lies below the ground on potentially contaminated sites can lead to remediation costs blow outs, reduction in the value of the land and to delays in the redevelopment of land. These uncertainties are an inherent part of dealing with land contamination. The following notes have been prepared by Coffey to help you interpret and understand the limitations of your report.

Your report has been written for a specific purpose

Your report has been developed on the basis of a specific purpose as understood by Coffey and applies only to the site or area investigated. For example, the purpose of your report may be:

- To assess the environmental effects of an on-going operation
- To provide due diligence on behalf of a property vendor
- To provide due diligence on behalf of a property purchaser
- To provide information related to redevelopment of the site due to a proposed change in use, for example, industrial use to a residential use
- To assess the existing baseline environmental, and sometimes geological and hydrological conditions or constraints of a site prior to an activity which may alter the site's environmental, geological or hydrological condition

For each purpose, a specific approach to the assessment of potential soil and groundwater contamination is required. In most cases, a key objective is to identify and, if possible, quantify risks that both recognised and unrecognised contamination pose to the proposed activity. Such risks may be both financial (for example, clean up costs or limitations to the site use) and physical (for example, potential health risks to users of the site or the general public).

Scope of Investigations

The work was conducted, and the report has been prepared, in response to specific instructions from the client to whom this report is addressed, within practical time and budgetary constraints, and in reliance on certain data and information made available to Coffey. The analyses, evaluations, opinions and conclusions presented in this report are based on those instructions, requirements, data or information, and they could change if such instructions etc. are in fact inaccurate or incomplete.

Subsurface conditions can change

Subsurface conditions are created by natural processes and the activity of man and may change with time. For example, groundwater levels can vary with time, fill may be placed on a site and pollutants may migrate with time. Because a report is based on conditions which existed at the time of the subsurface exploration, decisions should not be based on a report whose adequacy may have been affected by time. Contact Coffey to be advised how time may have impacted on the project and/or on the property.

Interpretation of factual data

Environmental site assessments identify and describe surface conditions only at those points of investigation, are taken and when they are taken. Data can be from indirect field measurements and sometimes from other reports on the site are interpreted by geologists, engineers or scientists to provide an opinion about overall site conditions. Their likely impact will be related to the report purpose and recommendations made. Actual conditions may differ from those inferred to exist, because no professional, no matter how well qualified, can reveal what is hidden by earth over time. The actual interface between nature and say be far more gradual or abrupt than assumed based on the facts obtained. Nothing can be done to measure the actual site conditions which exist, but measures can be taken to reduce the impact of a specific condition. For this reason, parties involved with any acquisition, management and/or redevelopment must retain the services of Coffey through the development and use of the site to identify variations, conduct additional tests if required, and recommend solutions to unexpected conditions or other problems encountered on site.

Important information about your Coffey Environmental Report

Your report will only give preliminary recommendations

Your report is based on the assumption that the site conditions as revealed through selective point sampling are indicative of actual conditions throughout an area. This assumption cannot be substantiated until project implementation has commenced and therefore your report recommendations can only be regarded as preliminary. Only Coffey, who prepared the report, is fully familiar with the background information needed to assess whether or not the report's recommendations are valid and whether or not changes should be considered with redevelopment or on-going use of the site. If another party undertakes the implementation of the recommendations of this report there is a risk that the report will be misinterpreted and Coffey cannot be held responsible for such misinterpretation.

Your report is prepared for specific purposes and persons

To avoid misuse of the information contained in your report it is recommended that you confer with Coffey before passing your report on to another party who may not be familiar with the background and the purpose of the report. In particular, a due diligence report for a property vendor may not be suitable for satisfying the needs of a purchaser. Your report should not be applied for any purpose other than that originally specified at the time the report was issued.

Interpretation by other professionals

Usual problems can occur when other professionals develop their plans based on misinterpretations of a report. To help avoid misinterpretations, retain Coffey to work with other professionals who are affected by the report. Have Coffey explain the report implications to professionals affected by them and then review plans and specifications produced to see how they have incorporated the report findings.

Data should not be separated from the report

The report as a whole presents the findings of the site assessment and the report should not be copied in part or altered in any way. Logs, figures, laboratory data, drawings etc. are customarily included in our reports and are developed by scientists, engineers, or geologists based on their interpretation of field logs (assembled by field personnel), field testing and laboratory evaluation of field samples. This information should not under any circumstances be redrawn for inclusion in other documents or separated from the report in any way.

Contact Coffey for additional assistance

Coffey is familiar with a variety of techniques and approaches that can be used to help reduce risks for all parties to land development and land use. It is common that not all approaches will be necessarily dealt with in your environmental site assessment report due to concepts proposed at that time. As a project progresses through planning and design toward construction and/or maintenance, speak with Coffey to develop alternative approaches to problems that may be of genuine benefit both in time and cost.

Responsibility

Environmental reporting relies on interpretation of factual information based on judgement and opinion and has a level of uncertainty attached to it, which is far less exact than other design disciplines. This has often resulted in claims being lodged against consultants, which are unfounded. To help prevent this problem, a number of clauses have been developed for use in contracts, reports and other documents. Responsibility clauses do not transfer appropriate liabilities from Coffey to other parties but are included to identify where Coffey's responsibilities begin and end. Their use is intended to help all parties involved to recognise their individual responsibilities. Read all documents from Coffey closely and do not hesitate to ask any questions you may have.

Tables

CONTAMINATION ASSESSMENT - SAN Hospital
185 Fox Valley Road, Wahroonga

STUDY OF AN ENDOGENOUS RISK FACTOR FOR HEPATOCELLULAR CARCINOMA

Upravity in $\pi^0\gamma$

215.

6-57281
[unclassified] [unclassified]
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TABLE 8:
SUMMARY OF LABORATORY RESULTS FOR PRELIMINARY WASTE CLASSIFICATION - BUILDING 1
TPH, BTEX, PAH and Heavy Metals

(All results in mg/kg, except TCLP concentrations in mg/L)																				
Sample ID	Material	Date of Sampling	Depth (m)	THRESHOLD CONCENTRATIONS		CBH2	CBH6	CBH6	CBH8	CBH8	CBH11	CBH11	CBH11	CBH11	CBH15	CBH15	CBH19	CBH19	CBH22	CBH22
				GENERAL SOLID WASTE	RESTRICTED SOLID WASTE	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
						0.15-0.25	0.2-0.3	0.4-0.5	0.15-0.30	0.4-0.5	0.0-0.2	0.0-0.2	0.2-0.3	0.90-1.05	0.3-0.5	1.00-1.45	0.3-0.5	1.10-1.45	0.2-0.3	0.4-0.5
HEAVY METALS (Total)																				
	Arsenic			500 ¹	2000 ⁴	5.8	2.7	3.8	2.4	<2	4.3	5.6	3.8	<2	<2	2.5	<2	<2	<2	<2
	Cadmium			100 ¹	400 ⁴	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Chromium			1900 ¹	7600 ⁴	14	88	16	27	10	14	16	42	12	7.4	16	9	11	<2	<2
	Lead			1500 ¹	6000 ⁴	16	<5	9.2	6	<5	70	75	10	13	7.6	14	8.1	14	<5	<5
	Nickel			1050 ¹	4200 ⁴	<5	67	<5	25	<5	<5	<5	<5	<5	<5	6.3	<5	5	<5	<5
	Mercury			50 ¹	200 ⁴	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
HEAVY METALS TCLP																				
	Arsenic			5.0 ¹	20 ⁴	-	-	-	-	-	-	<0.01	-	-	-	-	-	-	-	-
	Cadmium			1.0 ¹	4 ⁴	-	-	-	-	-	-	<0.01	-	-	-	-	-	-	-	-
	Chromium			5 ¹	20 ⁴	-	-	-	-	-	-	<0.01	-	-	-	-	-	-	-	-
	Lead			5 ¹	20.0 ⁴	-	-	-	-	-	-	0.01	-	-	-	-	-	-	-	-
	Nickel			2 ¹	8 ⁴	-	-	-	-	-	-	<0.01	-	-	-	-	-	-	-	-
	Mercury			0.2 ¹	0.8 ⁴	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PETROLEUM HYDROCARBONS																				
	C6 - C8 Fraction			650 ¹	2600 ⁴	<20	-	<20	-	<20	-	-	<20	<20	<20	-	<20	-	<20	<20
	C10 - C14 Fraction					<50	-	<50	-	<50	-	-	<50	<50	<50	-	<50	-	<50	<50
	C15 - C28 Fraction					<100	-	<100	-	<100	-	-	<100	<100	<100	-	<100	-	<100	<100
	C29 - C36 Fraction					<100	-	<100	-	<100	-	-	<100	<100	<100	-	<100	-	<100	<100
	Total C10-C36			10000 ¹	40000 ⁴	ND	-	ND	-	ND	-	-	ND	ND	ND	-	ND	-	ND	ND
BTEX																				
	Benzene			10 ²	40 ⁴	<0.05	-	<0.05	-	<0.1	-	-	<0.1	<0.05	-	-	<0.05	-	<0.05	<0.05
	Toluene			280 ²	1152 ⁴	<0.05	-	<0.05	-	<0.1	-	-	<0.1	<0.05	-	-	<0.05	-	<0.05	<0.05
	Ethylbenzene			600 ³	2400 ⁴	<0.05	-	<0.05	-	<0.1	-	-	<0.1	<0.05	-	-	<0.05	-	<0.05	<0.05
	Total Xylene			1000 ³	4000 ⁴	<0.05	-	<0.05	-	<0.1	-	-	<0.1	<0.05	-	-	<0.05	-	<0.05	<0.05
POLYCYCLIC AROMATIC HYDROCARBONS																				
	Benz(a)pyrene			10 ¹	23 ⁴	-	<0.1	0.3	<0.1	<0.1	-	0.4	-	-	<0.1	<0.1	-	-	-	<0.1
	Total PAH ¹			200 ¹	800 ⁴	-	ND	3.9	0.3	ND	-	7.9	-	-	ND	ND	-	-	-	ND
PAH TCLP																				
	Benz(a)pyrene			0.04 ²	0.16 ³	-	-	-	-	-	-	<0.001	-	-	-	-	-	-	-	-
	Total PAH ¹																			
OCF																				
	OCF			<50 ¹	<50 ⁴	-	-	-	-	ND	-	-	-	-	-	-	-	-	ND	-
PCB																				
	PCB																			
Asbestos																				
	Asbestos																			

NOTES:

- Concentration exceed the respective General Solid Waste Criteria
- Concentration exceed the respective Restricted Solid Waste Criteria
- Based on NSW DEC (2004) Environmental Guidelines Assessment, Classification & Management of Liquid and Non-Liquid Wastes.
- ¹ Specific Contaminant Concentration (SCC1) for General Solid Waste
- ² Leachable Concentration (TCLP1) for General Solid Waste
- ³ Contamination Threshold Value (CT1) for General Solid Waste
- ⁴ Specific Contaminant Concentration (SCC2) for Restricted Solid Waste
- ⁵ Leachable Concentration (TCLP2) for Restricted Solid Waste
- ⁶ Contamination Threshold Value (CT2) for Restricted Solid Waste
- ND: Not Detected
- Not Tested
- Total PAHs is the sum of detectable concentrations of individual PAH compounds
- See original laboratory reports for detection limits

TABLE 9 (Continued):
SUMMARY OF LABORATORY RESULTS FOR PRELIMINARY WASTE CLASSIFICATION - BUILDING 2
TPH, BTEX, PAH and Heavy Metals

(All results in mg/kg, except TCLP concentrations in mg/L)

Sample ID	Material	Date of Sampling	Depth (m)	CBH14 Soil 17-Mar-08 0.3-0.5	CBH14 Soil 17-Mar-08 1.00-1.45	CBH14 Soil 17-Mar-08 2.50-2.65	CBH17 Soil 19-Mar-08 0.2-0.3	CBH17 Soil 19-Mar-08 0.4-0.5	CBH17 Soil 19-Mar-08 2.70-2.95	CBH23 Soil 26-Mar-08 0.3-0.4	CBH23 Soil 26-Mar-08 0.6-1.0	CBH24 Soil 26-Mar-08 0.4-0.5	CBH24 Soil 26-Mar-08 0.6-1.0	CBH25 Soil 26-Mar-08 0.3-0.4	CBH25 Soil 26-Mar-08 0.7-0.8	CBH26 Soil 26-Mar-08 0.0-0.1	CBH27 Soil 26-Mar-08 0.1-0.2
				THRESHOLD CONCENTRATIONS													
				GENERAL SOLID WASTE	RESTRICTED SOLID WASTE												
HEAVY METALS (Total)				500 ¹	2000 ⁴												
Arsenic				100 ¹	400 ⁴	3.5	2.8	< 2	< 2	< 2	3.4	7.3	< 2	< 2	2	3.3	2.2
Cadmium				100 ¹	400 ⁴	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Chromium				1500 ¹	7600 ⁴	19	19	40	17	51	11	21	< 5	46	23	22	16
Lead				1500 ¹	6000 ⁴	19	14	7.8	6.4	< 5	< 5	13	14	13	11	55	55
Nickel				1050 ¹	4200 ⁴	< 5	< 5	36	< 5	42	< 5	5.1	< 5	32	< 5	7	7.9
Mercury				50 ¹	200 ⁴	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
HEAVY METALS TCLP																	
Arsenic				5.0 ²	20 ³	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium				1.0 ³	4 ³	-	-	-	-	-	-	-	-	-	-	-	-
Chromium				5 ³	20 ³	-	-	-	-	-	-	-	-	-	-	-	-
Lead				5 ³	20.0 ³	-	-	-	-	-	-	-	-	-	-	-	-
Nickel				2 ³	8 ³	-	-	-	-	-	-	-	-	-	-	-	-
Mercury				0.2 ³	0.8 ³	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PETROLEUM HYDROCARBONS																	
C6 - C9 Fraction				< 20	2600 ⁴	-	-	< 20	-	-	< 20	< 20	-	-	< 20	< 20	< 20
C10 - C14 Fraction				< 50	-	-	-	< 50	-	-	< 50	< 50	-	-	< 50	< 50	< 50
C15 - C26 Fraction				< 100	-	-	-	< 100	-	-	< 100	< 100	-	-	< 100	< 100	< 100
C29 - C36 Fraction				< 100	-	-	-	< 100	-	-	< 100	< 100	-	-	< 100	< 100	< 100
Total C10-C36				10000 ¹	40000 ⁴	-	-	ND	-	-	ND	ND	-	-	ND	ND	110
BTEX																	
Benzene				10 ³	40 ³	< 0.05	-	< 0.05	-	-	< 0.05	< 0.05	-	-	< 0.05	< 0.05	< 0.05
Toluene				268 ³	1162 ³	< 0.05	-	< 0.05	-	-	< 0.05	< 0.05	-	-	< 0.05	< 0.05	< 0.05
Ethylbenzene				500 ³	2400 ³	< 0.05	-	< 0.05	-	-	< 0.05	< 0.05	-	-	< 0.05	< 0.05	< 0.05
Total Xylene				1000 ³	4000 ³	< 0.05	-	< 0.05	-	-	< 0.05	< 0.05	-	-	< 0.05	< 0.05	< 0.05
POLYCYCLIC AROMATIC HYDROCARBONS																	
Benzo(a)pyrene				10 ¹	23 ³	< 0.1	-	-	< 0.1	< 0.1	-	-	< 0.1	< 0.1	-	< 0.1	< 0.1
Total PAH*				200 ¹	800 ⁴	ND	-	-	ND	ND	-	-	ND	ND	-	0.7	0.1
PAH TCLP																	
Benzo(a)pyrene				0.04 ³	0.16 ³	-	-	-	-	-	-	-	-	-	-	-	-
Total PAH*																	
OCP																	
PCB				< 50 ¹	< 50 ⁴	-	-	-	-	-	-	-	-	-	-	ND	ND
Asbestos																	

NOTES:

Concentration exceed the respective General Solid Waste Criteria
Concentration exceed the respective Restricted Solid Waste Criteria

Based on NSW DEC (2004) Environmental Guidelines Assessment, Classification & Management of Liquid and Non-Liquid Wastes.

¹ Specific Contaminant Concentration (SCC1) for General Solid Waste

² Leachable Concentration (TCLP1) for General Solid Waste

³ Contamination Threshold Value (CT1) for General Solid Waste

⁴ Specific Contaminant Concentration (SCC2) for Restricted Solid Waste

⁵ Leachable Concentration (TCLP2) for Restricted Solid Waste

⁶ Contamination Threshold Value (CT2) for Restricted Solid Waste

ND Not Detected

⁷ Not Tested

⁸ Total PAHs is the sum of detectable concentrations of individual PAH compounds

See original laboratory reports for detection limits

TABLE 8:
SUMMARY OF LABORATORY RESULTS FOR PRELIMINARY WASTE CLASSIFICATION - BUILDING 1
TPH, BTEX, PAH and Heavy Metals

(All results in mg/kg, except TCLP concentrations in mg/L)

Sample ID	THRESHOLD CONCENTRATIONS	CBH2	CBH6	CBH6	CBH6	CBH8	CBH8	CBH8	CBH11	CBH11	CBH11	CBH11	CBH15	CBH15	CBH19	CBH19	CBH22	CBH22	CBH22
Date of Sampling		10-Mar-08	12-Mar-08	12-Mar-08	12-Mar-08	13-Mar-08	13-Mar-08	13-Mar-08	14-Mar-08	14-Mar-08	14-Mar-08	14-Mar-08	18-Mar-08	18-Mar-08	20-Mar-08	20-Mar-08	25-Mar-08	25-Mar-08	25-Mar-08
Depth (m)		0.15-0.25	0.2-0.3	0.4-0.5	0.4-0.5	0.15-0.30	0.4-0.5	0.4-0.5	0.0-0.2	0.2-0.3	0.0-0.2	0.0-0.2	0.3-0.5	0.3-0.5	0.3-0.5	0.3-0.5	0.4-0.5	1.00-1.35	1.00-1.35
	GENERAL SOLID WASTE	RESTRICTED SOLID WASTE																	
HEAVY METALS (Total)																			
Arsenic	500 ¹	2000 ¹	5.8	3.8	2.4	2.4	4.3	4.3	5.6	3.8	4.2	2.5	4.2	4.2	2.5	4.2	4.2	4.2	4.2
Cadmium	100 ¹	400 ¹	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	1900 ¹	7600 ¹	14	88	27	10	14	14	16	42	7.4	16	7.4	16	16	8	11	11	22
Lead	1500 ¹	6000 ¹	16	9.2	6	7.5	7.5	7.5	10	13	7.5	13	7.5	13	13	8.1	14	14	<5
Nickel	1050 ¹	4200 ¹	<5	67	25	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Mercury	50 ¹	200 ¹	<0.1	<0.1	<0.1	<0.1	0.2	0.2	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
HEAVY METALS TCLP																			
Arsenic	5.0 ²	20 ³	-	-	-	-	-	-	<0.01	-	-	-	-	-	-	-	-	-	-
Cadmium	1.0 ²	4 ³	-	-	-	-	-	-	<0.01	-	-	-	-	-	-	-	-	-	-
Chromium	5 ²	20 ³	-	-	-	-	-	-	<0.01	-	-	-	-	-	-	-	-	-	-
Lead	5 ²	20.0 ³	-	-	-	-	-	-	0.01	-	-	-	-	-	-	-	-	-	-
Nickel	2 ²	8 ³	-	-	-	-	-	-	<0.01	-	-	-	-	-	-	-	-	-	-
Mercury	0.2 ²	0.8 ³	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PETROLEUM HYDROCARBONS																			
CB - C9 Fraction	650 ¹	2600 ¹	<20	<20	-	-	-	-	-	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
C10 - C14 Fraction			<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
C15 - C26 Fraction			<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
C29 - C36 Fraction			<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Total C10-C36	10000 ¹	40000 ¹	ND	ND	-	-	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BTEX																			
Benzene	10 ²	40 ³	<0.05	<0.05	-	-	-	-	-	<0.1	<0.05	-	-	<0.05	-	<0.05	-	<0.05	-
Toluene	288 ³	1152 ³	<0.05	<0.05	-	-	-	-	-	<0.1	<0.05	-	-	<0.05	-	<0.05	-	<0.05	-
Ethylbenzene	600 ³	2400 ³	<0.05	<0.05	-	-	-	-	-	<0.1	<0.05	-	-	<0.05	-	<0.05	-	<0.05	-
Total Xylene	1000 ³	4000 ³	<0.05	<0.05	-	-	-	-	-	<0.1	<0.05	-	-	<0.05	-	<0.05	-	<0.05	-
POLYCYCLIC AROMATIC HYDROCARBONS																			
Benzo(a)pyrene	10 ¹	23 ¹	-	<0.1	0.3	<0.1	<0.1	<0.1	0.4	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total PAH ⁴	200 ¹	800 ¹	-	ND	3.9	0.3	ND	ND	7.9	-	-	ND	ND	ND	ND	ND	ND	ND	ND
PAH TCLP																			
Benzo(a)pyrene	0.04 ²	0.16 ³	-	-	-	-	-	-	<0.001	-	-	-	-	-	-	-	-	-	-
Total PAH ⁴			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OCF																			
PCB	<50 ³	<50 ³	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Asbestos			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

NOTES:

Concentration exceed the respective General Solid Waste Criteria
Concentration exceed the respective Restricted Solid Waste Criteria

Based on NSW DEC (2004) Environmental Guidelines Assessment, Classification & Management of Liquid and Non-Liquid Wastes.

¹ Specific Contaminant Concentration (SCC1) for General Solid Waste

² Leachable Concentration (TCLP1) for General Solid Waste

³ Contamination Threshold Value (CT1) for General Solid Waste

⁴ Specific Contaminant Concentration (SCC2) for Restricted Solid Waste

⁵ Leachable Concentration (TCLP2) for Restricted Solid Waste

⁶ Contamination Threshold Value (CT2) for Restricted Solid Waste

⁷ Not Detected

⁸ Not Tested

⁹ Total PAHs is the sum of detectable concentrations of individual PAH compounds

See original laboratory reports for detection limits

TABLE 9 (Continued):
SUMMARY OF LABORATORY RESULTS FOR PRELIMINARY WASTE CLASSIFICATION - BUILDING 2
TPH, BTX, PAH and Heavy Metals

(All results in mg/kg, except TCLP concentrations in mg/L)

Sample ID	Material	Depth (m)	CBH14 Soil 17-Mar-08 0.3-0.5	CBH14 Soil 17-Mar-08 1.0-1.45	CBH14 Soil 17-Mar-08 2.50-2.65	CBH14 Soil 19-Mar-08 0.2-0.3	CBH17 Soil 19-Mar-08 0.4-0.5	CBH17 Soil 19-Mar-08 2.70-2.95	CBH23 Soil 26-Mar-08 0.3-0.4	CBH23 Soil 26-Mar-08 0.8-1.0	CBH24 Soil 26-Mar-08 0.4-0.5	CBH24 Soil 26-Mar-08 0.8-1.0	CBH25 Soil 26-Mar-08 0.3-0.4	CBH25 Soil 26-Mar-08 0.7-0.8	CBH26 Soil 26-Mar-08 0.0-0.1	CBH27 Soil 26-Mar-08 0.1-0.2
			THRESHOLD CONCENTRATIONS													
			GENERAL SOLID WASTE													
			RESTRICTED SOLID WASTE													
HEAVY METALS (Total)			500 ¹	2000 ⁴												
Arsenic			-	3.5	2.8	< 2	-	< 2	< 2	3.4	7.3	< 2	< 2	2	3.3	2.2
Cadmium			-	< 0.5	< 0.5	< 0.5	-	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Chromium			1900 ¹	19	19	40	-	17	51	11	21	< 5	46	23	22	16
Lead			1500 ¹	19	14	7.8	-	6.4	< 5	< 5	11	14	55	11	55	55
Nickel			1050 ¹	< 5	< 5	36	-	< 5	42	< 5	5.1	< 5	32	< 5	7	7.9
Mercury			50 ¹	< 0.1	< 0.1	< 0.1	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
HEAVY METALS TCLP																
Arsenic			5.0 ²	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium			1.0 ²	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium			5 ²	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead			5 ²	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel			2 ²	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury			0.2 ²	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PETROLEUM HYDROCARBONS																
C6 - C9 Fraction			650 ¹	< 20	-	-	< 20	-	-	< 20	< 20	-	-	< 20	< 20	< 20
C10 - C14 Fraction			-	< 50	-	-	< 50	-	-	< 50	< 50	-	-	< 50	< 50	< 50
C15 - C28 Fraction			-	< 100	-	-	< 100	-	-	< 100	< 100	-	-	< 100	< 100	< 100
C29 - C36 Fraction			-	< 100	-	-	< 100	-	-	< 100	< 100	-	-	< 100	< 100	< 100
Total C10-C36			10000 ¹	ND	-	-	ND	-	-	ND	ND	-	-	ND	ND	110
BTX																
Benzene			10 ³	< 0.05	-	-	< 0.05	-	-	< 0.05	< 0.05	-	-	< 0.05	< 0.05	< 0.05
Toluene			268 ³	< 0.05	-	-	< 0.05	-	-	< 0.05	< 0.05	-	-	< 0.05	< 0.05	< 0.05
Ethylbenzene			600 ³	< 0.05	-	-	< 0.05	-	-	< 0.05	< 0.05	-	-	< 0.05	< 0.05	< 0.05
Total Xylene			1000 ³	< 0.05	-	-	< 0.05	-	-	< 0.05	< 0.05	-	-	< 0.05	< 0.05	< 0.05
POLYCYCLIC AROMATIC HYDROCARBONS																
Benzo(a)pyrene			10 ¹	-	< 0.1	-	-	< 0.1	< 0.1	-	-	< 0.1	< 0.1	-	< 0.1	< 0.1
Total PAH ⁴			200 ¹	ND	-	-	-	ND	ND	-	-	ND	ND	-	0.7	0.1
PAH TCLP																
Benzo(a)pyrene			0.04 ²	-	-	-	-	-	-	-	-	-	-	-	-	-
Total PAH ⁴			-	-	-	-	-	-	-	-	-	-	-	-	-	-
OCP																
PCB			< 50 ¹	-	-	-	-	-	-	-	-	-	-	-	ND	ND
Asbestos			-	-	ND	ND	-	-	-	-	-	-	-	-	-	-

NOTES:

- Concentration exceed the respective General Solid Waste Criteria
- Concentration exceed the respective Restricted Solid Waste Criteria
- Based on NSW DEC (2004) Environmental Guidelines Assessment, Classification & Management of Liquid and Non-Liquid Wastes.
- ¹ Specific Contaminant Concentration (SCC1) for General Solid Waste
- ² Leachable Concentration (TCLP1) for General Solid Waste
- ³ Contamination Threshold Value (CT1) for General Solid Waste
- ⁴ Specific Contaminant Concentration (SCC2) for Restricted Solid Waste
- ⁵ Leachable Concentration (TCLP2) for Restricted Solid Waste
- ⁶ Contamination Threshold Value (CT2) for Restricted Solid Waste
- ⁷ Not Detected
- ⁸ Not Tested
- ⁹ Total PAHs is the sum of detectable concentrations of individual PAH compounds
- See original laboratory reports for detection limits

TABLE 10:
SUMMARY OF LABORATORY RESULTS FOR PRELIMINARY WASTE CLASSIFICATION - BUILDING 3
TPH, BTEX, PAH and Heavy Metals

(All results in mg/kg, except TCLP concentrations in mg/L)

Sample ID	Material	Date of Sampling	Depth (m)	THRESHOLD CONCENTRATIONS	CBH1 Soil 10-Mar-08 0.0-0.1	CBH1 Soil 10-Mar-08 1.2-1.45	CBH1 Soil 10-Mar-08 2.65-2.95	CBH3 Soil 10-Mar-08 0.00-0.15	CBH3 Soil 10-Mar-08 2.65-2.90	CBH3 Soil 10-Mar-08 5.7-5.95	CBH7 Soil 12-Mar-08 0.00-0.15	CBH7 Soil 12-Mar-08 1.0-1.3	CBH7 Soil 12-Mar-08 2.8-2.9	CBH16 Soil 19-Mar-08 0.1-0.2	CBH16 Soil 19-Mar-08 1.15-1.30	CBH16 Soil 19-Mar-08 2.60-2.75	CBH16 Soil 19-Mar-08 4.25-4.39	CBH18 Soil 19-Mar-08 0.3-0.5	CBH18 Soil 19-Mar-08 1.2-1.3	CBH18 Soil 19-Mar-08 1.30-1.45	CBH18 Soil 19-Mar-08 2.60-2.95	CBH18 Soil 20-Mar-08 4.10-4.45	CBH18 Soil 20-Mar-08 5.60-5.95
				GENERAL SOLID WASTE																			
				RESTRICTED SOLID WASTE																			
				HEAVY METALS (Total)																			
	Arsenic			500 ¹	<2	<2	<2	6.4	-	<2	22	3.2	5.7	2.4	2.4	2.3	2.9	<2	-	<2	-	2.7	<2
	Cadmium			100 ¹	<0.5	<0.5	<0.5	<0.5	-	<0.5	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5
	Chromium			1900 ¹	20	5.9	120	25	7.8	25	26	19	120	20	21	22	19	20	13	25	-	13	21
	Lead			1500 ¹	21	-	11	280	-	17	12	18	<5	29	17	17	22	32	-	16	-	27	21
	Nickel			1050 ¹	11	<5	51	51	-	<5	11	<5	<5	8.3	8.2	<5	<5	9.9	-	20	-	5.7	<5
	Mercury			50 ¹	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	-	<0.1	<0.1
				HEAVY METALS TCLP																			
	Arsenic			5.0 ²	-	-	-	<0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Cadmium			1.0 ²	-	-	-	<0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Chromium			5 ²	-	-	-	<0.01	-	-	-	-	0.03	-	-	-	-	-	-	-	-	-	-
	Lead			20.0 ²	-	-	-	<0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Nickel			2 ²	-	-	-	<0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Mercury			0.2 ²	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				TOTAL PETROLEUM HYDROCARBONS																			
	C6 - C9 Fraction			650 ¹	-	<20	<50	-	-	<20	-	<20	<20	<20	<20	<20	<20	<20	-	<20	<20	<20	<20
	C10 - C14 Fraction			-	-	<50	<100	-	-	<50	-	<50	<50	<50	<50	<50	<50	<50	-	<50	<50	<50	<50
	C15 - C28 Fraction			-	-	<100	<100	-	-	<100	-	<100	<100	<100	<100	<100	<100	<100	-	<100	<100	<100	<100
	C29 - C36 Fraction			-	-	<100	<100	-	-	<100	-	<100	<100	<100	<100	<100	<100	<100	-	<100	<100	<100	<100
	Total C10-C36			40000 ¹	-	ND	ND	-	-	ND	-	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND
				BTEX																			
	Benzene			10 ³	-	<0.05	<0.05	-	-	<0.05	-	<0.1	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05
	Toluene			288 ³	-	<0.05	<0.05	-	-	<0.05	-	<0.1	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05
	Ethylbenzene			600 ³	-	<0.05	<0.05	-	-	<0.05	-	<0.1	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05
	Total Xylene			1000 ³	-	<0.05	<0.05	-	-	<0.05	-	<0.1	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05
				POLYCYCLIC AROMATIC HYDROCARBONS																			
	Benzo(a)pyrene			10 ¹	-	<0.1	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1
	Total PAH ⁴			200 ¹	-	ND	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.6	-	ND	-	ND	ND
				PAH TCLP																			
	Benzo(a)pyrene			0.04 ⁵	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total PAH ⁶			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				OCF																			
	OCF			<50 ⁷	ND	-	-	-	-	-	ND	ND	ND	ND	ND	-	ND	-	-	-	-	-	-
				PCB																			
	PCB			<50 ⁷	ND	-	-	-	-	-	-	ND	ND	ND	-	-	-	-	-	-	-	-	-
				Asbestos																			
	Asbestos			-	-	-	-	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-

NOTES:

- Concentration exceed the respective General Solid Waste Criteria
- Concentration exceed the respective Restricted Solid Waste Criteria
- Based on NSW DEC (2004) Environmental Guidelines Assessment, Classification & Management of Liquid and Non-Liquid Wastes.
- ¹ Specific Contaminant Concentration (SCC1) for General Solid Waste
- ² Leachable Concentration (TCLP1) for General Solid Waste
- ³ Contamination Threshold Value (CT1) for General Solid Waste
- ⁴ Specific Contaminant Concentration (SCC2) for Restricted Solid Waste
- ⁵ Leachable Concentration (TCLP2) for Restricted Solid Waste
- ⁶ Contamination Threshold Value (CT2) for Restricted Solid Waste
- ⁷ Not Detected
- ⁸ Not Tested
- Total PAHs is the sum of detectable concentrations of individual PAH compounds
- See original laboratory reports for detection limits

TABLE 10 (Continued):
SUMMARY OF LABORATORY RESULTS FOR PRELIMINARY WASTE CLASSIFICATION - BUILDING 3
TPH, BTEX, PAH and Heavy Metals

(All results in mg/kg, except TCLP concentrations in mg/L)											
Sample ID	THRESHOLD CONCENTRATIONS		CBH20	CBH20	CBH20	CBH20	CBH20	CBH21	CBH21	CBH21	CBH21
Material			Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Date of Sampling			20-Mar-08	20-Mar-08	25-Mar-08	25-Mar-08	25-Mar-08	25-Mar-08	25-Mar-08	8-Mar-08	8-Mar-08
Depth (m)			0.3-0.5	2.60-2.95	4.1-4.45	6.74-6.80	0.4-0.5	1.00-1.45	2.70-2.95	4.10-4.45	
GENERAL SOLID WASTE			RESTRICTED SOLID WASTE								
HEAVY METALS (Total)											
Arsenic	500 ¹	2000 ⁴	3.2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Cadmium	100 ¹	400 ⁴	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	1900 ¹	7600 ⁴	15	20	18	16	9.2	16	21	21	6.1
Lead	1500 ¹	6000 ⁴	44	24	21	9.4	16	20	26	26	58
Nickel	1050 ¹	4200 ⁴	6.2	15	8.3	< 5	< 5	5.1	13	13	< 5
Mercury	50 ¹	200 ⁴	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
HEAVY METALS TCLP											
Arsenic	5.0 ²	20 ³	-	-	-	-	-	-	-	-	-
Cadmium	1.0 ²	4 ⁴	-	-	-	-	-	-	-	-	-
Chromium	5 ²	20 ³	-	-	-	-	-	-	-	-	-
Lead	5 ²	20.0 ³	-	-	-	-	-	-	-	-	-
Nickel	2 ²	8 ³	-	-	-	-	-	-	-	-	-
Mercury	0.2 ²	0.8 ³	-	-	-	-	-	-	-	-	-
TOTAL PETROLEUM HYDROCARBONS											
C6 - C9 Fraction	650 ¹	2600 ⁴	-	< 20	< 20	< 20	< 20	< 20	< 20	< 20	-
C10 - C14 Fraction	-	-	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	-
C15 - C28 Fraction	-	-	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	-
C29 - C36 Fraction	-	-	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	-
Total C10-C36	10000 ¹	40000 ⁴	ND	ND	ND	ND	ND	ND	ND	ND	-
BTEX											
Benzene	10 ²	40 ⁵	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-
Toluene	288 ³	1152 ⁶	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-
Ethylbenzene	600 ³	2400 ⁶	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-
Total Xylene	1000 ³	4000 ⁶	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-
POLYCYCLIC AROMATIC HYDROCARBONS											
Benzo(a)pyrene	10 ¹	23 ⁴	0.2	< 0.1	< 0.1	-	0.2	< 0.1	< 0.1	< 0.1	-
Total PAH ^a	200 ¹	800 ⁴	1.2	ND	ND	-	1.7	ND	ND	ND	-
PAH TCLP											
Benzo(a)pyrene	0.04 ²	0.16 ⁵	-	-	-	-	< 0.001	-	-	-	-
Total PAH ^a	-	-	-	-	-	-	-	-	-	-	-
OCF											
PCB	<50 ¹	<50 ⁴	-	-	-	-	-	-	-	-	-
Asbestos	-	-	-	ND	-	-	-	-	-	-	-

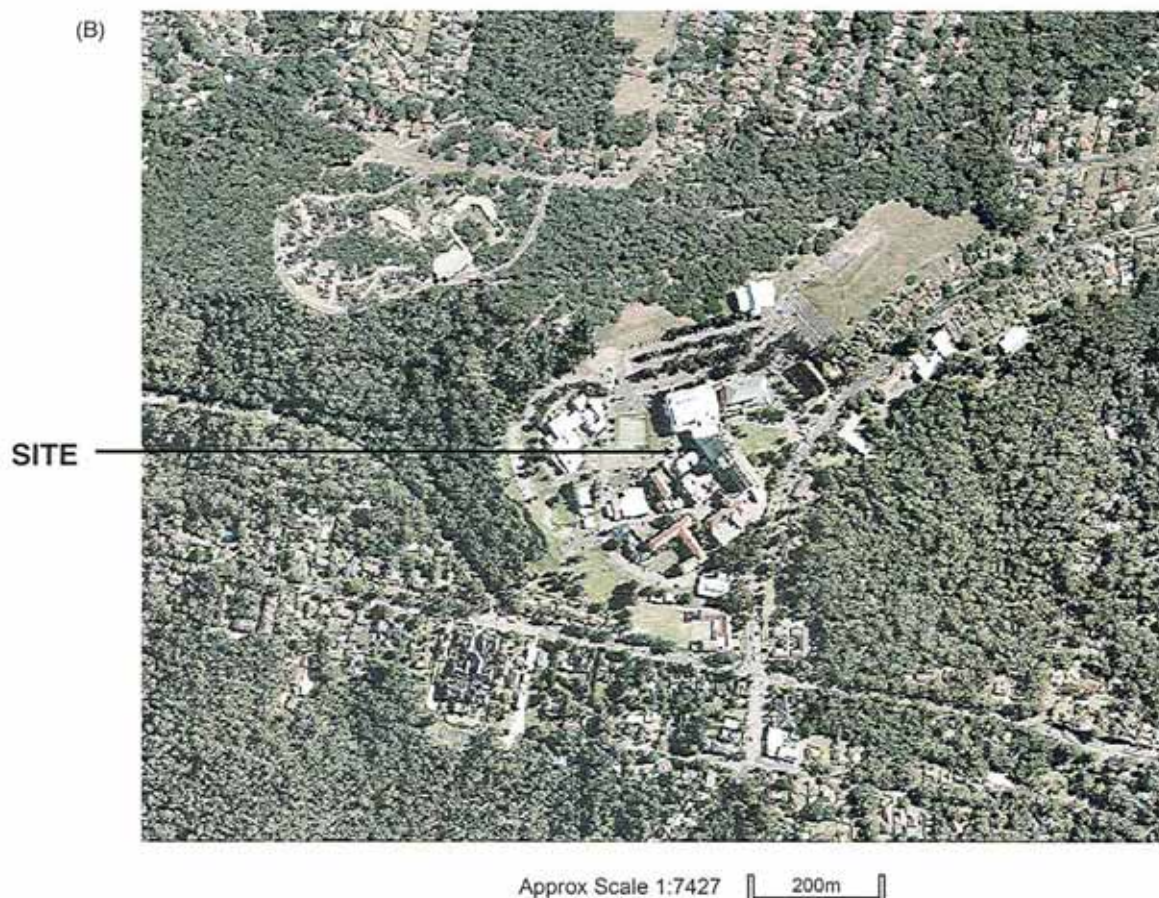
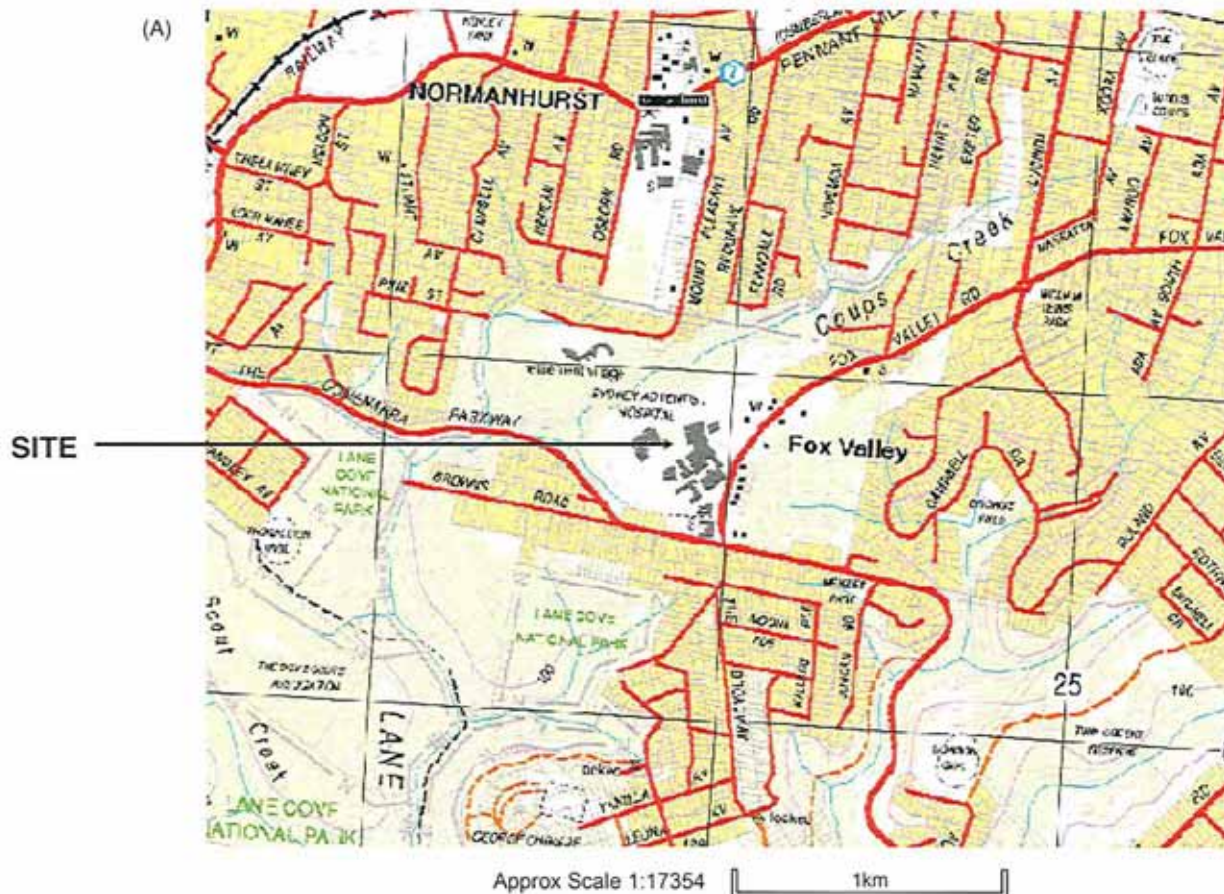
NOTES:

- Concentration exceeded the respective General Solid Waste Criteria
- Concentration exceeded the respective Restricted Solid Waste Criteria
- Based on NSW DEC (2004) Environmental Guidelines Assessment, Classification & Management of Liquid and Non-Liquid Wastes.
- ¹ Specific Contaminant Concentration (SCC1) for General Solid Waste
- ² Leachable Concentration (TCLP1) for General Solid Waste
- ³ Contamination Threshold Value (CT1) for General Solid Waste
- ⁴ Specific Contaminant Concentration (SCC2) for Restricted Solid Waste
- ⁵ Leachable Concentration (TCLP2) for Restricted Solid Waste
- ⁶ Contamination Threshold Value (CT2) for Restricted Solid Waste
- ND Not Detected
- ⁻ Not Tested

Total PAHs is the sum of detectable concentrations of individual PAH compounds
See original laboratory reports for detection limits

Figures

CONTAMINATION ASSESSMENT - SAN Hospital
185 Fox Valley Road, Wahoonga



Reference:

Department of Lands - Spatial Information Exchange

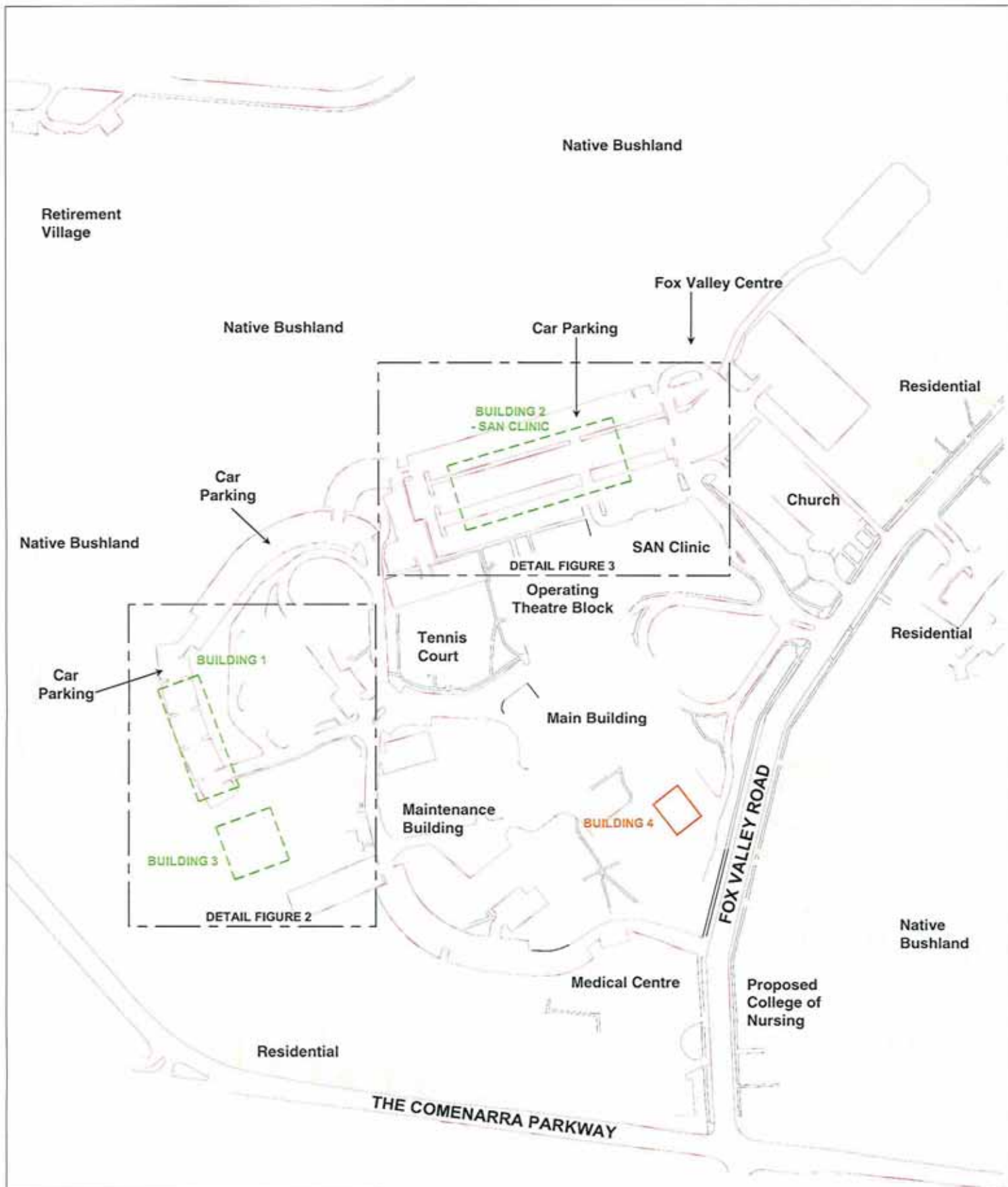
(A) Hornsby 1:25,000 Topographic Map 91304S

(B) Sydney-Newcastle Aerial Photo 2008

drawn	DJD
approved	JMF
date	30/5/08
scale	AS SHOWN
original size	A3

coffey
environments
SPECIALISTS IN LIVING
AND WORKING PLACES

client:	TAYLOR THOMSON WHITTING
project:	CONTAMINATION ASSESSMENT - SAN HOSPITAL 185 FOX VALLEY ROAD WAHROONGA, NSW
title:	SITE LOCALITY PLAN
project no:	GEOTLCOV23462AA-AG
figure no:	1



LEGEND:

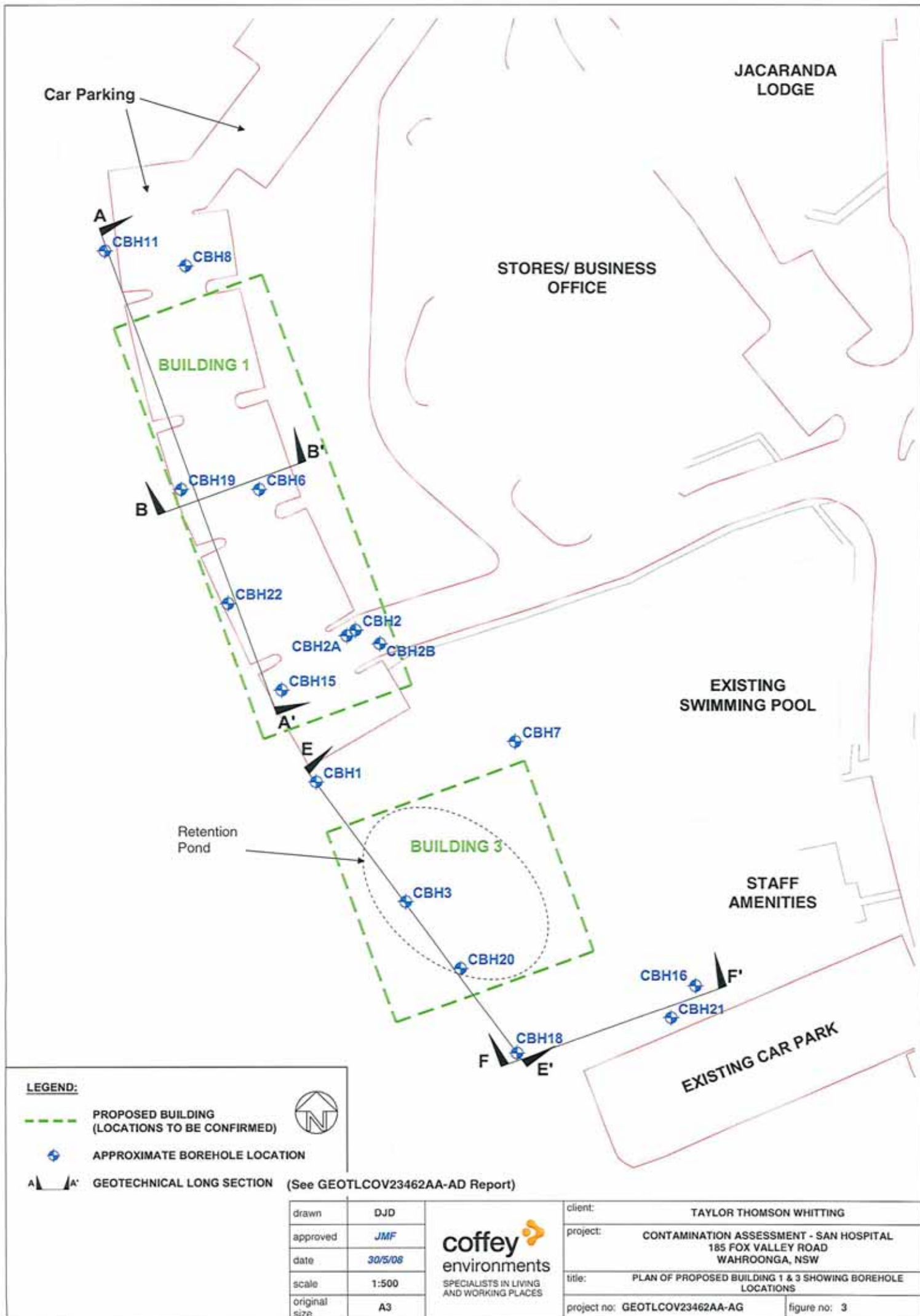
- PROPOSED BUILDING
(LOCATIONS TO BE CONFIRMED)
- EXISTING BUILDING



drawn	SH/LT/DJD
approved	JMF
date	30/5/08
scale	1:2000
original size	A3

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client:	TAYLOR THOMSON WHITTING
project:	CONTAMINATION ASSESSMENT - SAN HOSPITAL 185 FOX VALLEY ROAD WAHROONGA, NSW
title:	SITE LAYOUT PLAN
project no:	GEOTLCOV23462AA-AG
figure no:	2



LEGEND:

--- PROPOSED BUILDING
(LOCATIONS TO BE CONFIRMED)

◆ APPROXIMATE BOREHOLE LOCATION

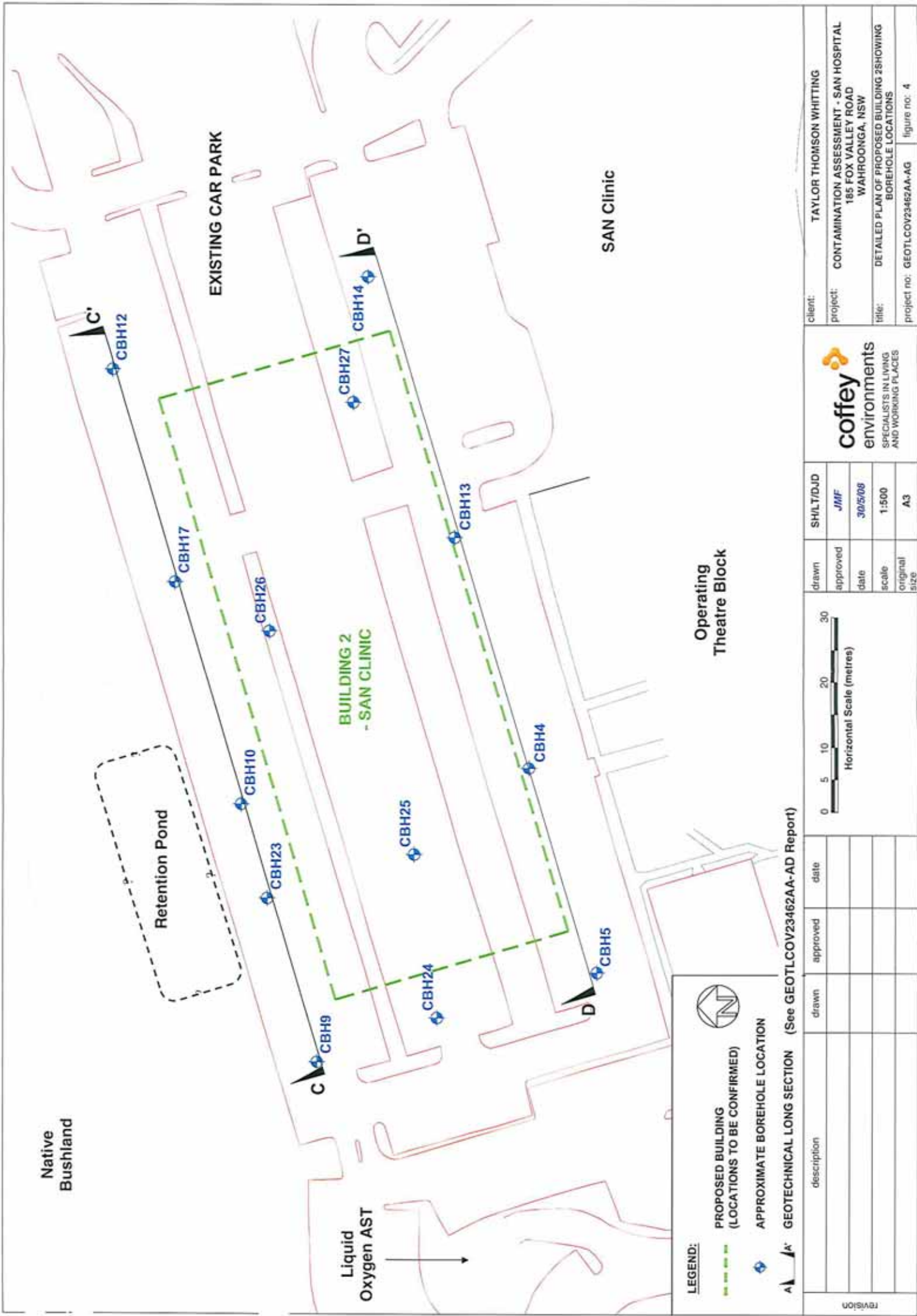
A-A' GEOTECHNICAL LONG SECTION (See GEOTLCOV23462AA-AD Report)



drawn	DJD
approved	JMF
date	30/5/08
scale	1:500
original size	A3

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environments
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AND WORKING PLACES

client:	TAYLOR THOMSON WHITTING
project:	CONTAMINATION ASSESSMENT - SAN HOSPITAL 185 FOX VALLEY ROAD WAHROONGA, NSW
title:	PLAN OF PROPOSED BUILDING 1 & 3 SHOWING BOREHOLE LOCATIONS
project no:	GEOTLCOV23462AA-AG
figure no:	3



LEGEND:

- PROPOSED BUILDING (LOCATIONS TO BE CONFIRMED)
- APPROXIMATE BOREHOLE LOCATION

A-A' GEOTECHNICAL LONG SECTION (See GEOTLCOV23462AA-AD Report)

revision	description				date			
	drawn				approved			
	drawn				approved			
	drawn				approved			

drawn	approved	date
JMF		30/5/08
scale	original	1:500
size		A3

SHULT/DJD

coffey environments
SPECIALISTS IN LIVING AND WORKING PLACES

client:	TAYLOR THOMSON WHITTING
project:	CONTAMINATION ASSESSMENT - SAN HOSPITAL 185 FOX VALLEY ROAD WAHROONGA, NSW
title:	DETAILED PLAN OF PROPOSED BUILDING 2SHOWING BOREHOLE LOCATIONS
project no:	GEOTLCOV23462AA-AG
figure no:	4

Appendix A Site History and Groundwater Bore Search Results

CONTAMINATION ASSESSMENT - SAN Hospital
185 Fox Valley Road, Wahroonga

A1 LAND TITLE SEARCH

A search through land titles dating back to 1870 was carried out by Advance Legal Search Pty Ltd at the Lands Title Office, for Lot 62 DP1017514 within which the proposed Buildings 1 to 3 are located.

The title records indicate that between 1870 and 1903, the registered proprietors included individuals with occupations of business manager, physician, minister of gospel, architect, widow, grantee and esquire.

From 1903 to 1918, the Sydney Sanitarium and Benevolent Associate Limited were the registered proprietors for several portions of the site. From 1918 to date, the registered proprietors for the majority of the site were the Australian Conference Centre Limited.

It is noted that from 1918 to 1935, one portion of the site was under the ownership of an esquire. From 1935 to 1941 the registered proprietor for this portion of the site was the Perpetual Trustee Company (Limited) before falling under the ownership of the Australian Conference Associate Limited to date.

A2 AERIAL PHOTOGRAPH REVIEW

Aerial photographs dating back to 1951 were purchased by Coffey Environments from the Department of Lands and reviewed on the 13 March 2008. Table A1 summarises the observations made.

TABLE A1 – AERIAL PHOTOGRAPH REVIEW

DATE	OBSERVATIONS
May 1951 (black & white)	The site is bound to the south and east by Fox Valley Road and Cornenarra Parkway which are visible. The hospital grounds are surrounded by trees and bush to the west and north where a gully is noted. Trees/bushes are located on the eastern side of Fox Valley Road. Residential developments are noted to the south and northeast of the hospital grounds. The hospital grounds of the site are indicated by vacant grassed areas and a number of buildings in the central eastern portions of the site. There are also a number of vacant areas that are roughly rectangular in shape of different colours possibly cultivated areas. <i>Proposed Building 1</i> - The area appears to be generally vacant with sparse trees noted. A circular shaped structure appears to be located near the south western portion of this area with a large square shaped area noted immediately to the east. <i>Proposed Building 2</i> - The area appears to be vacant grassed areas with two rectangular structures located on the southwest corner. One large building structure is also noted near the southeastern corner of the area. <i>Proposed Building 3</i> - The area appears to be vacant grassed areas with some large trees noted. A roughly circular shaped vacant area appears to be present in a position similar to that of the current retention basin. There is a house structure located immediately east of the area.

TABLE A1 – AERIAL PHOTOGRAPH REVIEW (CONTINUED)

DATE	OBSERVATIONS
1961 (black & white)	The area of the hospital grounds where the sites are located and surrounding properties appear relatively unchanged from the previous aerial photograph except for some minor changes in some of the hospital buildings. The roughly rectangular vacant areas identified in the previous photo appear to be cultivated garden beds. <i>Proposed Building 1</i> - The area appears relatively unchanged since the previous aerial photo except for the circular shaped object which is now roughly square in shape. There also appears to be a few trees missing. <i>Proposed Building 2</i> - The area appears to be relatively unchanged since the previous aerial photo except for the cultivated garden beds which are more evident on the south western corner of the area. <i>Proposed Building 3</i> - The area appears to have fewer trees than the previous aerial photograph and the roughly circular vacant area is not as evident.
07/07/1970 (black & white)	The area of the hospital grounds where the sites are located and surrounding properties appear relatively unchanged from the previous aerial photograph except for some minor changes in some of the hospital buildings. <i>Proposed Building 1</i> - The area appears relatively unchanged since the previous aerial photo except for the circular shaped object which appears to have a number of smaller structures surrounding it. A number of rectangular shaped vacant areas of different colour appear to be present in the northern portions of the area. The roughly square shaped vacant area east of this area appears to be tennis courts. <i>Proposed Building 2</i> - The area appears to be relatively unchanged since the previous aerial photo except for the car parking areas near the southeast portions of the area. <i>Proposed Building 3</i> - The area appears to be vacant and grassed.

TABLE A1 – AERIAL PHOTOGRAPH REVIEW (CONTINUED)

DATE	OBSERVATIONS
29/03/1978 (pers. & write)	The area of the hospital grounds where the sites are located and surrounding properties appear relatively unchanged from the previous aerial photograph except for some changes in some of the hospital buildings and paved access pathways through the hospital grounds. <i>Proposed Building 1</i> - The area appears relatively unchanged since the previous aerial photo except for an access pathway of bare soils now present in this area orientated north south. The previously identified circular shaped structures (i.e. incinerators) no longer appear to be present. <i>Proposed Building 2</i> - The area appears to be relatively unchanged since the previous aerial photograph except for the building (i.e. SAN Clinic) noted immediately adjacent to the southeast corner of the study area. Parking spaces are noted within the south eastern portions of the study area. The cultivated garden beds and a rectangular structure in the western portions of the study area appear to be present. <i>Proposed Building 3</i> - The area appears to be vacant and grassed with what appears to be a rectangular shaped structure which appears to be a swimming pool to the east.
03/08/1986 (colour)	The area of the hospital grounds where the sites are located and surrounding properties appear relatively unchanged from the previous aerial photograph except for some minor changes in some of the hospital buildings. <i>Proposed Building 1</i> - The area appears relatively unchanged since the previous aerial photo except for the access pathway of bare soils which is no longer present. Areas within the building footprint appear to be vacant and grassed except for the rectangular garden beds and a rectangular shaped structure which are present in the northern parts of the study area. <i>Proposed Building 2</i> - The area appears to be relatively unchanged since the previous aerial photo. <i>Proposed Building 3</i> - The area appears to be vacant and grassed with sparse trees and what appears to be a mound of bare soils (i.e. the sediment retention basin).

TABLE A1 – AERIAL PHOTOGRAPH REVIEW (CONTINUED)

DATE	OBSERVATIONS
10/10/1994 (colour)	The area of the hospital grounds where the sites are located and surrounding properties appear relatively unchanged from the previous aerial photograph except for some changes in some of the hospital buildings. <i>Proposed Building 1</i> - the study area is occupied by parking spaces and paved access pathways similar to that currently on site. The tennis courts located immediately east of the study area are now located southwest of the of proposed building 2 study area (i.e. adjacent to the operating theatre block) <i>Proposed Building 2</i> - A large structure is adjacent to the south western corner of the study area (i.e. operating theatre block). The study area is now occupied by car parking spaces similar to that currently on the proposed building footprint. The cultivated garden beds and rectangular structure are no longer present. Bare vacant soils appear to be present on the northern side of the parking spaces. <i>Proposed Building 3</i> - The area appears to be vacant and with sparse grass cover and trees. The majority of the site is occupied by bare soils and a mound of soils (i.e. the sediment detention basin). The aerial photograph indicates a site located to the east which may be the potential source material.
10/12/2005 (colour)	The area of the hospital grounds where the sites are located and surrounding properties appear relatively unchanged from the previous aerial photograph except for some minor changes to some of the hospital buildings. <i>Proposed Building 1</i> - the study area appears to be relatively unchanged since the previous photograph except for tree growth on the eastern portions of the study area. <i>Proposed Building 2</i> - the study area appears relatively unchanged since the previous aerial photograph except for the bare vacant soils to the north which are now grass covered and vacant. <i>Proposed Building 3</i> - The sediment retention basin appears to be complete and is similar to what is currently on site. The study area appears to have more grass cover.

A.3 COUNCIL RECORDS

A request to review Ku-ring-Gai Council (Council) records was submitted by an environmental scientist on 7 March 2008. Council staff had indicated that there were approximately 164 files on records relating to various development and upgrade works associated with the SAN Hospital grounds. A list of those records was provided to Colley Environments and is included at the end of this Appendix A.

The list of records suggest various alterations and additions to the hospital. A development application in 1994 suggested the onsite disposal of excavated material. A development application in 2002 suggested the demolition of sheds and a fuel area.

The list of Council records also indicated that the site is zoned 5(a) Special Uses (Hospital) and Part Recreation 6(b).

A.4 INTERVIEWS

An interview with a staff member of the SAN Hospital who was familiar with the history of the site was carried out on the 10 March 2008. A summary of the relevant information from the interview is summarised below. Refer to Figures 3 and 4 for the approximate location of site features.

MR BRIAN HUDSON (ENGINEERING & WORKS COORDINATOR, SAN HOSPITAL)

Mr Hudson is the SAN Hospital Engineering & Works Coordinator and has been associated with the hospital for 20 years.

With regards to the proposed Building 1, Mr Hudson indicated that until the mid 1990s the study area was vegetated bush land at which point the Store/Business office, Laundry and the Jacaranda lodge located immediately east of the study area were constructed. The carpark areas that make up the study area were constructed at the same time as the Store/Business office and have always been asphalt paved carpark areas. Mr Hudson indicated the former sewerage works building and incinerator were located west of the proposed building area and were used for the treating of hospital grade waste prior to 1970. Following 1970, hospital waste was disposed/treated offsite by licensed/registered contractors.

With regards to the proposed Building 2, Mr Hudson indicated this portion of the site has been an asphalt sealed paved carpark area since 1973. Mr Hudson indicated the Operating Theatre block located immediately south of the Building 2 study area was approximately 11 years old which prior that was gardens used for growing vegetables. The SAN Clinic located approximately 10m south of the southeast corner of the proposed Building 2 study area was originally constructed of concrete, metal sheeting, brick and fibre cemented sheeting. Mr Hudson indicated that the fibre cement sheeting had been removed under AS1 conditions. He was not able to provide Colley Environments with a date of removal or the contractors used for the demolition works. Mr Hudson indicated the tennis court located south of the southeast corner of the proposed Building 2 study area was also previously a vegetable garden and there was also a swimming pool. The tennis court was indicated to be approximately 11 years old. West of the proposed Building 2 study area and northwest of the tennis court Mr Hudson indicated that a dairy was once located. Mr Hudson indicated the dairy had not been in operation during his time as Engineering and Works Coordinator at the SAN Hospital. He had no knowledge of the practices at the dairy but he did indicate that the former collage and dairying shed may have been painted with lead paint. The retention pond located immediately north of the study area was constructed approximately 5 years ago.

With regards to the proposed Building 3, Mr Hudson indicated that the sediment retention pond currently located within the central portion of the proposed Building 3 study area was constructed approximately 10 years ago. Mr Hudson indicated the sediment retention pond located north of the proposed Building 2 study area was constructed at the same time as the one within the Building 3 study area. Mr Hudson indicated one of the sources of fill material (approximately 40-50%) to create the retention ponds was from cut earthworks activities that had been carried out as part of hospital upgrade works south of proposed Building 2. The main source of fill (approximately 50-60%) used for the basin's construction was from a shopping centre development on Pennant Hills Road located approximately 1.0km to 1.5km west of the site approximately 10 years ago. Mr Hudson indicated that he was not aware of the fill materials classification and that locally sourced boulders of sandstone were used at the base of the pond.

The 'Tower' building (also known as the Main Operating Theatre Building) centrally located within the SAN Hospital was built in 1973. Northwest of the 'Tower' the now vacant land was once a Sanitarium. Southwest of 'Tower' the maternity wards were located. West of 'Tower's Hunter indicated the site has been unused and vacant for the duration of his time on site.

Mr Hudson indicated that electrical substations and diesel fuelled generators were located within some of the main hospital buildings located within the central portions of the site. An electrical substation located northeast of the physio/maternity ward located near the central eastern boundary of the SAN Hospital grounds had been previously decommissioned by Energy Australia (date not known).

Mr Hudson was able to supply Coffey Environments with a number of site plans for the SAN Hospital dated from 1970 to 2006. The plans are included at the end of Appendix A. A site plan dated 18/7/2006 indicated the location of gas, liquid, chemical and fuel tanks stored on the site. Within each of the study areas, Mr Hudson was able to confirm that no USTs or ASTs were previously located. He did indicate that leading up to the year 2000, the SAN hospital had installed a number of USTs near some the hospital main buildings for the storage of diesel and oil to be used for backup diesel generators and boilers. A number of the tanks were decommissioned shortly after. Mr Hudson also indicated that a bowser and two USTs used for storing unleaded and lead petrol were located in the area now encompassed by the carpark located immediately north of the maintenance building. Mr Hudson indicated that validation of the tank/bowser removal was carried out but he was unsure of the contractors/consultants used to carry out the works.

Mr Hudson indicated that generally there were no incidents of burning, illegal dumpings, chemical spills or fuel spills that he could recall for the SAN Hospital grounds. He also indicated that site was not used for the disposal/burial of human matter, tissue, fluids or corpses. Hospital grade waste up until 1970 had been treated at the incinerator located southwest of proposed Building 1, at which point waste was disposed of offsite.

A.5 DECC NOTICES

A search of the NSW DECC Contaminated Land Record website on the 7 March 2008 indicated that there were no notices issued for the site under the Environmentally Hazardous Chemicals Act (1985) or the Contaminated Land Management Act (1997). A copy of the search results is attached at the end of this Appendix.

A search of the NSW DECC public register for Licenses, Applications and Notices website on the 7 March 2008 indicated that the site has an EPA license for Hazardous, Industrial or Group A waste generation or storage (73) up to 100T under section 308 of the Protection of the Environment Operations Act 1997. No breaches or notices have been issued for the site under the license (No. 6546).

A.6 WORKCOVER RECORDS

The WorkCover search of the Stored Chemical Information Database (SCID) for licenses to keep dangerous goods indicated that a license (No.35/0174066) which had information of a number of dangerous goods stored at various locations throughout the SAIN Hospital. The license details indicated that as of 11/8/2004 up to 20 storage areas including AS1a, compressed gas cylinders, toxic and liquid cabinets were used for the storage of refrigerated oxygen, ethanol, petroleum, diesel, motor spirit, hydrochloric acid, hydrogen peroxide, hypochlorite, heating oil and various compressed gases (including air, carbon dioxide, helium, nitrogen, nitrous oxide and argon). The location for each of the storage areas is indicated on a map contained at the end of this Appendix. None of the above mentioned storage containers were noted to be within each of the study areas. No evidence of former storage containers within the study areas was also noted.

The WorkCover search also confirmed the location of two USTs with capacity of 20,000L each and a bowser within carpark areas immediately north of the maintenance buildings which is located approximately 125m east of the proposed building 1 and 125 northeast of the proposed building 3. A letter to WorkCover by the SAIN Hospital engineer confirms that the correct procedures were not followed in notification for its decommissioning. The letter indicates that the petrol tank was removed with the diesel fuel tank filled with sand/soil, with no records or history written on these activities.

The closest storage containers to the proposed buildings 1 and 3 are the above mentioned former USTs 125m to the east, two ASTs (15,000L & 20,000L) containing boiler oil 100m to the east-southeast and a number of gas cylinders approximately 125m to the east.

The closest storage containers to the proposed building 2 are a liquid oxygen AST 25m to the west and a UST (12,000L) and generator containing diesel fuel approximately 75m to the south.

The results to the WorkCover search are attached at the end of this Appendix.

ADVANCE LEGAL SEARCH PTY LIMITED

(ACN 077 067 068)

ABN 49 077 067 068

P.O. Box 149
Yagoona NSW 2199

Telephone: 0612 9754 1590
Mobile: 0412 169 809
Facsimile: 0612 9754 1364
Email: alsearch@optusnet.com.au

12 March 2008

COFFEY ENVIRONMENTS Pty Ltd
PO Box 346
UNANDERRA NSW 2526

Attention: Daniel Deen/ Nathan Foster

Coffey Unandorra RECEIVED	
14 MAR 2008	
Job No:	Action:
Rec'd by:	

RE: 185 Fox Valley Road
WAHROONGA
Sydney Adventist Hospital
Job: GEOTLCOV23+62AA
PO S18054 NF

Note search is limited to subject site plan.

Current Search

Folio Identifier 62/1017514 (title attached)
DP 1017514 (plan attached)
Dated 10 March 2008
Registered Proprietor
AUSTRALASIAN CONFERENCE ASSOCIATION LIMITED

Title Tree
Lot 62 DP 1017514

Folio Identifier 62/1017514

Folio Identifier 53/880017

Folio Identifier 14/834969

Certificate of Title Volume 8447 Fol 83

Certificate of Title Volume 6572 Fol 212

Certificate of Title Volume 5964 Fol 61

(a)

(b)

(c)

CTVol 4506 Folio 44

CTVol 5011 Folio 245

CTVol 3067 Folio 88

CTVol 2827 Folio 182

CTVol 313 Folio 146

CTVol 2112 Folio 104

(ai)

(a ii)

CT 97 - 141

CT 98 - 64

o x x o

o x x o

Summary of proprietor(s) Lot 62 DP 1017514

Year	Proprietor
	(Lot 62 DP 1017514)
2000 – to date	Australasian Conference Association Limited
(2000 – to date)	(various commercial leases see Folio Identifier 62/1017514)
(2000 – to date)	(various commercial leases see Historical Folio Identifier 62/1017514)
	(Lot 53 DP 880017)
1998 – 2000	Australasian Conference Association Limited
(1998 – 2000)	(various commercial leases see Historical Folio Identifier 53/880017)
	(Lot 14 DP 834969)
1994 – 1998	Australasian Conference Association Limited
(1994 – 1998)	(various commercial leases see Historical Folio Identifier 14/834969)
	(Portion 30 and part Portios 28, 29 & 31 and 1 Acre 2 Roods 4 ½ Perches grant, Parish Gordon & South Colah – Area 158 Acres 0 Roods 25 Perches – CT Vol 8447 Fol 83)
1963 – 1994	Australasian Conference Association Limited
	(Portion 30 and part Portios 28, 29 & 31 and 1 Acre 2 Roods 4 ½ Perches grant, Parish Gordon & South Colah – Area 159 Acres 1 Roods 37 ½ Perches – CT Vol 6572 Fol 212)
1952 – 1963	Australasian Conference Association Limited
(1952 – 1958)	(lease to Walter George Fredericks, storekeeper & Margaret Lucy Fredericks, of part)
	(Portion 30 and part Portios 28, 29 & 31 and 1 Acre 2 Roods 4 ½ Perches grant, Parish Gordon & South Colah – Area 159 Acres 1 Roods 37 ½ Perches – CT Vol 5964 Fol 61)
1949 – 1952	Australasian Conference Association Limited

See Notes (a), (b) & (c)

Note (a)

	(Part Portions 29 & 30 Parish Gordon - Area 74 Acres 0 Roods 3 ¾ Perches - CTVol 4506 Fol 44)
1931 - 1949	Australasian Conference Association Limited
	(Part Portions 29 & 30 Parish Gordon - Area 75 Acres 1 Roods 18 Perches - CTVol 2827 Fol 182)
1918 - 1931	Australasian Conference Association Limited

See Notes (ai) & (aii)

Note (ai)

	(Part Portion 30 Parish Gordon - Area 9 Acres 0 Roods 33 Perches - CTVol 97 Fol 141)
1903 - 1918	The Sydney Sanitarium and Benevolent Association Limited
1901 - 1903	Frederick Lacey Sharp, business manager John Allen Burbery, business manager Daniel Kness, physician Eugene William Farnsworth, minister of gospel Merritt Gardiner Kellogg, architect
1890 - 1901	Joshua Reuben Johnson, minor

Note (aii)

	(Part Portions 29 & 30 Parish Gordon - Area 71 Acres 2 Roods 21 Perches - CTVol 98 Fol 64)
1903 - 1918	The Sydney Sanitarium and Benevolent Association Limited
1901 - 1903	Frederick Lacey Sharp, business manager John Allen Burbery, business manager Daniel Kness, physician Eugene William Farnsworth, minister of gospel Merritt Gardiner Kellogg, architect
1895 - 1901	Elizabeth Sharpe Evans, widow
1870 - 1895	Richard Bartlett Evans, labourer

Note (b)

	(Part Portion 31 Parish Gordon – Area 54 Acres 2 Roods 31 ½ Perches – CTVol 5011 Fol 245)
1941 – 1949	Australasian Conference Association Limited
1939 – 1941	Perpetual Trustee Company (Limited)
	(Portion 31 Parish Gordon – Area 72 Acres – CTVol 313 Fol 146)
1935 – 1939	Perpetual Trustee Company (Limited)
1885 – 1935	Austin Torange, esquire
1877 – 1885	Alexander Howman, grantee

Note (c)

	(Part Portions 29 & 30 Parish Gordon – Area 16 Acres 3 Roods 18 Perches – CTVol 3067 Fol 88)
1920 – 1949	Australasian Conference Association Limited

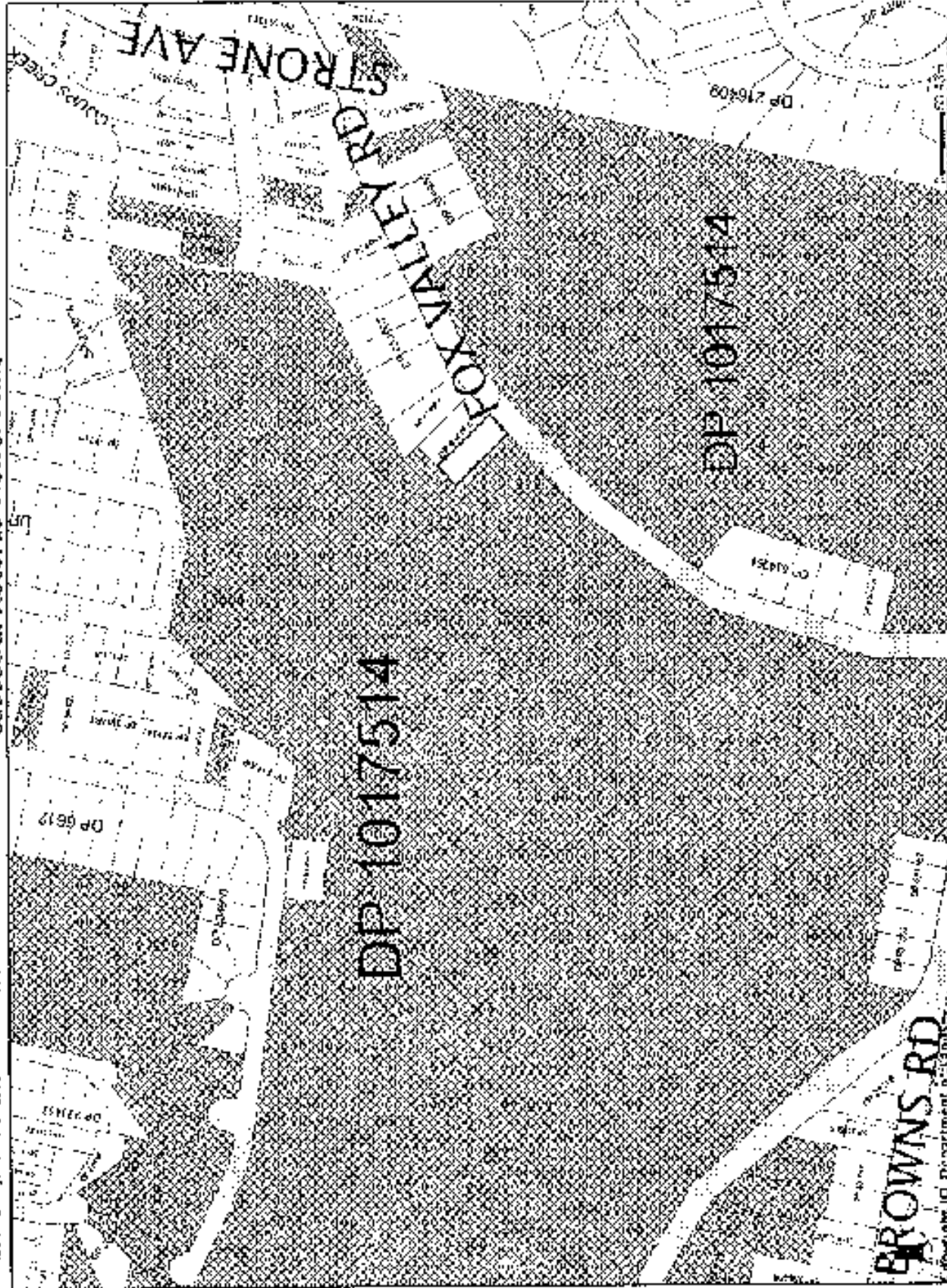
Print Date: Monday, 10 March 2008 1:12:17 PM By: 24500003

Cadastral Records Viewer Print

Current Feature
 Lot 1 DP833940
 Local Gov: WA-ROO-GA
 Title: 0.4110 G/L
 EPG: 9-550000
 County: CUMBERLAND

LEGEND Features (Legend)

- ☐ Current Feature
- ☐ Other Selected Features
- ☐ Notations (Manual)
- ☐ Notations (Auto)
- ☐ Auto Notation
- ☐ Localities
- ☐ LGA's
- ☐ Rail Corridor
- ☐ Waterway Corridor
- ☐ Waterways
- ☐ Unidentified Parcels
- ☐ Parcels
- ☐ Standard Lot
- ☐ Standard Boundary
- ☐ Streets
- ☐ Stratum
- ☐ Road Corridor
- ☐ Roads



This information is provided as a guide only. While every endeavour is made to ensure the accuracy of the information presented, the Department of Lands does not guarantee the information presented.

Department of Lands

Information Provided Through
Advance Legal Search Pty Ltd
Ph 0297541550 Fax 029754 1011

Title Search

EziSearch
an Approved L.P.I. NSW
Information Broker

LAND AND PROPERTY INFORMATION NEW SOUTH WALES TITLE SEARCH

FOLIO: 62/1917514

SEARCH DATE	TIME	ACTION NO	DATE
10/3/2008	6:11 AM	24	19/2/2007

LAND

LOT 62 IN DEPOSITED PLAN D017514
AT KARRONGRA
LOCAL GOVERNMENT AREA KU-RUNG-GA
PARISH OF GORDON COUNTY OF CUMBERLAND
TITLE DIAGRAM D017514

FIRST SCHEDULE

AUSTRALASIAN CONFERENCE ASSOCIATION (THIRDS)

SECOND SCHEDULE (52 NOTIFICATIONS)

- 1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
- 2 C041593 COVENANT AFFECTING THE PART SHOWN SO BURDENED IN THE TITLE DIAGRAM.
- 3 B830204 EASEMENT FOR NATURAL WATERCOURSE 1.82 WIDE AFFECTING THE PART SHOWN SO BURDENED IN THE TITLE DIAGRAM
- 4 B830204 EASEMENT FOR DRAINAGE 1.82 WIDE AFFECTING THE PART SHOWN SO BURDENED IN THE TITLE DIAGRAM
- 5 J221147 EASEMENT 7.62 WIDE AFFECTING THE PART SHOWN SO BURDENED IN THE TITLE DIAGRAM
- 6 J221147 CONSTRUCTION EASEMENT 7.62 WIDE AFFECTING THE PART SHOWN SO BURDENED IN THE TITLE DIAGRAM
- 7 K610015 EASEMENT FOR WATER SUPPLY WORKS 3.05 WIDE AFFECTING THE PART SHOWN SO BURDENED IN THE TITLE DIAGRAM
- 8 D0640633 DRAINAGE EASEMENT 2.5 WIDE AFFECTING THE PART SHOWN SO BURDENED IN THE TITLE DIAGRAM
- 9 X643857 LEASE TO SYDNEY COUNTY COUNCIL OF SUBSTATION PREMISES NO 6435 TOGETHER WITH RIGHT OF WAY & EASEMENT FOR ELECTRICITY PURPOSES AS SHOWN IN PLAN WITH X043857, EXPIRES 30.12.2037
- 10 Q251457 LEASE TO SYDNEY ELECTRICITY OF SUBSTATION PREMISES NO.7241 TOGETHER WITH RIGHT OF WAY & EASEMENT FOR ELECTRICITY PURPOSES AS SHOWN IN PLAN WITH Q251457, EXPIRES 20.2.2045
- 11 3301465 LEASE TO ENERGY AUSTRALIA OF SUBSTATION PREMISES NO.7444 TOGETHER WITH RIGHT OF WAY & EASEMENT SHOWN IN PLAN WITH 3301465, EXPIRES 31.8.2046
- 12 5431960 LEASE TO OPTUS MOBILE PTY LIMITED OF THE PART SHOWN HATCHED IN PLAN WITH 5431960, COMMENCES 31/3/2004, EXPIRES: 30/3/2009.

END OF PAGE 1 - CONTINUED OVER

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LAND AND PROPERTY INFORMATION NEW SOUTH WALES - TITLE SEARCH

FOLIO: 62/1217504

PAGE 7

SECOND SCHEDULE (OF NOTIFICATIONS) (CONTINUED)

- 13 5401961 LEASE TO OPTUS MOBILE PTY LIMITED OF THE PART SHOWN SHOWN IN PLAN WITH 5401961. COMMENCES 31/3/2009. EXPIRES: 30/3/2014.
- 14 DP1917514 EASEMENT TO DRAIN WATER 1 METRE(S) WIDE AFFECTING THE PART(S) SHOWN SO BOUNDEN IN THE TITLE DIAGRAM
- 15 7015241 LEASE TO LUCENT TECHNOLOGIES AUSTRALIA PTY LIMITED OF THE AREA SHOWN SHOWN IN PLAN WITH 7015241. EXPIRES: 10/2/2002. OPTION OF RENEWAL: 3 OPTIONS OF 5 YEARS.
- 8688491 TRANSFER OF LEASE 7015241 LENSVE NOW HUTCHINSON 3G AUSTRALIA PTY LIMITED
- 16 9789667 LEASE TO JAMES ANDREW HOWE & PETA ALEXIA HOWE OF SUITE 307, THE SAN CLINIC, 185 FOX VALLEY ROAD, WARRONGA. EXPIRES: 30/6/2008. OPTION OF RENEWAL: 5 YEARS WITH A FURTHER PERIOD OF 5 YEARS.
- AC327610 TRANSFER OF LEASE 9789667 LENSVE NOW BRAGLO PTY LIMITED
- 17 9789668 LEASE TO KSSLY SIO PTY LIMITED OF "THE POON CHILDREN CENTRE", 185 FOX VALLEY ROAD, WARRONGA. EXPIRES: 31/5/2008. OPTION OF RENEWAL: 5 YEARS.
- AC359610 TRANSFER OF LEASE 9789668 LENSVE NOW CHILDS FAMILY KINDERGARTEN LIMITED
- 18 9903470 LEASE TO SQUAD 6 KIRKHAM OF SUITE 508, THE SAN CLINIC, 185 FOX VALLEY ROAD, WARRONGA. EXPIRES: 27/7/2008. OPTION OF RENEWAL: 5 YEARS.
- 19 9923248 LEASE TO GRHAM DOUGLAS SELLARS OF SUITE 507, THE SAN CLINIC, 185 FOX VALLEY ROAD, WARRONGA. EXPIRES: 9/7/2008. OPTION OF RENEWAL: 5 YEARS.
- 20 9923249 LEASE TO MAXIMIND PTY LTD OF SUITE 601A, THE SAN CLINIC, 185 FOX VALLEY ROAD, WARRONGA. EXPIRES: 27/7/2008. OPTION OF RENEWAL: 5 YEARS.
- 21 9923250 LEASE TO MARK JAMES BURKE & DAVID MICHAEL OF SUITE 306, THE SAN CLINIC, 185 FOX VALLEY ROAD, WARRONGA. EXPIRES: 15/7/2010. OPTION OF RENEWAL: TWO TERMS OF 5 YEARS EACH.
- 22 9923251 LEASE TO MELISSA DOOHAN OF SUITE 504, THE SAN CLINIC, 185 FOX VALLEY ROAD, WARRONGA. EXPIRES: 9/7/2008. OPTION OF RENEWAL: 5 YEARS.
- 23 9923252 LEASE TO MADELINE GUTHRIE OF SUITE 601C, THE SAN CLINIC, 185 FOX VALLEY ROAD, WARRONGA. EXPIRES: 27/7/2008. OPTION OF RENEWAL: 5 YEARS.
- 24 9923253 LEASE TO WESTERN SYDNEY ORTHOPAEDIC ASSOCIATES PTY LIMITED OF SUITE 601B, THE SAN CLINIC, 185 FOX VALLEY ROAD, WARRONGA. EXPIRES: 27/7/2008. OPTION OF RENEWAL: 5 YEARS.
- 25 9966048 LEASE TO THOMAS V CAVALCAN PTY & NICHOLO CARDIOLOGY

END OF PAGE 7 - CONTINUED OVER

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LAND AND PROPERTY INFORMATION NEW SOUTH WALES TITLE SEARCH

FOLIO: 62/1017514

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SECOND SCHEDULE (82 NOTIFICATIONS) (CONTINUED)

- 26 9905692 LEASE TO RCH PTY LIMITED OF SUITE 511, THE SAN CLINIC, 185 FOX VALLEY ROAD, WARROONGA. EXPIRES: 9/7/2008. OPTION OF RENEWAL: 5 YEARS.
- 27 9905693 LEASE TO TOMAS DEAN PTY LIMITED OF SUITE 506, THE SAN CLINIC, 185 FOX VALLEY ROAD, WARROONGA. EXPIRES: 3/8/2008. OPTION OF RENEWAL: 5 YEARS.
- 28 9905694 LEASE TO HARVEY GEORGE WASHINGTON OF SUITE 603, THE SAN CLINIC, 185 FOX VALLEY ROAD, WARROONGA. EXPIRES: 3/8/2008. OPTION OF RENEWAL: 5 YEARS.
- 29 AA7460 LEASE TO SCOTT BUTLER SIMPSON OF SUITE 510, THE SAN CLINIC, 185 FOX VALLEY ROAD, WARROONGA. EXPIRES: 29/7/2008. OPTION OF RENEWAL: 5 YEARS.
- 30 AA7461 LEASE TO BOOING PTY LTD OF SUITE 504, THE SAN CLINIC, 185 FOX VALLEY ROAD, WARROONGA. EXPIRES: 26/8/2008. OPTION OF RENEWAL: 5 YEARS.
- 31 AA31754 LEASE TO BONE RECONSTRUCTION PTY LIMITED OF SUITE 5013, THE SAN CLINIC, 185 FOX VALLEY ROAD, WARROONGA. EXPIRES: 27/7/2008. OPTION OF RENEWAL: 5 YEARS.
- 32 AA81815 LEASE TO MATTHEW JOSEPH McNAMARA OF SUITE 501, THE SAN CLINIC, 185 FOX VALLEY ROAD, WARROONGA. EXPIRES: 15/7/2008. OPTION OF RENEWAL: 5 YEARS.
- 33 AA95145 LEASE TO DR ARTHUR ROCHARDSON PTY LTD OF SUITE 503, THE SAN CLINIC, 185 FOX VALLEY RD, WARROONGA. EXPIRES: 9/7/2008. OPTION OF RENEWAL: 5 YEARS.
- 34 AA95146 LEASE TO ROBERT JAMES HARDWICK OF SUITE 606, THE SAN CLINIC, 185 FOX VALLEY RD, WARROONGA. EXPIRES: 24/7/2008. OPTION OF RENEWAL: 5 YEARS.
- 35 AA177677 LEASE TO CONCRE MANAGEMENT SERVICES PTY LIMITED OF SUITE 505, THE SAN CLINIC, 185 FOX VALLEY RD, WARROONGA. EXPIRES: 2/7/2008. OPTION OF RENEWAL: 5 YEARS.
- 36 AA302540 LEASE TO NORTHSIDE PHYSIO NO 2 PTY LIMITED OF SUITE 602, THE SAN CLINIC, 185 FOX VALLEY RD, WARROONGA. EXPIRES: 19/10/2008. OPTION OF RENEWAL: 5 YRS.
- 37 AA467063 LEASE TO DR R. & S. L KIRSON PTY LIMITED OF SUITE 605, THE SAN CLINIC, 185 FOX VALLEY RD, WARROONGA. EXPIRES: 9/7/2008. OPTION OF RENEWAL: 5 YRS.
- 38 AA478792 LEASE TO STAN SINGH PTY LTD OF SUITE 604, THE SAN CLINIC, 185 FOX VALLEY RD, WARROONGA. EXPIRES: 9/8/2008. OPTION OF RENEWAL: 5 YEARS.
- AA940557 TERMENER OF LEASE AA075792 LESSEE ROM GREGORY
BRUCE BENNETT
- 39 AB27704 LEASE TO G B PAUL PTY LTD OF SUITE 509, THE SAN

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LAND AND PROPERTY INFORMATION NSW SOUTH WALES - TITLE SEARCH

FOIID: 62/1017514

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SECOND SCHEDULE (12 NOTIFICATIONS) (CONTINUED)

- CLINIC, 185 FOX VALLEY RD, WAHROONGA. EXPIRES:
30/6/2008. OPTION OF RENEWAL: 5 YEARS.
- 40 AB624193 EASEMENT FOR ELECTRICITY SUBSTATION AFFECTING THE
PART DESIGNATED (C) IN DP1080220
- 41 AB624193 RIGHT OF WAY AFFECTING THE PART DESIGNATED (R) IN
DP1080220
- 42 AB624193 EASEMENT FOR ELECTRICITY PURPOSES AFFECTING THE PART
DESIGNATED (S) IN DP1080220
- 43 AB166636 LEASE TO VOLTAIRE NETWORK PTY LIMITED OF PART OF THE
ROOF SHOWN HATCHED IN PLAN WITH LEASE J890412 AND
EXCLUDING THE AREA SHOWN HATCHED IN PLAN WITH PARCIAL
SURRENDER OF LEASE 5532722. EXPIRES: 30/3/2009. OPTION
OF RENEWAL: 5 YEARS.
- 44 AB856408 LEASE TO TELSTRA CORPORATION LIMITED OF THE PART
SHOWN HATCHED IN PLAN WITH AB856408. EXPIRES:
30/6/2007. OPTION OF RENEWAL: 5 YEARS WITH A FURTHER
PERIOD OF 5 YEARS.
- 45 AC312261 LEASE TO JOE WATSON PTY LTD OF SUITE 402 THE SAN
CLINIC 185 FOX VALLEY ROAD WAHROONGA. EXPIRES:
31/12/2010. OPTION OF RENEWAL: 2 X 5 YEARS.
- 46 AC352162 LEASE TO BORM PTY LTD OF SUITE 401 THE SAN CLINIC 185
FOX VALLEY ROAD WAHROONGA. EXPIRES: 31/12/2010. OPTION
OF RENEWAL: 2 X 5 YEARS.
- 47 AC366403 LEASE TO SPECIALIST ONCOLOGY SERVICES PTY LTD OF
SUITE 301 AND 302, "THE SAN CLINIC", 185 FOX VALLEY
ROAD, WAHROONGA. EXPIRES: 31/10/2010. OPTION OF
RENEWAL: 5 YEARS WITH A FURTHER PERIOD OF 5 YEARS.
- 48 AC366404 LEASE TO NORTHERN SURGICAL ONCOLOGY PTY LTD OF SUITE
404, "THE SAN CLINIC", 185 FOX VALLEY ROAD, WAHROONGA.
EXPIRES: 31/10/2010. OPTION OF RENEWAL: 5 YEARS WITH A
FURTHER PERIOD OF FIVE YEARS.
- 49 AC366405 LEASE TO SYDNEY UROLOGICAL ASSOCIATES PTY LTD OF
SUITE 406, "THE SAN CLINIC", 185 FOX VALLEY ROAD,
WAHROONGA. EXPIRES: 31/10/2010. OPTION OF RENEWAL: 5
YEARS WITH A FURTHER PERIOD OF 5 YEARS.
- 50 AC484401 EASEMENT FOR ELECTRICITY SUBSTATION PURPOSES 5.33
MIDE AFFECTING THE PART DESIGNATED (S) IN DP101280
- 51 AC484401 EASEMENT FOR ELECTRICITY PURPOSES 2 MIDE AFFECTING
THE PART DESIGNATED (E) IN DP101280
- 52 AC484401 RIGHT OF WAY VARIABLE WIDTH AFFECTING THE PART
DESIGNATED (R) IN DP101280

NOTATIONS

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

Corley - Wahroonga ALSP

PRINTED ON 10/5/2008

2000

[illegible]

525-1-1126
CITY

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440-225-57
440-225-57

[illegible]
$$2.1 \times 10^3 \text{ kg} \cdot \text{m}^{-3} \times 10^3 \text{ m}^3 = 2.1 \times 10^6 \text{ kg}$$
$$\frac{12 + 15 + 16 + 55 + 20 + 10 + 14}{34 + 14 + 6 + 20 + 6} = 55 \rightarrow 14.7\%$$

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Historical Search

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LAND AND PROPERTY INFORMATION NEW SOUTH WALES - HISTORICAL SEARCH

SEARCH DATE

10/3/2008 6:14PM

FOLIO: 62/1017514

First Title(s): VOL 313 FOL 146 VOL 4785 FOL 192
OLD SYSTEM

Prior Title(s): 53/800017

Recorded	Number	Type of Instrument	C.T. Issue
2/11/2000	021017514	DEPOSITED PLAN	FOLIO CREATED CT NOT ISSUED
9/1/2001	7015241	LEASE	
12/2/2001	7154495	LEASE	EDITION 1
29/3/2001	7398269	TRANSFER OF LEASE	
11/7/2002	8660107	LEASE	
11/7/2002	8660491	TRANSFER OF LEASE	EDITION 2
15/7/2003	9789667	LEASE	
15/7/2003	9789668	LEASE	EDITION 3
22/8/2003	9903470	LEASE	EDITION 4
29/8/2003	9923248	LEASE	
29/8/2003	9923249	LEASE	
29/8/2003	9923250	LEASE	
29/8/2003	9923251	LEASE	
29/8/2003	9923252	LEASE	
29/8/2003	9923253	LEASE	EDITION 5
12/9/2003	9966040	LEASE	EDITION 6
18/9/2003	9985692	LEASE	
18/9/2003	9985693	LEASE	
18/9/2003	9985694	LEASE	
25/9/2003	AA7022	DEPARTMENTAL DEALING	EDITION 7
25/9/2003	AA7460	LEASE	
25/9/2003	AA7461	LEASE	EDITION 8
2/10/2003	AA31754	LEASE	EDITION 9
22/10/2003	AA87015	LEASE	EDITION 10
27/10/2003	AA95145	LEASE	

END OF PAGE 1 - CONTINUED OVER

Coffey - Wahrenonga ALSP

PRINTED ON 10/3/2008

LAND AND PROPERTY INFORMATION NEW SOUTH WALES - HISTORICAL SEARCH

SEARCH DATE

10/3/2008 6:04PM

FOLIO: 62/1017514

PAGE 2

Recorded	Number	Type of Instrument	C.T. Issue
27/10/2003	AA95146	LEASE	EDITION 11
20/11/2003	AA177677	LEASE	EDITION 12
7/1/2004	AA302548	LEASE	EDITION 13
2/3/2004	AA462063	LEASE	EDITION 14
15/6/2004	AA478792	LEASE	EDITION 15
18/10/2004	AA27704	LEASE	EDITION 16
18/4/2005	DP1080220	DEPOSITED PLAN	
10/7/2005	AP624793	GRANT OF EASEMENT	EDITION 17
27/9/2005	AB765034	LEASE	EDITION 18
9/11/2005	AB856407	DETERMINATION OF LEASE	
9/11/2005	AB856408	LEASE	EDITION 19
25/11/2005	AB940557	TRANSFER OF LEASE	
2/12/2005	AB958505	LEASE	EDITION 20
24/5/2006	AC327610	TRANSFER OF LEASE	
1/6/2006	AC352261	LEASE	
1/6/2006	AC352262	LEASE	EDITION 21
23/6/2006	AC349613	TRANSFER OF LEASE	
21/7/2006	AC366463	LEASE	
21/7/2006	AC366464	LEASE	
21/7/2006	AC366465	LEASE	EDITION 22
14/8/2006	DP1101280	DEPOSITED PLAN	
20/9/2006	AC484401	GRANT OF EASEMENT	EDITION 23
20/9/2006	AC615039	DEPARTMENTAL DEALING	
14/2/2007	AC947037	DETERMINATION OF LEASE	EDITION 24

*** END OF SEARCH ***

Colley - Warrumbungle ALSP

PRINTED ON 10/3/2008

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Information Broker

LAND AND PROPERTY INFORMATION NEW SOUTH WALES - HISTORICAL SEARCH

SEARCH DATE

10/3/2008 6:16PM

FOLIO: 53/880017

First Title(s): DID SYSTEM VOL 313 FOL 146
VOL 4185 FOL 192
Prior Title(s): 14/834969

Recorded	Number	Type of Instrument	C.T. Issue
18/9/1998	DP880017	DEPOSITED PLAN	FOLIO CREATED EDITION 1
10/12/1998	5431958	LEASE	
10/12/1998	5431959	LEASE	
10/12/1998	5431960	LEASE	
10/12/1998	5431961	LEASE	EDITION 2
19/1/1999	5532722	DETERMINATION OF LEASE	EDITION 3
20/1/1999	5534627	DEPARTMENTAL DEALING	
20/1/1999	5534644	CHANGE OF NAME	EDITION 4
29/4/1999	5507304	CHANGE OF NAME	
18/11/1999	6250590	LEASE	EDITION 5
2/11/2000	DP1017514	DEPOSITED PLAN	FOLIO CANCELLED RESIDUE REMAINS
7/11/2000	7204401	DEPARTMENTAL DEALING	

*** END OF SEARCH ***

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PRINTED ON 10/3/2008

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LAND AND PROPERTY INFORMATION NEW SOUTH WALES - HISTORICAL SEARCH

SEARCH DATE

10/3/2008 6:21PM

FOLIO: 14/834969

First Title(s): OLD SYSTEM VOL 313 FOL 146
VOL 4785 FOL 192
Prior Title(s): VOL 8447 FOL 83

Recorded	Number	Type of Instrument	C.T. Issue
7/2/1994	DP834969	DEPOSITED PLAN	FOLIO CREATED EDITION 1
22/2/1995	0990412	LEASE	EDITION 2
25/5/1995	0251457	LEASE	EDITION 3
22/6/1995		AMENDMENT: LOCAL GOVT AREA	
22/6/1995		AMENDMENT: PARISH-COUNTY	
22/6/1995	0324983	DEPARTMENTAL DEALING	
18/8/1997	3301465	LEASE	EDITION 4
16/9/1998	DP880017	DEPOSITED PLAN	FOLIO CANCELLED
3/11/1998	5370510	DEPARTMENTAL DEALING	

*** END OF SEARCH ***

Coffey - Wuhroonga ALSP

PRINTED ON 10/3/2008

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RECORDED and INDEXED in the Registrar General's Office, at Sydney, 24 Nov 1955.
North Wales, Glam. 24 Nov 1955

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6. *Phacelia*

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ENTER FILE after above information has been entered, dated 21
April 1987. INDEXED and SERIALIZED 21 April 1987. JF
13 614420A

ALLAN, A. C.

DATA COLLECTION SYSTEM

170 7136. HADTACAT JETZ LON DOPHAT 1000. MOJA
 (E)WELP LONTO ALBEXHIN. J. TAVHIN. 10. 100. HADTACAT
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Dr. Amalendu

NOTED: FORM OF LETTER TO BE SENT TO THE 12/1/46
FROM THE SOLICITOR GENERAL
TO THE
.....

COPIES DESTROYED
DATE 10-10-68 BY SP-5 JAC/jac

[illegible]

To all the Gentlemen of the Senate, I have the honor
to acknowledge the receipt of your letter of the 10th inst.
relative to the proposed amendment to the Constitution,
and in reply to inform you that the same has been
received by the Secretary of the Senate, and will be
presented to the Senate at its next session.

I am, Sir, very respectfully,
Your obedient servant,
J. M. Smith

General

[illegible][illegible]

This book is loaned to you by the
 Vol. 201 No. 100
 For reference
 O. C. ...


2007-07-17

[illegible]

The first thing I noticed when I stepped
 out of the plane was a warm, humid
 breeze. It felt like a giant hand
 reaching out to greet me. The
 humidity was not sticky, but
 comforting. It was a relief after
 the dry, cold air of the plane.
 I took a deep breath and
 smiled. This was my first
 experience with the humidity of
 the South. It was a new
 adventure, and I was excited to
 embrace it.

Chlorophyll a

1. *Agave* *Agave*

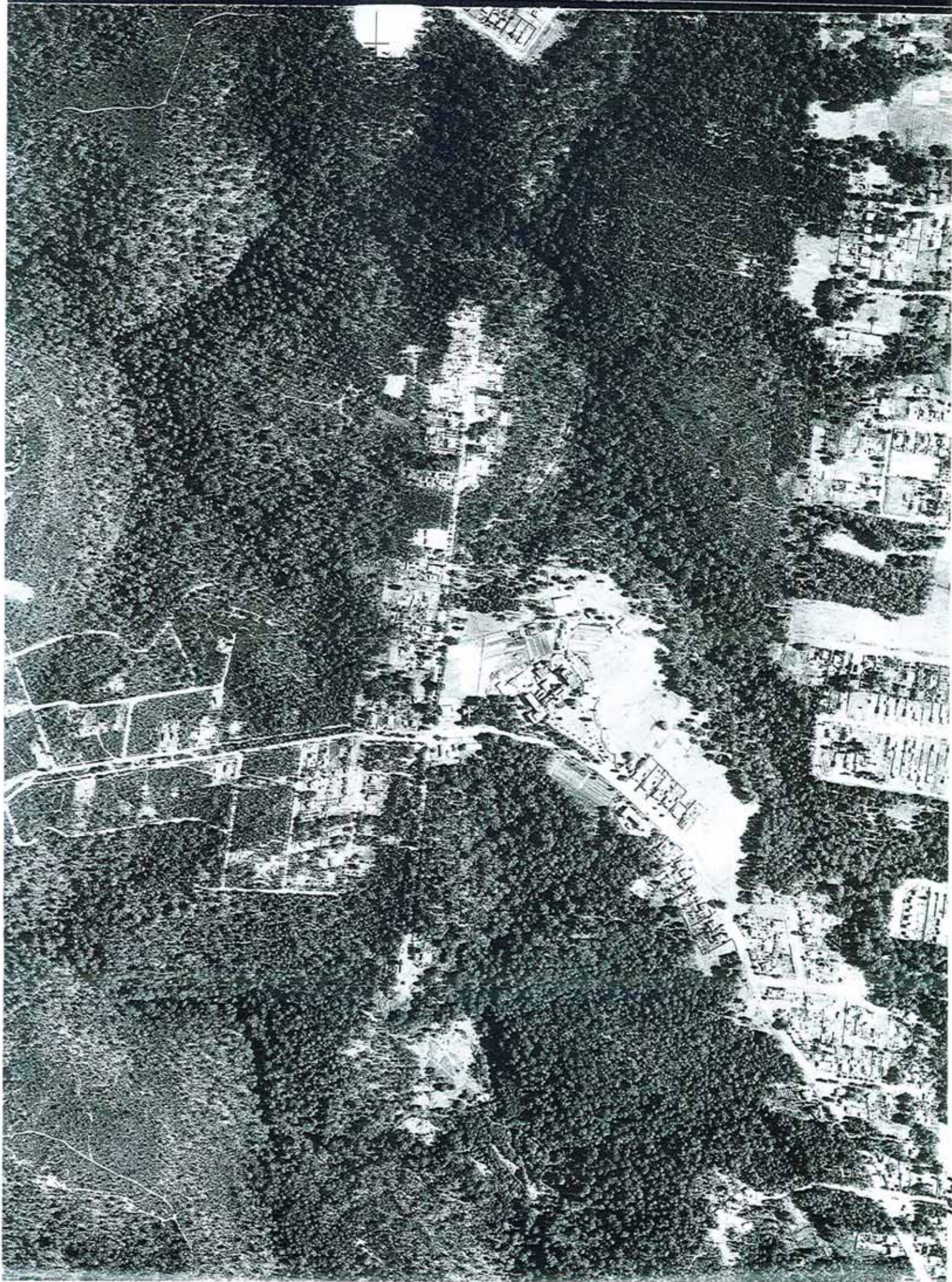
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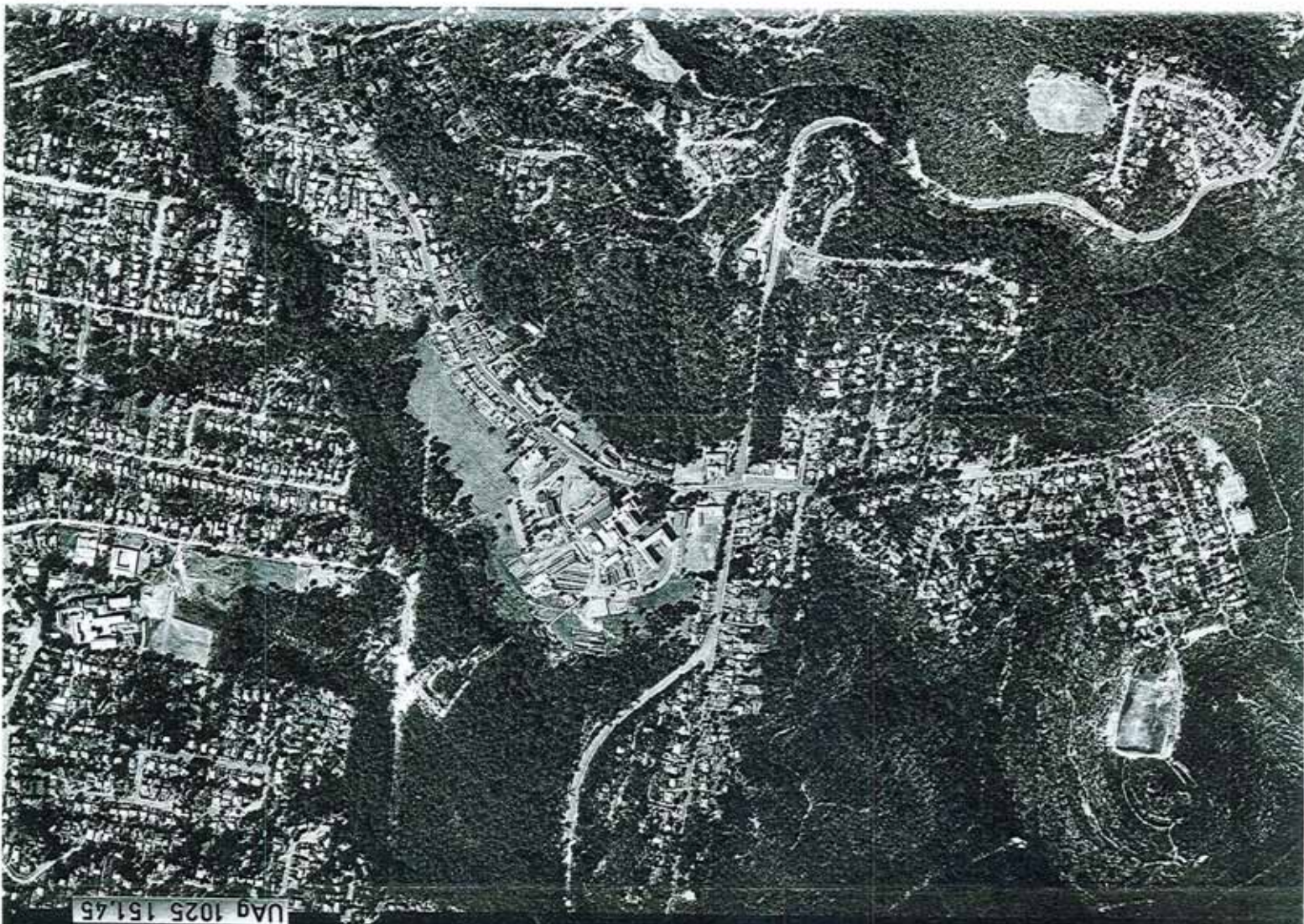
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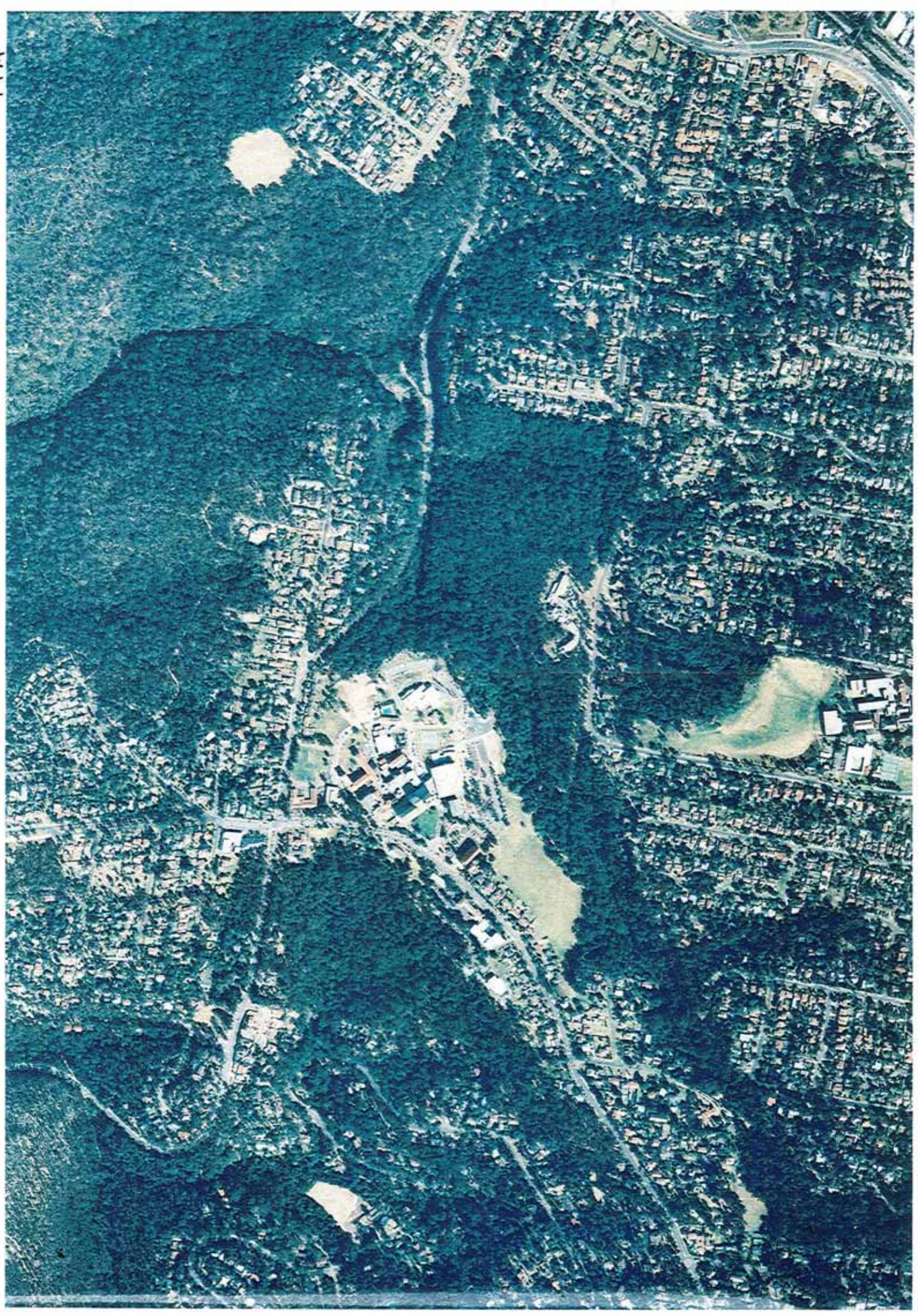


8661



UAg 1025 151.45





2002



2005

Property Details

185 Fox Valley Road, WAHROONGA

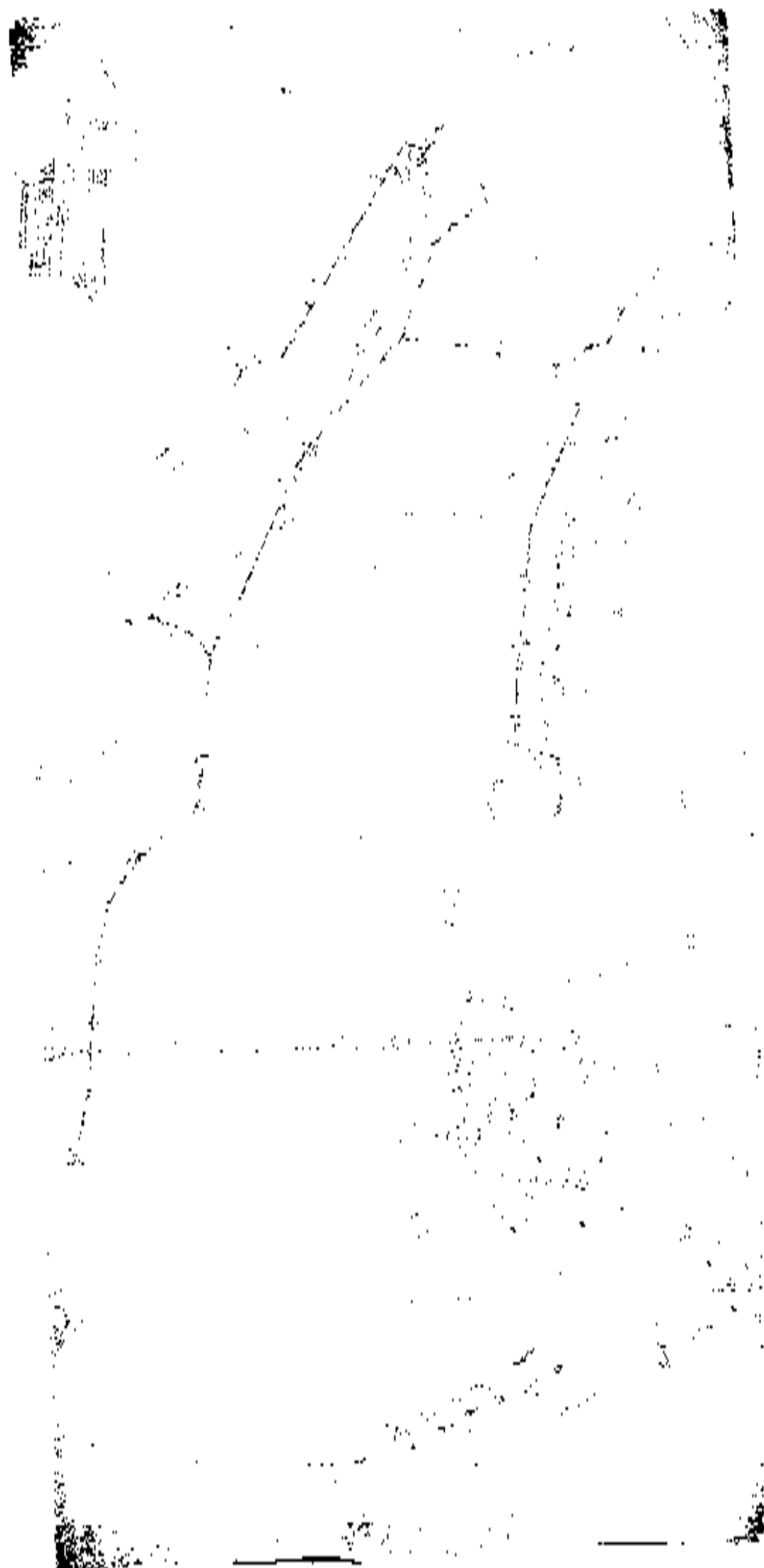
☒ Details	Property Number: 131005 Legal Description: Part Lot 52 DP 1017514 Land Number(s): 23066 Word: C/D/ENARRA Property Name: Hospital S.D.A
☐ Applications	CUPCA002607 - CC for DA 1185/06 issued by PCA Philip Chun & Associat... PDC0000107 - CCG - Private Certifier *** PHILIP CHUN & ASSOCIATES - ... CU9000071 - SIGN APPLICATION CU0600717 - PROPOSED ENTRY CANOPY TO FOUNDATION COTTAGE SYDNEY ADVE... CU9600178 - INTERNAL ALTERATION TO PURCHASING OFFICE CN8300235 - OFFICE FITOUT AND ADDITIONS CN9700204 - INTERNAL FITOUT OF EXISTING BUILDING TO PROVIDE OFFICE ... CN9700107 - INTERNAL ALTERATIONS TO ENDOSCOPY UNIT OF SYDNEY ADVENT... CL0700002 - ADDITIONAL CARPARKING FOR SYDNEY ADVENTIST HOSPITAL CL0600770 - INTERNAL ALTERATIONS & NEW DISABLED RAMP CL0500015 - ADDITION OF CHEMICAL TANK COMPOUND FOR LAUNDRY BL9B00506 - ADDITIONS TO EXISTING OFFICE, STORES AREA BL9500739 - REFURBISHMENT OF EXISTING ENTRANCE TO INCLUDE AN AIRLOC ... BL9500500 - CENTRE FOR HEALTH MANAGEMENT BL9600500 - CARPORT AT SYDNEY ADVENTIST HOSPITAL BL9600575 - ADDITION OF A CANCER SUPPORT CENTRE BL9600570 - EMERGENCY CARE CIVIL WORKS BL9600535 - ALTERATION TO PLUMBER WORKSHOP BL9600172 - NURSES WORKSTATION IN WARD 7 BL9600567 - ADDS & ALTS TO RADIATION ONCOLOGY DEPARTMENT BL9600299 - HOSPITAL ADDITIONS (MAJOR) BL960030 - ROADWAY FOR LAUNDRY SERVICE BL960000 - INTERNAL ALTERATIONS BL960011A - JACARANDA LODGE - STAGE 2 AMENDMENT BL960011 - JACARANDA LOUGE - STAGE 2 BL960052 - INTERNAL ALTERATIONS AT LEVEL SIX BL960017 - INSTITUTIONAL ADDITIONS AND ALTERATIONS BL960008 - ADDITIONAL CARPARKING BL9600327 - CONVERSION OF EXISTING STORE LOWER GROUND FLOOR BL960010 - RELOCATION OF MEDICAL RECORDS DEPARTMENT BL960011 - ADDITIONS & ALTERATIONS TO EMERGENCY CARE UNIT BL9600134 - EARLY STAGE APPLICATION BL9600138 - INTERNAL ALTERATIONS BL9600188 - PROPOSED STORE ROOM FIFTH FLOOR BL9600785 - PROPOSED MAMMOGRAPHY SCREENING UNIT BL9600555 - ALTERATIONS TO HOSPITAL DAY SURGERY CENTRE BL9600384 - ADDITIONS AND ALTERATIONS TO DWELLING IN HOSPITAL GROUN... BL9600238 - PROPOSED INTERNAL ADDITIONS AND ALTERATIONS BL9600065 - ALTERATIONS MEDICAL AND DENTAL CENTRE BL9600166 - ADDITIONS AND ALTERATIONS TO THEATRE 0 BL9600278 - CARPARK BL9600407/C2 - PCA CC for DA953/06 - INTERNAL ADDS & ALTS TO HOSPITAL ... BL9600103/FP - ALTERATION TO LEVEL 4 - MAIN BUILDING - FOR OFFICE AND... BL9600000/FP - ALTERATIONS TO EXISTING OFFICE FITOUT ON LEVEL 6 IN MAI... BL9600071/FP - FITOUT OF EXISTING SPACE ON LEVEL 3 FOR MAGNET RESONANC... BL9600150/FP - REMODELING OF PURCHASING OFFICE IN LAUNDRY AND STORES BUI... BL9600367/FP - LAUNDRY, MEZZANINE TO OFFICE SPACE BL9600427/FP - INTERNAL ALTERATIONS BL9600005/C1 - CC FOR DA 1099/06 BL9600011/C2 - PCA CC FOR DA 1225/05 GREENFIELD ACCREDITED CERTIF NEW ... BL9600034/C2 - CC FOR DA 1330/04 BL9600044/C2 - CERT FOR FOURTH & FINAL STAGE BL9600244/C1 - CERT FOR DA528/03 AS PER ARRANGEMENT WITH STEVE MURD... BL9600786/C2 - PCA CC FOR DA 457/03 BL9600704/C2 - PCA FOR DA 181/01 & 181/02 BL9600441/C2 - PCA CC FOR DA 1030/02 BL9600411/C2 - PCA CONS CERT FOR DA1357/02 BL9600149/C2 - PCA BCA LOGIC PTY LTD CC FOR DA 926/02 BL9600104/C2 - PCO FOR DA 381/01 BL9600097/C2 - cc by pcc BL9600750/C2 - PCO FOR DA 401/01 STAGE 3 BL9600611/C2 - PCO FOR DA 546/01 BL9600527/C2 - PCO FOR DA 481/01 BL9600523/C2 - PCO FOR DA 402/01 BL9600226/C2 - PCO FOR DA 481/01 BL96001487/C2 - PCA FOR DA 402/01 BL96001467/C2 - cc by pcc BL9600232/C2 - PRIVATE PCO FOR DA 492/01 BL96001567/C1 - CHILD CARE CENTRE & CARPARK BL9600066/C2 - PCO FOR DA 381/01

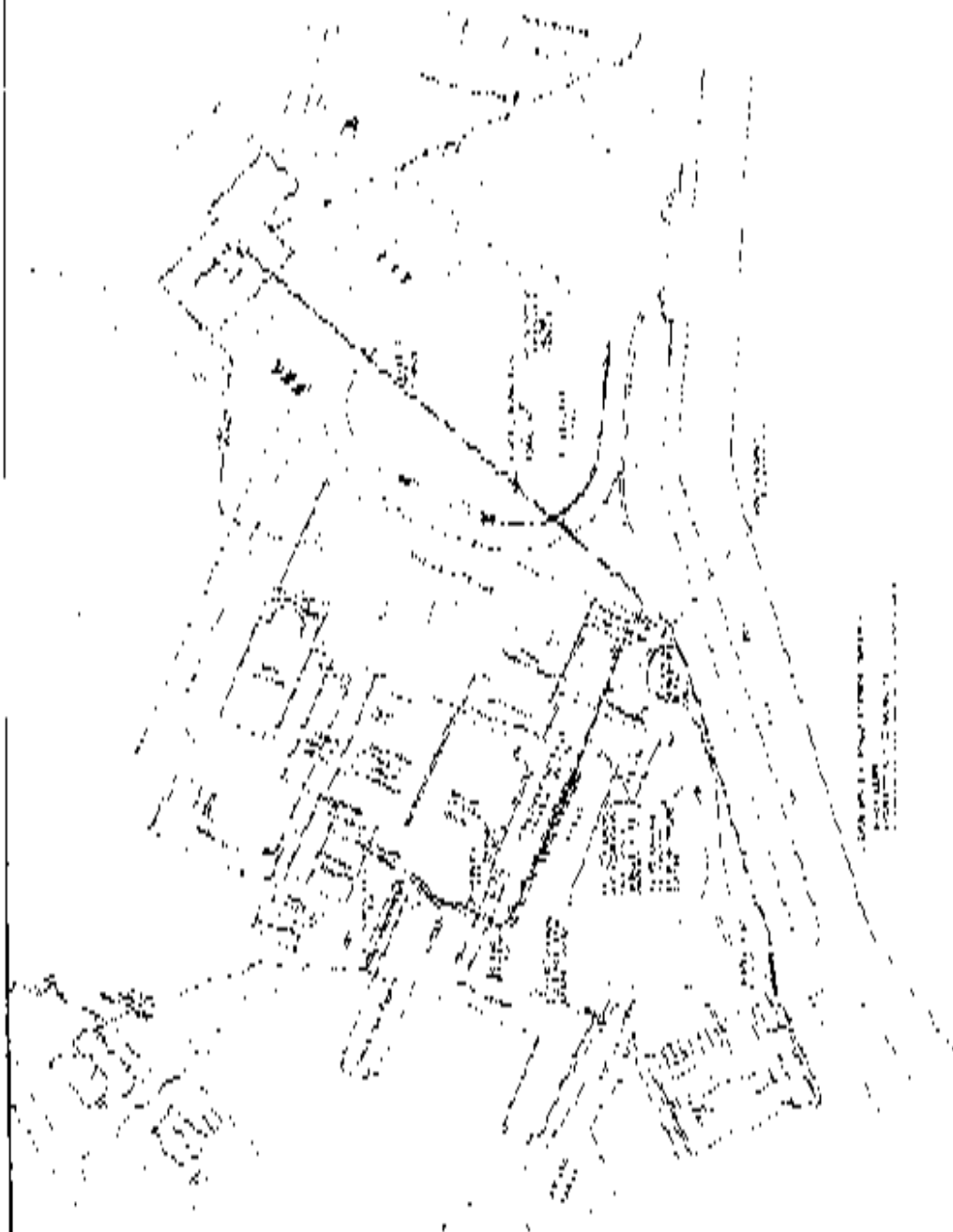
01/00686/C2 - PCC FOR DA 546/01
 00/01085/FP - ALTERATIONS TO CARPARK
 00/02404/FP - RELOCATE ULTRASOUND FACILITY
 00/00839/FP - ALTERATIONS TO KITCHEN
 00/00870/FP - PRE-FABRICATED STAFF BUILDING
 00/00686/FP - REFURBISH NUCLEAR MEDICINE DEPARTMENT
 00/00334/FP - REFURBISH AN EXISTING BRICK STORAGE SPACE AS A BIO-MED...
 00/00332/FP - REFURBISH AN EXISTING SPACE ON LEVEL 3 OF THE CLINICAL S...
 80/05/C2/ - cdc by pcc
 78/05/C2/ - internal office fitout
 78/05/C2/ - cdc by pcc
 78/05/C2/ - NEW SUITES LEVELS 3,5 & 6 OF NEW MEDICAL CENTRE
 75/03/C2/ - NEW SUITES LEVELS 5 & 6 - NEW MEDICAL CENTRE
 70/03/C2/ - PCA COMPLYING DEVELOPMENT - NEW SUITES WITHIN LEVELS 3 ...
 68/05/C2/ - PCA CDC FOR INTERNAL COMMERCIAL SUITS (SUITE 408) - PHIL...
 59/06/C2/ - COMPLYING DEVELOPMENT FROM PCA INTERNAL OFFICE FITOUT T...
 55/04/C2/ - internal fitout of medical suites
 53/03/C2/ - INTERNAL FITOUT OF MEDICAL SUITES - LEVEL 3,5 & 6
 45/06/C2/ - Anniversary Celebrations Food Stalls etc
 15/06/C2/ - INTERNAL OFFICE FITOUT TO MEDICAL SUITE
 03/00/FP - INTERNAL ALTERATIONS TO LOWER LEVEL 6 AND EXTENSION TO ...
 02/00/OT - ADDITIONS AND ALTERATIONS TO APPROVED CHILD CARE CENTRE ...
 00/00/DO - ALTERATIONS TO EXISTING OFFICE FITOUT ON LEVEL 6 IN MAIL ...
 00/00/FP - REMODELING OF PURCHASING DEPOT IN LAUNDRY AND STORES BU...
 77/00/DO - FITOUT OF EXISTING SPACE ON LEVEL 3 FOR MAGNET RESONANC...
 70/00/FP - ADDITIONS AND ALTERATIONS TO HOSPITAL
 70/00/DO - CHILD CARE CENTRE AND CARPARK - AMENDED PLANS
 70/00/FP - CHILD CARE CENTRE AND CARPARK
 00/00/FP - PRE-FABRICATED STAFF BUILDING
 68/00/DO - REFURBISH NUCLEAR MEDICINE DEPARTMENT
 64/00/FP - REFURBISH WARD
 58/03/98 - ROADWAY FOR LAUNDRY SERVICE
 68/00/98 - INTERNAL ALTERATIONS
 58/00/98 - ADDITIONS TO EXISTING OFFICE, STORES AREA
 57/00/20/FP - DEMOLISH SHEDS & FUEL AREA ESTABLISH BUILDERS COMPOUND ...
 56/00/98 - OFFICE FITOUT AND ADDITIONS
 56/00/98 - SIGN APPLICATION
 55/00/7A - JACARANDA LODGE - STAGE 2 AMENDMENT
 55/00/97 - JACARANDA LODGE - STAGE 2
 54/00/FP - NEW MULTI LEVEL CARPARK STRUCTURE AND ADDITIONAL ON- G...
 53/00/97 - ADDITIONAL CARPARKING FOR SYDNEY ADVENTIST HOSPITAL
 52/00/FP - ERECT A FREESTANDING SIGN & A WALL MOUNTED SIGN TO THE ...
 52/00/97 - INTERNAL FITOUT OF EXISTING BUILDING TO PROVIDE OFFICE ...
 52/00/97 - INTERNAL ALTERATIONS TO ENDOSCOPY UNIT OF SYDNEY ADVENT ...
 52/00/96 - INTERNAL ALTERATIONS AT LEVEL SIX
 51/00/96 - INSTITUTIONAL ADDITIONS AND ALTERATIONS
 49/00/96 - INTERNAL ALTERATIONS & NEW DISABLED RAMP
 48/00/96 - PROPOSED ENTRY CANOPY TO FOUNDATION COURTYARD SYDNEY ADVE...
 48/00/96 - CARPARKING - AMEND DRIVEWAY
 48/00/FP - CARPARKING
 48/00/96 - INTERNAL ALTERATION TO PURCHASING OFFICE
 48/00/96 - MEDICAL CENTRE - AMENDED PLANS
 48/00/FP - DEMOLITION THEN BUILD NEW MEDICAL CENTRE
 48/00/96 - RELOCATION OF MEDICAL RECORDS DEPARTMENT
 45/00/DO - FITOUT EXISTING SPACE FOR NEW COFFEE SHOP
 44/00/96 - ADDITION OF CHEMICAL TANK COMPOUND FOR LAUNDRY
 43/00/96 - NEW EMERGENCY UNIT & RELOCATE HEALTH MANAGEMENT CENTRE IR...
 43/00/96 - CONSTRUCTION OF A CANCER SUPPORT CENTRE
 41/00/96 - ALTS TO "PLUMBERS WORKSHOP" TO CREATE A STORAGE AREA IM...
 40/00/96 - ON SITE DISPOSAL OF EXCAVATED MATERIAL (MG) (O)
 40/00/FP - LAUNDRY MEZZANINE TO OFFICE SPACE
 40/00/FP - REFURBISH WARD LEVELS 7-12
 39/00/96 - INCORPORATE SCHOOL OF NURSING LECTURE THEATRE & HOSP ...
 38/00/96 - ADDS TO ONCOLOGY UNIT & NEW CARPARK (C) (M)
 38/00/FP - REFURBISH AN EXISTING BRICK STORAGE SPACE AS A BIO-MED ...
 38/00/FP - REFURBISH AN EXISTING SPACE ON LEVEL 3 OF THE CLINICAL S...
 38/00/FP - COMMUNITY CENTRE
 37/00/96 - NEW HOSPITAL WING (MG) (O)
 35/00/96 - CHANGE OF USE FROM DRY IRONING ROOM TO OUTPATIENT DAY C...
 31/00/FP - INTERNAL ALTERATIONS
 29/00/96 - ALTS & adds to create a new op-theatre, 2 nursing rooms ...
 27/00/96 - Additions to Sydney Adventist Hosp - Lower, ground & 1st ...
 27/00/96 - Alterations to Sydney Advent Hosp - Lower ground level ...
 23/00/96 - New building to house laundry facilities Comenore Ward ...
 16/00/20/FP - MEDICAL CENTRE
 14/07/00/FP - ADDITIONS AND ALTERATIONS TO HOSPITAL LAUNDRY FACILITY
 13/07/00/FP - ADDITIONAL PRECASTRIAN LEVEL TO LINK FOOTBRIDGE
 13/00/04/FP - ADDITIONS AND ALTERATIONS - SUBSTATION ELECTRICAL UPGRAD...
 12/07/05/FP - UPGRADE OF LAUNDRY STORES AND MAINFOLD
 12/00/05/08 - NEW VERGOLA
 12/00/00/FP - ALTERATIONS TO CARPARK
 11/00/00/FP - ADDITIONS & ALTERATIONS TO EXISTING DEVELOPMENT APPROVA...

	1163090DP - ALTERATION TO LEVEL 4 - MAIN BUILDING - FOR OFFICE AND...
	1093060DX - MINOR INTERNAL ALTERATIONS CHILD CARE CENTRE
	1059020DP - TENANT FITOUT IN SPECIALIST MEDICAL CENTRE ON LEVEL 3
	1058000DP - RELOCATE ULTRASOUND FACILITY
	1055000DP - ALTERATIONS TO KITCHEN
	54931 - TELECOMMUNICATIONS FACILITY FOR OPTUS
	50930 - TELSTRA TELECOMMUNICATIONS FACILITY - CELLULAR MOBILE B
	48930 - VODAPHONE UPGRADING OF EXISTING TELECOMMUNICATIONS FACI
	306655/TT - ONCOLOGY UNIT- MODIFICATION OF CONDITIONS OF CONSENT -
	DAD083/08 - Commercial development Internal floor level 1
	PA11185/06 - ALTERATIONS & ADDITIONS TO EXISTING HOSPITAL
	UA1308/06 - ALTERATIONS TO EXISTING CHILD CARE CENTRE
☐ Valuations	01/01/2006 (Effective 01/01/2006) - \$8060000
☐ Attributes	 zoning (ZSUS411R00) Zoneset - Part GU 5(a) (Hospital) & Part Recreation 6(b) Property Attributes (AdjoiningLMB) PropAdjLmb - This property adjoins a LMB (DCPSPU) PropDcp - Development Control Plans (ecocgrf) PropEcgrf - Btmg Green High Forest (SEP2004EX) PropExcl - Excluded - SEPP (Housing & Services) 2004 (TAC02) PropMisc - Hospital (SEP2004EX) PropExcl - Excluded from SEPP (Seniors Living) 2004 (SEPP00PS) PropSepp - State Environmental Planning Policy (SREP5CH) PropSepp - SRSE (Sydney Harbour Catchment) 2005 (SZ5AMR6B) PropZone - SpH Zone Description (ZSUS411R00) ProjZoneset - Part 211 5(a) (Hospital) & Part Recreation 6(b) (RatBusStd) RateQual - Business Rate - Standard (RatSpHEnv) RateQual - Special Rate - Environmental Levy (RatSpHInf) RateQual - Special Rate - Infrastructure Levy (WstNonDom) RateQual - Non Domestic Charge (Property Val - Property Valuation Details (ue2 WstszZone - Tuesday Week 2 Land Attributes (Ca01) LandUse - Bush Fire Prone Land - Call of Call A Buffer (SEPP04EX) Landsepp - SEPP No.63 - Dual Occupancy Exclusion (SEPP04EX) LANDSEPP - SEPP No.63 Exclusion Area

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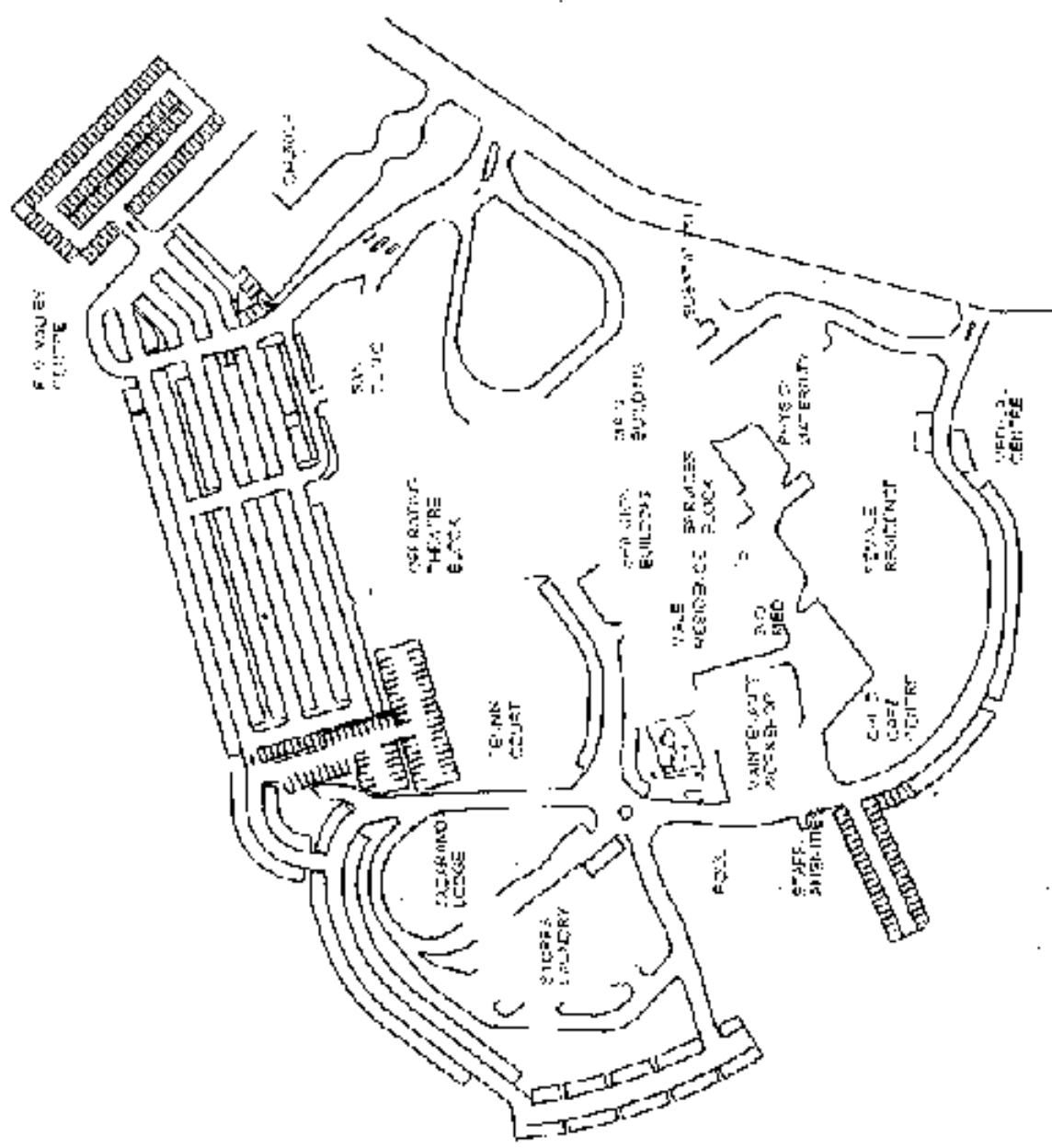


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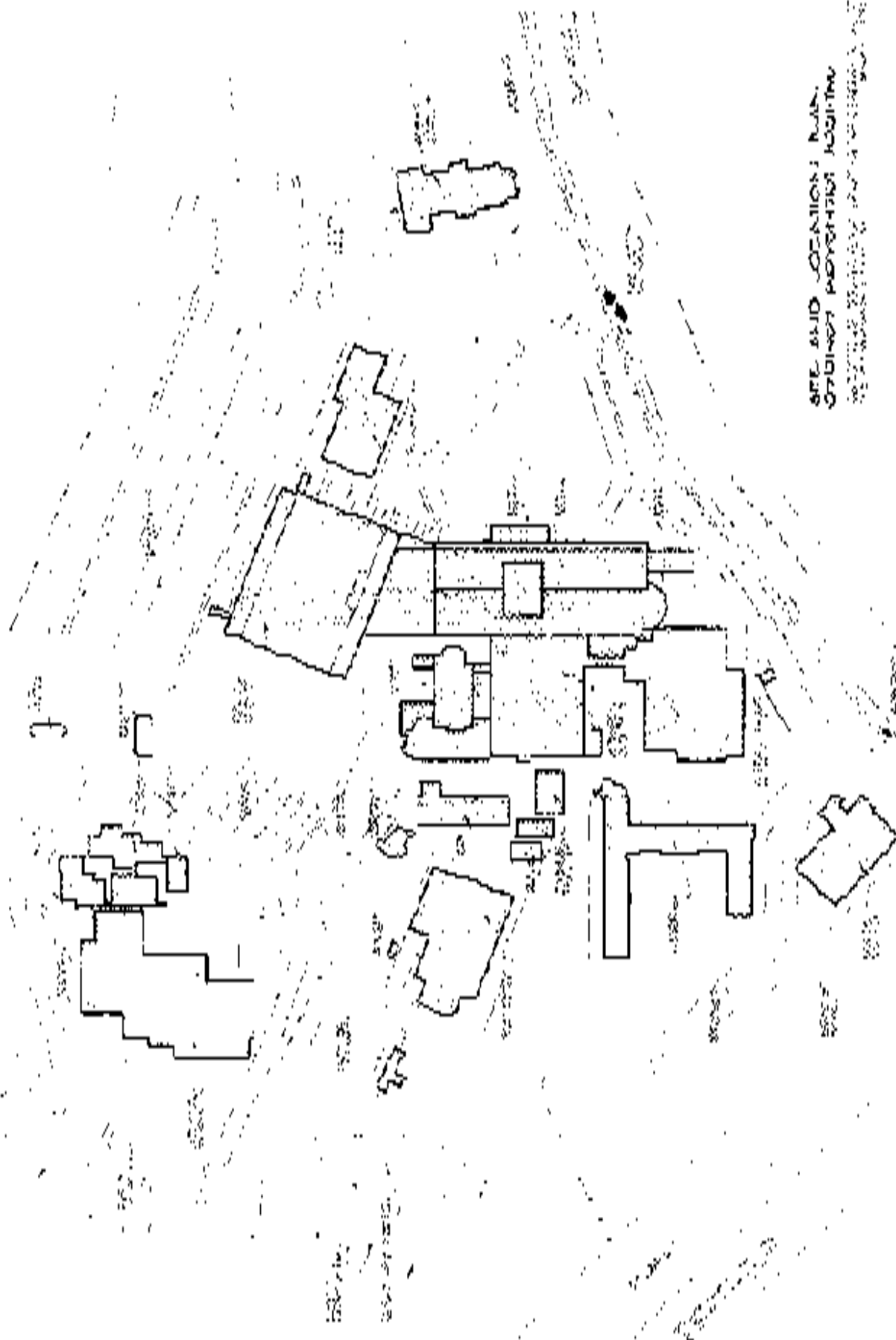
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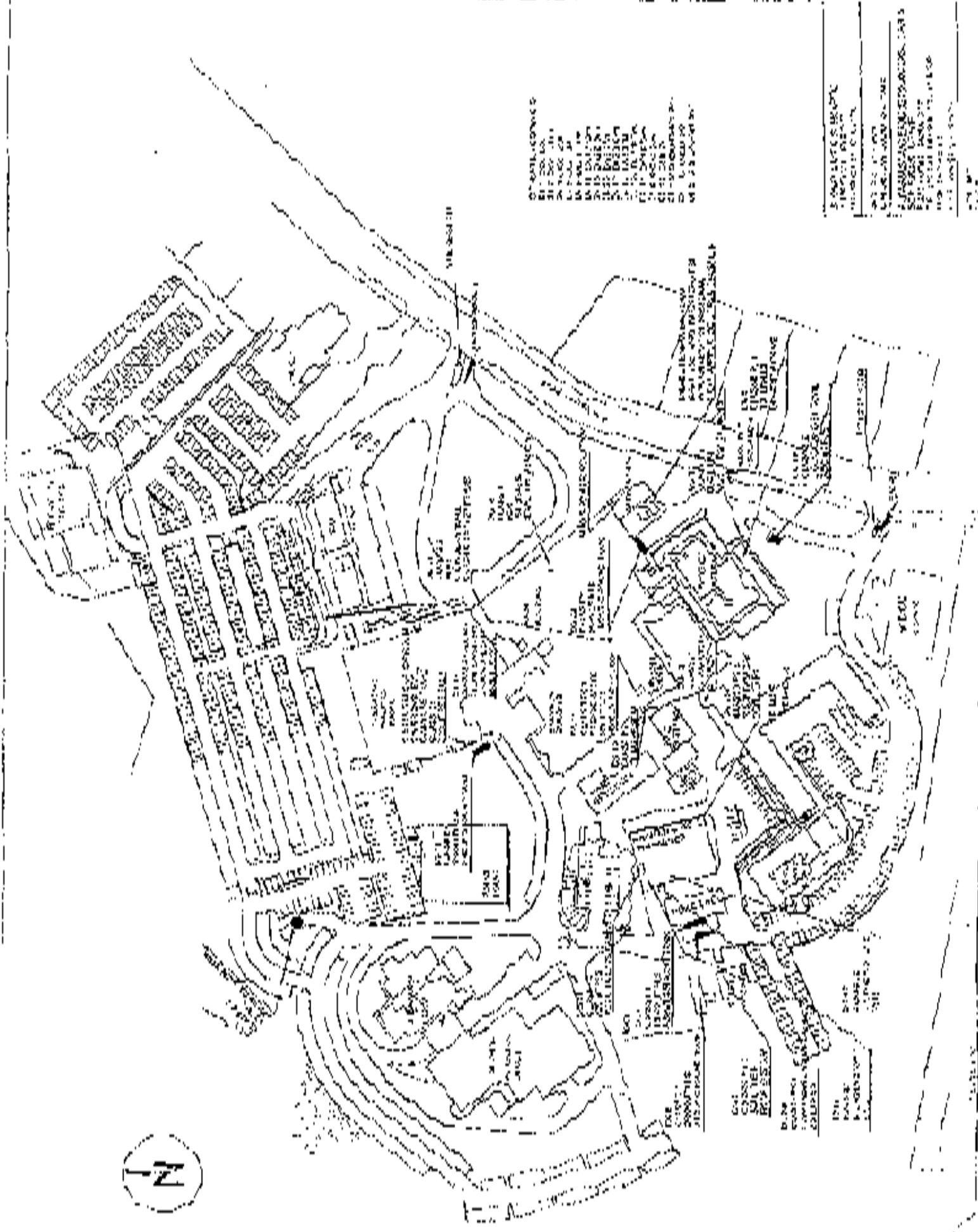
Page 2 of 3





SITE AND LOCATION PLAN
ORDINARY PROVISIONS INCLUDING
RELEVANT PROVISIONS FOR A COMMUNITY





- SYMBOLS
- 1. BUILDING
 - 2. ROAD
 - 3. FENCE
 - 4. GROUND
 - 5. WATER
 - 6. SWAMP
 - 7. HILL
 - 8. MOUNTAIN
 - 9. CANYON
 - 10. RIVER
 - 11. LAKE
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Search results

Your search for: LGA: Ku-ring-gai Council

Matched 16 notices relating to 3 sites.

Suburb	Address	Site Name	Notices related to this site
Killara	684-696 Pacific Highway	Area Adj to Former Caltex Service Station	13 Current
Killara	692B-694 Pacific Highway	Former Caltex Service Station	1 current
Strives	179-181 Mona Vale Road	Shell Service Station	1 current and 1 former

Page 1 of 1

7 March 2008



Search results

Your search for: **Suburb - Wahroonga**

matched

1 licence (with applications or notices matching your search)
plus 2 notices (where no licence is available online. See 'eq.')

Document number	Name	Address	Status/Notice type
6546	SYDNEY ADVENTIST HOSPITAL LIMITED licence summary	185 FOX VALLEY ROAD WAHROONGA 2076	Issued
009971	HILL'S TRUCKING & TRANSPORT PTY LTD notice summary	83 KENTCOTE STREET WAHROONGA 2076	S 58 Licence Variation
1030703	MITCHELL ; INDI notice summary	139 LUCINDA AVENUE SOUTH WAHROONGA 2076	Approval under Control of Burning Reg

Page 1 of 1

7 March 2008



Print



Close page

Licence summary

Your search for **Suburb : Wahroonga**

Summary of Licence No: 6546

Licence holder: SYDNEY ADVENTIST HOSPITAL LIMITED
Trading as : SYDNEY ADVENTIST HOSPITAL

Premises: SYDNEY ADVENTIST HOSPITAL
 185 FOX VALLEY ROAD WAHROONGA 2076
LGA: Ku-ring-gai **Catchment:** Hawkesbury

Administrative fee: \$1,520.00

Status of licence: Issued

Licence type: Premises

Activity type: Waste Generation or Storage - Hazardous, Industrial or Group A

Licence review: Completed 14 Feb 05

Applications

Number	Application type	Current status	Date received
140899	Licence Transfer	Approved	06 Nov 01

Notices

Number	Issue Date	Notice type
1047037	27 Apr 05	S 56 Licence Variation
1044478	15 Feb 05	S 58 Licence Variation

Annual Return Information

Start date	End date	Date received	Non-compliance	LBL data
01 Dec 06	30 Nov 07	29 Jan 08	No	n/a
01 Dec 05	30 Nov 06	22 Jan 07	No	n/a
01 Dec 04	30 Nov 05	24 Jan 06	No	n/a
01 Dec 03	30 Nov 04	23 Dec 04	No	n/a
01 Dec 02	30 Nov 03	12 Jan 04	No	n/a
01 Dec 01	30 Nov 02	17 Jan 03	No	n/a
01 Dec 00	30 Nov 01	29 Jan 02	No	n/a
01 Dec 99	30 Nov 00	15 Jan 01	No	n/a

7 March 2008



Application summary

Your search for: **Suburb - Wahroonga**

Summary of Application No: 140899

Applicant: SYDNEY ADVENTIST HOSPITAL LIMITED
Trading as : SYDNEY ADVENTIST HOSPITAL

Premises: SYDNEY ADVENTIST HOSPITAL
185 FOX VALLEY ROAD WAHRONGA 2076
LGA: Ku-ring-gai **Catchment:** Hawkesbury

Status : Approved

Application type: Licence Transfer

Licence type: Premises

Activity type: Waste Generation or Storage - Hazardous, Industrial or Group A

Received: 06 Nov 01

Licences

Number	Licence type
6546	Premises

7 March 2008



Our Ref: D000027172
Your Ref: David Deen

20 March 2008

Attention: David Deen
Coffey Environments
PO Box 346
UNANDERRA NSW 2526

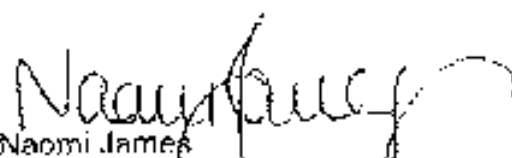
Dear David,

RE SITE: 185 Fox Valley Rd, Wahroonga

I refer to your search request of 14th March 2008 requesting information on a Licence to Keep Dangerous Goods on the above site.

Enclosed are copies of the documents, which WorkCover holds on Dangerous Goods Licence 35/014066 relating to the storage of dangerous goods at the above-mentioned premises as listed on the Stored Chemical Information Database (SCID).

If you have any further queries, please contact WorkCover's Dangerous Goods Licensing staff on (02) 4321 5500.


Naomi James
A/Senior Licensing Officer
Dangerous Goods

WorkCover. Watching out for you.

WorkCover NSW. ABN 77 689 769 900. 92-100 Channon Street, Gosford NSW 2250. Locked Bag 2504, Lismore NSW 2257.
Telephone (02) 4321 5500. Facsimile (02) 4325 4145. www.workcover.nsw.gov.au
Or 751 Safety. Website www.workcover.nsw.gov.au

337



SYDNEY
ADVENTIST
HOSPITAL

11th June 2004

Licensing Coordinator
Dangerous Goods Licensing
WorkCover
Locked Bag 2906
Lisarow NSW 2252

Dear Coordinator

RE: LICENSE NO. 35/014066

Changes in the last twelve months are:

Depot 3 and 4 no longer holds any chemicals due to the closure of our laundry late last year.

The chemicals were collected by the supplier on closure of the laundry.

Yours sincerely

Ian Thomson
Hospital Engineer



Licence No. 35/014068

APPLICATION FOR RENEWAL OF LICENCE TO KEEP DANGEROUS GOODS

ISSUED UNDER AND SUBJECT TO THE PROVISIONS OF THE DANGEROUS GOODS ACT, 1975 AND REGULATION
THEREUNDER

DECLARATION: Please renew licence number 35/014068 to 16/07/2005. I confirm that all the licence details shown below are correct (amend if necessary).

.....
(Signature)

.....
(Please print name)

.....
(Date signed)

for SYDNEY ADVENTIST HOSPITAL

THIS SIGNED DECLARATION SHOULD BE RETURNED TO:

WorkCover New South Wales

Enquiries: ph (02) 43215500

Dangerous Goods Licensing Section

fax (02) 92875500

LOCKED BAG 2006

LISAROW NSW 2252

Details of licence on 28 May 2004

Licence Number 35/014068

Expiry Date 16/07/2004

Licensee SYDNEY ADVENTIST HOSPITAL

Postal Address: 185 FOX VALLEY RD WAHROONGA NSW 2076

Licensee Contact IAN THOMSON Ph. 02 9487 9070 Fax 02 9489 7715

Premises Licensed to Keep Dangerous Goods

SYDNEY ADVENTIST HOSPITAL

185 FOX VALLEY RD WAHROONGA 2076

Nature of Site HOSPITALS (EXCEPT PSYCHIATRIC HOSPITALS)

Major Supplier of Dangerous Goods UNKNOWN OR OTHER

Emergency Contact for this Site SECURITY SERVICE Ph. 02 9487 9111

Site staffing 24 HRS 7 DAYS

Details of Depots

Depot No.	Depot Type	Goods Stored in Depot	Qty
1	EXEMPT - A/G TANK	Class 2.2	12500 L
		UN 1073 OXYGEN, REFRIGERATED LIQUID	10000 L
10	EXEMPT - A/G TANK	Class 2.2	2500 L
		UN 1073 OXYGEN, REFRIGERATED LIQUID	2000 L
11	ROOFED STORE	Class 3	500 L
		UN 1170 ETHANOL (ETHYL ALCOHOL)	300 L
12	EXEMPT - STORAGE AREA	Class 2.1	120 KG
		UN 1075 PETROLEUM GASES, LIQUEFIED	80 KG
13	EXEMPT - STORAGE AREA	Class 2.2	7 M3
		UN 1046 HELIUM, COMPRESSED	6 M3
14	EXEMPT - STORAGE AREA	Class 2.2	500 M3
		UN 1002 AIR, COMPRESSED	150 M3
		UN 1013 CARBON DIOXIDE	120 M3
		UN 1046 HELIUM, COMPRESSED	6 M3
		UN 1066 NITROGEN, COMPRESSED	20 M3
		UN 1070 NITROUS OXIDE	140 M3
		UN 1072 OXYGEN, COMPRESSED	20 M3
15	EXEMPT - U/G TANK	Class C1	12000 L
		UN 0001 DIESEL	10000 L

Licence No. 35/014066

APPLICATION FOR RENEWAL OF LICENCE TO KEEP DANGEROUS GOODS

ISSUED UNDER AND SUBJECT TO THE PROVISIONS OF THE DANGEROUS GOODS ACT, 1953 AND REGULATION
THEREUNDER

	UN 1170 ETHANOL (ETHYL ALCOHOL)		100 L
17	EXEMPT - STORAGE AREA	Class 2.2	35 M3
	UN 1013 CARBON DIOXIDE		15 KG
	UN 1072 OXYGEN, COMPRESSED		20 M3
18	EXEMPT - STORAGE AREA	Class 2.1	90 KG
	UN 1075 PETROLEUM GASES, LIQUEFIED		60 KG
19	EXEMPT - STORAGE AREA	Class 2.2	20 M3
	UN 1006 ARGON, COMPRESSED		20 M3
2	EXEMPT - STORAGE AREA	Class 2.1	108 KG
	UN 1075 PETROLEUM GASES, LIQUEFIED		70 KG
20	FLAMMABLE LIQUIDS CABINET	Class 3	250 L
	UN 1203 MOTOR SPIRIT		100 L
21	TOXICS CABINET	Class 6.1	120 L
	UN 3010 COPPER BASED PESTICIDE, LIQUID, TOXIC		5 L
	UN 3017 ORGANOPHOSPHORUS PESTICIDE, LIQUID, TOXIC, FL		5 L
	UN 3017 ORGANOPHOSPHORUS PESTICIDE, LIQUID, TOXIC, FL		20 L
	UN 3017 ORGANOPHOSPHORUS PESTICIDE, LIQUID, TOXIC, FL		10 L
	UN 3017 ORGANOPHOSPHORUS PESTICIDE, LIQUID, TOXIC, FL		5 L
3	ABOVE-GROUND TANK	Class 8	4400 L
	UN 1719 CAUSTIC ALKALI LIQUID, N.O.S.		2000 L
	UN 1791 HYPOCHLORITE SOLUTION		1500 L
4	ABOVE-GROUND TANK	Class 5.1	800 L
	UN 2014 HYDROGEN PEROXIDE, AQUEOUS SOLUTION		600 L
6	EXEMPT - STORAGE AREA	Class 8	240 L
	UN 1789 HYDROCHLORIC ACID		30 L
	UN 1791 HYPOCHLORITE SOLUTION		180 L
6	EXEMPT - A/G TANK	Class C1	20000 L
	UN 2001 HEATING OIL		7000 L
7	EXEMPT - A/G TANK	Class C1	15000 L
	UN 2001 HEATING OIL		5000 L
8	EXEMPT - A/G TANK	Class 8	100 L
	UN 1791 HYPOCHLORITE SOLUTION		70 L
9	EXEMPT - A/G TANK	Class 2.2	180 L
	UN 1013 CARBON DIOXIDE		100 L

CREEK & BUSHLAND

DEPOT 2
CLASS 2.1
CAP. 108 KG

DEPOT 3
CLASS 8
CAP 4,400 L

DEPOT 4
CLASS 5.1
CAP 802 L

DEPOT 21
CLASS 6
CAP 120 L

DEPOT 20
CLASS 3
CAP 250 L

DEPOT 5
CLASS 8
CAP 240 L

DEPOT 6
CLASS C1
CAP 20,000 L

DEPOT 7
CLASS C1
CAP 15,000 L

DEPOT 16
CLASS 2.1
CAP 90 KG

DEPOT 17
CLASS 2.2
CAP 35 M3

DEPOT 19
CLASS 2.2
CAP 23 M3

DEPOT 13
CLASS 2.2
CAP 7.3 M3

DEPOT 18
CLASS 2.2
CAP 180 L

DEPOT 9
CLASS 2.2
CAP 100 L

DEPOT 10
CLASS 2.2
CAP 2,550 L

DEPOT 8
CLASS 8
CAP 100 L

35/014066

DEPOT 1
CLASS 2.2
CAPACITY 12,500 L

DEPOT 15
CLASS C1
CAP 500 M3

DEPOT 14
CLASS 2.2
CAP 500 M3

DEPOT 12
CLASS 2.1
CAP 20 KG

DEPOT 11
CLASS 3
CAP 500 L

DEPOT 10
CLASS 2.2
CAP 180 L

DEPOT 9
CLASS 2.2
CAP 100 L

DEPOT 8
CLASS 8
CAP 100 L

DEPOT 7
CLASS C1
CAP 15,000 L

DEPOT 6
CLASS C1
CAP 20,000 L

DEPOT 5
CLASS 8
CAP 240 L

DEPOT 4
CLASS 5.1
CAP 802 L

DEPOT 3
CLASS 8
CAP 4,400 L

DEPOT 2
CLASS 2.1
CAP 108 KG

DEPOT 1
CLASS 2.2
CAPACITY 12,500 L

DEPOT 0
CLASS 0
CAP 0 L

SEPARATION DISTA.
DEPOT 1 TO 2 80M
DEPOT 2 TO 3 50M
DEPOT 3 TO 4 5M
DEPOT 4 TO 5 40M
DEPOT 5 TO 6 25M
DEPOT 6 TO 7 150M
DEPOT 7 TO 8 15M
DEPOT 8 TO 9 15M
DEPOT 9 TO 10 11 30M
DEPOT 10 TO 11 30M
DEPOT 11 TO 12 20M
DEPOT 12 TO 13 70M
DEPOT 13 TO 14 70M
DEPOT 14 TO 15 30M
DEPOT 15 TO 16 60M
DEPOT 16 TO 17 130M
DEPOT 17 TO 18 5M
DEPOT 18 TO 19 15M
DEPOT 19 TO 20 30M
DEPOT 20 TO 21 5M

PRIVATE HOUSES

CHURCH

HEALTH CENTRE

CLINICAL SERVICES BLOCK

CAR PARK

SUPPORT CENTRE

AUNDRY

POOL

MATCHE

SERVICES

MATERNITY

RESIDENCE

MAIN BLOCK

WATER/ELECTRICAL ISOLATION

MAIN ENTRANCE

FOX VALLEY ROAD

N

FIRE APPLIANCE LEGEND
H HYDRANT
P POWDER TYPE EXTINGUISHER
C CO2 TYPE EXTINGUISHER

ENTRY POINT

MAIN GAS ISOLATION

SMITHING

PRIVATE HOUSES

COOMENARRA PARKWAY

185 FOX VALLEY ROAD WAHROONGA 2076

SYDNEY ADVENTIST HOSPITAL

SITE SKETCH

Scale 1:5000

Delete all & Add

Dangerous Goods Depots
Sydney Adventist Hospital. 185 Fox Valley Road, Wahroonga 2076

Depot Number	Type of Depot	Depot Class		Maximum Storage Capacity		
1	Above Ground Tank	2.2		12,500 L		
UN Number	Proper Shipping Name	Class	PG	Product or Common Name	Typical Quantity	Unit
1073	Oxygen	2.2		Liquid Oxygen-Medical	10,000	L

EXEMPT DEPOT. FOR SCID PURPOSES ONLY. Yard located at north east of Jacaranda Lodge.

Depot Number	Type of Depot	Depot Class		Maximum Storage Capacity		
2	Cylinder Store	2.1		108 Kg		
UN Number	Proper Shipping Name	Class	PG	Product or Common Name	Typical Quantity	Unit
1075	Propane	2.1		LP Gas	70	Kg

EXEMPT DEPOT. FOR SCID PURPOSES ONLY. Located on the east side of laundry store.

Depot Number	Type of Depot	Depot Class		Maximum Storage Capacity		
3	Above Ground Tank	8		4,400 L		
UN Number	Proper Shipping Name	Class	PG	Product or Common Name	Typical Quantity	Unit
1719	Sodium Hydroxide Solution	8	II	Control Conquer	2,000	L
1791	Hypochlorite Solution	8	II	Dairy - Chlor	1,500	L

Located on the south side of the laundry.

Depot Number	Type of Depot	Depot Class		Maximum Storage Capacity		
4	Above Ground Tank	5.1		600 L		
UN Number	Proper Shipping Name	Class	PG	Product or Common Name	Typical Quantity	Unit
2014	Hydrogen Peroxide	5.1	II	Interlox 50 T	600	L

Located on the south side of the laundry.

Depot Number	Type of Depot	Depot Class		Maximum Storage Capacity		
5	Roofed Store	8		240 L		
UN Number	Proper Shipping Name	Class	PG	Product or Common Name	Typical Quantity	Unit
1791	Sodium Hypochlorite	8	II	Liquid Chlorine	180	L
1789	Hydrochloric Acid	8	II	Hydrochloric Pool Acid	30	L

EXEMPT DEPOT. FOR SCID PURPOSES ONLY. Located south of the staff swimming pool.

Dangerous Goods Depots
Sydney Adventist Hospital. 185 Fox Valley Road, Wahroonga 2076

Depot Number	Type of Depot	Depot Class		Maximum Storage Capacity		
6	Above Ground Tank	C1		20,000 L		
UN Number	Proper Shipping Name	Class	PG	Product or Common Name	Typical Quantity	Unit
	Boiler Oil	C1		Fuel Oil	7,000	L

EXEMPT DEPOT FOR SCID PURPOSES ONLY. Located west of the boilerhouse.

*plan
sheet*

Depot Number	Type of Depot	Depot Class		Maximum Storage Capacity		
7	Above Ground Tank	C1		15,000 L		
UN Number	Proper Shipping Name	Class	PG	Product or Common Name	Typical Quantity	Unit
	Oil	C1		Oil	5,000	L

EXEMPT DEPOT FOR SCID PURPOSES ONLY. Located west of the boiler house.

*plan
sheet*

Depot Number	Type of Depot	Depot Class		Maximum Storage Capacity		
8	Above Ground Tank	8		100 L		
UN Number	Proper Shipping Name	Class	PG	Product or Common Name	Typical Quantity	Unit
1791	Sodium Hypochlorite	8	II	Liquid Chlorine	70	L

EXEMPT DEPOT FOR SCID PURPOSES ONLY. Located in basement of maternity building.

*plan
sheet*

Depot Number	Type of Depot	Depot Class		Maximum Storage Capacity		
9	Above Ground Tank	2.2		180 L		
UN Number	Proper Shipping Name	Class	PG	Product or Common Name	Typical Quantity	Unit
1013	Carbon Dioxide	2.2		Liquid Carbon Dioxide-CO2 Gasmatic	100	L

EXEMPT DEPOT FOR SCID PURPOSES ONLY. Located in basement of maternity building.

*plan
sheet*

Depot Number	Type of Depot	Depot Class		Maximum Storage Capacity		
10	Above Ground Tank	2.2		2,500 L		
UN Number	Proper Shipping Name	Class	PG	Product or Common Name	Typical Quantity	Unit
1073	Oxygen	2.2		Liquid Oxygen-Medical	2,000	L

EXEMPT DEPOT FOR SCID PURPOSES ONLY. Located south east of maternity building.

*plan
sheet*

Dangerous Goods Depots
Sydney Adventist Hospital. 185 Fox Valley Road, Wahroonga 2076

Depot Number	Type of Depot	Depot Class		Maximum Storage Capacity		
11	Roofed Store	3		500 L		
UN Number	Proper Shipping Name	Class	PG	Product or Common Name	Typical Quantity	Unit
1170	Ethanol	3	II	Ethanol	300	L

Located in Pathology Section, Level 5 Services Building

Plan Rec'd

Depot Number	Type of Depot	Depot Class		Maximum Storage Capacity		
12	Cylinder Store	2.1		120 Kg		
UN Number	Proper Shipping Name	Class	PG	Product or Common Name	Typical Quantity	Unit
1075	Propane	2.1		LP Gas	80	Kg

EXEMPT DEPOT FOR SCID PURPOSES ONLY. Located west side ground main building.

Plan Rec'd

Depot Number	Type of Depot	Depot Class		Maximum Storage Capacity		
13	Cylinder Store	2.2		7.3 M3		
UN Number	Proper Shipping Name	Class	PG	Product or Common Name	Typical Quantity	Unit
1048	Helium	2.2		Helium	6	M3

EXEMPT DEPOT FOR SCID PURPOSES ONLY. Located west side ground main building.

Plan Rec'd

Depot Number	Type of Depot	Depot Class		Maximum Storage Capacity		
14	Cylinder Store	2.2		500 M3		
UN Number	Proper Shipping Name	Class	PG	Product or Common Name	Typical Quantity	Unit
1048	Helium	2.2		Helium	6	M3
1070	Nitrous Oxide	2.2		Nitrous Oxide - Medical Grade	140	M3
1066	Nitrogen	2.2		Nitrogen - Industrial	20	M3
1002	Medical Air	2.2		Medical Air - Dry	150	M3
1013	Carbon Dioxide	2.2		Carbon Dioxide	120	M3
1072	Oxygen	2.2		Medical Oxygen	20	M3
2156	Enterex	2.2		Enterex	3	M3

EXEMPT DEPOT FOR SCID PURPOSES ONLY. Located level 3 main building

Plan Rec'd

Depot Number	Type of Depot	Depot Class		Maximum Storage Capacity		
15	Underground tank	C1		12,000 L		
UN Number	Proper Shipping Name	Class	PG	Product or Common Name	Typical Quantity	Unit
	Diesel	C1		Diesel	10,000	L

EXEMPT DEPOT FOR SCID PURPOSES ONLY. Located west of main building.

Plan Rec'd

Dangerous Goods Depots
Sydney Adventist Hospital. 185 Fox Valley Road, Wahroonga 2076

Depot Number	Type of Depot	Depot Class		Maximum Storage Capacity		
16	Flammable Liquids Cabinet	3		160 L		
UN Number	Proper Shipping Name	Class	PG	Product or Common Name	Typical Quantity	Unit
1170	Ethanol	3	II	Ethanol	100	L

Located in Pharmacy Section, level 4 main building

Plan Read

Depot Number	Type of Depot	Depot Class		Maximum Storage Capacity		
17	Cylinder Store	2.2		35 M3		
UN Number	Proper Shipping Name	Class	PG	Product or Common Name	Typical Quantity	Unit
1072	Oxygen	2.2		Oxygen	20	M3
1013	Carbon Dioxide	2.2		Carbon Dioxide	15	Kg

EXEMPT DEPOT FOR SCID PURPOSES ONLY. Located east of boiler house.

Plan Read

Depot Number	Type of Depot	Depot Class		Maximum Storage Capacity		
18	Cylinder Store	2.1		90 Kg		
UN Number	Proper Shipping Name	Class	PG	Product or Common Name	Typical Quantity	Unit
1075	Propane	2.1		Propane	60	Kg

EXEMPT DEPOT FOR SCID PURPOSES ONLY. Located east of boiler house.

Plan Read

Depot Number	Type of Depot	Depot Class		Maximum Storage Capacity		
19	Cylinder Store	2.2		20 M3		
UN Number	Proper Shipping Name	Class	PG	Product or Common Name	Typical Quantity	Unit
1980	Argon	2.2		Argon	20	M3

EXEMPT DEPOT FOR SCID PURPOSES ONLY. Located in workshop.

Plan Read

Depot Number	Type of Depot	Depot Class		Maximum Storage Capacity		
20	Flammable Liquids Cabinet	3		250 L		
UN Number	Proper Shipping Name	Class	PG	Product or Common Name	Typical Quantity	Unit
1203	Motor Spirit	3	II	Petrol	100	L

Located in Gardeners room, maintenance building.

Plan Read

31
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Dangerous Goods Depots
Sydney Adventist Hospital. 185 Fox Valley Road, Wahroonga 2076

Depot Number	Type of Depot	Depot Class		Maximum Storage Capacity		
21	Toxic Liquids Cabinet	G.1		120 L		
UN Number	Proper Shipping Name	Class	PG	Product or Common Name	Typical Quantity	Unit
3017	Glyco- phosphate	6.1	III	Roundup	20	L
3017	Pesticide-Organophosphorous.	6.1	III	Rogor	10	L
3010	Copper Oxychloride	6.1	II	Copper Oxychloride.	5	L
3017	Bromoxynil	6.1	III	Bindi Killer	5	L
3017	Pesticide Organophosphorous.	6.1	III	Chloral Pyrophos.	5	L

Located in Gardeners room, maintenance building.

*Ad-
Rec'd*



**SYDNEY
ADVENTIST
HOSPITAL**

Head Office
Sydney, NSW 2000

183 Fox Valley Road
Whitmore, NSW 2079
Telephone: (02) 9487 8111
Facsimile: (02) 9487 9266
Website: www.sah.org.au

30 October 2000

Work cover Authority
400 Kent Street
Sydney N.S.W. 2000

Licence No. 15214066

Dear Anne

'Yours for Life.'

I would like to give you a progress report on the storage of dangerous goods on our premises since your visit on Wednesday 19 July 2000.

I have consulted with Ian Thomson, Hospital Engineer to verify the following issues:

1. A site survey has been undertaken by Graham Goodfellow, chemical materials consultant. A copy of this report has been forwarded to the Work cover office. This also included a site plan for our depot numbering, which has now been completed.
2. The ventilation upgrade in the Pathology chemical store will be shortly completed.
3. The hazardous goods cabinet in the Pharmacy department has been reallocated to a safe distance from any ignition sources.
4. The fuel storage shed near the boiler has had a platform installed and external contractors will undertake the electrical upgrades. We are awaiting a decision relating to the removal of the decommissioned fuel tank.

I hope this meets with your satisfaction.

Yours faithfully

Sophie Robinson
OHS Advisor

CC Terry McKay
CC Ian Thomson

35/014066

TM878

Chemical Management Unit

Phone (02) 9370 5204

Fax (02) 9370 6105

20 July 2000

Mr Ian Thompson
Sydney Adventist Hospital
185 Fox Valley Road
WAHROONGA NSW 2076

Dear Mr Thompson

**RENEWAL OF LICENCE TO KEEP DANGEROUS GOODS,
No. 35/014066, SYDNEY ADVENTIST HOSPITAL, WAHROONGA**

I am grateful for the assistance which you and Sophie Robinson provided to Anne Keniry and myself during our visit around various chemical storage and handling areas of the hospital on Wednesday 19 July 2000.

I refer to your letter of 3 July indicating that works to upgrade certain dangerous goods storage facilities at the site had been undertaken. We noted that action still needs to be taken to address several on-going matters, including measures to prevent people on the driveway near Casualty entrance, above the small diesel tank, from discarding cigarette butts around the tank.

During our visit, we also discussed the need to include other depots in your application for a licence to keep dangerous goods at that site. I am enclosing your recent DG1 application documents as a convenient reference for these adjustments (DG Licensing Unit have kept a copy).

Please note that depot plans, stamped as compliant by a WorkCover Accredited DG Consultant, will need to accompany applications for only those licensable depots not currently showing on Licence No. 35/014066, such as the large cryogenic Class 2.2 tanks and Class 3 depots of 250 l capacity and above (see page 4 of DG1 for exceptions).

A revised A4 site sketch for scanning into SCID will also need to be developed to show the location, depot numbers and other details of the licensed as well as the DG depots exempt from licensing (see page 3 of DG1). Applicable signage will need to be located at the entry to each depot.

The flammable gas cage beneath Pathology would be suitable for keeping several small gas cylinders of Class 2.1 (eg acetylene, hydrogen) which were observed at inappropriate locations around the site. Reviewing the overall inventory of laboratory supplies, gases and other cylinders will improve safety (and may also result in some financial savings as well). Your attention is also drawn to aspects of non-compliant

ventilation facilities in the Pathology laboratory storage room and proximity of ignition sources to a flammable liquids cabinet observed in Pharmacy.

I note also your comments in the above letter about the difficulty in locating documentation about the procedures which may have been used to decommission the underground petrol and diesel tanks shown on previous licence records at the old bowser installation. In view of the potentially lethal hazard for flammable vapour residues which may still exist in the remaining pipework and fittings, I strongly recommend that you engage the services of a qualified petroleum equipment installation/decommissioning company to not only dismantle and remove the remaining components but also to survey the condition of any tank residues. Their certificate of works and findings about tank status would satisfy the requirements of clause 143 of the Dangerous Goods (General) Regulation 1999 for abandonment of underground tanks.

You will also need to examine the underground diesel tank installed at the corner of the Operating Theatre block and ensure that it complies with AS1940-1993. Other items concerning security, compliance of electrical fittings / services and proposed additional "day tank" storage inside the bunded area of the boiler house diesel installation were discussed. I look forward to your early completion of these projects and your development of systems for on-going safe operational, inspection and auditing procedures for dangerous goods depots on site.

I request that these matters be attended to as a matter of urgency. Should you have further inquiries about other matters in connection with the above issues, I would be pleased to provide information and assistance if possible.

Yours sincerely

Terry McKay
Assistant Principal Inspector
Chemical Management



**SYDNEY
ADVENTIST
HOSPITAL**

Academically affiliated with
Adventist University
of Australia

185 Pitts Valley Road
Wahroonga NSW 2076
Telephone (02) 9487 9111
Facsimile (02) 9487 9266
Website: www.sah.org.au

'Yours for Life.'

3rd July 2000

Mr Terry McKay
Assistant Principal Inspector
Chemical Safety
For Chief Inspector of Dangerous Goods
WorkCover
GPO Box 5364
Sydney 2001

Dear Sir

Re: Your letter dated 27th January, 2000 07 03
(35/014066 TM 822)

Firstly I must apologise for the delay in responding to your letter

DIESEL STORAGE

The main diesel storage area has been cleaned up with signage on the tank applied.

Preparation should be completed in the next few weeks for storage of the small outdoor above ground diesel tank. This will be within the confines of the main storage bunding area.

The bunding has been increased and signage applied to above ground tank north of the maternity wing.

LP GAS

Power sources near the LP gas tanks has been relocated and tidied up.

OTHER DANGEROUS GOODS ISSUES

It is most unfortunate that the correct procedure was not carried out in notification for de commissioning of the old underground tanks

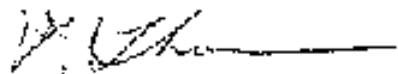
I have been advised that the petrol tank was removed, with the diesel tank being filled with sand/soil but have no record or history written on this

Please find enclosed an updated site map with storage areas identified.

I have sent an application for licence to keep dangerous good with adjustments to Scientific Services Branch, Dangerous Goods Licensing.

Once gain I do apologise for this late response.

Yours sincerely



Ian Thomson
Hospital Engineer

Ann. Kimlin

5538.



WorkCover New South Wales, 400 Kent Street, Sydney 2000. Telephone: 9970 3000 FAX: 9970 3001 MAIL TO: GPO BOX 5000 SYDNEY 2001
 Licence No: 35/014066



WORKCOVER
 NEW SOUTH WALES

APPLICATION FOR RENEWAL OF LICENCE TO KEEP DANGEROUS GOODS

ISSUED UNDER AND SUBJECT TO THE PROVISIONS OF THE DANGEROUS GOODS ACT, 1975 AND REGULATION THEREUNDER

DECLARATION: Please renew licence number 35/014066 to 18/07/2000. I confirm that all the licence details shown below are correct (amend if necessary).

..... *R. Herbert* RONALD LESLIE HERBERT 3/12/99
 (Signature) (Please print name) (Date signed)
 FOR: AUSTRALASIAN CONFERENCE ASSOC LTD AS CORPORATE TRUSTEE FOR SYDNEY ADVENTIST HOSPITAL.

THIS SIGNED DECLARATION SHOULD BE RETURNED TO:

WorkCover New South Wales
 Dangerous Goods Licensing Section
 GPO BOX 5364
 SYDNEY 2001

Enquiries: ph (02) 9370 5187
 fax (02) 9370 6105

Details of licence on 19 November 1999 ASSOCIATION LTD ✓

Licence Number 35/014066

Expiry Date 18/07/1999

Licensor AUSTRALASIAN CONFERENCE ASSOC LTD ~~AS CORPORATE TRUSTEE FOR~~
 SYDNEY ADVENTIST HOSPITAL ~~ACN 055 030 010~~
000 03930

Postal Address: SYDNEY ADVENTIST HOSPITAL 185 FOX VALLEY RD WAHRONGA NSW 2076

Licensor Contact ~~DR. J. W. HITCHICK~~ DOUG HITCHICK Ph. 9487 9070 Fax. 9489 7715

Premises Licensed to Keep Dangerous Goods

~~AUSTRALASIAN CONFERENCE ASSOC LTD~~ SYDNEY ADVENTIST HOSPITAL
 185 FOX VALLEY RD WAHRONGA 2076

Nature of Site HOSPITALS (EXCEPT PSYCHIATRIC HOSPITALS)

Major Supplier of Dangerous Goods NOT APPLICABLE

Emergency Contact for this Site SECURITY SERVICE (PAGE 033) Ph. 9487 9111

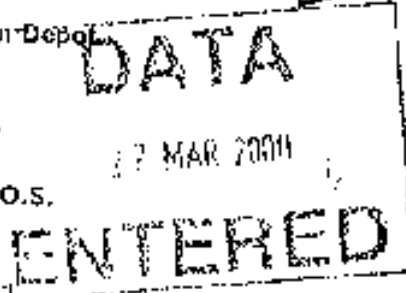
Site staffing 18 HRS 6 DAYS

Details of Depots

Depot No. Depot Type

Goods Stored in Depot

Depot No.	Depot Type	Goods Stored in Depot	Qty
H1	ROOFED STORE	Class 3 UN 1170 ETHANOL (ETHYL ALCOHOL)	2000 L
LS1	ABOVE-GROUND TANK	Class 3 UN 1719 CAUSTIC ALKALI LIQUID, N.O.S.	800 L
LS2	ABOVE-GROUND TANK	Class 8 UN 1791 HYPOCHLORITE SOLUTION	2580 L
LS3	ABOVE-GROUND TANK	Class 5.1 UN 2014 HYDROGEN PEROXIDE, AQUEOUS SOLUTION	1500 L
			1500 L
			800 L
			800 L



Changest
27.3.00
TC

Form DG10

WALKWAY
AREA

(17)

(8)

FL. SOLT
BOY

SEALED FUEL TANK

VENT PIPE

WATER & SEWER MAINS
AND TRUNK LINE
SIDE RUN LINES

CATHODIC
PROTECTION
ANODES

DIESEL
GENERATORS

(B)

LOADING DOCK AREA

STATION

NEW
EXTENSION
TO
EXISTING
HOSPITAL
BUILDING

(1)

(2)

(5)

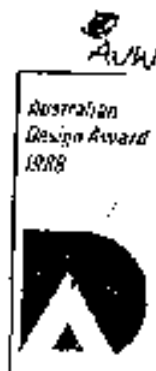
LOCATION DIAGRAM



AWN 007 860 094

IN 2007/2008 AWARDS
**ADVANCED
POWER** PRODUCTS (NSW)
PTY LIMITED

33 Shepherd Street, Liverpool, NSW 2170
telephone (02) 600 6555 Facsimile: (02) 821 1036



April 4, 1995

Work Cover Authority,
Dangerous Goods Section,
Lot Bag 10,
Clarence Street Post Office,
SYDNEY NSW 2001

Attention : Mr. Phil Butt, Chief Inspector

Dear Sir,

RE: SYDNEY ADVENTIST HOSPITAL
185 FOX VALLEY ROAD, WAHROONGA.

000633

RECEIVED

5 APR 1995

SCIENTIFIC SERVICES
BRANCH

We have been contracted to supply and install a Diesel Generator System at the above premises. Part of this system, is the installation of a 10,000 litre capacity inground bulk distillate fuel tank.

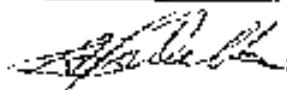
On Behalf of the owners "Adventist Hospital" and the builder "Fletcher Constructions", we wish to submit an application for approval, to install an inground bulk fuel tank, as detailed on the enclosed drawing JE 346-09h.

The installation will comply with the requirements of AS 1940, as well as being provided with remote contents indication and cathodic protection of inground tank.

We trust the enclosed drawings contains sufficient information for your requirements. However, should you require any additional information, please advise the undersigned.

Thanking you for your assistance and advice,

Yours faithfully,
ADVANCED POWER PRODUCTS (NSW) PTY.LTD.


A.J. WALKER
ASST. GENERAL MANAGER

Please attach to
35/014066.
Thank you.
Walker

Reference

WORKCOVER AUTHORITY



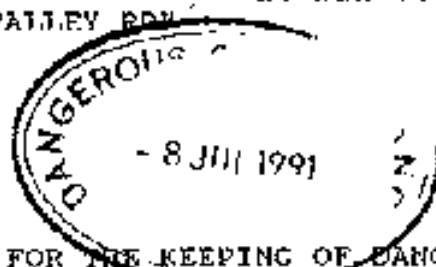
Dangerous Goods Section
Locked Mail Bag 2 P O, ROSEBURY NSW 2018
Ph. (02) 287 6239 OR (02) 217 6237

Licensee

A'ASIA CONFERENCE ASSOC LTD

SYDNEY ADVENTIST HOSP 185 FOX VALLEY RD
WAHROONGA 2076

24 JUN 1991



Dear Sir/Madam,

RE APPLICATION FOR RENEWAL OF LICENCE FOR THE KEEPING OF DANGEROUS GOODS

Our records indicate you hold licence number 35/014066 for keeping dangerous goods at SYDNEY ADVENTIST HOSP 185 FOX VALLEY RD WAHROONGA 2076.

Details of depots at site.

Depot No.	Depot type	Goods stored in depot	Quantity kg/litres/no.
1	UNDERGROUND TANK	FLAMMABLE LIQUIDS	20 000
2	UNDERGROUND TANK	FLAMMABLE LIQUIDS	20 000
3	ABOVEGROUND TANK	POISONOUS/CRYOGENIC GASES	2 000
4	ROOFED STORE	FLAMMABLE LIQUIDS	1 000

This licence is now due for renewal. TO RENEW YOUR LICENCE. Please carefully check the details shown in this letter and make any required corrections. Then, SIGN and DATE the declaration below and return this letter to the WorkCover Authority, Dangerous Goods Section. Fees for these licences have been abolished. DO NOT SEND ANY MONIES.

Declaration: I wish to renew this licence to 15/01/92. I certify that the licence details shown in this letter are correct.

.....*John L. [Signature]*.....
(Signature)

.....3/7/91.....
(Date)

If you do not wish to renew the licence. Please provide the Dangerous Goods Section with a signed statement giving the reason why it is not to be renewed. If you have sold/vacated the site please provide the name and address of the new owner/occupier so we may contact them.

Yours faithfully

Chief Inspector of Dangerous Goods.

Licences may take some time to be issued. Please DETACH THIS SECTION and keep it with your previous licence expiring in 1990 or 1991 as evidence that your site is licenced.

Licence number 35/014066

Expiry month: JULY

A. B.
Depot: No. 4
e, should be.

3 x 20,000 L

NOT 1000

ASSOC LTD

OSP 185"FOX VALLEY RD

WORKCOVER AUTHORITY

Chemical Safety Unit

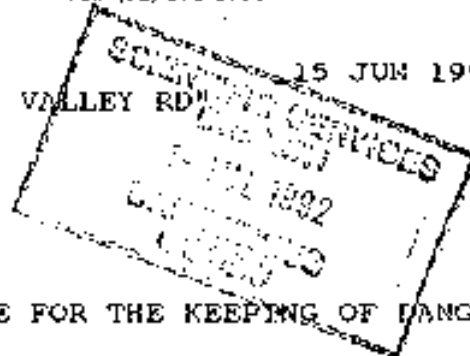
Locked Bag 10, P O CLARENCE STREET NSW 2000

Ph. (02) 370 5191 OR (02) 370 5192

Fax (02) 370 6106



15 JUN 1992



Dear Sir/Madam,

RE APPLICATION FOR RENEWAL OF LICENCE FOR THE KEEPING OF DANGEROUS GOODS

Our records indicate you hold licence number 35/014066 for keeping dangerous goods at SYDNEY ADVENTIST HOSP 185 FOX VALLEY RD WARROONGA 2076.

Details of depots at site.

Depot No.	Depot type	Goods stored in depot	Quantity kg/litres/no.
1	UNDERGROUND TANK	FLAMMABLE LIQUIDS	20 000
2	UNDERGROUND TANK	FLAMMABLE LIQUIDS	20 000
3	ABOVEGROUND TANK	POISONOUS/CRYOGENIC GASES	2 000
4	ROOFED STORE	FLAMMABLE LIQUIDS	4 000
			52 000

This licence is now due for renewal. TO RENEW YOUR LICENCE. Please carefully check the details shown in this letter and make any required corrections. Then, SIGN and DATE the declaration below and return this letter to the WorkCover Authority, Chemical Safety Unit. Fees for these licences have been abolished. DO NOT SEND ANY MONIES.

Declaration: I wish to renew this licence to 15/07/93. I certify that the licence details shown in this letter are correct.

.....
(Signature)

..... 29/6/92
(Date)

If you do not wish to renew the licence. Please provide the Chemical Safety Unit with a signed statement giving the reason why it is not to be renewed. If you have sold/vacated the site please provide the name and address of the new owner/occupier so we may contact them.

Yours faithfully

Chief Inspector of Dangerous Goods.

DANGEROUS GOODS ACT, 1975

DG 8207 0001 - - 28

APPLICATION FOR LICENCE (or AMENDMENT or TRANSFER of LICENCE)
FOR THE KEEPING OF DANGEROUS GOODSApplication is hereby made for:
described below.

- * a licence (or amendment of the licence)
- * the transfer of the licence

for the keeping of dangerous goods in or on the premises

(*delete whichever is not required)

FEE: \$10.00 per Depot for new licence.

\$10.00 for amendment or transfer.

Name of Applicant in full (see over)	Australian Conference Association Limited
Trading name or occupier's name (if any)	Sydney Adventist Hospital
Postal address	3300 30/09/82/1994
Address of the premises including street number (if any)	185 Fox Valley Road Wahroonga Postcode 2076
Nature of premises (see over)	Hospital
Telephone number of applicant	STD Code Number 4279111

Particulars of type of depots and maximum quantities of dangerous goods to be kept at any one time.

Depot number	Type of depot (see over)	Storage capacity	Dangerous goods	
			Product being stored	C & C Office use only
1	Underground Tank	15000 Litre	Class 3.1 Petrol	004 000 7
2	✓	15000	✓ ✓ ✓	2 020 24
3	Aboveground Tank	2172 m ³	Class 2.2 Oxygen	1 040 21
4	Protected Package Store	1000	Class 3.1, 3.2	6 020 13
5	()			
6				
7				
8				
9				
10				
11				
12				

Has site plan been approved?

Yes

If yes, no plans required.

If no, please attach site plan.

Have premises previously been licensed?

Yes

If yes, state name of previous occupier.

No

As above

Name of company supplying flammable liquid (if any)

Mobil

Signature of applicant

Date

For external explosives magazine(s), please fill in side 2.

HOSPITAL SECRETARY - LICENSEE

FOR OFFICIAL USE ONLY

CERTIFICATE OF INSPECTION

I, Catherine L. Macdonald

being an Inspector under the Dangerous Goods Act, 1975, do hereby certify that the premises described above do comply with the requirements of the Dangerous Goods Act, 1975, and the Dangerous Goods Regulations with regard to their situation and construction for the keeping of dangerous goods of the nature and in the quantity specified.

DANGEROUS GOODS ACT, 1975

DG-7907

APPLICATION FOR LICENCE (or AMENDMENT or TRANSFER of LICENCE) FOR THE KEEPING OF DANGEROUS GOODS

Application is hereby made for ~~the transfer of the licence~~ ^{a licence (or amendment of the licence)} for the keeping of dangerous goods in or on the premises described below.

(*delete whichever is not required)

FEE: \$10.00 per Depot

7490 17/07/80 B34

Name of Applicant in full (see over)	AUSTRALIAN CONVENTION ASSOCIATION LIMITED.,	
Trading name or occupier's name (if any)	SYDNEY ADVENTIST HOSPITAL	
Postal address	Postcode	
Telephone number of applicant	STD Code	Number
Address of the premises in or on which the depot or depots are situated (including street number, if any)	185 Fox Valley Road, WAEROONGA Postcode 2076	
Nature of premises (see over)	Hospital	

PLEASE ATTACH SITE PLAN

Particulars of type of depots and maximum quantities of dangerous goods to be kept at any one time.

Depot number	Type of depot (see over)	Storage capacity	Dangerous goods	
			Product being stored	C & C Office use only
1	Underground Tank	15000 litre	Petrol - Class 3.1	2 030 24
2	"	15,000 "	" " " "	2 030 24
3	Aboveground Tank	2172 m ³	Oxygen " "	2 31 040 23
4				
5				
6				
7				
8				
9				
10				
11				
12				

Name of company supplying flammable liquid (if any) MOBIL

Have premises previously been licensed? YES

If known, state name of previous occupier AS ABOVE

Licence No. 14066-07

Signature of applicant

Date: 1 JUL 1980

For external explosives magazines, please fill in side 2.

FOR OFFICE USE ONLY

INFLAMMABLE LIQUID ACT, 1915 (AS AMENDED)

Application for Registration of Premises or Store Licence under Division B or for the transfer or amendment of any such Registration or Licence, for the keeping of Inflammable Liquid and/or Dangerous Goods, in accordance with the provisions of the Inflammable Liquid Act, 1915 (as amended), for the ensuing year.

DIRECTIONS

1. Applications must be forwarded to the Chief Inspector of Inflammable Liquid, Explosives Department, Box R.216, Royal Exchange Sydney, N.S.W. 2000 and must be accompanied by the prescribed fee, as set out hereunder:

Registration of Premises (Fee \$3.00 p.a.) - For quantities not exceeding 300 gallons of mineral oil and 100 gallons of mineral spirit, if kept together; or 800 gallons of mineral oil and 100 gallons of mineral spirit, if kept in separate depots; or 500 gallons of mineral spirit, if kept in an underground tank depot; or 800 gallons of mineral oil and 500 gallons of mineral spirit, if mineral spirit is kept in an underground tank depot.

In addition to, or in lieu of the above, similar quantities of Dangerous Goods of Classes 1 and 2 may be kept under the like conditions; reading Dangerous Goods of Class 1 for the words Mineral Spirit and Dangerous Goods of Class 2 for the words Mineral Oil.

Store Licence, Div. A (Fee, \$6.50 p.a.) - For quantities in excess of those stated above, but not exceeding 4,000 gallons mineral oil and/or mineral spirit, and/or Dangerous Goods of Classes 1, 2 and 3.

Store Licence, Div. B (Fee, See Regulation 7) - For quantities exceeding 4,000 gallons of mineral spirit, and/or dangerous goods of Classes 1 and 2, and/or dangerous goods of Class 3.

For the keeping of Dangerous Goods of Classes 3 and/or 4, \$15.00 p.a.

Fees for the keeping of inflammable liquid and dangerous goods in excess of the above stated quantities and also for Liquid Petroleum Gas storage are set out in Regulation 7.

Amended 1945.6.6
6.15.7.72

1. Name of occupier including full christian names	AUSTRALIAN CONFERENCE ASSOCIATION LIMITED
2. Trading Name (if any)	SYDNEY GENERAL HOSPITAL
3. Locality of the premises in which the depot or depots are situated	No. or Name 185 Street FOX VALLEY ROAD Town WARRIMUNGA Postcode 2670
4. Postal address	as above
5. Occupation	Hospitals
6. Nature of premises (dwelling, garage etc.)	Hospital
7. Particulars of construction of depots and maximum quantities of inflammable liquid and/or Dangerous Goods to be kept at any one time.	

PLEASE ATTACH MEAN-OF-EXEMPT

Depot No.	Construction of depots			Inflammable liquid		Dangerous goods					
	Walls	Roof	Floor	Mineral spirit gallons	Mineral oil gallons	Class 1 gallons	Class 2 gallons	Class 3 lb	Class 4 cu ft	Class 5A water gal	Class 9 gallons
1	Underground Tank			3000							
2				3000							
3											
4											
5											
6											
7											
8											
9											
10											

* If product is kept in tanks describe depots as underground or aboveground tanks.

Signature of applicant

Date of application 4/7/71

CERTIFICATE OF INSPECTION

The Chief Inspector of Inflammable Liquids,
Box 48, G.P.O.,
Sydney.

Attest
P. H. Webb

INFLAMMABLE LIQUID ACT, 1913, AS AMENDED

CONTRACTOR'S CERTIFICATE

Underground Tanks

I hereby certify that the tank(s) as indicated below recently installed by me at the undermentioned premises have fill, dip and suction pipes as detailed hereunder.

Petroleum Company Mobil

Address of Premises Fox Valley Rd.

Wahroonga

Name of Occupant Sydney Sanatorium Hospital

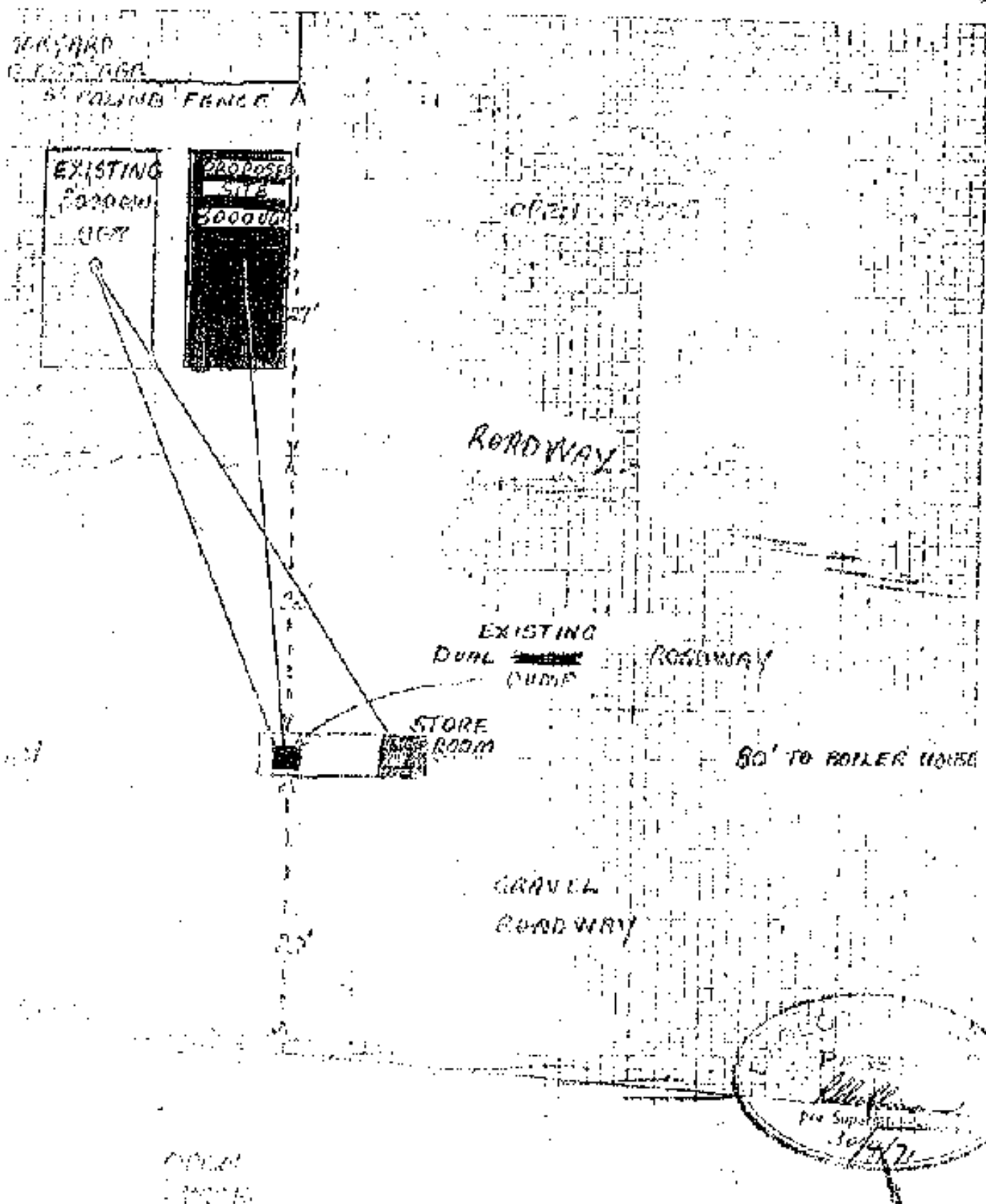
Capacity of each tank and distance in inches between bottom of tank and lower end of internal pipes.

Capacity (Gallons)	Suction Pipe (Inches)	Fill Pipe (Inches)	Dip Pipe (Inches)
<u>3000</u>	<u>6"</u>	<u>2"</u>	<u>2"</u>

Signed *P. H. Webb*

Date 31. 5. 71

REAR OF SANTIAGO HOSPITAL WAHROONGA



For reference at

INFLAMMABLE LIQUID ACT, 1915 (AS AMENDED)

Application for Registration of Premises in Store Licence under Division A or for the transfer or amendment of any such Registration or Licence, for the keeping of Inflammable Liquid and/or Dangerous Goods, in accordance with the provisions of the Inflammable Liquid Act, 1915 (as amended), for the ensuing year.

EXPLANATORY

Inflammable Liquid

Mineral Oil includes kerosene, mineral turpentine and white spirit (for cleaning) and compositions containing same.
Mineral Spirit—includes petrol, benzene, benzofene, hexol and naphtha, and compositions containing same.

Dangerous Goods—

Class 1—acetal, acetaldehyde, acetone, acrofen, amyl mercaptan, butyl acetate, butyl mercaptan, butyl propionate, crotonaldehyde, dichloroethylene, diethylketone, dioxane, dimethylamine, dimethyl hydrosine, dipropylamine, divinyl ether, dipropyl ether, ethyl acetate, ethyl acrylate, ethyl chloride, ethyl ether, dichloroethane (ethylene dichloride), ethyl mercaptan, ethyl methacrylate, ethyl methyl ether, ethyl propyl ether, ethyl propionate, methyl propyl ketone, methyl acetate, piperidine, propanal, propyl acetate, propylamine, propylene oxide, pyridine, tetrahydrofuran, thiophene, triethylamine, valeraldehyde, vinyl acetate, vinyl ethyl ether, vinyl butyl ether, vinyl butyrate, vinyl cyanide (acrylonitrile), vinylidene chloride, vinyl ethyl ether, vinyl propyl ether, vinyl propionate, any combination of substances of an inflammable character suitable for use as an industrial solvent and having a true flashing point of less than 75 degrees Fahrenheit manufactured products, containing organic solvents, having a true flashing point of less than 75 degrees Fahrenheit.

Class 2—acetic acid, acetyl acetone, acetic anhydride, allyl alcohol, amyl acetate, amyl alcohol, butyl alcohol, butyl methacrylate, chlorobenzene, cyclohexanone, dibutyl ether, diethyl ketone, dipentene, epichlorohydrin, ethanol (ethyl alcohol), ethyl benzene, ethylene diamine, formal, methyl iside, methyl alcohol, methyl amyl ketone, methyl butyl ketone, pine oil (having a flashing point below 150° F), propyl benzene, propanal, vegetable turpentine, vinyl benzene (styrene monomer), any liquid containing more than 50 per centum ethyl alcohol, manufactured products, containing organic solvents, having a true flashing point of 75 degrees Fahrenheit and above but not exceeding 150 degrees Fahrenheit.

Class 3—nitro cellulose moistened with an alcohol, nitro-cellulose product

Class 4—compressed or dissolved acetylene contained in a porous substance.

Class 5 (A)—liquefied inflammable gases (liquefied petroleum gas, vinyl chloride, ethylate chloride, ethylene oxide, butadiene, methylamine, dimethylamine, and trimethylamine).

Class 9—carbon, disulphide, ethyl nitrate

DIRECTIONS

Applications must be forwarded to the Chief Inspector of Inflammable Liquid, Explosives Department, Sydney, and must be accompanied by the prescribed fee, as set out in Regulation 7.

1. Name of occupier including full Christian names

2. Occupation

3. Locality of the premises in which the depot or depots are situated

4. Nature of premises (Dwelling, Garage, Store, etc.)

No. or Name

Street

Town

Postcode

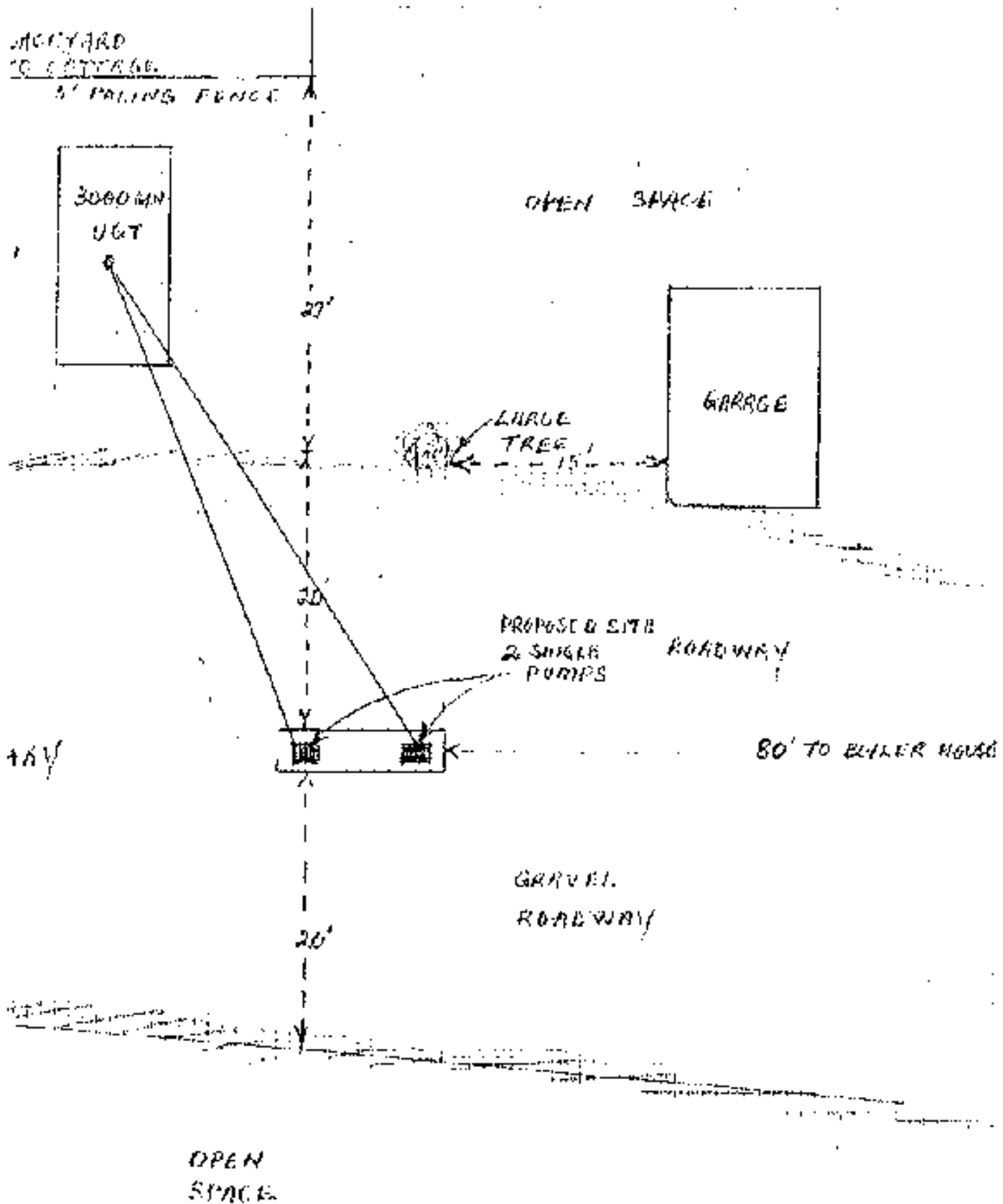
Particulars of construction of depots and maximum quantities of inflammable liquid and/or Dangerous Goods to be kept at any one time

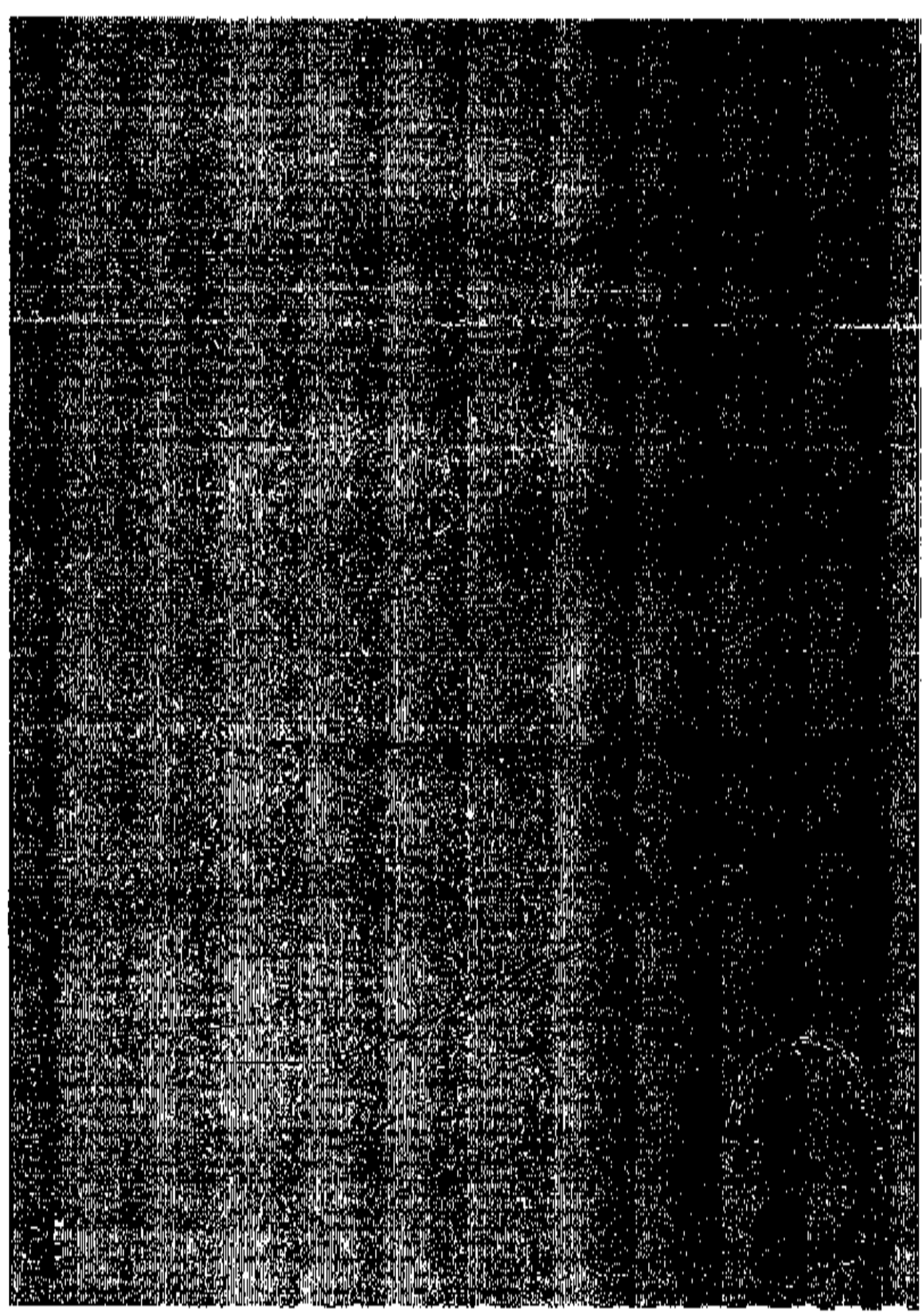
PARTICULARS OF CONSTRUCTION OF PREMISES

Depot No.	Construction of depots*			Inflammable liquid		Dangerous goods					
	Walls	Roof	Floor	Mineral Spirit gallons	Mineral Oil gallons	Class 1 gallons	Class 2 gallons	Class 3 lb	Class 4 cu ft	Class 5A water gallons	Class 9 gallons
1	Underground Tank			3000							
2											
3											
4											
5											
6											
7											
8											
9											
10											

* If product is kept in tanks describe depots as underground or aboveground to (A. H. D. 1915) (A. H. D. 1915)

REAR OF SANITARIUM HOSPITAL WAREHOUSE

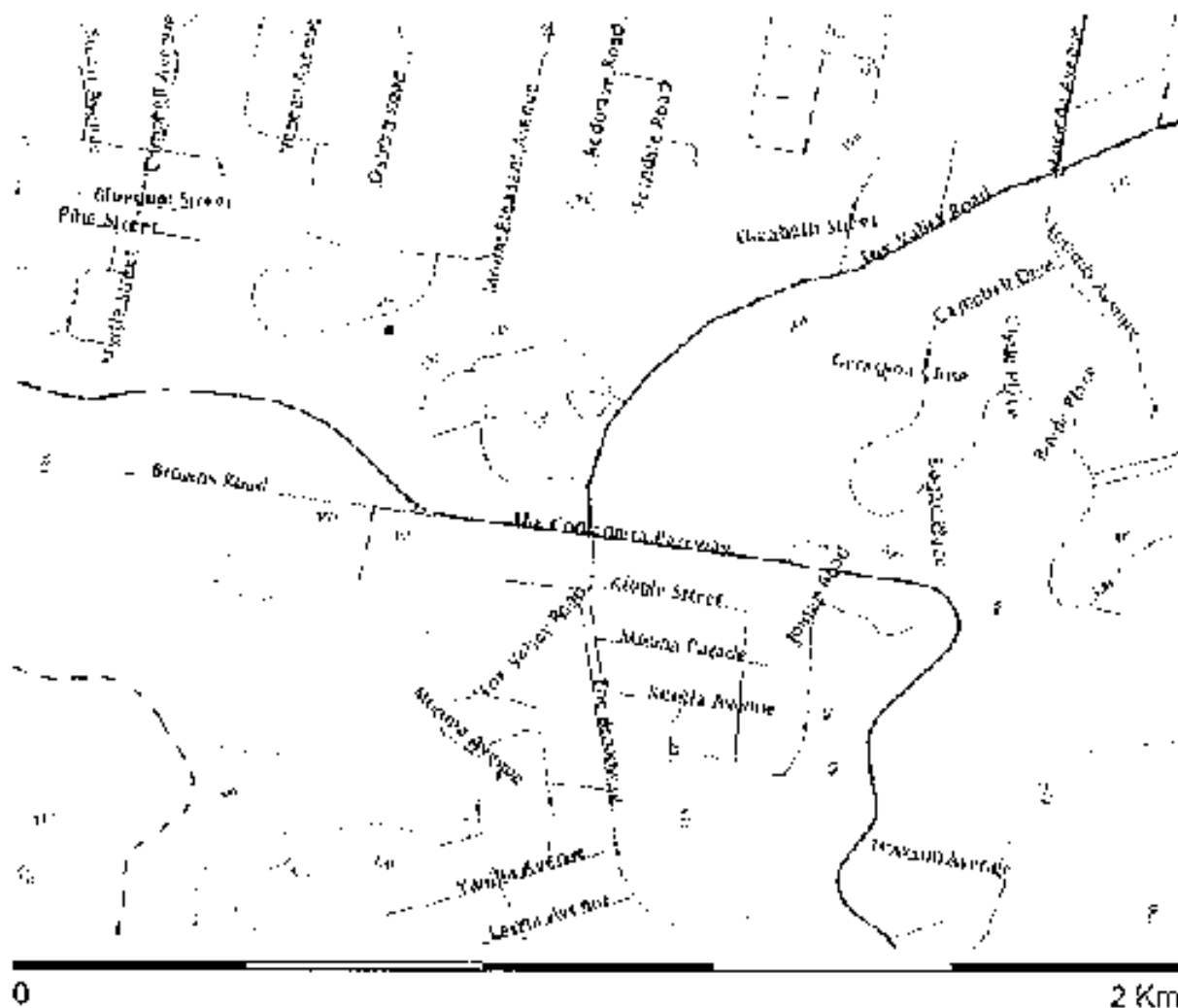




Groundwater Bore Search - SAN Hospital, 185 Fox Valley Road, Wahroonga

Map created with NSW Groundwater Works - <http://nralles.nsw.gov.au>

Friday, March 07, 2008



Legend

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

 Primary/arterial road Minor road Railway Boundary Contour Background

Topographic base map

Copyright © 2008 New South Wales Government. Map has been compiled from various sources and may contain errors or omissions. No representation is made as to its accuracy or suitability.

Groundwater Works Summary

For information on the meaning of fields please see Glossary
Document Generated on Friday, March 7, 2008

[Print Report](#)

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

Work Requested -- GW107929

Works Details (top)

GROUNDWATER NUMBER	GW107929
LIC-NUM	10DL165856
AUTHORISED-PURPOSES	RECREATION (GROUNDWATER)
INTENDED-PURPOSES	RECREATION (GROUNDWATER)
WORK-TYPE	Bore
WORK-STATUS	
CONSTRUCTION-METHOD	Rotary
OWNER-TYPE	
COMMENCE-DATE	
COMPLETION-DATE	2005-03-18
FINAL-DEPTH (metres)	180.00
DRILLED-DEPTH (metres)	180.00
CONTRACTOR-NAME	
DRILLER-NAME	
PROPERTY	AUSTRALASIAN CONFERENCE ASSOC.
GWMA	- CENTRAL WEST FRACTURED ROCKS
GW-ZONE	- MOOKI VALLEY (OURINDI - PINE RIDGE ROAD TO BREEZA) GROUNDWATER SOURCE
STANDING-WATER-LEVEL	58.00
SALINITY	1600.00
YIELD	0.10

Site Details (top)

REGION	10 SYDNEY SOUTH COAST
RIVER-BASIN	
AREA-DISTRICT	
CMA-MAP	
GRID-ZONE	
SCALE	
ELEVATION	
ELEVATION-SOURCE	
NORTHING	6265035.00

EASTING 323621.00
 LATITUDE 33 43' 55"
 LONGITUDE 151 5' 46"
 GS-MAP
 AMG-ZONE 56
 COORD-SOURCE
 REMARK

Form-A (top)

COUNTY CUMBERLAND
 PARISH GORDON
 PORTION-LOT-DP 62 1017514

Licensed (top)

COUNTY CUMBERLAND
 PARISH GORDON
 PORTION-LOT-DP 62 1017514

Construction (top)

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

HOLE- NO	PIPE- NO	COMPONENT- CODE	COMPONENT- TYPE	DEPTH- FROM (metres)	DEPTH- TO (metres)	OD (mm)	ID (mm)	INTERVAL	DETAIL
1		Hole	Hole	0.00	2.50	206			Down Hole Hammer
1		Hole	Hole	2.50	180.00	162			Down Hole Hammer
1	1	Casing	Steel	0.50	5.50	162	162.4		C: -1-5.5m; Driven into Hole
1	1	Casing	PVC Class 9	-0.50	23.50	140			Screwed and Glued, Suspended in Clamps

Water Bearing Zones (top)

FROM- DEPTH (metres)	TO- DEPTH (metres)	THICKNESS (metres)	ROCK- CAT- DESC	S-W- L	D- D- L	YIELD	TEST- HOLE- DEPTH (metres)	DURATION	SALINITY
73.00	74.50	1.50				0.15	78.00	0.25	1188.00
117.00	117.20	0.20		58.00		0.25	120.00	0.25	1715.00
133.00	135.00	2.00				0.25	150.00	0.25	1677.00
153.00	150.50	3.50				0.10	180.00	0.25	1800.00

Drillers Log (top)

FROM	TO	THICKNESS	DESC	GEO-MATERIAL COMMENT
0.00	16.00	16.00	SANDSTONE L/D	
16.00	17.00	1.00	SANDSTONE FRACTURED, SOFT	
17.00	35.00	18.00	SANDSTONE GREY	
35.00	35.50	0.50	SHALE	
35.50	73.00	37.50	SANDSTONE GREY	
73.00	74.50	1.50	SANDSTONE FINE QUARTZ	
74.50	83.00	8.50	SANDSTONE GREY	
83.00	88.00	5.00	SANDSTONE D/G	
88.00	92.00	4.00	SANDSTONE GREY	
92.00	92.50	0.50	SANDSTONE F/Q	
92.50	117.00	24.50	SANDSTONE D/G	
117.00	117.20	0.20	SANDSTONE FRACTURED	
117.20	124.00	6.80	SANDSTONE GREY	
124.00	124.50	0.50	SANDSTONE F/Q	
124.50	133.00	8.50	SANDSTONE GREY	
133.00	135.00	2.00	SANDSTONE / QUARTZ	
135.00	153.00	18.00	SANDSTONE GREY	
153.00	156.50	3.50	SANDSTONE FINE QUARTZ	
156.50	180.00	23.50	SANDSTONE GREY	

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

Appendix B
Engineering Logs of Boreholes, with
explanation notes

CONTAMINATION ASSESSMENT - SAN Hospital
185 Fox Valley Road, Wahroonga

Soil Description Explanation Sheet (1 of 2)

DEFINITION

In engineering terms, soil is either *any layer of the surface or partially cemented inorganic or organic material found on the ground*. In practice, if the material can be removed or disintegrated by hand in its field condition, it is not a soil. It is described as a soil. Other materials are described using rock classification terms.

CLASSIFICATION SYMBOL & SOIL NAME

Sn is also essential in an alloy with the carbon. Sn-C alloys are called **tin bronzes**. In these alloys, tin is less than 10%.

PARTICLE SIZE DESCRIPTIVE TERMS

NAME	SUBDIVISION	SIZE
claystone		200 mm
claystone		60 mm to 200 mm
Gale	coarse	20 mm to 60 mm
	medium	6 mm to 20 mm
	fine	2.36 mm to 6 mm
sand	coarse	60 mm to 2.00 mm
	medium	200 mm to 0.075 mm
	fine	75 mm to 200 mm

MOISTURE CONDITION

Dry	Leaves and herbs dry. Cones are not mentioned in the text. Fleshy or powdery. Unconspicuous granular seeds; exalbuminous; thin, fragile bands.
Moist	Stems and leaves greenish; cones are not mentioned in the text. Fleshy or powdery. Unconspicuous granular seeds; exalbuminous; thin, fragile bands.
Well	Stems and leaves greenish; cones are not mentioned in the text. Fleshy or powdery. Unconspicuous granular seeds; exalbuminous; thin, fragile bands.

CONSISTENCY OF COHESIVE SOILS

TERM	UNDRAINED STRENGTH S_u (kPa)	FIELD GUIDE
Very Soft	< 10	A finger can be pushed well into the soil with little effort.
Soft	12 - 25	A finger can be pushed into the soil to about 25 mm depth.
Very Firm	25 - 50	The soil can be penetrated about 5 mm with the thumb, but not penetrated.
Stiff	50 - 100	The surface of the soil can be indented with the thumb but not penetrated.
Very Stiff	100 - 200	The surface of the soil can be indented but not penetrated with thumb pressure.
Hard	> 200	The surface of the soil can be marked only with the thumbnail.
Extremely Hard	> 2000	Our rules of procedure will be governed by the situation.

BENNETT, DE GRADY, & SOHNS

FORM	DENSITY INDEX (%)
Very loose	Less than 15
Loose	15 - 25
Medium Dense	35 - 65
Dense	65 - 85
Very Dense	Greater than 85

MINOR COMPONENTS

TERM	ASSESSMENT GUIDE	PROPORTION OF MINOR COMPONENT IN
Trail mix	Produce just one minor component (e.g., feeder egg, and soil) together. The same (different) to general proportions of primary component.	Choose general soils (25%) Fine grained soils (75%)
Trail mix	Produce only one soil (e.g., feeder soil, soil) proportion. The same to general proportions of primary component.	Choose general soils (5-12%) Fine grained soils (15-30%)

SQL STRUCTURE

	ZONING		CEMENTING
Layers	Can be continuous or discontinuous	Usually continuous	Always continuous (by definition)
Textures	These textures are not uniform, but change	More uniform	Effect is equivalent to a more uniform texture
Particulates	May contain organic or inorganic particles		

GEOLOGICAL CHRONOLOGY

WEATHERED IN PLACE SOILS

Extremely weathered massive	Structure and fabric of parent rock is fine
Disconcord	Structure and fabric of parent rock is also

TRANSPORTED SOILS

Angular (a)	Dispersed by wind
Arctic (a)	Dispersed by streams and rivers
Coluvial (a)	Deposited in a narrow channelized flow along by gravity
FI	Variable deposit. It may be significantly more variable between tested locations than naturally occurring soils
Loess (a)	Dispersed by winds
Mudflow	Deposited in ocean basins, bays, lagoons and estuaries

Engineering Log - Cored Borehole

Client:	Taylor Thomson Whiting
Principal:	Cotter Projects
Project:	185 FOX VALLEY ROAD, SAN HOSPITAL, WAHRONGA
Workshop Location:	Building 3

Bureaus No	CBH1
Sheet	2 of 3
Project No:	GEOTLCOV234624A
Date started:	10.3.2008
Date completed:	10.3.2008
Logged by	JA
Checked by:	SH

[illegible]

Engineering Log - Cored Borehole

Client: **Taylor Thomson Whiting**
 Principal: **Coffey Projects**
 Project: **185 FOX VALLY ROAD, SAN HOSPITAL, WAIRONGA**
 Borehole Location: **Building 3**

Drawn: **SH**
 Sheet: **3 of 3**
 Project No.: **GFOTLCOV23462AA**
 Date Valid: **10.3.2008**
 Date completed: **10.3.2008**
 Logged by: **JA**
 Checked by: **SH**

drilling information		material substance		rock mass effects	
depth (m)	depth (ft)	depth (m)	depth (ft)	depth (m)	depth (ft)
140	140	140	140	140	140
141	141	141	141	141	141
142	142	142	142	142	142
143	143	143	143	143	143
144	144	144	144	144	144
145	145	145	145	145	145
146	146	146	146	146	146
147	147	147	147	147	147
148	148	148	148	148	148
149	149	149	149	149	149
150	150	150	150	150	150
151	151	151	151	151	151
152	152	152	152	152	152
153	153	153	153	153	153
154	154	154	154	154	154
155	155	155	155	155	155
156	156	156	156	156	156
157	157	157	157	157	157
158	158	158	158	158	158
159	159	159	159	159	159
160	160	160	160	160	160
161	161	161	161	161	161
162	162	162	162	162	162
163	163	163	163	163	163
164	164	164	164	164	164
165	165	165	165	165	165
166	166	166	166	166	166
167	167	167	167	167	167
168	168	168	168	168	168
169	169	169	169	169	169
170	170	170	170	170	170
171	171	171	171	171	171
172	172	172	172	172	172
173	173	173	173	173	173
174	174	174	174	174	174
175	175	175	175	175	175
176	176	176	176	176	176
177	177	177	177	177	177
178	178	178	178	178	178
179	179	179	179	179	179
180	180	180	180	180	180
181	181	181	181	181	181
182	182	182	182	182	182
183	183	183	183	183	183
184	184	184	184	184	184
185	185	185	185	185	185
186	186	186	186	186	186
187	187	187	187	187	187
188	188	188	188	188	188
189	189	189	189	189	189
190	190	190	190	190	190
191	191	191	191	191	191
192	192	192	192	192	192
193	193	193	193	193	193
194	194	194	194	194	194
195	195	195	195	195	195
196	196	196	196	196	196
197	197	197	197	197	197
198	198	198	198	198	198
199	199	199	199	199	199
200	200	200	200	200	200

Engineering Log - Borehole

Client:	Taylor Thomson Whitting
Principal:	Coffey Projects
Project:	185 FOX VALLY ROAD, SAN HOSPITAL, WAHRONGA
Base/Job Location:	Building 1

Report file No.	GBH2
Sheet	1 of 1
Project No.	GEOTLCOV23462AA
Date started	10/3/2008
Data completed	10/3/2008
Logged by:	JA
Checked by:	SH

[illegible]

Engineering Log - Borehole

Client: Taylor, Thomson, Whittington

Principal: Coffey Projects

Project 185 FOX VALLY ROAD, SAN HOSPITAL, WAHROONGA

Barcode Location: Building 1

House No. CBH2A

Step: 1 of 1

Finger1 Str: **GCOTLCOV23462AA**

Oak started 10.3.2008

Date completed: 10.3.2008

Luxembourg JA

Checked by: **SH**

[illegible]

Engineering Log - Borehole

Client: **Taylor Thomson Whitting**
 Principal: **Coffey Projects**
 Project: **185 FOX VALLEY ROAD, SAN HOSPITAL, WAHRUONGA**
 Borehole Location: **Building 1**

Borehole No: **CBH2B**
 Sheet: **1 of 1**
 Project No: **GEOTLCOV23462AA**
 Date started: **10.3.2008**
 Date completed: **10.3.2008**
 Logged by: **JA**
 Checked by: **SH**

drill model and recording		Method: WPM		Barrel: 37513.4		Blade: 10'		H.T. System: 156 WPM	
hole diameter:		LOGGING		Holding: 6256713		Loading:		down: AND	
Drilling Information				material substance					
Method	Drill bit	Notes 200, 100, 100, 100	FL depth meters	Grain log	Remarks	Moisture content	Consistency density index	Grain size mm	Structure and additional observations
AD	12.5				FILL BETWEEN ROADBASE				
			152		FILL "CLAYEY SAND" with grey sand, brown mud to hardened by clay, with some embedded fine gravel				
			155		between CR/RA form holes at 100'				10' of reduction potential 15'
			164						
			170						
			180						
			191						
			199						
			200						
			208						
			210						
			215						
			220						
			225						
			230						
			235						
			240						
			245						
			250						
			255						
			260						
			265						
			270						
			275						
			280						
			285						
			290						
			295						
			300						
			305						
			310						
			315						
			320						
			325						
			330						
			335						
			340						
			345						
			350						
			355						
			360						
			365						
			370						
			375						
			380						
			385						
			390						
			395						
			400						
			405						
			410						
			415						
			420						
			425						
			430						
			435						
			440						
			445						
			450						
			455						
			460						
			465						
			470						
			475						
			480						
			485						
			490						
			495						
			500						
			505						
			510						
			515						
			520						
			525						
			530						
			535						
			540						
			545						
			550						
			555						
			560						
			565						
			570						
			575						
			580						
			585						
			590						
			595						
			600						
			605						
			610						
			615						
			620						
			625						
			630						
			635						
			640						
			645						
			650						
			655						
			660						
			665						
			670						
			675						
			680						
			685						
			690						
			695						
			700						
			705						
			710						
			715						
			720						
			725						
			730						
			735						
			740						
			745						
			750						
			755						
			760						
			765						
			770						
			775						
			780						
			785						
			790						
			795						
			800						
			805						
			810						
			815						
			820						
			825						
			830						
			835						
			840						
			845						
			850						
			855						
			860						
			865						
			870						
			875						
			880						
			885						
			890						
			895						
			900						
			905						
			910						
			915						
			920						
			925						
			930						
			935						
			940						
			945						
			950						
			955						
			960						
			965						
			970						
			975						
			980						
			985						
			990						
			995						
			1000						

Borehole CBH2B was 300' long

Borehole CBH2B was 300' long

Engineering Log - Borehole

Client: **Taylor Thomson Whitting**
 Principal: **Coffey Projects**
 Project: **185 FOX VALLEY ROAD, SAN HOSPITAL, WAHROONGA**
 Borehole Location: **Building 3**

Borehole No: **CBH3**
 Sheet: **1 of 3**
 Project No: **GEOTLCOV23462AA**
 Date started: **10.3.2008**
 Date completed: **11.3.2008**
 Logged by: **JA**
 Checked by: **SH**

borehole location		borehole ID		depth		diameter		date	
100mm		100mm		100mm		100mm		100mm	
drilling information				material substance					
method	depth (m)	notes	material	structure and additional observations	notes	notes	notes	notes	notes
ADP	0.0	Topsoil	Topsoil, fine grained, brown						
	0.5	Topsoil	Topsoil, fine grained, brown						
	1.0	Topsoil	Topsoil, fine grained, brown						
	1.5	Topsoil	Topsoil, fine grained, brown						
	2.0	Topsoil	Topsoil, fine grained, brown						
	2.5	Topsoil	Topsoil, fine grained, brown						
	3.0	Topsoil	Topsoil, fine grained, brown						
	3.5	Topsoil	Topsoil, fine grained, brown						
	4.0	Topsoil	Topsoil, fine grained, brown						
	4.5	Topsoil	Topsoil, fine grained, brown						
	5.0	Topsoil	Topsoil, fine grained, brown						
	5.5	Topsoil	Topsoil, fine grained, brown						
	6.0	Topsoil	Topsoil, fine grained, brown						
	6.5	Topsoil	Topsoil, fine grained, brown						
	7.0	Topsoil	Topsoil, fine grained, brown						
	7.5	Topsoil	Topsoil, fine grained, brown						
	8.0	Topsoil	Topsoil, fine grained, brown						
	8.5	Topsoil	Topsoil, fine grained, brown						
	9.0	Topsoil	Topsoil, fine grained, brown						
	9.5	Topsoil	Topsoil, fine grained, brown						
	10.0	Topsoil	Topsoil, fine grained, brown						
	10.5	Topsoil	Topsoil, fine grained, brown						
	11.0	Topsoil	Topsoil, fine grained, brown						
	11.5	Topsoil	Topsoil, fine grained, brown						
	12.0	Topsoil	Topsoil, fine grained, brown						
	12.5	Topsoil	Topsoil, fine grained, brown						
	13.0	Topsoil	Topsoil, fine grained, brown						
	13.5	Topsoil	Topsoil, fine grained, brown						
	14.0	Topsoil	Topsoil, fine grained, brown						
	14.5	Topsoil	Topsoil, fine grained, brown						
	15.0	Topsoil	Topsoil, fine grained, brown						
	15.5	Topsoil	Topsoil, fine grained, brown						
	16.0	Topsoil	Topsoil, fine grained, brown						
	16.5	Topsoil	Topsoil, fine grained, brown						
	17.0	Topsoil	Topsoil, fine grained, brown						
	17.5	Topsoil	Topsoil, fine grained, brown						
	18.0	Topsoil	Topsoil, fine grained, brown						
	18.5	Topsoil	Topsoil, fine grained, brown						
	19.0	Topsoil	Topsoil, fine grained, brown						
	19.5	Topsoil	Topsoil, fine grained, brown						
	20.0	Topsoil	Topsoil, fine grained, brown						
	20.5	Topsoil	Topsoil, fine grained, brown						
	21.0	Topsoil	Topsoil, fine grained, brown						
	21.5	Topsoil	Topsoil, fine grained, brown						
	22.0	Topsoil	Topsoil, fine grained, brown						
	22.5	Topsoil	Topsoil, fine grained, brown						
	23.0	Topsoil	Topsoil, fine grained, brown						
	23.5	Topsoil	Topsoil, fine grained, brown						
	24.0	Topsoil	Topsoil, fine grained, brown						
	24.5	Topsoil	Topsoil, fine grained, brown						
	25.0	Topsoil	Topsoil, fine grained, brown						
	25.5	Topsoil	Topsoil, fine grained, brown						
	26.0	Topsoil	Topsoil, fine grained, brown						
	26.5	Topsoil	Topsoil, fine grained, brown						
	27.0	Topsoil	Topsoil, fine grained, brown						
	27.5	Topsoil	Topsoil, fine grained, brown						
	28.0	Topsoil	Topsoil, fine grained, brown						
	28.5	Topsoil	Topsoil, fine grained, brown						
	29.0	Topsoil	Topsoil, fine grained, brown						
	29.5	Topsoil	Topsoil, fine grained, brown						
	30.0	Topsoil	Topsoil, fine grained, brown						

Engineering Log - Cored Borehole

Client: **Taylor Thomson Whitting**

Principal: **Coffey Projects**

Project: **185 FOX VALLEY ROAD, SAN HOSPITAL, WAHROONGA**

Borehole location: **Building 3**

Borehole No: **CBH3**

Sheet: **2 of 3**

Project No: **GFOTL COV23462AA**

Date started: **10.3.2008**

Date completed: **11.3.2008**

Log by: **JA**

Checked by: **SH**

soil model assessment: Medium (1999)				Logging: ASTM D 1586	Depth: 50'	10' bucket: 15A045
hole diameter: 100mm (Drilling Tool)				Logging: B750/B70	Depth: 50'	10' bucket: 15A045
drilling information:				material substance		
				rock mass defects		
				defect description		
				type, intensity, quantity, depth, area, severity, thickness		
				control		

Engineering Log - Cored Borehole

Client Taylor Thomson Whitting

Background *Cotter Projects*

Project: 185 FOX VALLEY ROAD, SAN HOSPITAL, WAHRONGA

Derechle Location: Building 3

MO'NOC NO CBH3

Slayer 3 of 3

Protein No. **GEOTLCOV23462AA**

Date started 10.3.2008

Data completed: 11.3.2008

L'esperance JA

Checked by: SH

[illegible]

Engineering Log - Borehole

Client: **Taylor Thomson Whitting**

Referring: **Coffey Projects**

Project: **165 FOX VALLY ROAD, SAN HOSPITAL, WAIRARAPA**

Borehole Location: **Building 2**

Borehole ID: **CBH4**

Sheet: **1 of 2**

Project No: **GEU/LCOV23462A/A**

Date started: **11.3.2008**

Date completed: **11.3.2008**

Logged by: **JA**

Checked by: **SH**

drilling information		material substance		structural and additional observations	
depth (m)	depth (ft)	depth (m)	depth (ft)	depth (m)	depth (ft)
0.0	0.0	0.0	0.0	0.0	0.0
0.5	1.6	0.5	1.6	0.5	1.6
1.0	3.3	1.0	3.3	1.0	3.3
1.5	4.9	1.5	4.9	1.5	4.9
2.0	6.6	2.0	6.6	2.0	6.6
2.5	8.2	2.5	8.2	2.5	8.2
3.0	9.8	3.0	9.8	3.0	9.8
3.5	11.5	3.5	11.5	3.5	11.5
4.0	13.1	4.0	13.1	4.0	13.1
4.5	14.8	4.5	14.8	4.5	14.8
5.0	16.4	5.0	16.4	5.0	16.4
5.5	18.0	5.5	18.0	5.5	18.0
6.0	19.7	6.0	19.7	6.0	19.7
6.5	21.3	6.5	21.3	6.5	21.3
7.0	23.0	7.0	23.0	7.0	23.0
7.5	24.6	7.5	24.6	7.5	24.6
8.0	26.2	8.0	26.2	8.0	26.2
8.5	27.9	8.5	27.9	8.5	27.9
9.0	29.5	9.0	29.5	9.0	29.5
9.5	31.2	9.5	31.2	9.5	31.2
10.0	32.8	10.0	32.8	10.0	32.8
10.5	34.4	10.5	34.4	10.5	34.4
11.0	36.1	11.0	36.1	11.0	36.1
11.5	37.7	11.5	37.7	11.5	37.7
12.0	39.4	12.0	39.4	12.0	39.4
12.5	41.0	12.5	41.0	12.5	41.0
13.0	42.7	13.0	42.7	13.0	42.7
13.5	44.3	13.5	44.3	13.5	44.3
14.0	45.9	14.0	45.9	14.0	45.9
14.5	47.6	14.5	47.6	14.5	47.6
15.0	49.2	15.0	49.2	15.0	49.2
15.5	50.9	15.5	50.9	15.5	50.9
16.0	52.5	16.0	52.5	16.0	52.5
16.5	54.1	16.5	54.1	16.5	54.1
17.0	55.8	17.0	55.8	17.0	55.8
17.5	57.4	17.5	57.4	17.5	57.4
18.0	59.1	18.0	59.1	18.0	59.1
18.5	60.7	18.5	60.7	18.5	60.7
19.0	62.3	19.0	62.3	19.0	62.3
19.5	64.0	19.5	64.0	19.5	64.0
20.0	65.6	20.0	65.6	20.0	65.6
20.5	67.2	20.5	67.2	20.5	67.2
21.0	68.9	21.0	68.9	21.0	68.9
21.5	70.5	21.5	70.5	21.5	70.5
22.0	72.1	22.0	72.1	22.0	72.1
22.5	73.8	22.5	73.8	22.5	73.8
23.0	75.4	23.0	75.4	23.0	75.4
23.5	77.1	23.5	77.1	23.5	77.1
24.0	78.7	24.0	78.7	24.0	78.7
24.5	80.4	24.5	80.4	24.5	80.4
25.0	82.0	25.0	82.0	25.0	82.0
25.5	83.7	25.5	83.7	25.5	83.7
26.0	85.3	26.0	85.3	26.0	85.3
26.5	86.9	26.5	86.9	26.5	86.9
27.0	88.6	27.0	88.6	27.0	88.6
27.5	90.2	27.5	90.2	27.5	90.2
28.0	91.8	28.0	91.8	28.0	91.8
28.5	93.5	28.5	93.5	28.5	93.5
29.0	95.1	29.0	95.1	29.0	95.1
29.5	96.8	29.5	96.8	29.5	96.8
30.0	98.4	30.0	98.4	30.0	98.4
30.5	100.1	30.5	100.1	30.5	100.1
31.0	101.7	31.0	101.7	31.0	101.7
31.5	103.3	31.5	103.3	31.5	103.3
32.0	105.0	32.0	105.0	32.0	105.0
32.5	106.6	32.5	106.6	32.5	106.6
33.0	108.2	33.0	108.2	33.0	108.2
33.5	109.9	33.5	109.9	33.5	109.9
34.0	111.5	34.0	111.5	34.0	111.5
34.5	113.1	34.5	113.1	34.5	113.1
35.0	114.8	35.0	114.8	35.0	114.8
35.5	116.4	35.5	116.4	35.5	116.4
36.0	118.1	36.0	118.1	36.0	118.1
36.5	119.7	36.5	119.7	36.5	119.7
37.0	121.3	37.0	121.3	37.0	121.3
37.5	123.0	37.5	123.0	37.5	123.0
38.0	124.6	38.0	124.6	38.0	124.6
38.5	126.2	38.5	126.2	38.5	126.2
39.0	127.9	39.0	127.9	39.0	127.9
39.5	129.5	39.5	129.5	39.5	129.5
40.0	131.2	40.0	131.2	40.0	131.2
40.5	132.8	40.5	132.8	40.5	132.8
41.0	134.4	41.0	134.4	41.0	134.4
41.5	136.1	41.5	136.1	41.5	136.1
42.0	137.7	42.0	137.7	42.0	137.7
42.5	139.4	42.5	139.4	42.5	139.4
43.0	141.0	43.0	141.0	43.0	141.0
43.5	142.7	43.5	142.7	43.5	142.7
44.0	144.3	44.0	144.3	44.0	144.3
44.5	145.9	44.5	145.9	44.5	145.9
45.0	147.6	45.0	147.6	45.0	147.6
45.5	149.2	45.5	149.2	45.5	149.2
46.0	150.9	46.0	150.9	46.0	150.9
46.5	152.5	46.5	152.5	46.5	152.5
47.0	154.1	47.0	154.1	47.0	154.1
47.5	155.8	47.5	155.8	47.5	155.8
48.0	157.4	48.0	157.4	48.0	157.4
48.5	159.1	48.5	159.1	48.5	159.1
49.0	160.7	49.0	160.7	49.0	160.7
49.5	162.3	49.5	162.3	49.5	162.3
50.0	164.0	50.0	164.0	50.0	164.0
50.5	165.6	50.5	165.6	50.5	165.6
51.0	167.2	51.0	167.2	51.0	167.2
51.5	168.9	51.5	168.9	51.5	168.9
52.0	170.5	52.0	170.5	52.0	170.5
52.5	172.1	52.5	172.1	52.5	172.1
53.0	173.8	53.0	173.8	53.0	173.8
53.5	175.4	53.5	175.4	53.5	175.4
54.0	177.1	54.0	177.1	54.0	177.1
54.5	178.7	54.5	178.7	54.5	178.7
55.0	180.4	55.0	180.4	55.0	180.4
55.5	182.0	55.5	182.0	55.5	182.0
56.0	183.7	56.0	183.7	56.0	183.7
56.5	185.3	56.5	185.3	56.5	185.3
57.0	186.9	57.0	186.9	57.0	186.9
57.5	188.6	57.5	188.6	57.5	188.6
58.0	190.2	58.0	190.2	58.0	190.2
58.5	191.8	58.5	191.8	58.5	191.8
59.0	193.5	59.0	193.5	59.0	193.5
59.5	195.1	59.5	195.1	59.5	195.1
60.0	196.8	60.0	196.8	60.0	196.8
60.5	198.4	60.5	198.4	60.5	198.4
61.0	200.1	61.0	200.1	61.0	200.1
61.5	201.7	61.5	201.7	61.5	201.7
62.0	203.3	62.0	203.3	62.0	203.3
62.5	205.0	62.5	205.0	62.5	205.0
63.0	206.6	63.0	206.6	63.0	206.6
63.5	208.2	63.5	208.2	63.5	208.2
64.0	210.0	64.0	210.0	64.0	210.0
64.5	211.6	64.5	211.6	64.5	211.6
65.0	213.1	65.0	213.1	65.0	213.1
65.5	214.8	65.5	214.8	65.5	214.8
66.0	216.4	66.0	216.4	66.0	216.4
66.5	218.1	66.5	218.1	66.5	218.1
67.0	219.7	67.0	219.7	67.0	219.7
67.5	221.3	67.5	221.3	67.5	221.3
68.0	223.0	68.0	223.0	68.0	223.0
68.5	224.6	68.5	224.6	68.5	224.6
69.0	226.2	69.0	226.2	69.0	226.2
69.5	227.9	69.5	227.9	69.5	227.9
70.0	229.5	70.0	229.5	70.0	229.5
70.5	231.2	70.5	231.2	70.5	231.2
71.0	232.8	71.0	232.8	71.0	232.8
71.5	234.4	71.5	234.4	71.5	234.4
72.0	236.1	72.0	236.1	72.0	236.1
72.5	237.7	72.5	237.7	72.5	237.7
73.0	239.4	73.0	239.4	73.0	239.4
73.5	241.0	73.5	241.0	73.5	241.0
74.0	242.7	74.0	242.7	74.0	242.7
74.5	244.3	74.5	244.3	74.5	244.3
75.0	245.9	75.0	245.9	75.0	245.9
75.5	247.6	75.5	247.6	75.5	247.6
76.0	249.2	76.0	249.2	76.0	249.2
76.5	250.9	76.5	250.9	76.5	250.9
77.0	252.5	77.0	252.5	77.0	252.5
77.5	254.1	77.5	254.1	77.5	254.1
78.0	255.8	78.0	255.8	78.0	255.8
78.5	257.4	78.5	257.4	78.5	257.4
79.0	259.1	79.0	259.1	79.0	259.1
79.5	260.7	79.5	260.7	79.5	260.7
80.0	262.3	80.0	262.3	80.0	262.3
80.5	264.0	80.5	264.0	80.5	264.0
81.0	265.6	81.0	265.6	81.0	265.6
81.5	267.2	81.5	267.2	81.5	267.2
82.0	268.9	82.0	268.9	82.0	268.9
82.5	270.5	82.5	270.5	82.5	270.5
83.0	272.1	83.0	272.1	83.0	272.1
83.5	273.8	83.5	273.8	83.5	273.8
84.0	275.4	84.0	275.4	84.0	275.4
84.5	277.1	84.5	277.1	84.5	277.1
85.0	278.7	85.0	278.7	85.0	278.7
85.5	280.4	85.5	280.4	85.5	280.4
86.0	282.0	86.0	282.0	86.0	282.0
86.5	283.7	86.5	283.7	86.5	283.7
87.0	285.3	87.0	285.3	87.0	285.3
87.5	286.9	87.5	286.9	87.5	286.9
88.0	288.6	88.0	288.6	88.0	288.6
88.5	290.2	88.5	290.2	88.5	290.2
89.0	291.8	89.0	291.8	89.0	291.8
89.5	293.5	89.5	293.5	89.5	293.5
90.0	295.1	90.0	295.1	90.0	295.1
90.5	296.8	90.5	296.8	90.5	296.8
91.0	298.4	91.0	298.4	91.0	298.4
91.5	300.1	91.5	300.1	91.5	300.1
92.0	301.7	92.0	301.7	92.0	301.7
92.5	303.3	92.5	303.3	92.5	303.3
93.0	305.0	93.0	305.0	93.0	305.0
93.5	306.6	93.5	306.6	93.5	

Engineering Log - Cored Borehole

Client Taylor Thomson Whitting

Principal: **Gaffey Projects**

Project: 185 FOX VALLY ROAD, SAN HOSPITAL, WAHROONGA

Burhole Location: **Building 2**

Page No. CBH4

Steel 2 of 2

Project No: GEOTLCOV23462AA

Date started 17.3.2008

Ushu converted: 11.9.2008

Logged by *JN*

Checked by: Sfd:

drilling information				material resistance				rock mass defects			
method				material				defect description			
depth (m)				penetration (MPa)				defect type			
graphical log				strength (MPa)				defect description			
penetration (MPa)				modulus (GPa)				defect description			
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Engineering Log - Borehole

Client: **Taylor Thomson Whitting**
 Principal: **Coffey Projects**
 Project: **185 FOX VALLEY ROAD, SAN HOSPITAL, WAHROONGA**
 Borehole Location: **Building 2**

Borehole No: **CBH5**
 Sheet: **1 of 2**
 Project No: **GEOT/CDV23462AA**
 Date started: **11.3.2008**
 Date completed: **12.3.2008**
 Logged by: **JA**
 Checked by: **SH**

Drill Method: Machine Drilled		Logging: 303830.1		Scale: 1:50		H. Section: 182.3m	
Borehole dia: 100mm		Borehole: 6305H55		Depth:		Room: A-B	
Drilling Information				Material Substance			
Method	Penetration	Support	Notes (samples, tests, etc.)	Bl. (m)	Stratigraphic Unit	Material	Structure and additional observations
ADP	1.5-3						

