

## **REPORT TO**

## **HEALTH INFRASTRUCTURE**

ON

PRELIMINARY (STAGE 1) SITE INVESTIGATION

**FOR** 

PROPOSED GUNNEDAH HOSPITAL REDEVELOPMENT

AT

MARQUIS STREET, GUNNEDAH, NSW

Date: 1 August 2022 Ref: E35091UPDrpt

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## **Executive Summary**

Health Infrastructure ('the client') commissioned JK Environments (JKE) to undertake a Preliminary (Stage 1) Site Investigation (PSI) for the proposed hospital redevelopment at Gunnedah Hospital, Marquis Street, Gunnedah, NSW. The purpose of the investigation is to make a preliminary assessment of site contamination. The site location is shown on Figure 1 and the investigation was confined to the site boundaries as shown on Figure 2 attached in the appendices.

This report has been prepared to support the lodgement of a Development Application (DA) for the proposed hospital redevelopment, with regards to State Environmental Planning Policy (Resilience and Hazards) 2021<sup>1</sup>. A geotechnical investigation was undertaken in conjunction with this PSI by JK Geotechnics (JKG). The results of the geotechnical investigation will be presented in a separate report (Ref: 35091URrpt). This report should be read in conjunction with the JKG report.

The primary aims of the investigation were to identify any past or present potentially contaminating activities at the site, identify the potential for site contamination, and make a preliminary assessment of the soil and groundwater contamination conditions. The objectives were to:

- Provide an appraisal of the past site use(s) based on a review of historical records;
- Assess the current site conditions and use(s) via a site walkover inspection;
- Identify potential contamination sources/areas of environmental concern (AEC) and contaminants of potential concern (CoPC);
- Assess the soil contamination conditions via implementation of a preliminary sampling and analysis program;
- Prepare a conceptual site model (CSM);
- Assess the potential risks posed by contamination to the receptors identified in the CSM (Tier 1 assessment);
- Provide a preliminary waste classification for off-site disposal of soil;
- Assess whether the site is suitable or can be made suitable for the proposed development (from a contamination viewpoint); and
- Assess whether further intrusive investigation and/or remediation is required.

The investigation included a review of historical information and sampling from eight boreholes and six testpits. The identified AEC include: fill material; use of pesticides; hazardous building materials; electrical transformer; diesel generator; and an Incinerator.

The PSI identified fill at most locations. A marginally elevated concentration of nickel was encountered above the ecological criterion in one sample and asbestos (as bonded asbestos containing material - ACM) was found in the subsurface soil in another sample. The asbestos concentration was marginally below the Site Assessment Criteria (SAC).

Based on the findings of the investigation, JKE is of the opinion that the site can be made suitable for the proposed development described in Section 1.1. A Detailed Site Investigation (DSI) will be required to establish whether remediation is necessary. Based on the preliminary data, contamination issues at the site (if found during the DSI process) would be expected to be typical of this type of site with the associated historical land use. On this basis, we consider that the site could be made suitable via relatively straight-forward remediation processes such as 'excavation/disposal' and 'cap and contain', should remediation be required.

We recommend the following:

- Undertake DSI to address the data gaps identified in Section 10.4. The extent of 'the site' for the DSI should be confirmed by the client as it is noted that not all areas of the hospital are being redeveloped. In our view, it would be reasonable to limit the DSI to broadly capture the proposed development footprint; and
- Prepare and implement an Asbestos Management Plan (AMP) for asbestos in soil.

If the DSI identifies a need for remediation, a Remediation Action Plan (RAP) will be required and the site will need to be remediated and validated to confirm site suitability.

The conclusions and recommendations should be read in conjunction with the limitations presented in the body of this report.

<sup>&</sup>lt;sup>1</sup> State Environmental Planning Policy (Resilience and Hazards) 2021 (NSW) (referred to as SEPP Resilience and Hazards 2021)





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**Appendix C: Laboratory Results Summary Tables** 

Appendix D: Borehole and Test pit Logs

Appendix E: Laboratory Report(s) & COC Documents

Appendix F: Report Explanatory Notes

Appendix G: Data (QA/QC) Evaluation
Appendix H: Guidelines and Reference Documents

••



# **Abbreviations**

|   | /              |
|---|----------------|
| Asbestos Fines/Fibrous Asbestos                 | AF/FA          |
| Ambient Background Concentrations               | ABC            |
| Added Contaminant Limits                        | ACL            |
| Asbestos Containing Material                    | ACM            |
| Australian Drinking Water Guidelines            | ADWG           |
| Area of Environmental Concern                   | AEC            |
| Australian Height Datum                         | AHD            |
| Acid Sulfate Soil                               | ASS            |
| Above-Ground Storage Tank                       | AST            |
| Below Ground Level                              | BGL<br>P-P-T-C |
| Benzo(a)pyrene Toxicity Equivalent Factor       | BaP TEQ        |
| Bureau of Meteorology                           | BOM            |
| Benzene, Toluene, Ethylbenzene, Xylene          | BTEX           |
| Cation Exchange Capacity                        | CEC            |
| Contaminated Land Management                    | CLM            |
| Contaminant(s) of Potential Concern             | CoPC           |
| Chain of Custody                                | 200            |
| Conceptual Site Model                           | CSM            |
| Development Application                         | DA             |
| Dial Before You Dig                             | DBYD           |
| Data Quality Indicator                          | DQI            |
| Data Quality Objective                          | DQO            |
| Detailed Site Investigation                     | DSI            |
| Ecological Investigation Level                  | EIL            |
| Ecological Screening Level                      | ESL            |
| Environmental Management Plan                   | EMP            |
| Excavated Natural Material                      | ENM            |
| Environment Protection Authority                | EPA            |
| Environmental Site Assessment                   | ESA            |
| Fibre Cement Fragment(s)                        | FCF            |
| General Approval of Immobilisation              | GAI            |
| Health Investigation Level                      | HILs           |
| Health Screening Level                          | HSL            |
| Health Screening Level-Site Specific Assessment | HSL-SSA        |
| International Organisation of Standardisation   | ISO            |
| JK Environments                                 | JKE            |
| Lab Control Spike                               | LCS            |
| Light Non-Aqueous Phase Liquid                  | LNAPL          |
| Map Grid of Australia                           | MGA            |
| National Association of Testing Authorities     | NATA           |
| National Environmental Protection Measure       | NEPM           |
| Organochlorine Pesticides                       | OCP            |
| Organophosphate Pesticides                      | OPP            |
| Polycyclic Aromatic Hydrocarbons                | PAH            |
| Potential ASS  Rehable being to d. Dink and b.  | PASS           |
| Polychlorinated Biphenyls                       | PCBs           |
| Per-and Polyfluoroalkyl Substances              | PFAS           |
| Photo-ionisation Detector                       | PID            |
| Protection of the Environment Operations        | POEO           |
| Practical Quantitation Limit                    | PQL            |
| Quality Assurance                               | QA<br>OC       |
| Quality Control                                 | QC             |
| Remediation Action Plan                         | RAP            |
| Relative Percentage Difference                  | RPD            |



| Site Assessment Criteria                      | SAC   |
|---|-------|
| Sampling, Analysis and Quality Plan           | SAQP  |
| Site Audit Statement                          | SAS   |
| Site Audit Report                             | SAR   |
| State Environmental Planning Policy           | SEPP  |
| Site Specific Assessment                      | SSA   |
| Source, Pathway, Receptor                     | SPR   |
| Specific Contamination Concentration          | SCC   |
| Standard Penetration Test                     | SPT   |
| Standing Water Level                          | SWL   |
| Trip Blank                                    | ТВ    |
| Toxicity Characteristic Leaching Procedure    | TCLP  |
| Total Recoverable Hydrocarbons                | TRH   |
| Trip Spike                                    | TS    |
| Upper Confidence Limit                        | UCL   |
| United States Environmental Protection Agency | USEPA |
| Underground Storage Tank                      | UST   |
| Virgin Excavated Natural Material             | VENM  |
| Volatile Organic Compounds                    | VOC   |
| World Health Organisation                     | WHO   |
| Work Health and Safety                        | WHS   |

## Units

| L        |
|----------|
| mBGL     |
| m        |
| mV       |
| ml or mL |
| μS/cm    |
| μg/L     |
| mg/kg    |
| mg/L     |
| ppm      |
| %        |
| %w/w     |
|          |



#### 1 INTRODUCTION

Health Infrastructure ('the client') commissioned JK Environments (JKE) to undertake a Preliminary (Stage 1) Site Investigation (PSI) for the proposed hospital redevelopment at Gunnedah Hospital, Marquis Street, Gunnedah, NSW ('the site'). The purpose of the investigation is to make a preliminary assessment of site contamination. The site location is shown on Figure 1 and the investigation was confined to the site boundaries as shown on Figure 2.

This report has been prepared to support the lodgement of a Development Application (DA) for the proposed hospital redevelopment, with regards to State Environmental Planning Policy (Resilience and Hazards) 2021<sup>2</sup> (formerly known as SEPP55).

A geotechnical investigation was undertaken in conjunction with this PSI by JK Geotechnics (JKG). The results of the geotechnical investigation will be presented in a separate report (Ref: 35091URrpt). This report should be read in conjunction with the JKG report.

## 1.1 Proposed Development Details

Based on a review of the provided information, we understand that the proposed development includes alterations and additions to the existing hospital which will be carried out in three stages: Early Works; Main Works; and Refurbishment Works. Following partial demolition required for each of the stages, the proposed alterations and additions will include:

- A new single level inpatient unit building situated over the central portion of the hospital grounds, an extension to the existing kitchen building and a new emergency access situated respectively to the south-west and to the east of the new inpatient unit building. The ground floor concrete slab will be suspended between bored piers with the floor slab either supported by sacrificial formwork or formed over a subgrade comprising engineered fill and natural ground, in which case where necessary design surface levels would need to be raised (by placing fill) or lowered (by excavation) by approximately 0.5m Below Ground Level (BGL);
- The existing ward building to the north-east of the new inpatient unit building will be reconfigured and will include works to occupy the existing under croft space. Minor excavation works may be required to approximately 0.2mBGL to accommodate the new concrete slab;
- Additional car parking areas and access roads will be provided over the north-western, north-eastern, southern and south-eastern portions of the site. In the main, the new parking areas will involve extending existing parking areas. We have assumed excavations to a maximum depth of approximately 1mBGL will be required to achieve design surface levels; and
- Landscaping of sections of the site including but not limited to the regarding of the link between the new main entry to the inpatient unit building north-eastwards to the rear (south-eastern side) of the Rural Health Centre. The access ramp will require raising of site surface levels by a maximum of approximately 1.4m.

<sup>&</sup>lt;sup>2</sup> State Environmental Planning Policy (Resilience and Hazards) 2021 (NSW) (referred to as SEPP Resilience and Hazards 2021)





We understand that the existing day care centre in the south-east section of the site will be demolished as part of the development and a new day care centre is not proposed.

## 1.2 Aims and Objectives

The primary aims of the investigation were to identify any past or present potentially contaminating activities at the site, identify the potential for site contamination, and make a preliminary assessment of the soil and groundwater contamination conditions. The objectives were to:

- Provide an appraisal of the past site use(s) based on a review of historical records;
- Assess the current site conditions and use(s) via a site walkover inspection;
- Identify potential contamination sources/areas of environmental concern (AEC) and contaminants of potential concern (CoPC);
- Assess the soil contamination conditions via implementation of a preliminary sampling and analysis program;
- Prepare a conceptual site model (CSM);
- Assess the potential risks posed by contamination to the receptors identified in the CSM (Tier 1 assessment);
- Provide a preliminary waste classification for off-site disposal of soil;
- Assess whether the site is suitable or can be made suitable for the proposed development (from a contamination viewpoint); and
- Assess whether further intrusive investigation and/or remediation is required.

## 1.3 Scope of Work

The investigation was undertaken generally in accordance with a JKE proposal Ref: EP56152UPD (RFQ: HI22038) and written acceptance from the client via Contact No. HI22038GU. The scope of work included the following:

- Review of site information, including background and site history information from various sources outlined in the report;
- Preparation of a CSM;
- Design and implementation of a sampling, analysis and quality plan (SAQP);
- Interpretation of the analytical results against the adopted Site Assessment Criteria (SAC);
- Data Quality Assessment; and
- Preparation of a report including a Tier 1 risk assessment.

The scope of work was undertaken with reference to the National Environmental Protection (Assessment of Site Contamination) Measure 1999 as amended (2013)<sup>3</sup>, other guidelines made under or with regards to the Contaminated Land Management Act (1997)<sup>4</sup> and SEPP Resilience and Hazards 2021. A list of reference documents/guidelines is included in the appendices.



<sup>&</sup>lt;sup>3</sup> National Environment Protection Council (NEPC), (2013). *National Environmental Protection (Assessment of Site Contamination) Measure 1999 (as amended 2013)*. (referred to as NEPM 2013)

<sup>&</sup>lt;sup>4</sup> Contaminated Land Management Act 1997 (NSW) (referred to as CLM Act 1997)



## 2 SITE INFORMATION

## 2.1 Site Identification

Table 2-1: Site Identification

| Current Site Owner                                 | Health Administration Corneration                                    |  |
|--|--|--|
|  | Health Administration Corporation                                    |  |
| (certificate of title):                            |  |  |
| Site Address:                                      | 10-24 Anzac Parade, Gunnedah, NSW                                    |  |
|  | (site address commonly referred to as Marquis Street, Gunnedah, NSW) |  |
| Lot & Deposited Plan:                              | Part of Lot 3 in DP792209  |  |
| Current Land Use:                                  | Hospital and associated facilities                                   |  |
| Proposed Land Use:                                 | Continued hospital and associated facilities                         |  |
| Local Government Authority:                        | Gunnedah Shire Council   |  |
| Current Zoning:                                    | R2: Low Density Residential  |  |
| Site Area (m²) (approx.):                          | 31,900   |  |
| RL (AHD in m) (approx.):                           | 280  |  |
| Geographical Location (decimal degrees) (approx.): | Latitude: -30.983401   |  |
|  | Longitude: 150.251313  |  |
| Site Location Plan:                                | Figure 1   |  |
| Sample Location Plan:                              | Figure 2   |  |

## 2.2 Site Location and Regional Setting

The site is located in a predominantly residential and recreational area of Gunnedah and is bound by Alkira Nursing Home to the north, Anzac Parade to the east, Reservoir Street to the south and Marquis Street to the west.

## 2.3 Topography

The regional topography slopes slightly towards the north. The site topography is consistent with its surrounds and has a gentle slope towards the north at approximately 1°-2°.

## 2.4 Site Inspection

A walkover inspection of the site was undertaken by JKE on 2 June 2022. The inspection was limited to accessible areas of the site and immediate surrounds. An internal inspection of buildings was not undertaken



A summary of the inspection findings is outlined in the following subsections:

## 2.4.1 Current Site Use and/or Indicators of Former Site Use

At the time of the inspection, the majority of the site was occupied by Gunnedah District Hospital and Community Health Service Centre. Site activities included general hospital use, an ambulance station, a maintenance workshop, education, a day care centre and staff accommodation.

No indicators of former site use were observed.

## 2.4.2 Buildings, Structures and Roads

The site was generally occupied by several buildings that were largely constructed on-grade. The buildings were used for various purposes including hospital wards, surgery, pathology, admin/recreation, staff accommodation, workshop, ambulance station, food outlet, generator/fuel storage and equipment storage. Carparks and internal driveways on site were paved with asphaltic concrete, whilst other open areas were concrete or brick paved.

A high level summary of the buildings and other built features observed during the JKE inspection is presented in the table below:

Table 2-2: Summary of Site Buildings and Other Built Features

| Building/Feature location  | Description   |
|--|---|
| Community Health Service Centre including pathology clinic and training, located in the northwest section of the site.   | Single-storey brick building with steel roof. The building was irregular shaped and appeared to have been of recent construction.   |
| Electrical transformer located at the north-west site boundary (see Figure 2).   | Constructed of metal on top of a concrete slab, with the areas immediately adjacent grassed.  |
| Education Centre.  | Single-storey brick building with steel roof.   |
| Main hospital building located in the central section of the site and occupied for hospital services including imagery, maternity wards, birthing suite, emergency, consultation rooms, kitchen and back of house. | Single-storey brick building with steel roof. The buildings are of irregular shaped and appeared to have been subject to historical alterations and additions. Suspected asbestos containing material (ACM) in the form of fibre cement sheeting was present in the southern portion of the building with some of the fibre cement sheeting identified as ACM based on displayed caution signage. |
| Ambulance Station including parking shed, equipment store and office, located in the east section of the site.   | Single-storey brick and steel building. Appeared to be relatively recently constructed.   |
| Staff accommodation building located in the southeast section of the site.   | Single-storey brick and terracotta tiled roofed 'L' shaped building.  |
| Child care building located in the south-east section of the site and to the west of the staff accommodation building.   | Single-storey brick and terracotta tiled roofed rectangular shaped building.  |



| Building/Feature location   | Description   |  |
|---|---|--|
| Maintenance Building and adjoining incinerator located in the south section of the site (see Figure 2). | Maintenance shed comprise of a single-storey brick building with steel roof and fibre cement clad roof awnings. The incinerator was constructed of brick.               |  |
| Above ground diesel electrical generator located in the south section of the site (see Figure 2).       | Single-storey brick, metal roof rectangular shaped building. The diesel electrical generator was located on top of a concrete slab and beneath the metal roofed awning. |  |

## 2.4.3 Boundary Conditions, Soil Stability and Erosion

The site was generally unfenced and open to street frontages. Wire mesh fencing approximately 1m high was observed along the northern boundary. No soil erosion was observed on site.

## 2.4.4 Presence of Drums/Chemical Storage and Waste

Minor quantities of cleaning chemicals, petroleum in jerry cans and paints were observed in the maintenance building and shed. This minor storage was not a concern from a land contamination viewpoint.

Clinical waste bins (200L) and general waste skip bins were observed in various locations across the site.

Several foam fire extinguishers were located in the generator and maintenance buildings on site. Signage on the fire extinguishers indicated that these fire extinguishers were fluorine free (i.e. did not contain Per-and Polyfluoroalkyl Substances - PFAS). A powder extinguisher was present in the community health building.

Two Liquid Petroleum Gas (LPG) Above Ground Storage Tanks (ASTs) and storage of medical gases including oxygen and nitrous oxide were observed in external areas adjacent to the hospital buildings.

## 2.4.5 Evidence of Cut and Fill

Minor area of exposed fill material (i.e. historically imported or disturbed soils) was observed in raised garden beds and landscaped areas on site. Parts of the site appear to have been levelled to account for the slope and accommodate the existing development.

## 2.4.6 Visible or Olfactory Indicators of Contamination (odours, spills etc)

Signage on the above ground diesel electrical generator located in the south section of the site indicated that the generator had the capacity to store up to approximately 2,000L of diesel within the unit. At the time of the site inspection there was no evidence of staining on the surface immediately adjacent to the generator.

Medical liquid oxygen and LPG cylinders/ASTs were also observed. These are not considered to be a potential contamination risk in the context of the scope of works for this PSI.

## 2.4.7 Drainage and Services

Surface water was expected to flow towards the north in sympathy with the site topography. Open grated drains were located throughout open areas of the site, mostly within the asphaltic concrete carparks. A





grassed open culvert was observed in the east section of the site. Based on the topography surface waters collected in the culvert would be expected to flow offsite towards the north.

#### 2.4.8 Sensitive Environments

Sensitive environments such as wetlands, ponds, creeks or extensive areas of natural vegetation were not identified on site or in the immediate surrounds.

## 2.4.9 Landscaped Areas and Visible Signs of Plant Stress

Landscaped and grassed areas were observed in areas of the site not covered by hardstand. Native trees up to approximately 5m high were observed along the southern site boundary and in other landscaped areas. Small shrubs were observed adjacent to some of the hospital buildings. No obvious indicators of plant stress or dieback were observed.

## 2.5 Surrounding Land Use

During the site inspection, JKE observed the following land uses in the immediate surrounds:

- North Alkira Nursing Home;
- East Anzac Parade with Gunnedah Aquatic Centre and residential properties beyond;
- South Reservoir Street with residential properties beyond; and
- West Marquis Street with Gunnedah High School beyond.

JKE did not observe any land uses in the immediate surrounds that were identified as potential contamination sources for the site.

## 2.6 Underground Services

The 'Dial Before You Dig' (DBYD) plans were reviewed for the investigation in order to establish whether any major underground services exist at the site or in the immediate vicinity that could act as a preferential pathway for contamination migration. Major services were not identified that would be expected to act as preferential pathways for contamination migration. Local services (i.e. those not shown on the DBYD plans) exist and could act as preferential pathways for contamination migration.



#### 3 GEOLOGY AND HYDROGEOLOGY

## 3.1 Regional Geology

Regional geological information was reviewed for the investigation. The information was sourced from the Lotsearch<sup>5</sup> report attached in the appendices. The report indicates that the site is underlain by Colluvial and residual deposits, with Werrie Basalt located approximately 45m to the east of the site.

## 3.2 Acid Sulfate Soil (ASS) Risk and Planning

ASS information presented in the Lotsearch report indicated that the site is located within a ASS risk area.

## 3.3 Hydrogeology

Hydrogeological information presented in the Lotsearch report indicated that the regional aquifer on-site and in the areas immediately surrounding the site includes porous, extensive aquifers of low to moderate productivity. There was a total of 196 registered bores within the report buffer of 2,000m. In summary:

- The nearest registered bore was located approximately 5m to the east off the site. This was utilised for monitoring purposes and status of the monitoring well was "abandoned";
- The majority of the bores were registered for monitoring purposes;
- There were a number of bores registered for dewatering purposes to the north of the site;
- There were no nearby bores (i.e. within 1,580m) registered for irrigation use; and
- The drillers log information from the closest registered bores typically identified silty clay soil to depths
  of approximately 13mBGL, underlain by weathered basalt bedrock. Standing water levels (SWLs) in the
  bores ranged from 2.8mBGL to 15.25mBGL.

The information reviewed for the PSI indicates that the subsurface conditions at the site are likely to consist of relatively low permeability (residual) soils overlying shallow bedrock. The potential for viable shallow groundwater abstraction and use of shallow groundwater under these conditions is considered to be low. There is a reticulated water supply in the area and consumption of the shallow groundwater is not expected to occur and does not appear to be occurring based on the registered bore records. Use of groundwater is not proposed as part of the development.

Considering the local topography and surrounding land features, JKE anticipate groundwater to flow towards the north towards the Namoi River.

## 3.4 Receiving Water Bodies

Surface water bodies were not identified in the immediate vicinity of the site. The closest surface water body is the Namoi River which is located approximately 1.2km to the north of the site. The site location and regional topography indicates that excess surface water flows have the potential to enter the stormwater system which likely discharges to the Namoi River. This water body is a potential receptor.

<sup>&</sup>lt;sup>5</sup> It is noted that the area defined in the Lotsearch report captures the proposed areas of development rather than the site as a whole as defined the Figures in Appendix A





## 4 SITE HISTORY INFORMATION

## 4.1 Review of Historical Aerial Photographs

Historical aerial photographs were reviewed for the investigation. The information was sourced from the Lotsearch report. JKE has reviewed the photographs and summarised relevant information in the following table:

Table 4-1: Summary of Historical Aerial Photographs

| Year | <b>Details</b>  |
|------|---|
| 1956 | <b>On-site:</b> The site appeared to primarily be occupied by a large rectangular shaped building in the central section of the site, with some interconnecting smaller building apparent. The shape/size of the main building was broadly consistent with the existing main hospital building and it is considered likely that the land use was associated with the hospital at this time. Smaller, freestanding buildings were also located in the east, south and west sections of the site. |
|      | <b>Off-site:</b> The surrounding area to the west and north of the site appeared to be vacant. The surrounding area to the east and south appeared to be occupied for residential purposes.   |
| 1975 | On-site: The site appeared generally similar to the previous aerial photograph. However, the small buildings in the west and east section appeared to have been demolished. New rectangular shaped buildings appeared to have been constructed in the north and south sections of the site and a new "L" shaped building appeared to have been constructed in the south-east section of the site.   |
|      | <b>Off-site:</b> The surrounds appeared similar to the previous aerial photograph. However, what appeared to be a school had been constructed to the west of the site and a what appeared to be a memorial area had been constructed to the north-east of the site.   |
| 1986 | The site and surrounding features appeared generally similar to the previous aerial photograph.   |
| 1997 | On-site: The site appeared generally similar to the previous aerial photograph. However, a new small, square-shaped building appeared to have been constructed in the north section of the site.  Off-site: The surrounds appeared similar to the previous aerial photograph. However, an irregular shaped buildings appeared to have been constructed to the north of the site (consistent with the  |
|      | layout of the existing nursing home).   |
| 2005 | On-site: The site appeared generally similar to the previous aerial photograph.   |
|      | <b>Off-site:</b> The surrounds appeared similar to the previous aerial photograph. However, an additional building appeared to have been constructed and linked to the irregular shaped buildings associated with the nursing home.   |
| 2012 | On-site: The site appeared generally similar to the previous aerial photograph. However, a new irregular shaped building appeared to have been constructed in the north-west section of the site and a new square shaped building appeared to have been constructed in the east section of the site. New asphaltic concrete hardstand on grade carparking areas were apparent in the west, south and east sections of the site.   |
|      | Off-site: The surrounds appeared similar to the previous aerial photograph.   |
| 2017 | The site and surrounding features appeared generally similar to the previous aerial photograph.   |
| 2021 | The site and surrounding features appeared generally similar to the previous aerial photograph.   |



#### 4.2 SafeWork NSW Records

SafeWork NSW records in relation to the registered storage of dangerous goods were reviewed for the investigation. Copies of relevant documents are attached in the appendices. A summary of the relevant information is provided in the following table:

Table 4-2: Summary of SafeWork NSW Records

| Date          | Record Number | License Details   |
|---------------|---------------|---|
| 23 April 1991 | 35/027366     | Information provided related to the storage of LPG in two 7,500L ASTs and |
| to 12 March   |               | storage of medical gases including oxygen and nitrous oxide.              |
| 2015          |               |   |

The search did not identify any licences to store dangerous goods including underground fuel storage tanks (USTs), ASTs or chemicals at the site that are considered to be a potential contamination risk to the receptors in the context of this PSI.

## 4.3 NSW EPA and Department of Defence Records

A review of the NSW EPA and Department of Defence databases was undertaken for the PSI. Information from the following databases were sourced from the Lotsearch report:

- Records maintained in relation to contaminated land under Section 58 of the CLM Act 1997;
- Records of sites notified in accordance with the Guidelines on the Duty to Report Contamination under Section 60 of the CLM Act 1997 (2015)<sup>6</sup>;
- Licensed activities under the Protection of the Environment Operations Act (1997)<sup>7</sup>;
- Sites being investigated under the NSW EPA per-and polyfluoroalkyl substances (PFAS) investigation program;
- Sites being investigated by the Department of Defence for PFAS contamination; and
- Sites being managed by the Department of Defence for PFAS contamination.

The search included the site and surrounding areas in the report buffer. A summary of the information is provided below:

Table 4-3: NSW EPA and Department of Defence Records

| Records  | On-site | Off-site Off-site   |
|--|---------|---|
| Records under<br>Section 58 of the<br>CLM Act 1997         | None    | There were four properties listed in the report buffer. The closest property was located approximately 350m to the north-west and down gradient to the site. The listed properties are not considered to present an offsite source of contamination due to their distance and down gradient location to the site. |
| Records under the<br>Duty to Report<br>Contamination under | None    | There were nine properties listed in the report buffer. The closest property was located approximately 320m to the north and down gradient to the site. The listed properties are not considered to present an off-site   |

<sup>&</sup>lt;sup>6</sup> NSW EPA, (2015). *Guidelines on the Duty to Report Contamination under Section 60 of the CLM Act 1997.* (referred to as Duty to Report Contamination)

<sup>&</sup>lt;sup>7</sup> Protection of the Environment Operations Act 1997 (NSW) (referred to as POEO Act 1997)





| 2 1   | l   | O" ::   |
|---|---|---|
| Section 60 of the<br>CLM Act 1997   | On-site   | off-site source of contamination due to their distance and down or cross-gradient location to the site.   |
| Licences under the POEO Act 1997  | The site was formerly licenced by the NSW EPA (Licence No. 7193) for activities associated with "Hazardous, Industrial or Group A Waste Generation or Storage". This activity is considered unlikely to pose a contamination risk to the site or represent a source of contamination in the context of the PSI. It is assumed that this licence relates to medical waste which is typical for a hospital. | Current and historical licenses were identified for several properties within the report buffer, including railway systems activities and the application of herbicides along waterways. However, these activities are considered unlikely to pose a contamination risk to the site or represent an off-site source of contamination. |
| Records relating to<br>the NSW EPA PFAS<br>Investigation<br>Program                                     | None  | None  |
| Records relating to<br>the Department of<br>Defence PFAS<br>management and<br>investigation<br>programs | None  | None  |

## 4.4 Historical Business Directory and Additional Lotsearch Information

Historical business records and other relevant information were reviewed for the investigation. The information was sourced from the Lotsearch report and summarised in the following table:

Table 4-4: Historical Business Directory and other Records

| Records   | On-site | Off-site  |
|---|---------|---|
| Historical dry<br>cleaners, motor<br>garages and service<br>stations                | None    | There were 13 motor garages and/or service stations and two dry cleaners listed within the report buffer between 1950-1982. Due to the distance and down/cross-gradient location, these properties are not considered to represent an off-site source of contamination. |
| Other historical businesses that could represent potential sources of contamination | None    | None  |



| Records                                       | On-site | Off-site  |
|---|---------|---|
| National waste<br>management site<br>database | None    | None  |
| National liquid fuel facilities               | None    | There were three service station properties listed in the report buffer. The closest property was located approximately 410m to the northeast and down gradient to the site. The listed properties are not considered to present an offsite source of contamination due to their distance and down gradient location to the site. |
| Mapped heritage items                         | None    | Various heritage items were mapped in the report buffer. These are not considered to have any relevance in the context of the PSI objectives.   |
| Mapped ecological constraints                 | None    | Various ecological items were mapped in the report buffer. These are not considered to have any relevance in the context of the PSI objectives.   |
| Mapped naturally occurring asbestos           | None    | None  |

## 4.5 Summary of Site History Information

A time line summary of the historical land uses and activities is presented in the following table. The information presented in the table is based on a weight of evidence assessment of the site history documentation and observations made by JKE.

Table 4-5: Summary of Historical Land Uses / Activities

| Year(s)                    | On-site - Potential Land Use / Activities  | Off-site - Potential Land Use / Activities  |  |
|----------------------------|--|---|--|
| At least 1956 -<br>current | <ul> <li>Hospital grounds;</li> <li>Demolition of small buildings in the west and east sections of the site, sometime between approximately 1956 and1975; and</li> <li>Likely earthworks including filling during construction works between approximately 1956 and 2012.</li> </ul> | <ul> <li>Extended hospital grounds and nursing home to the north;</li> <li>School to the west; and</li> <li>Low density residential to the east and south.</li> </ul> |  |

## 4.6 Integrity of Site History Information

The majority of the site history information was obtained from government organisations as outlined in the relevant sections of this report. The veracity of the information from these sources is considered to be relatively high. A certain degree of information loss can be expected given the lack of specific land use details over time. JKE has relied upon the Lotsearch report and have not independently verified any information



contained within. However, it is noted that the Lotsearch report is generated based on databases maintained by various government agencies and is expected to be reliable.



## 5 CONCEPTUAL SITE MODEL

NEPM (2013) defines a CSM as a representation of site related information regarding contamination sources, receptors and exposure pathways between those sources and receptors. The CSM for the site is presented in the following sub-sections and is based on the site information (including the site inspection information) and the review of site history information. Reference should also be made to the figures attached in the appendices.

A review of the CSM in relation to source, pathway and receptor (SPR) linkages has been undertaken as part of the Tier 1 risk assessment process, as outlined in Section 10.

## 5.1 Potential Contamination Sources/AEC and CoPC

The potential contamination sources/AEC and CoPC are presented in the following table:

Table 5-1: Potential (and/or known) Contamination Sources/AEC and Contaminants of Potential Concern

| Source / AEC   | CoPC   |
|--|--|
| <u>Fill material</u> – The site appears to have been historically filled to achieve the existing levels. The fill may have been imported from various sources and could be contaminated.   | Heavy metals (arsenic, cadmium, chromium, copper, lead, mercury, nickel and zinc), petroleum hydrocarbons (referred to as total recoverable hydrocarbons – TRHs), benzene, toluene, ethylbenzene and xylene (BTEX), polycyclic aromatic hydrocarbons (PAHs), organochlorine pesticides (OCPs), organophosphate pesticides (OPPs), polychlorinated biphenyls (PCBs) and asbestos. |
| <u>Use of pesticides</u> – Pesticides may have been used beneath the buildings and/or around the site.   | Heavy metals, OCPs and PCBs.   |
| Hazardous Building Material – Hazardous building materials may be present in or on soil as a result of former building and demolition activities. These materials may also be present in the existing buildings/structures on site. Signage on the external fibre cement sheeting at the southern end of the main hospital building identified that the fibre cement sheeting was an ACM.                            | Asbestos, lead and PCBs.   |
| <u>Electrical Transformer</u> – An Electrical transformer is located at the north-west site boundary as shown on Figure 2 attached in the appendices.  | PCBs.  |
| There is a potential that PCB containing oils could have leaked from the associated infrastructure and impacted the soil. Although oil staining was not observed during the site inspection, there is considered to be a potential for transformer oil accidental spills/leaks within the transformer unit which could have migrated to the soils to beneath the concrete pad slab via cracks and voids in the slab. |  |



| Source / AEC   | CoPC                   |
|--|------------------------|
| Diesel Generator – An Above ground diesel generator is located in the south section of the site and as shown on Figure 2 attached in the appendices.  Although the diesel is stored within the generator and evidence of staining was not observed during the site inspection, there is considered to be a potential for accidental spills/leaks to have occurred in this area, most likely during refuelling activities.                  | TRHs, BTEX and PAHs.   |
| Incinerator – An incinerator is located in the south section of the site and as shown on Figure 2 attached in the appendices. There is a potential for localised impacts from spills/leaks when loading waste into the incinerator or from removing waste ash from the incinerator which could have migrated to the soils in the vicinity, and also from atmospheric fallout from the incinerated waste settling on nearby ground surface. | Heavy metals and PAHs. |

## 5.2 Mechanism for Contamination, Affected Media, Receptors and Exposure Pathways

The mechanisms for contamination, affected media, receptors and exposure pathways relevant to the potential contamination sources/AEC are outlined in the following CSM table:

Table 5-2: CSM

| Table 3-2. CSIVI                      |  |
|---------------------------------------|--|
| Potential mechanism for contamination | The potential mechanisms for contamination are most likely to include 'top-down' impacts and spills. There is a potential for sub-surface releases to have occurred if deep fill (or other buried industrial infrastructure) is present, although this is considered to be the least likely mechanism for contamination.   |
| Affected media                        | Soil has been identified as the potentially affected medium. The potential for groundwater impacts is considered to be relatively low. However, groundwater would need to be considered in the event significant contamination was identified in soil.   |
| Receptor identification               | Human receptors include site occupants/users (including adults and children), construction workers and intrusive maintenance workers. Off-site human receptors include adjacent land users, groundwater users and recreational water users within the Namoi River.  Ecological receptors include terrestrial organisms and plants within unpaved areas (including the proposed landscaped areas), and freshwater ecology in the Namoi River. |
| Potential exposure pathways           | Potential exposure pathways relevant to the human receptors include ingestion, dermal absorption and inhalation of dust (all contaminants) and vapours (volatile TRH, naphthalene and BTEX). The potential for exposure would typically be associated with the construction and excavation works, and future use of the site. Potential exposure pathways for ecological receptors include primary/direct contact and ingestion.             |



|                               | Exposure during future site use could occur via direct contact with soil in unpaved areas such as gardens, inhalation of airborne asbestos fibres during soil disturbance, or inhalation of vapours within enclosed spaces such as buildings.   |
|-------------------------------|---|
| Potential exposure mechanisms | <ul> <li>The following have been identified as potential exposure mechanisms for site contamination:         <ul> <li>Vapour intrusion into the existing or proposed buildings (either from soil contamination or volatilisation of contaminants from groundwater);</li> <li>Contact (dermal, ingestion or inhalation) with exposed soils in landscaped areas and/or unpaved areas; and</li> <li>Migration of groundwater off-site and into nearby water bodies, including aquatic ecosystems and those being used for recreation.</li> </ul> </li> </ul> |



## 6 SAMPLING, ANALYSIS AND QUALITY PLAN

## 6.1 Data Quality Objectives (DQO)

Data Quality Objectives (DQOs) were developed to define the type and quality of data required to achieve the project objectives outlined in Section 1.2. The DQOs were prepared with reference to the process outlined in Schedule B2 of NEPM (2013). The seven-step DQO approach for this project is outlined in the following sub-sections.

The DQO process is validated in part by the Data Quality Assurance/Quality Control (QA/QC) Evaluation. The Data (QA/QC) Evaluation is summarised in Section 8.1 and the detailed evaluation is provided in the appendices.

## 6.1.1 Step 1 - State the Problem

The CSM identified potential sources of contamination/AEC at the site that may pose a risk to human health and the environment. Investigation data is required to assess the contamination status of the site, assess the risks posed by the contaminants in the context of the proposed development/intended land use, and assess whether remediation is required.

A waste classification is required prior to off-site disposal of excavated soil/bedrock.

The investigation was constrained by the client nominated sampling locations and testpit sampling depths of 1mBGL.

## 6.1.2 Step 2 - Identify the Decisions of the Study

The objectives of the investigation are outlined in Section 1.2. The decisions to be made reflect these objectives and are as follows:

- Did the site inspection, or does the historical information identify potential contamination sources/AEC at the site?
- Are any results above the SAC?
- Do potential risks associated with contamination exist, and if so, what are they?
- Is remediation required?
- Is the site characterisation sufficient to provide adequate confidence in the above decisions?
- Is the site suitable for the proposed development, or can the site be made suitable subject to further characterisation and/or remediation?

## 6.1.3 Step 3 - Identify Information Inputs

The primary information inputs required to address the decisions outlined in Step 2 include the following:

- Site information, including site observations and site history documentation;
- Sampling of potentially affected media, including soil and fibre cement fragments (FCF) if encountered;
- Observations of sub-surface variables such as soil type, photo-ionisation detector (PID) concentrations, odours and staining;
- Laboratory analysis of soils and FCF for the CoPC identified in the CSM; and





Field and laboratory QA/QC data.

## 6.1.4 Step 4 - Define the Study Boundary

The sampling will be confined to the site boundaries as shown in Figure 2 and will be limited vertically to a depth of sampling at each borehole/testpit (spatial boundary). The sampling was completed between 1-3 June 2022 (temporal boundary). The assessment of potential risk to adjacent land users has been made based on data collected within the site boundary.

Sampling was undertaken from the sampling locations nominated by the client. None of the nominated sampling locations were positioned within the existing building footprint due to access constraints.

## 6.1.5 Step 5 - Develop an Analytical Approach (or Decision Rule)

## 6.1.5.1 Tier 1 Screening Criteria

The laboratory data will be assessed against relevant Tier 1 screening criteria (referred to as SAC), as outlined in Section 7. Exceedances of the SAC do not necessarily indicate a requirement for remediation or a risk to human health and/or the environment. Exceedances are considered in the context of the CSM and valid SPR-linkages.

For this investigation, the individual results have been assessed as either above or below the SAC. Statistical evaluation of the dataset via calculation of mean values and/or 95% upper confidence limit (UCL) values has not been undertaken due to the spatial distribution of the data (i.e. non-probabilistic sample design) and the number of samples submitted for analysis.

## 6.1.5.2 Field and Laboratory QA/QC

Field QA/QC included analysis of inter-laboratory duplicates, intra-laboratory duplicates, trip spike, trip blank and rinsate samples. Further details regarding the sampling and analysis undertaken, and the acceptable limits adopted, is provided in the Data Quality (QA/QC) Evaluation in the appendices.

The suitability of the laboratory data is assessed against the laboratory QA/QC criteria which is outlined in the attached laboratory reports. These criteria were developed and implemented in accordance with the laboratory's National Association of Testing Authorities, Australia (NATA) accreditation and align with the acceptable limits for QA/QC samples as outlined in NEPM (2013) and other relevant guidelines.

In the event that acceptable limits are not met by the laboratory analysis, other lines of evidence are reviewed (e.g. field observations of samples, preservation, handling etc) and, where required, consultation with the laboratory is undertaken in an effort to establish the cause of the non-conformance. Where uncertainty exists, JKE typically adopt the most conservative concentration reported (or in some cases, consider the data from the affected sample as an estimate).



## 6.1.5.3 Appropriateness of Practical Quantitation Limits (PQLs)

The PQLs of the analytical methods are considered in relation to the SAC to confirm that the PQLs are less than the SAC. In cases where the PQLs are greater than the SAC, a discussion of this is provided.

## 6.1.6 Step 6 – Specify Limits on Decision Errors

To limit the potential for decision errors, a range of quality assurance processes are adopted. A quantitative assessment of the potential for false positives and false negatives in the analytical results is undertaken with reference to Schedule B(3) of NEPM (2013) using the data quality assurance information collected.

Decision errors can be controlled through the use of hypothesis testing. The test can be used to show either that the baseline condition is false or that there is insufficient evidence to indicate that the baseline condition is false. The null hypothesis is an assumption that is assumed to be true in the absence of contrary evidence. For this investigation, the null hypothesis has been adopted which is that, there is considered to be a complete SPR linkage for the CoPC identified in the CSM unless this linkage can be proven not to (or unlikely to) exist. The null hypothesis has been adopted for this investigation.

Quantitative limits on decision errors were not established as the sample plan was not probabilistic.

Statistical analysis will not apply to asbestos and therefore these data will be assessed based on a multiple lines of evidence and risk-based approach.

Data Quality Indicators (DQI) for field and laboratory QA/QC samples are defined in the QA/QC Data Evaluation in the appendices. An assessment of the DQI's was made in relation to precision, accuracy, representativeness, completeness and comparability.

## 6.1.7 Step 7 - Optimise the Design for Obtaining Data

The most resource-effective design will be used in an optimum manner to achieve the investigation objectives and considering the constraints imposed by the client outlined in Section 6.1.1.

For this investigation, the design was optimised via consideration of the various lines of evidence used to select the media being sampled, and also by the way in which the data were collected.

The sampling plan and methodology are outlined in the following sub-sections.

## 6.2 Soil Sampling Plan and Methodology

The soil sampling plan and methodology adopted for this investigation is outlined in the table below:

Table 6-1: Soil Sampling Plan and Methodology

| Aspect   | Input  |
|----------|--|
| Sampling | Samples for were collected from eight boreholes and six test pits locations nominated by the |
| Density  | client, as shown on the attached Figure 2. The sampling plan was not designed to meet the    |
|          | minimum sampling density for hotspot identification, as outlined in the NSW EPA Contaminated |





| Aspect                                  | Input   |
|---|---|
|   | Sites Sampling Design Guidelines (1995) <sup>8</sup> and the Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia (2021) <sup>9</sup> (endorsed in NEPM 2013).   |
| Sampling Plan                           | The sampling locations were placed on a judgemental sampling plan at the locations nominated by the client. The sampling locations were broadly positioned for site coverage, taking into consideration the proposed development details and areas that were not easily accessible. This sampling plan was considered suitable to make a preliminary assessment of potential risks associated with the AEC and CoPC identified in the CSM, and assess whether further investigation is warranted. |
| Set-out and<br>Sampling<br>Equipment    | Sampling locations were set out using a tape measure. In-situ sampling locations were checked for underground services by an external contractor prior to sampling.   |
|   | Samples were collected from borehole locations BH1 to BH8 using a drill rig equipped with spiral flight augers (150mm diameter). Soil samples were obtained from a Standard Penetration Test (SPT) split-spoon sampler or directly from the auger.  |
|   | Samples were collected from testpit locations TP1 to TP6 using an excavator. Samples were obtained from the test pit walls or directly from the bucket by hand. Where sampling occurred from the bucket, JKE collected samples from the central portion of large soil clods, or from material that was unlikely to have come into contact with the bucket.  |
| Sample<br>Collection and<br>Field QA/QC | Soil samples were obtained between 1 and 3 June 2022 in accordance with our standard field procedures. Soil samples were collected from the fill and natural profiles based on field observations. The sample depths are shown on the logs attached in the appendices.  |
|   | Samples were placed in glass jars with plastic caps and teflon seals with minimal headspace. Samples for asbestos analysis were placed in zip-lock plastic bags. During sampling, soil at selected depths was split into primary and duplicate samples for field QA/QC analysis. The field splitting procedure included alternately filling the sampling containers to obtain a representative split sample.  |
| Field<br>Screening                      | A portable Photoionisation Detector (PID) fitted with a 10.6mV lamp was used to screen the samples for the presence of volatile organic compounds (VOCs). PID screening for VOCs was undertaken on soil samples using the soil sample headspace method. VOC data was obtained from partly filled zip-lock plastic bags following equilibration of the headspace gases. PID calibration records are maintained on file by JKE.   |
|   | <ul> <li>The field screening for asbestos quantification included the following:</li> <li>A representative bulk sample was collected from fill at 1m intervals within fill, or from each distinct fill profile. The quantity of material for each sample varied based on whatever return could be achieved using the auger. The bulk sample intervals are shown on the attached borehole/test pit logs;</li> <li>Each sample was weighed using an electronic scale;</li> </ul>                    |

<sup>&</sup>lt;sup>8</sup> NSW EPA, (1995), *Contaminated Sites Sampling Design Guidelines*. (referred to as EPA Sampling Design Guidelines 1995)

<sup>&</sup>lt;sup>9</sup> Western Australian (WA) Department of Health (DoH), (2021). *Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia*. (referred to as WA DoH 2021)





| Aspect                             | Input   |
|------------------------------------|---|
|                                    | <ul> <li>Each bulk sample was passed through a sieve with a 7.1mm aperture and inspected for the presence of fibre cement;</li> <li>The condition of fibre cement or any other suspected asbestos materials was noted on the field records; and</li> <li>If observed, any fragments of fibre cement in the bulk sample were collected, placed in a ziplock bag and assigned a unique identifier. Calculations for asbestos content were undertaken based on the requirements outlined in Schedule B1 of NEPM (2013), as summarised in Section 7.1.</li> </ul> |
| Decontami-<br>nation and<br>Sample | Sampling personnel used disposable nitrile gloves during sampling activities. Re-usable sampling equipment was decontaminated using Decon and potable water.  |
| Preservation                       | Soil samples were preserved by immediate storage in an insulated sample container with ice. On completion of the fieldwork, the samples were stored in eskys and the ice was replenished before being delivered in the insulated sample container to a NATA registered laboratory for analysis under standard chain of custody (COC) procedures.  |

## 6.2.1 Laboratory Analysis

Samples were analysed by an appropriate, NATA Accredited laboratory using the analytical methods detailed in Schedule B(3) of NEPM 2013. Reference should be made to the laboratory reports attached in the appendices for further details.

Table 6-2: Laboratory Details

| Samples  | Laboratory  | Report Reference    |
|--|---|---------------------|
| All primary samples and field QA/QC samples including (intra-laboratory duplicate, trip blank, trip spike and field rinsate samples) | Envirolab Services Pty Ltd NSW, NATA<br>Accreditation Number – 2901 (ISO/IEC<br>17025 compliance) | 297823 and 297823-A |
| Inter-laboratory duplicates  | Envirolab Services Pty Ltd VIC, NATA<br>Accreditation Number – 2901 (ISO/IEC<br>17025 compliance) | 31988               |



## 7 SITE ASSESSMENT CRITERIA (SAC)

The SAC were derived from the NEPM 2013 and other guidelines as discussed in the following sub-sections. The guideline values for individual contaminants are presented in the attached report tables and further explanation of the various criteria adopted is provided in the appendices.

#### **7.1** Soil

Soil data were compared to relevant Tier 1 screening criteria in accordance with NEPM (2013) as outlined below.

#### 7.1.1 Human Health

- Health Investigation Levels (HILs) for a 'public open space, secondary schools and footpaths' exposure scenario (HIL-C). We consider these HILs to be appropriate Tier 1 criteria as the HIL-D (commercial/industrial criteria) do not consider children who are the most sensitive receptors identified in the CSM, HIL-B (residential with limited access to soil) are not protective enough in light of the extent of unpaved areas across the site, and HIL-A (residential with accessible soils) are overly conservative for a hospital land use scenario;
- Health Screening Levels (HSLs) for a 'low-high density residential' exposure scenario (HSL-A & HSL-B).
   We consider these HSLs are appropriate Tier 1 criteria as HSL-C does not adequately consider the presence of buildings and HSL-D is not protective of children who are the most sensitive receptors identified in the CSM. HSLs were calculated based on conservative assumptions including a 'sand' type and a depth interval of 0m to 1m;
- HSLs for direct contact presented in the CRC Care Technical Report No. 10 Health screening levels for hydrocarbons in soil and groundwater Part 1: Technical development document (2011)<sup>10</sup>; and
- Asbestos was assessed against the HSL-C criteria. A summary of the asbestos criteria is provided in the table below:

Table 7-1: Details for Asbestos SAC

| Guideline        | Applicability   |   |  |  |  |
|------------------|---|---|--|--|--|
| Asbestos in Soil | asbestos were derived from the NE Assessment, Remediation and Mana Australia (2021) <sup>11</sup> . The SAC include the  No visible asbestos at the surface  <0.02% w/w bonded asbestos co  <0.001% w/w asbestos fines/fibr | e/in the top 10cm of soil; ontaining material (ACM) in soil; and rous asbestos (AF/FA) in soil. centrations in soil are based on the following equation |  |  |  |
|                  | % w/w asbestos in soil =  | % asbestos content x bonded ACM (kg) Soil volume (L) x soil density (kg/L)  |  |  |  |

<sup>&</sup>lt;sup>10</sup> Cooperative Research Centre for Contamination Assessment and Remediation of the Environment (CRC Care), (2011). Technical Report No. 10 - Health screening levels for hydrocarbons in soil and groundwater Part 1: Technical development document

<sup>&</sup>lt;sup>11</sup> Western Australian (WA) Department of Health (DoH), (2021). *Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia*. (referred to as WA DoH 2021)





| Guideline | Applicability  |  |  |  |
|-----------|--|--|--|--|
|           | However, we are of the opinion that the actual soil volume in a 10L bucket varies considerably due to the presence of voids, particularly when assessing cohesive soils. Therefore, each bucket sample was weighed using electronic scales and the above equation was adjusted as follows (we note that the units have also converted to grams): |  |  |  |
|           | % w/w asbestos in soil = % asbestos content x bonded ACM (g) Soil weight (g)   |  |  |  |

## 7.1.2 Environment (Ecological – terrestrial ecosystems)

- Ecological Investigation Levels (EILs) and Ecological Screening Levels (ESLs) for an 'urban residential and public open space' (URPOS) exposure scenario. These have only been applied to the top 2m of soil as outlined in NEPM (2013). The criterion for benzo(a)pyrene has been increased from the value presented in NEPM (2013) based on the Canadian Soil Quality Guidelines<sup>12</sup>;
- ESLs were adopted based on a 'coarse' soil type as a conservative screening; and
- EILs for selected metals were calculated based on the most conservative added contaminant limit (ACL) values presented in Schedule B(1) of NEPM (2013) and published ambient background concentration (ABC) values presented in the document titled Trace Element Concentrations in Soils from Rural and Urban Areas of Australia (1995)<sup>13</sup>. Additionally, for one representative sample, EILs for selected metals were calculated using site specific soil parameters for pH, cation exchange capacity and clay content. These data were used to select the added contaminant limit (ACL) values presented in Schedule B(1) of NEPM (2013), and published ambient background concentration (ABC) presented in the document titled Trace Element Concentrations in Soils from Rural and Urban Areas of Australia (1995)<sup>14</sup>. This method is considered to be adequate for the Tier 1 screening.

## 7.1.3 Management Limits for Petroleum Hydrocarbons

Management limits for petroleum hydrocarbons (as presented in Schedule B1 of NEPM 2013) were considered.

## 7.1.4 Waste Classification

Data for the waste classification assessment were assessed in accordance with the Waste Classification Guidelines, Part 1: Classifying Waste (2014)<sup>15</sup> as outlined in the following table:

Table 7-2: Waste Categories

| Category                              | Description   |  |  |
|---------------------------------------|---|--|--|
| General Solid Waste (non-putrescible) | • If Specific Contaminant Concentration (SCC) ≤ Contaminant Threshold (CT1) then Toxicity Characteristics Leaching Procedure (TCLP) not needed to classify the soil as general solid waste; and |  |  |

<sup>&</sup>lt;sup>12</sup> Canadian Council of Ministers of the Environment, (1999). Canadian soil quality guidelines for the protection of environmental and human health: Benzo(a)Pyrene (1997) (referred to as the Canadian Soil Quality Guidelines)

<sup>&</sup>lt;sup>15</sup> NSW EPA, (2014). Waste Classification Guidelines, Part 1: Classifying Waste. (referred to as Waste Classification Guidelines 2014)



<sup>&</sup>lt;sup>13</sup> Olszowy, H., Torr, P., and Imray, P., (1995), *Trace Element Concentrations in Soils from Rural and Urban Areas of Australia. Contaminated Sites Monograph Series No. 4*. Department of Human Services and Health, Environment Protection Agency, and South Australian Health Commission

<sup>&</sup>lt;sup>14</sup> Olszowy, H., Torr, P., and Imray, P., (1995), *Trace Element Concentrations in Soils from Rural and Urban Areas of Australia. Contaminated Sites Monograph Series No. 4*. Department of Human Services and Health, Environment Protection Agency, and South Australian Health Commission.



| Category                                    | Description   |
|---|---|
|   | If TCLP ≤ TCLP1 and SCC ≤ SCC1 then treat as general solid waste.   |
| Restricted Solid Waste (non-putrescible)    | <ul> <li>If SCC ≤ CT2 then TCLP not needed to classify the soil as restricted solid waste; and</li> <li>If TCLP ≤ TCLP2 and SCC ≤ SCC2 then treat as restricted solid waste.</li> </ul>   |
| Hazardous Waste                             | <ul> <li>If SCC &gt; CT2 then TCLP not needed to classify the soil as hazardous waste; and</li> <li>If TCLP &gt; TCLP2 and/or SCC &gt; SCC2 then treat as hazardous waste.</li> </ul>   |
| Virgin Excavated Natural<br>Material (VENM) | <ul> <li>Natural material (such as clay, gravel, sand, soil or rock fines) that meet the following:</li> <li>That has been excavated or quarried from areas that are not contaminated with manufactured chemicals, or with process residues, as a result of industrial, commercial mining or agricultural activities;</li> <li>That does not contain sulfidic ores or other waste; and</li> <li>Includes excavated natural material that meets such criteria for virgin excavated natural material as may be approved from time to time by a notice published in the NSW Government Gazette.</li> </ul> |



## 8 RESULTS

## 8.1 Summary of Data (QA/QC) Evaluation

The data evaluation is presented in the appendices. In summary, JKE is of the opinion that the data are adequately precise, accurate, representative, comparable and complete to serve as a basis for interpretation to achieve the investigation objectives.

## 8.2 Subsurface Conditions

A summary of the subsurface conditions encountered during the investigation is presented in the following table. Reference should be made to the borehole and testpit logs attached in the appendices for further details.

Table 8-1: Summary of Subsurface Conditions

| Profile      | Description  |
|--------------|--|
| Pavement     | A concrete pavement approximately 150mm thick was encountered at the surface in borehole BH7. An asphaltic concrete pavement approximately 20mm thick was encountered within the fill at approximately 0.2mBGL in testpit TP5.   |
| Fill         | Fill was encountered at the surface and beneath the pavement in BH7, and extended to depths of between approximately 0.1mBGL (BH6) to 1.6mBGL (BH4). Testpits TP1 to TP5 were terminated in the fill at depths of between approximately 0.3mBGL (TP2) to 1.0mBGL (BH4).                              |
|              | The fill typically comprised silty sand, sandy clay and gravelly clay with inclusions of gravel.  Neither staining nor odours were observed in the fill material during the field work. A FCF (later confirmed to contain asbestos) was encountered in the fill material in test pit TP2 (0.1-0.3m). |
| Natural Soil | Natural silty clay and sandy clay alluvial soils were encountered beneath the fill extended to depths to the termination of the boreholes/testpits and to 4.0mBGL in borehole BH8.  Neither staining nor odours were observed in the natural soils during the field work.                            |
| Bedrock      | Basalt bedrock was encountered beneath the natural soils in borehole BH8 at a depth of approximately 4mBGL.  |
| Groundwater  | Groundwater was encountered in all boreholes except BH8. The groundwater levels recorded ranged from 2.4mBGL (BH2 and BH6) to 3.4mBGL (BH4, BH5 and BH7).  |
|              | Groundwater was not encountered in the testpits.   |

## 8.3 Field Screening

A summary of the field screening results is presented in the following table:

Table 8-2: Summary of Field Screening

| Aspect                | Details  |
|-----------------------|--|
| PID Screening of Soil | PID soil sample headspace readings are presented in attached report tables and the COC |
| Samples for VOCs      | documents attached in the appendices. The results ranged from 0ppm to 3.9ppm           |
|                       | equivalent isobutylene. The sample with the highest PID results (BH1 (1.0-1.45m)) was  |





| Aspect                         | Details  |
|--------------------------------|--|
|                                | analysed for TRH and BTEX. Overall, the PID readings were considered to be low and were consistent with the observations of no staining or hydrocarbon odours in the soils.                                    |
| Bulk Screening for<br>Asbestos | The bulk field screening results are summarised in the attached report Table S5. The asbestos in ACM concentration of 0.0184%w/w in the fill sample TP2 (0.1-0.3m) was below the human health SAC of 0.02%w/w. |
|                                | ACM was not encountered in the remainder of the boreholes/testpits and therefore all other bulk screening results were also below the SAC.   |

## 8.4 Soil Laboratory Results

The soil laboratory results were assessed against the SAC presented in Section 7.1. Individual SAC are shown in the report tables attached in the appendices. A summary of the results is presented below:

## 8.4.1 Human Health and Environmental (Ecological) Assessment

Table 8-3: Summary of Soil Laboratory Results – Human Health and Environmental (Ecological)

| Analyte                              | N  | Max.<br>(mg/kg)                                     | N> Human<br>Health SAC | N> Ecological SAC | Comments  |
|--------------------------------------|----|---|------------------------|-------------------|---|
| Arsenic                              | 14 | <pql< td=""><td>0</td><td>0</td><td>-</td></pql<>   | 0                      | 0                 | -   |
| Cadmium                              | 14 | <pql< td=""><td>0</td><td>NSL</td><td>-</td></pql<> | 0                      | NSL               | -   |
| Chromium<br>(total)                  | 14 | 61  | 0                      | 0                 | -   |
| Copper                               | 14 | 38  | 0                      | 0                 | -   |
| Lead                                 | 14 | 37  | 0                      | 0                 | -   |
| Mercury                              | 14 | 8.4   | 0                      | NSL               | -   |
| Nickel                               | 14 | 90  | 0                      | 1                 | The nickel concentration for the fill sample TP4 (0-0.1m) of 36mg/kg exceeded the calculated ecological SAC of 35mg/kg for that sample. |
| Zinc                                 | 14 | 81  | 0                      | 0                 | -   |
| Total PAHs                           | 14 | 5.5   | 0                      | NSL               | -   |
| Benzo(a)pyrene                       | 14 | 0.55  | NSL                    | 0                 | -   |
| Carcinogenic<br>PAHs<br>(as BaP TEQ) | 14 | 0.8   | 0                      | NSL               | -   |
| Naphthalene                          | 15 | <pql< td=""><td>0</td><td>NSL</td><td>-</td></pql<> | 0                      | NSL               | -   |



| Analyte                      | N  | Max.<br>(mg/kg)                                     | N> Human<br>Health SAC | N> Ecological SAC | Comments   |
|------------------------------|----|---|------------------------|-------------------|--|
| DDT+DDE+DDD                  | 14 | <pql< td=""><td>0</td><td>NSL</td><td>-</td></pql<> | 0                      | NSL               | -  |
| DDT                          | 14 | <pql< td=""><td>NSL</td><td>0</td><td>-</td></pql<> | NSL                    | 0                 | -  |
| Aldrin and dieldrin          | 14 | 1.1   | 0                      | NSL               | -  |
| Chlordane                    | 14 | <pql< td=""><td>0</td><td>NSL</td><td>-</td></pql<> | 0                      | NSL               | -  |
| Heptachlor                   | 14 | <pql< td=""><td>0</td><td>NSL</td><td>-</td></pql<> | 0                      | NSL               | -  |
| Chlorpyrifos<br>(OPP)        | 14 | <pql< td=""><td>0</td><td>NSL</td><td>-</td></pql<> | 0                      | NSL               | -  |
| PCBs                         | 14 | <pql< td=""><td>0</td><td>NSL</td><td>-</td></pql<> | 0                      | NSL               | -  |
| TRH F1                       | 15 | <pql< td=""><td>0</td><td>0</td><td>-</td></pql<>   | 0                      | 0                 | -  |
| TRH F2                       | 15 | <pql< td=""><td>0</td><td>0</td><td>-</td></pql<>   | 0                      | 0                 | -  |
| TRH F3                       | 15 | 170   | 0                      | 0                 | -  |
| TRH F4                       | 15 | 110   | 0                      | 0                 | -  |
| Benzene                      | 15 | <pql< td=""><td>0</td><td>0</td><td>-</td></pql<>   | 0                      | 0                 | -  |
| Toluene                      | 15 | <pql< td=""><td>0</td><td>0</td><td>-</td></pql<>   | 0                      | 0                 | -  |
| Ethylbenzene                 | 15 | <pql< td=""><td>0</td><td>0</td><td>-</td></pql<>   | 0                      | 0                 | -  |
| Xylenes                      | 15 | <pql< td=""><td>0</td><td>0</td><td>-</td></pql<>   | 0                      | 0                 | -  |
| Asbestos (in<br>soil) (%w/w) | 14 | <0.01%<br>w/w                                       | 0                      | NA                | Asbestos was not detected in the soil samples analysed at the laboratory.                    |
| Asbestos in fibre cement     | 1  | NA  | NA                     | NA                | Asbestos was detected in the FCF that was identified in TP2 in the fill between 0.1-0.3mBGL. |

## Notes:

N: Total number (primary samples)

NSL: No set limit NL: Not limiting



## 8.4.2 Waste Classification Assessment

The laboratory results were assessed against the criteria presented in Section 7.1.4. The results are presented in the report tables attached in the appendices. A summary of the results is presented in the following table:

Table 8-4: Summary of Soil Laboratory Results Compared to CT and SCC Criteria

| Analyte                                 | N  | N > CT Criteria | N > SCC Criteria | Comments  |
|---|----|-----------------|------------------|---|
| Arsenic                                 | 14 | 0               | 0                | -   |
| Cadmium                                 | 14 | 0               | 0                | -   |
| Chromium                                | 14 | 0               | 0                | -   |
| Copper                                  | 14 | NSL             | NSL              | -   |
| Lead                                    | 14 | 0               | 0                | -   |
| Mercury                                 | 14 | 1               | 0                | The mercury concentration of 8.4mg/kg for the fill sample BH5 (0-0.1m) exceeded the CT1 Criterion of 4mg/kg.  |
| Nickel                                  | 14 | 1               | 0                | The nickel concentration of 90mg/kg for the fill sample BH7 (0.15-0.3m) exceeded the CT1 Criterion of 40mg/kg.  |
| Zinc                                    | 14 | NSL             | NSL              | -   |
| TRH (C <sub>6</sub> -C <sub>9</sub> )   | 15 | 0               | 0                | -   |
| TRH (C <sub>10</sub> -C <sub>36</sub> ) | 15 | 0               | 0                | -   |
| ВТЕХ                                    | 15 | 0               | 0                | -   |
| Total PAHs                              | 15 | 0               | 0                | -   |
| Benzo(a)pyrene                          | 15 | 0               | 0                | -   |
| OCPs & OPPs                             | 15 | 0               | 0                | -   |
| PCBs                                    | 15 | 0               | 0                | -   |
| Asbestos                                | 14 | -               | -                | Asbestos was not detected in the soil samples analysed. Asbestos was detected in the FCF collected from the fill material in TP2 (sample ref: FCF1-TP2 (0.1-0.3m)). |

N: Total number (primary samples)

NSL: No set limit



Table 8-5: Summary of Soil Laboratory Results Compared to TCLP Criteria

| Analyte | N | N > TCLP<br>Criteria | Comments   |
|---------|---|----------------------|--|
| Mercury | 1 | 0                    | The fill sample BH5 (0-0.1m) was analysed for TCLP mercury. The result was below the TCLP criterion.   |
| Nickel  | 1 | 0                    | The fill sample BH7 (0.15-0.3m) was analysed for TCLP nickel. The result was below the TCLP criterion. |

N: Total number (primary samples)



## 9 PRELIMIANRY WASTE CLASSIFICATION ASSESSMENT

Based on the results of the preliminary waste classification assessment, and at the time of reporting, the fill material in the vicinity of TP2 is classified as **General Solid Waste (non-putrescible) containing Special Waste (asbestos)**. The remainder of the fill material may be classified as **General Solid Waste (non-putrescible)** subject to further sampling and analysis.

Based on the scope of work undertaken for this assessment there is insufficient data to confirm the natural soil and bedrock at the site meets the definition of **VENM** for off-site disposal or re-use purposes. However, considering the predominantly low contaminant concentrations in the fill, it would not be unreasonable to expect that a VENM classification will be achievable.

Further sampling and analysis are required to further assess and confirm the waste classification prior to offsite disposal of surplus fill.



#### 10 DISCUSSION

## 10.1 Contamination Sources/AEC and Potential for Site Contamination

Based on the scope of work undertaken for this investigation, JKE identified the following potential contamination sources/AEC:

- Fill material;
- Use of pesticides;
- Hazardous building materials;
- Electrical transformer;
- Diesel generator; and
- Incinerator.

Considering the above, and based on a qualitative assessment of various lines of evidence as discussed throughout this report, JKE is of the opinion that there is a potential for site contamination. The preliminary soil data collected for the investigation is discussed further in the following subsection, as part of the Tier 1 risk assessment.

## 10.2 Tier 1 Risk Assessment and Review of CSM

For a contaminant to represent a risk to a receptor, the following three conditions must be present:

- Source The presence of a contaminant;
- 2. Pathway A mechanism or action by which a receptor can become exposed to the contaminant; and
- 3. Receptor The human or ecological entity which may be adversely impacted following exposure to contamination.

If one of the above components is missing, the potential for adverse risks is relatively low.

#### 10.2.1 Asbestos and Human Health Risks

The asbestos in ACM concentration in the fill profile from testpit TP2 (0.1-0.3m) was below the human health SAC. The ACM was not at the surface, therefore there is currently no apparent complete SPR linkage at this location whilst the soil remains undisturbed.

The source of asbestos could be associated with imported fill material or historical onsite building demolition activities. There is a potential for further ACM within the fill. The extent of ACM contamination potential risk and SPR-linkage to human receptors requires further assessment.

Based on the PSI results, the asbestos is considered to be bonded (non-friable) based on the definitions in NEPM 2013.

## 10.2.2 Heavy metals and Ecological Risks

The nickel concentration encountered in the fill soil sample TP4 (0-0.1m) was marginally above the ecological SAC. The nickel result above the ecological SAC is shown on Figure 3 attached in the appendices.





The source of nickel is considered to be associated with the historically imported fill material.

JKE consider that the risk posed by nickel to ecological receptors is negligible considering that the nickel concentration was only 1mg/kg above the SAC, the SAC for the TP4 sample was very conservative and would almost certainly increase significantly after adjusting for physiochemical properties (i.e. CEC).

## 10.2.3 Consideration of other CoPC and the AEC

In relation to the identified AEC and CoPC, and in review of the CSM, we note that:

- Fill was identified at most locations, confirming this as a potential source of contamination;
- The fill was found to contain bonded ACM at one location (possible from imported fill, or from hazardous building materials associated with historical building/demolition) and marginally elevated concentrations of heavy metals;
- Traces of pesticides were detected in one sample, confirming the use of pesticides as a potential source of contamination;
- Volatile hydrocarbons were not detected; and
- The potential point sources of contamination (electrical transformer, diesel generator and incinerator) were not investigated under the scope of the intrusive investigation.

#### 10.3 Decision Statements

The decision statements are addressed below:

Did the site inspection, or does the historical information identify potential contamination sources/AEC at the site?

Yes, as documented in the CSM.

Are any results above the SAC?

Yes, nickel was encountered within the in the fill sample TP4 (0-0.1m) at concentrations marginally above the ecological SAC.

Do potential risks associated with contamination exist, and if so, what are they?

Potential risks were identified in relation to asbestos in soil, together with potential risks associated with the identified sources of contamination and CoPC. These risks require further assessment.



*Is remediation required?* 

The PSI did not identify an immediate trigger for remediation. However, further investigation is required to address the data gaps identified in Section 10.4.

Is the site characterisation sufficient to provide adequate confidence in the above decisions?

No. A Detailed Site Investigation (DSI) should be undertaken to address the relevant data gaps identified in Section 10.4.

Is the site suitable for the proposed development, or can the site be made suitable subject to further characterisation and/or remediation?

JKE is of the opinion that the site can be made suitable for the proposed developed. A DSI will be required to establish whether remediation is necessary. Based on the preliminary data, contamination issues at the site (if found during the DSI process) would be expected to be typical of this type of site with the associated historical land use. On this basis, we consider that the site could be made suitable via relatively straightforward remediation processes such as 'excavation/disposal' and 'cap and contain', should remediation be required.

## 10.4 Data Gaps

An assessment of data gaps is provided in the following table:

Table 10-1: Data Gap Assessment

| Data Gap  | Assessment  |
|---|---|
| Soil sampling density below minimum guideline density | The PSI soil sampling at the site was limited to approximately 33% of the minimum sampling density recommended in the EPA Sampling Design Guidelines 1995 and sampling did not occur via a probabilistic sampling plan. The PSI identified asbestos (ACM) within fill at TP2. Additionally, the vertical extent of fill was not fully assessed in some of the testpits as the pits were terminated in fill. In accordance with Table 4 of the WA DoH (2021) guidelines, further assessment should be undertaken at a density to meet the "Likely" or "known" likelihoods of asbestos in soil. The above should be addressed by a DSI. |
| Potential for groundwater contamination               | Based on the site history and the results reported, the potential for groundwater contamination to pose a risk to the receptors is considered to be relatively low. However, the potential for groundwater contamination cannot be discounted and should be assessed under the scope of the DSI.  |
| Hazardous building materials                          | There is a potential for hazardous building materials in the existing buildings. JKE has been engaged by the client to undertake a hazardous building materials (HAZMAT) survey at the site. Removal of hazardous building materials must be undertaken by suitably licensed contractors and in accordance with the relevant standards.   |



#### 11 CONCLUSIONS AND RECOMMENDATIONS

The investigation included a review of historical information and sampling from eight boreholes and six testpits. The AEC include:

- Fill material;
- Use of pesticides;
- Hazardous building materials;
- Electrical transformer;
- Diesel generator; and
- Incinerator.

The PSI identified fill at most locations. A marginally elevated concentration of nickel was encountered above the ecological criterion in one sample and asbestos (as bonded ACM) was found in the subsurface soil in another sample. The asbestos concentration was marginally below the SAC.

Based on the findings of the investigation, JKE is of the opinion that the site can be made suitable for the proposed development described in Section 1.1. A DSI will be required to establish whether remediation is necessary. Based on the preliminary data, contamination issues at the site (if found during the DSI process) would be expected to be typical of this type of site with the associated historical land use. On this basis, we consider that the site could be made suitable via relatively straight-forward remediation processes such as 'excavation/disposal' and 'cap and contain', should remediation be required.

We recommend the following:

- Undertake DSI to address the data gaps identified in Section 10.4. The extent of 'the site' for the DSI should be confirmed by the client as it is noted that not all areas of the hospital are being redeveloped.
   In our view, it would be reasonable to limit the DSI to broadly capture the proposed development footprint; and
- Prepare and implement an Asbestos Management Plan (AMP) for asbestos in soil.

If the DSI identifies a need for remediation, a Remediation Action Plan (RAP) will be required and the site will need to be remediated and validated to confirm site suitability.

At this stage, JKE consider that there is no requirement to report any site contamination to the NSW EPA under the NSW EPA Guidelines on the Duty to Report Contamination under Section 60 of the CLM Act 1997 (2015)<sup>16</sup>, provided that the recommendations provided above are implemented.

JKE consider that the report objectives outlined in Section 1.1 have been addressed.

<sup>&</sup>lt;sup>16</sup> NSW EPA, (2015). *Guidelines on the Duty to Report Contamination under Section 60 of the CLM Act 1997* (referred to as Duty to Report Contamination)





#### 12 LIMITATIONS

The report limitations are outlined below:

- JKE accepts no responsibility for any unidentified contamination issues at the site. Any unexpected problems/subsurface features that may be encountered during development works should be inspected by an environmental consultant as soon as possible;
- Previous use of this site may have involved excavation for the foundations of buildings, services, and similar facilities. In addition, unrecorded excavation and burial of material may have occurred on the site. Backfilling of excavations could have been undertaken with potentially contaminated material that may be discovered in discrete, isolated locations across the site during construction work;
- This report has been prepared based on site conditions which existed at the time of the investigation; scope of work and limitation outlined in the JKE proposal; and terms of contract between JKE and the client (as applicable);
- The conclusions presented in this report are based on investigation of conditions at specific locations, chosen to be as representative as possible under the given circumstances, visual observations of the site and immediate surrounds and documents reviewed as described in the report;
- Subsurface soil and rock conditions encountered between investigation locations may be found to be different from those expected. Groundwater conditions may also vary, especially after climatic changes;
- The investigation and preparation of this report have been undertaken in accordance with accepted
  practice for environmental consultants, with reference to applicable environmental regulatory
  authority and industry standards, guidelines and the assessment criteria outlined in the report;
- Where information has been provided by third parties, JKE has not undertaken any verification process, except where specifically stated in the report;
- JKE has not undertaken any assessment of off-site areas that may be potential contamination sources or may have been impacted by site contamination, except where specifically stated in the report;
- JKE accept no responsibility for potentially asbestos containing materials that may exist at the site.
   These materials may be associated with demolition of pre-1990 constructed buildings or fill material at the site;
- JKE have not and will not make any determination regarding finances associated with the site;
- Additional investigation work may be required in the event of changes to the proposed development or landuse. JKE should be contacted immediately in such circumstances;
- Material considered to be suitable from a geotechnical point of view may be unsatisfactory from a soil contamination viewpoint, and vice versa; and
- This report has been prepared for the particular project described and no responsibility is accepted for the use of any part of this report in any other context or for any other purpose.



## **Important Information About This Report**

These notes have been prepared by JKE to assist with the assessment and interpretation of this report.

#### The Report is based on a Unique Set of Project Specific Factors

This report has been prepared in response to specific project requirements as stated in the JKE proposal document which may have been limited by instructions from the client. This report should be reviewed, and if necessary, revised if any of the following occur:

- The proposed land use is altered;
- The defined subject site is increased or sub-divided;
- The proposed development details including size, configuration, location, orientation of the structures or landscaped areas are modified;
- The proposed development levels are altered, eg addition of basement levels; or
- Ownership of the site changes.

JKE will not accept any responsibility whatsoever for situations where one or more of the above factors have changed since completion of the investigation. If the subject site is sold, ownership of the investigation report should be transferred by JKE to the new site owners who will be informed of the conditions and limitations under which the investigation was undertaken. No person should apply an investigation for any purpose other than that originally intended without first conferring with the consultant.

#### **Changes in Subsurface Conditions**

Subsurface conditions are influenced by natural geological and hydrogeological process and human activities. Groundwater conditions are likely to vary over time with changes in climatic conditions and human activities within the catchment (e.g. water extraction for irrigation or industrial uses, subsurface waste water disposal, construction related dewatering). Soil and groundwater contaminant concentrations may also vary over time through contaminant migration, natural attenuation of organic contaminants, ongoing contaminating activities and placement or removal of fill material. The conclusions of an investigation report may have been affected by the above factors if a significant period of time has elapsed prior to commencement of the proposed development.

#### This Report is based on Professional Interpretations of Factual Data

Site investigations identify actual subsurface conditions at the actual sampling locations at the time of the investigation. Data obtained from the sampling and subsequent laboratory analyses, available site history information and published regional information is interpreted by geologists, engineers or environmental scientists and opinions are drawn about the overall subsurface conditions, the nature and extent of contamination, the likely impact on the proposed development and appropriate remediation measures.

Actual conditions may differ from those inferred, because no professional, no matter how qualified, and no subsurface exploration program, no matter how comprehensive, can reveal what is hidden by earth, rock and time. The actual interface between materials may be far more gradual or abrupt than an investigation indicates. Actual conditions in areas not sampled may differ from predictions. Nothing can be done to prevent the unanticipated, but steps can be taken to help minimise the impact. For this reason, site owners should retain the services of their consultants throughout the development stage of the project, to identify variances, conduct additional tests which may be needed, and to recommend solutions to problems encountered on site.

## **Investigation Limitations**

Although information provided by a site investigation can reduce exposure to the risk of the presence of contamination, no environmental site investigation can eliminate the risk. Even a rigorous professional investigation may not detect all contamination on a site. Contaminants may be present in areas that were not surveyed or sampled, or may migrate to areas which showed no signs of contamination when sampled. Contaminant analysis cannot possibly cover every type of contaminant which may occur; only the most likely contaminants are screened.





#### Misinterpretation of Site Investigations by Design Professionals

Costly problems can occur when other design professionals develop plans based on misinterpretation of an investigation report. To minimise problems associated with misinterpretations, the environmental consultant should be retained to work with appropriate professionals to explain relevant findings and to review the adequacy of plans and specifications relevant to contamination issues.

#### Logs Should not be Separated from the Investigation Report

Borehole and test pit logs are prepared by environmental scientists, engineers or geologists based upon interpretation of field conditions and laboratory evaluation of field samples. Logs are normally provided in our reports and these should not be re-drawn for inclusion in site remediation or other design drawings, as subtle but significant drafting errors or omissions may occur in the transfer process. Photographic reproduction can eliminate this problem, however contractors can still misinterpret the logs during bid preparation if separated from the text of the investigation. If this occurs, delays, disputes and unanticipated costs may result. In all cases it is necessary to refer to the rest of the report to obtain a proper understanding of the investigation. Please note that logs with the 'Environmental Log' header are not suitable for geotechnical purposes as they have not been peer reviewed by a Senior Geotechnical Engineer.

To reduce the likelihood of borehole and test pit log misinterpretation, the complete investigation should be available to persons or organisations involved in the project, such as contractors, for their use. Denial of such access and disclaiming responsibility for the accuracy of subsurface information does not insulate an owner from the attendant liability. It is critical that the site owner provides all available site information to persons and organisations such as contractors.

## **Read Responsibility Clauses Closely**

Because an environmental site investigation is based extensively on judgement and opinion, it is necessarily less exact than other disciplines. This situation has resulted in wholly unwarranted claims being lodged against consultants. To help prevent this problem, model clauses have been developed for use in written transmittals. These are definitive clauses designed to indicate consultant responsibility. Their use helps all parties involved recognise individual responsibilities and formulate appropriate action. Some of these definitive clauses are likely to appear in the environmental site investigation, and you are encouraged to read them closely. Your consultant will be pleased to give full and frank answers to any questions.



**Appendix A: Report Figures** 



AERIAL IMAGE SOURCE: MAPS.AU.NEARMAP.COM

This plan should be read in conjunction with the Environmental report.

SITE LOCATION PLAN

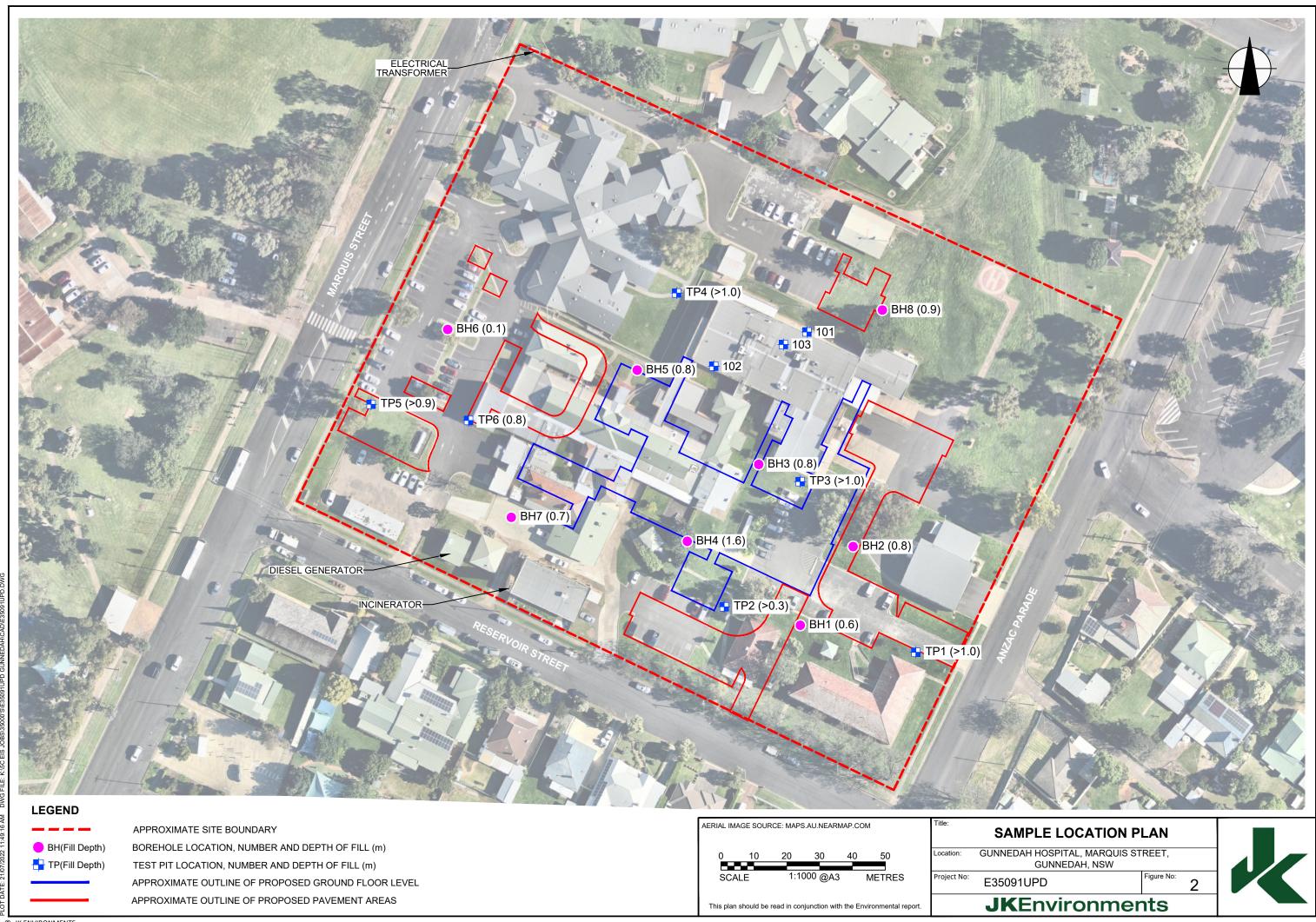
Location: GUNNEDAH HOSPITAL, MARQUIS STREET, GUNNEDAH, NSW

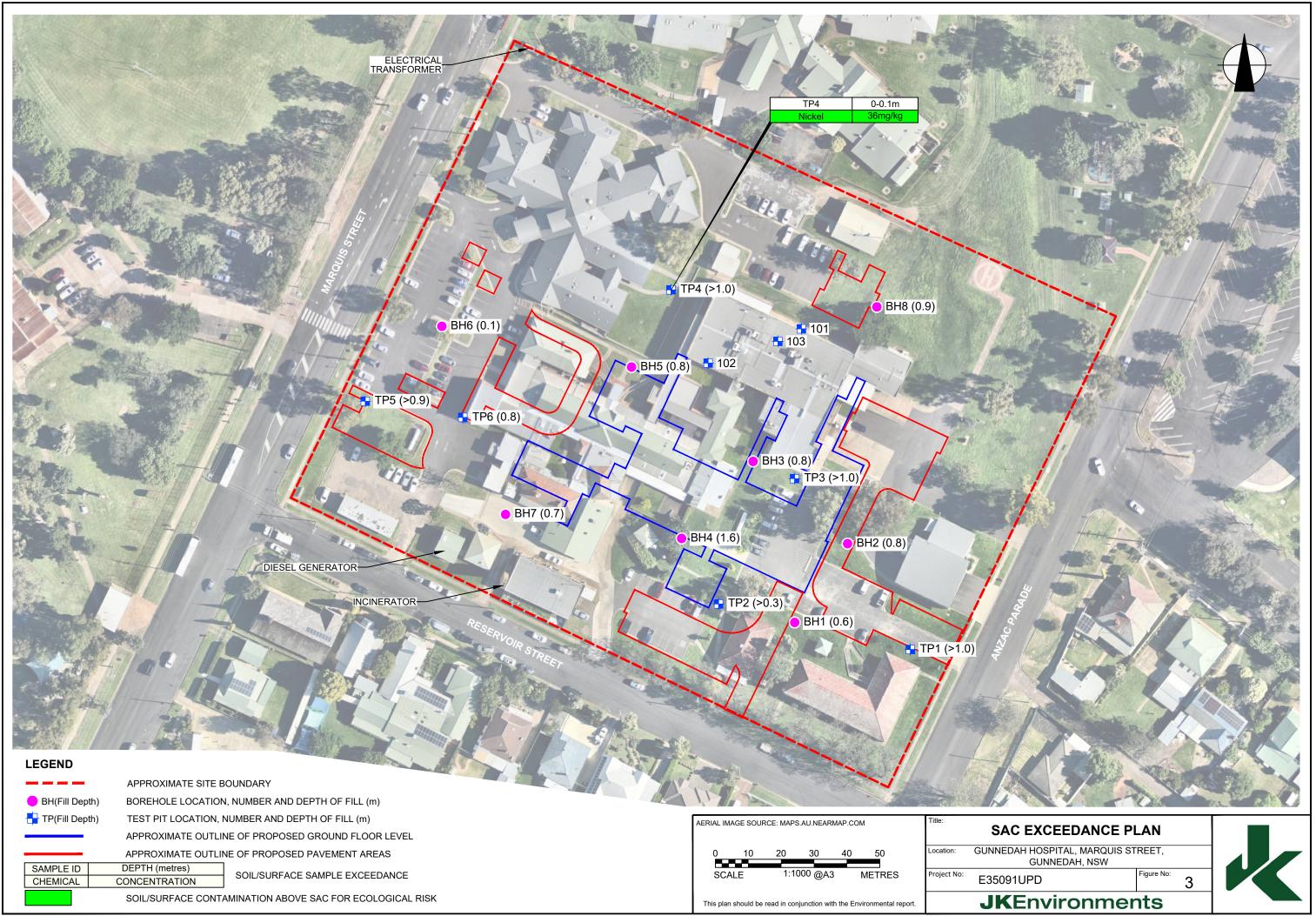
Project No: E35091UPD

**JK**Environments

Figure No:





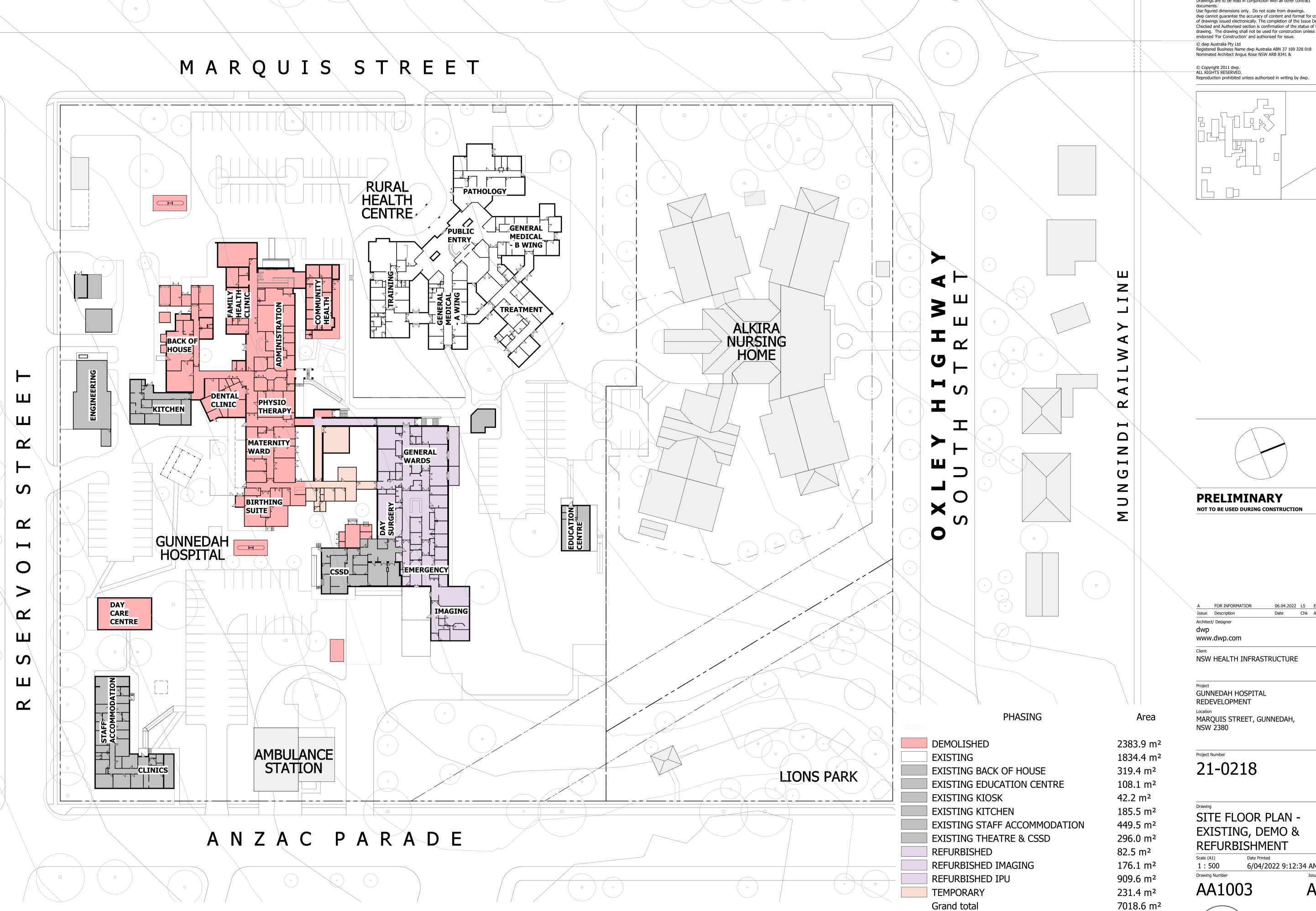




**Appendix B: Site Information and Site History** 



**Proposed Development Plans** 

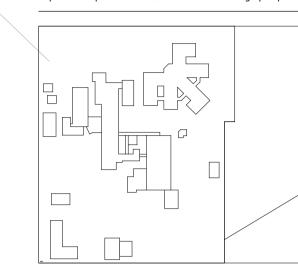


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Verify all dimensions and levels on site and report any discrepancies to dwp for direction prior to the commencement of work. Drawings are to be read in conjunction with all other contract

documents.
Use figured dimensions only. Do not scale from drawings.
dwp cannot guarantee the accuracy of content and format for copies of drawings issued electronically. The completion of the Issue Details Checked and Authorised section is confirmation of the status of the drawing. The drawing shall not be used for construction unless endorsed 'For Construction' and authorised for issue.

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**PRELIMINARY** 

FOR INFORMATION 06.04.2022 LS EC Date Chk Auth

www.dwp.com

NSW HEALTH INFRASTRUCTURE

GUNNEDAH HOSPITAL REDEVELOPMENT

MARQUIS STREET, GUNNEDAH, NSW 2380

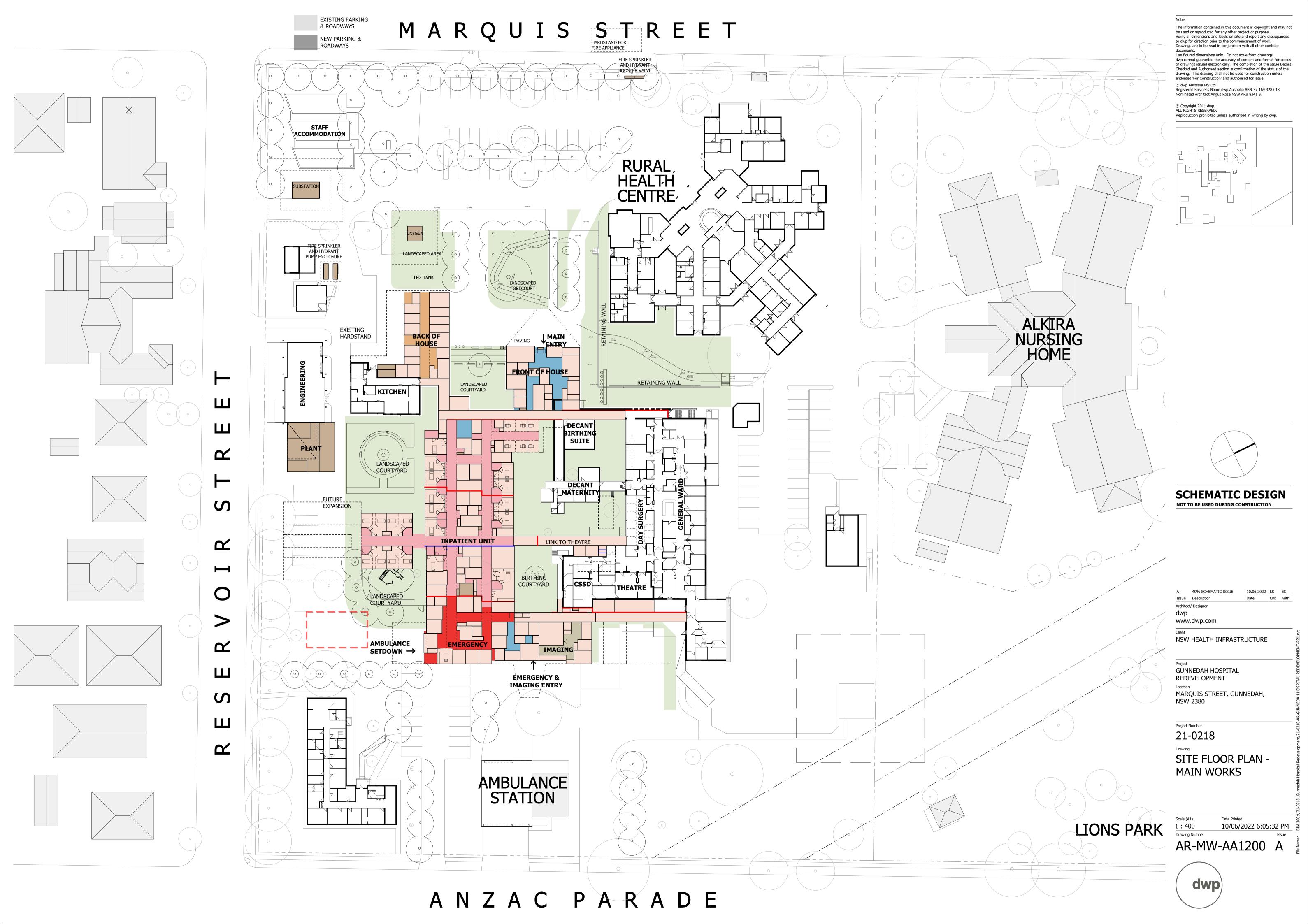
SITE FLOOR PLAN -EXISTING, DEMO & REFURBISHMENT

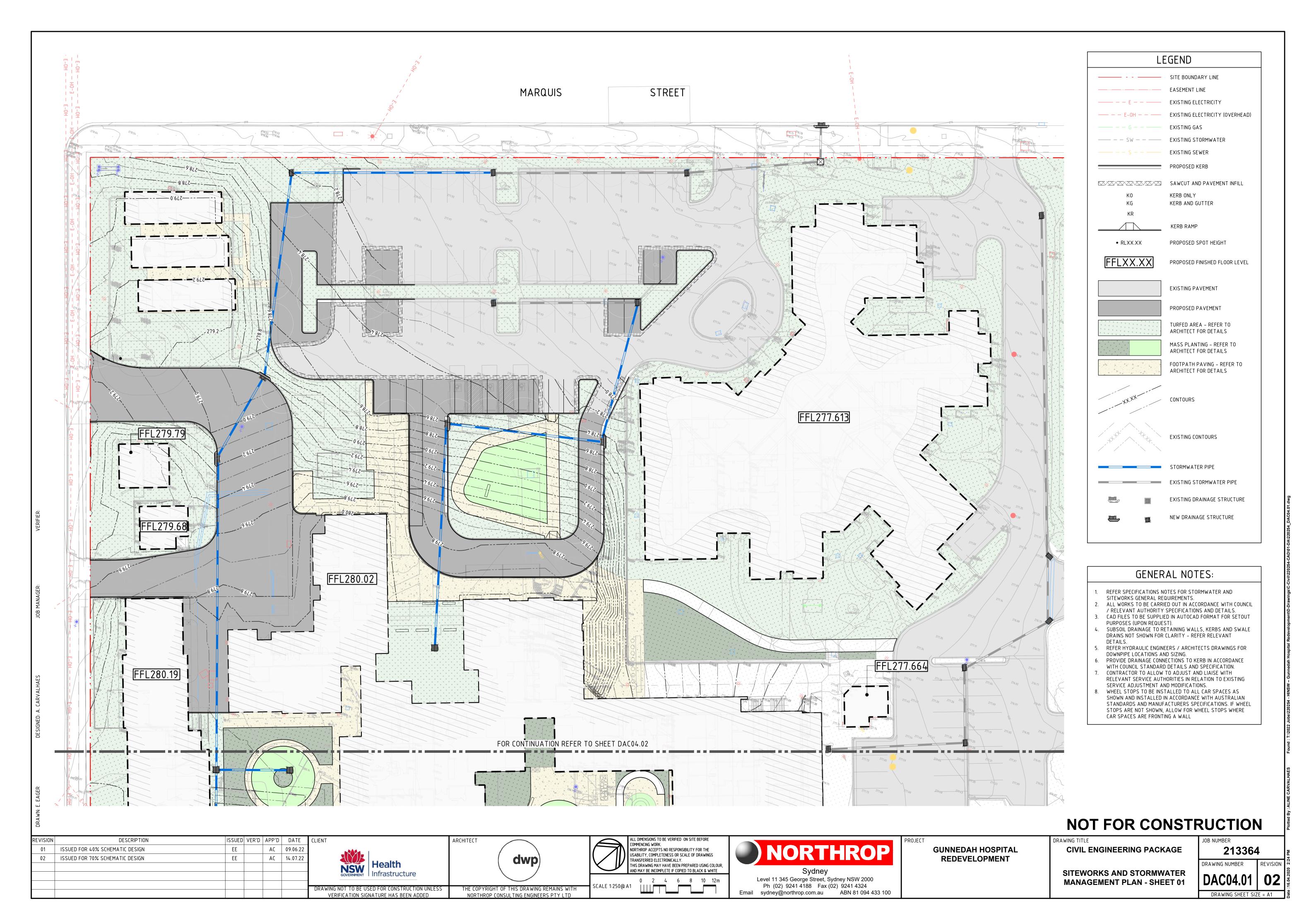
6/04/2022 9:12:34 AM

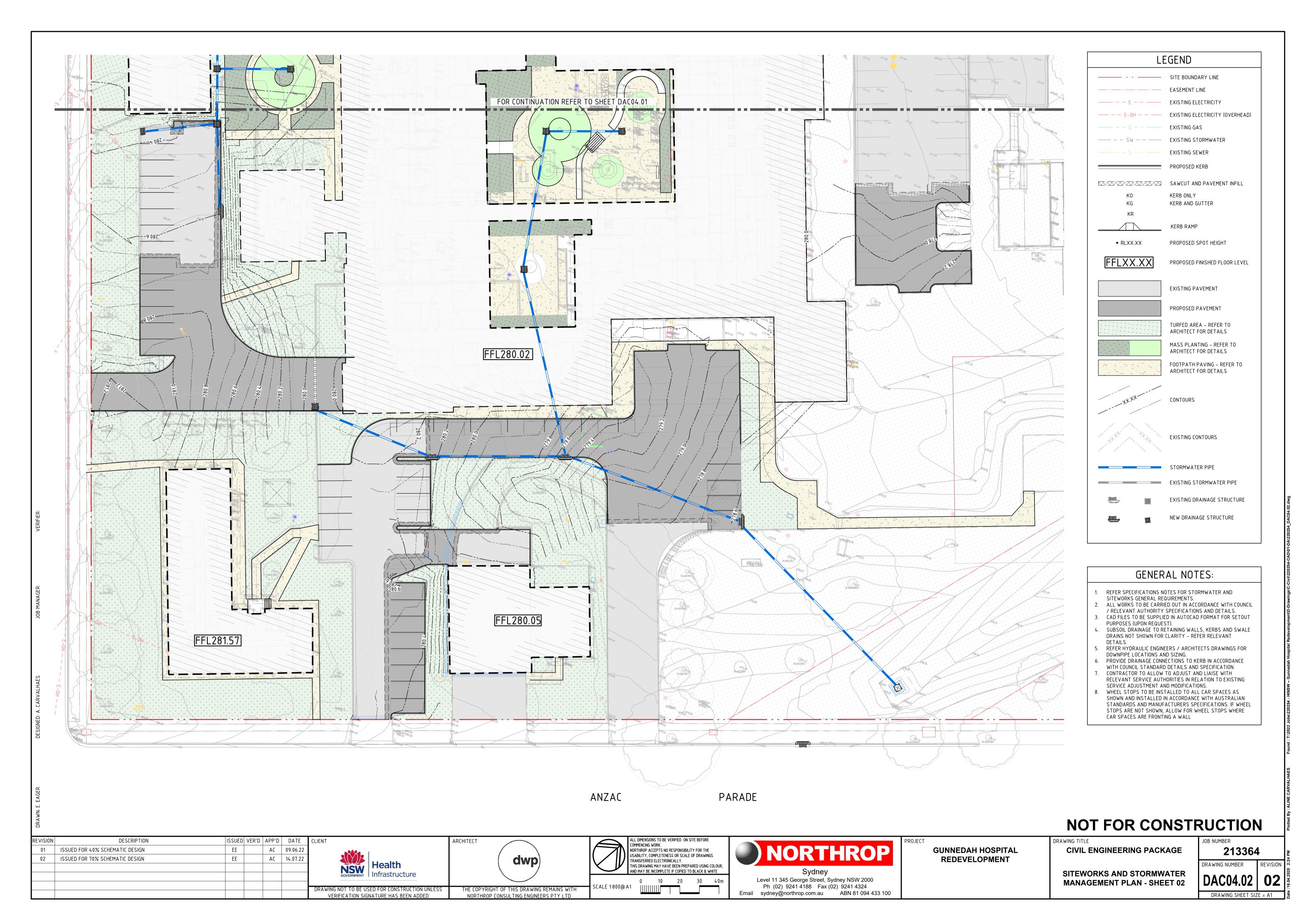
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**Lotsearch Environmental Risk and Planning Report** 



Date: 19 May 2022 15:09:29

Reference: LS032436 EP

Address: 10-24 Anzac Parade, Gunnedah, NSW 2380

#### Disclaimer:

The purpose of this report is to provide an overview of some of the site history, environmental risk and planning information available, affecting an individual address or geographical area in which the property is located. It is not a substitute for an on-site inspection or review of other available reports and records. It is not intended to be, and should not be taken to be, a rating or assessment of the desirability or market value of the property or its features. You should obtain independent advice before you make any decision based on the information within the report. The detailed terms applicable to use of this report are set out at the end of this report.

# **Dataset Listing**

Datasets contained within this report, detailing their source and data currency:

| Dataset Name  | Custodian  | Supply<br>Date | Currency<br>Date | Update<br>Frequency | Dataset<br>Buffer<br>(m) |   | No.<br>Features<br>within<br>100m | No.<br>Features<br>within<br>Buffer |
|---|--|----------------|------------------|---------------------|--------------------------|---|-----------------------------------|-------------------------------------|
| Cadastre Boundaries   | NSW Department of Customer<br>Service - Spatial Services | 06/04/2022     | 06/04/2022       | Quarterly           | -                        | - | -                                 | -                                   |
| Topographic Data  | NSW Department of Customer<br>Service - Spatial Services | 25/06/2019     | 25/06/2019       | Annually            | -                        | - | -                                 | -                                   |
| List of NSW contaminated sites notified to EPA  | Environment Protection Authority                         | 19/04/2022     | 11/04/2022       | Monthly             | 1000m                    | 0 | 0                                 | 9                                   |
| Contaminated Land Records of Notice   | Environment Protection Authority                         | 10/05/2022     | 10/05/2022       | Monthly             | 1000m                    | 0 | 0                                 | 4                                   |
| Former Gasworks   | Environment Protection Authority                         | 02/03/2022     | 14/07/2021       | Quarterly           | 1000m                    | 0 | 0                                 | 0                                   |
| National Waste Management Facilities Database   | Geoscience Australia                                     | 12/05/2021     | 07/03/2017       | Annually            | 1000m                    | 0 | 0                                 | 0                                   |
| National Liquid Fuel Facilities   | Geoscience Australia                                     | 15/02/2021     | 13/07/2012       | Annually            | 1000m                    | 0 | 0                                 | 3                                   |
| EPA PFAS Investigation Program  | Environment Protection Authority                         | 03/05/2022     | 14/07/2021       | Monthly             | 2000m                    | 0 | 0                                 | 0                                   |
| Defence PFAS Investigation & Management Program - Investigation Sites                                       | Department of Defence                                    | 11/05/2022     | 11/05/2022       | Monthly             | 2000m                    | 0 | 0                                 | 0                                   |
| Defence PFAS Investigation &<br>Management Program - Management<br>Sites                                    | Department of Defence                                    | 11/05/2022     | 11/05/2022       | Monthly             | 2000m                    | 0 | 0                                 | 0                                   |
| Airservices Australia National PFAS<br>Management Program   | Airservices Australia                                    | 11/05/2022     | 11/05/2022       | Monthly             | 2000m                    | 0 | 0                                 | 0                                   |
| Defence 3 Year Regional Contamination Investigation Program   | Department of Defence                                    | 03/03/2022     | 03/03/2022       | Quarterly           | 2000m                    | 0 | 0                                 | 0                                   |
| EPA Other Sites with Contamination Issues   | Environment Protection Authority                         | 16/02/2022     | 13/12/2018       | Annually            | 1000m                    | 0 | 0                                 | 0                                   |
| Licensed Activities under the POEO Act 1997   | Environment Protection Authority                         | 10/05/2022     | 10/05/2022       | Monthly             | 1000m                    | 0 | 0                                 | 2                                   |
| Delicensed POEO Activities still regulated by the EPA   | Environment Protection Authority                         | 10/05/2022     | 10/05/2022       | Monthly             | 1000m                    | 1 | 1                                 | 1                                   |
| Former POEO Licensed Activities now revoked or surrendered  | Environment Protection Authority                         | 10/05/2022     | 10/05/2022       | Monthly             | 1000m                    | 0 | 3                                 | 3                                   |
| UBD Business Directories (Premise & Intersection Matches)   | Hardie Grant   |                |                  | Not required        | 150m                     | 5 | 21                                | 24                                  |
| UBD Business Directories (Road & Area Matches)  | Hardie Grant   |                |                  | Not required        | 150m                     | - | 56                                | 69                                  |
| UBD Business Directory Dry Cleaners<br>& Motor Garages/Service Stations<br>(Premise & Intersection Matches) | Hardie Grant   |                |                  | Not<br>required     | 500m                     | 0 | 0                                 | 18                                  |
| UBD Business Directory Dry Cleaners<br>& Motor Garages/Service Stations<br>(Road & Area Matches)            | Hardie Grant   |                |                  | Not required        | 500m                     | - | 2                                 | 13                                  |
| Points of Interest  | NSW Department of Customer<br>Service - Spatial Services | 19/08/2021     | 19/08/2021       | Quarterly           | 1000m                    | 1 | 7                                 | 59                                  |
| Tanks (Areas)   | NSW Department of Customer<br>Service - Spatial Services | 19/08/2021     | 19/08/2021       | Quarterly           | 1000m                    | 0 | 0                                 | 0                                   |
| Tanks (Points)  | NSW Department of Customer<br>Service - Spatial Services | 19/08/2021     | 19/08/2021       | Quarterly           | 1000m                    | 0 | 0                                 | 1                                   |
| Major Easements   | NSW Department of Customer<br>Service - Spatial Services | 19/08/2021     | 19/08/2021       | Quarterly           | 1000m                    | 0 | 0                                 | 1                                   |
| State Forest  | Forestry Corporation of NSW                              | 25/02/2021     | 14/02/2021       | Annually            | 1000m                    | 0 | 0                                 | 0                                   |
| NSW National Parks and Wildlife<br>Service Reserves   | NSW Office of Environment & Heritage                     | 10/02/2022     | 31/12/2021       | Annually            | 1000m                    | 0 | 0                                 | 0                                   |
| Hydrogeology Map of Australia   | Commonwealth of Australia (Geoscience Australia)         | 08/10/2014     | 17/03/2000       | Annually            | 1000m                    | 1 | 1                                 | 1                                   |
| Temporary Water Restriction (Botany<br>Sands Groundwater Source) Order<br>2018                              | NSW Department of Planning,<br>Industry and Environment  | 28/03/2022     | 23/02/2018       | Annually            | 1000m                    | 0 | 0                                 | 0                                   |
| National Groundwater Information<br>System (NGIS) Boreholes   | Bureau of Meteorology; Water NSW                         | 24/01/2022     | 24/01/2022       | Annually            | 2000m                    | 0 | 7                                 | 197                                 |

| Dataset Name  | Custodian   | Supply<br>Date | Currency<br>Date | Update<br>Frequency | Dataset<br>Buffer<br>(m) | No.<br>Features<br>On-site | No.<br>Features<br>within<br>100m | No.<br>Features<br>within<br>Buffer |
|---|---|----------------|------------------|---------------------|--------------------------|----------------------------|-----------------------------------|-------------------------------------|
| NSW Seamless Geology Single Layer: Rock Units                               | Department of Regional NSW  | 17/02/2022     | 01/05/2021       | Annually            | 1000m                    | 1                          | 3                                 | 7                                   |
| NSW Seamless Geology – Single<br>Layer: Trendlines                          | Department of Regional NSW  | 17/02/2022     | 01/05/2021       | Annually            | 1000m                    | 0                          | 0                                 | 0                                   |
| NSW Seamless Geology – Single<br>Layer: Geological Boundaries and<br>Faults | Department of Regional NSW  | 17/02/2022     | 01/05/2021       | Annually            | 1000m                    | 0                          | 0                                 | 0                                   |
| Naturally Occurring Asbestos Potential                                      | NSW Dept. of Industry, Resources & Energy   | 04/12/2015     | 24/09/2015       | Unknown             | 1000m                    | 0                          | 0                                 | 0                                   |
| Atlas of Australian Soils   | Australian Bureau of Agriculture and<br>Resource Economics and Sciences<br>(ABARES) | 19/05/2017     | 17/02/2011       | As required         | 1000m                    | 1                          | 1                                 | 2                                   |
| Environmental Planning Instrument<br>Acid Sulfate Soils                     | NSW Department of Planning, Industry and Environment                                | 06/04/2022     | 18/02/2022       | Monthly             | 500m                     | 0                          | -                                 | -                                   |
| Atlas of Australian Acid Sulfate Soils                                      | CSIRO   | 19/01/2017     | 21/02/2013       | As required         | 1000m                    | 1                          | 1                                 | 1                                   |
| Dryland Salinity - National Assessment                                      | National Land and Water Resources<br>Audit  | 18/07/2014     | 12/05/2013       | None<br>planned     | 1000m                    | 0                          | 1                                 | 1                                   |
| Mining Subsidence Districts   | NSW Department of Customer<br>Service - Subsidence Advisory NSW                     | 19/08/2021     | 05/08/2021       | Quarterly           | 1000m                    | 0                          | 0                                 | 0                                   |
| Current Mining Titles   | NSW Department of Industry  | 20/04/2022     | 20/04/2022       | Monthly             | 1000m                    | 0                          | 0                                 | 0                                   |
| Mining Title Applications   | NSW Department of Industry  | 20/04/2022     | 20/04/2022       | Monthly             | 1000m                    | 0                          | 0                                 | 0                                   |
| Historic Mining Titles  | NSW Department of Industry  | 20/04/2022     | 20/04/2022       | Monthly             | 1000m                    | 10                         | 10                                | 11                                  |
| Environmental Planning Instrument<br>SEPP State Significant Precincts       | NSW Department of Planning,<br>Industry and Environment                             | 15/11/2021     | 07/12/2018       | Monthly             | 1000m                    | 0                          | 0                                 | 0                                   |
| Environmental Planning Instrument Land Zoning                               | NSW Department of Planning, Industry and Environment                                | 15/11/2021     | 05/11/2021       | Monthly             | 1000m                    | 1                          | 4                                 | 31                                  |
| Commonwealth Heritage List  | Australian Government Department of the Agriculture, Water and the Environment      | 18/05/2021     | 20/11/2019       | Annually            | 1000m                    | 0                          | 0                                 | 0                                   |
| National Heritage List  | Australian Government Department of the Agriculture, Water and the Environment      | 18/05/2021     | 20/11/2019       | Annually            | 1000m                    | 0                          | 0                                 | 0                                   |
| State Heritage Register - Curtilages  | NSW Department of Planning,<br>Industry and Environment                             | 19/08/2021     | 25/06/2021       | Quarterly           | 1000m                    | 0                          | 0                                 | 1                                   |
| Environmental Planning Instrument<br>Local Heritage                         | NSW Department of Planning,<br>Industry and Environment                             | 06/04/2022     | 25/03/2022       | Monthly             | 1000m                    | 0                          | 0                                 | 18                                  |
| Bush Fire Prone Land  | NSW Rural Fire Service  | 16/05/2022     | 08/12/2021       | Weekly              | 1000m                    | 0                          | 0                                 | 0                                   |
| Ramsar Wetlands of Australia  | Australian Government Department of Agriculture, Water and the Environment          | 28/03/2022     | 19/03/2020       | Annually            | 1000m                    | 0                          | 0                                 | 0                                   |
| Groundwater Dependent Ecosystems  | Bureau of Meteorology   | 14/08/2017     | 15/05/2017       | Annually            | 1000m                    | 0                          | 0                                 | 1                                   |
| Inflow Dependent Ecosystems<br>Likelihood                                   | Bureau of Meteorology   | 14/08/2017     | 15/05/2017       | Unknown             | 1000m                    | 0                          | 0                                 | 3                                   |
| NSW BioNet Species Sightings  | NSW Office of Environment & Heritage  | 16/05/2022     | 16/05/2022       | Weekly              | 10000m                   | -                          | -                                 | -                                   |

# **Site Diagram**

10-24 Anzac Parade, Gunnedah, NSW 2380





## **Contaminated Land**

10-24 Anzac Parade, Gunnedah, NSW 2380





# **Contaminated Land**

10-24 Anzac Parade, Gunnedah, NSW 2380

## List of NSW contaminated sites notified to EPA

Records from the NSW EPA Contaminated Land list within the dataset buffer:

| Map<br>Id | Site  | Address   | Suburb   | Activity           | Management<br>Class   | Status              | Location<br>Confidence | Dist | Direction     |
|-----------|---|---|----------|--------------------|---|---------------------|------------------------|------|---------------|
| 576       | Former Shell<br>Depot<br>Gunnedah   | 85-89 Barber<br>Street  | Gunnedah | Other<br>Petroleum | Regulation<br>under CLM Act<br>not required                 | Current<br>EPA List | Premise<br>Match       | 320m | North         |
| 577       | Former<br>Telstra Line<br>Depot   | 81 Barber<br>Street   | Gunnedah | Other<br>Petroleum | Regulation<br>under CLM Act<br>not required                 | Current<br>EPA List | Premise<br>Match       | 345m | North         |
| 575       | Former<br>Caltex Depot  | 61 Railway<br>Avenue  | Gunnedah | Other<br>Petroleum | Contamination<br>formerly<br>regulated under<br>the CLM Act | Current<br>EPA List | Premise<br>Match       | 347m | North<br>West |
| 574       | Ampol<br>Australia<br>Petroleum<br>Pty Ltd<br>(previously<br>Caltex<br>Australia) | 21 Abbott<br>Street   | Gunnedah | Service<br>Station | Regulation<br>under CLM Act<br>not required                 | Current<br>EPA List | Premise<br>Match       | 525m | North<br>East |
| 579       | Mobil Service<br>Station  | 341 Conadilly<br>Street                                       | Gunnedah | Service<br>Station | Contamination<br>formerly<br>regulated under<br>the CLM Act | Current<br>EPA List | Premise<br>Match       | 617m | North<br>East |
| 573       | BP Service<br>Station   | Corner<br>Conadilly<br>Street &<br>Henry Street               | Gunnedah | Service<br>Station | Contamination<br>formerly<br>regulated under<br>the CLM Act | Current<br>EPA List | Premise<br>Match       | 633m | North<br>East |
| 572       | Adjacent to<br>Service<br>Station   | Intersection<br>of Henry<br>Street and<br>Conadilly<br>Street | Gunnedah | Service<br>Station | Contamination<br>formerly<br>regulated under<br>the CLM Act | Current<br>EPA List | Premise<br>Match       | 641m | North<br>East |
| 580       | Property<br>NSW Site  | 35-37 Abbott<br>STREET  | Gunnedah | Other<br>Petroleum | Regulation<br>under CLM Act<br>not required                 | Current<br>EPA List | Premise<br>Match       | 700m | North<br>East |
| 578       | Mobil<br>Gunnedah<br>Depot  | 16-24<br>Wentworth<br>Street                                  | Gunnedah | Other<br>Petroleum | Regulation<br>under CLM Act<br>not required                 | Current<br>EPA List | Premise<br>Match       | 761m | East          |

The values within the EPA site management class in the table above, are given more detailed explanations in the table below:

| EPA site management class                                       | Explanation   |
|---|---|
| Contamination being managed via the planning process (EP&A Act) | The EPA has completed an assessment of the contamination and decided that the contamination is significant enough to warrant regulation. The contamination of this site is managed by the consent authority under the Environmental Planning and Assessment Act 1979 (EP&A Act) planning approval process, with EPA involvement as necessary to ensure significant contamination is adequately addressed. The consent authority is typically a local council or the Department of Planning and Environment. |
| Contamination currently regulated under CLM Act                 | The EPA has completed an assessment of the contamination and decided that the contamination is significant enough to warrant regulation under the Contaminated Land Management Act 1997 (CLM Act). Management of the contamination is regulated by the EPA under the CLM Act. Regulatory notices are available on the EPA's Contaminated Land Public Record of Notices.   |
| Contamination currently regulated under POEO Act                | The EPA has completed an assessment of the contamination and decided that the contamination is significant enough to warrant regulation. Management of the contamination is regulated under the Protection of the Environment Operations Act 1997 (POEO Act). The EPA's regulatory actions under the POEO Act are available on the POEO public register.  |

| EPA site management class   | Explanation  |
|---|--|
| Contamination formerly regulated under the CLM Act                      | The EPA has determined that the contamination is no longer significant enough to warrant regulation under the Contaminated Land Management Act 1997 (CLM Act). The contamination was addressed under the CLM Act.  |
| Contamination formerly regulated under the POEO Act                     | The EPA has determined that the contamination is no longer significant enough to warrant regulation. The contamination was addressed under the Protection of the Environment Operations Act 1997 (POEO Act).   |
| Contamination was addressed via the planning process (EP&A Act)         | The EPA has determined that the contamination is no longer significant enough to warrant regulation. The contamination was addressed by the appropriate consent authority via the planning process under the Environmental Planning and Assessment Act 1979 (EP&A Act).  |
| Ongoing maintenance required to manage residual contamination (CLM Act) | The EPA has determined that ongoing maintenance, under the Contaminated Land Management Act 1997 (CLM Act), is required to manage the residual contamination. Regulatory notices under the CLM Act are available on the EPA's Contaminated Land Public Record of Notices.  |
| Regulation being finalised  | The EPA has completed an assessment of the contamination and decided that the contamination is significant enough to warrant regulation under the Contaminated Land Management Act 1997. A regulatory approach is being finalised.   |
| Regulation under the CLM Act not required                               | The EPA has completed an assessment of the contamination and decided that regulation under the Contaminated Land Management Act 1997 is not required.  |
| Under assessment  | The contamination is being assessed by the EPA to determine whether regulation is required. The EPA may require further information to complete the assessment. For example, the completion of management actions regulated under the planning process or Protection of the Environment Operations Act 1997. Alternatively, the EPA may require information via a notice issued under s77 of the Contaminated Land Management Act 1997 or issue a Preliminary Investigation Order. |

NSW EPA Contaminated Land List Data Source: Environment Protection Authority © State of New South Wales through the Environment Protection Authority

## **Contaminated Land**

10-24 Anzac Parade, Gunnedah, NSW 2380

## **Contaminated Land: Records of Notice**

Record of Notices within the dataset buffer:

| Map Id | Name                           | Address   | Suburb   | Notices  | Area<br>No | Location<br>Confidence | Distance | Direction     |
|--------|--------------------------------|---|----------|----------|------------|------------------------|----------|---------------|
| 128    | Former Caltex<br>Depot         | 61 Railway Avenue                                       | Gunnedah | 3 former | 3288       | Premise<br>Match       | 347m     | North<br>West |
| 130    | Mobil Service<br>Station       | 341 Conadilly Street                                    | Gunnedah | 5 former | 3219       | Premise<br>Match       | 617m     | North East    |
| 127    | BP Service<br>Station          | Corner Conadilly<br>Street & Henry<br>Street            | Gunnedah | 5 former | 3218       | Premise<br>Match       | 633m     | North East    |
| 129    | Adjacent to<br>Service Station | Intersection of<br>Henry Street and<br>Conadilly Street | Gunnedah | 6 former | 3220       | Premise<br>Match       | 641m     | North East    |

Contaminated Land Records of Notice Data Source: Environment Protection Authority © State of New South Wales through the Environment Protection Authority Terms of use and disclaimer for Contaminated Land: Record of Notices, please visit http://www.epa.nsw.gov.au/clm/clmdisclaimer.htm

## **Former Gasworks**

Former Gasworks within the dataset buffer:

| Map<br>Id | Location             | Council | Further Info | Location<br>Confidence | Distance | Direction |
|-----------|----------------------|---------|--------------|------------------------|----------|-----------|
| N/A       | No records in buffer |         |              |                        |          |           |

Former Gasworks Data Source: Environment Protection Authority

© State of New South Wales through the Environment Protection Authority

# **Waste Management & Liquid Fuel Facilities**

10-24 Anzac Parade, Gunnedah, NSW 2380





# **Waste Management & Liquid Fuel Facilities**

10-24 Anzac Parade, Gunnedah, NSW 2380

# **National Waste Management Site Database**

Sites on the National Waste Management Site Database within the dataset buffer:

| Site<br>Id | Owner                | Name | Address | Suburb | Class | Landfill | Reprocess | Transfer | Comments | Loc<br>Conf | Dist | Direction |
|------------|----------------------|------|---------|--------|-------|----------|-----------|----------|----------|-------------|------|-----------|
| N/A        | No records in buffer |      |         |        |       |          |           |          |          |             |      |           |

Waste Management Facilities Data Source: Geoscience Australia Creative Commons 3.0 © Commonwealth of Australia http://creativecommons.org/licenses/by/3.0/au/deed.en

# **National Liquid Fuel Facilities**

National Liquid Fuel Facilties within the dataset buffer:

| Map<br>Id | Owner               | Name                             | Address                 | Suburb   | Class          | Operational<br>Status | Operator | Revision<br>Date | Loc<br>Conf      | Dist | Direction     |
|-----------|---------------------|----------------------------------|-------------------------|----------|----------------|-----------------------|----------|------------------|------------------|------|---------------|
| 4855      | 7-Eleven<br>Pty Ltd | Mobil<br>Gunnedah                | 16 Abbott<br>Street     | Gunnedah | Petrol Station | Operational           |          | 13/07/2012       | Premise<br>Match | 408m | North<br>East |
| 3918      | Caltex              | Caltex<br>Gunnedah               | 21 Abbott<br>Street     | Gunnedah | Petrol Station | Operational           |          | 25/07/2011       | Premise<br>Match | 525m | North<br>East |
| 3917      | Caltex              | Woolworths<br>Caltex<br>Gunnedah | 18-22 Tempest<br>Street | Gunnedah | Petrol Station | Operational           |          | 25/07/2011       | Premise<br>Match | 747m | North         |

National Liquid Fuel Facilities Data Source: Geoscience Australia Creative Commons 3.0 © Commonwealth of Australia http://creativecommons.org/licenses/by/3.0/au/deed.en

# **PFAS Investigation & Management Programs**

10-24 Anzac Parade, Gunnedah, NSW 2380

## **EPA PFAS Investigation Program**

Sites that are part of the EPA PFAS investigation program, within the dataset buffer:

| Map ID | Site                 | Address | Loc<br>Conf | Dist | Dir |
|--------|----------------------|---------|-------------|------|-----|
| N/A    | No records in buffer |         |             |      |     |

EPA PFAS Investigation Program: Environment Protection Authority

© State of New South Wales through the Environment Protection Authority

# **Defence PFAS Investigation Program**

Sites being investigated by the Department of Defence for PFAS contamination within the dataset buffer:

| Map ID | Base Name            | Address | Loc<br>Conf | Dist | Dir |
|--------|----------------------|---------|-------------|------|-----|
| N/A    | No records in buffer |         |             |      |     |

Defence PFAS Investigation Program Data Custodian: Department of Defence, Australian Government

# **Defence PFAS Management Program**

Sites being managed by the Department of Defence for PFAS contamination within the dataset buffer:

| Map ID | Base Name            | Address | Loc<br>Conf | Dist | Dir |
|--------|----------------------|---------|-------------|------|-----|
| N/A    | No records in buffer |         |             |      |     |

Defence PFAS Management Program Data Custodian: Department of Defence, Australian Government

# Airservices Australia National PFAS Management Program

Sites being investigated or managed by Airservices Australia for PFAS contamination within the dataset buffer:

| Map ID | Site Name            | Impacts | Loc<br>Conf | Dist | Dir |
|--------|----------------------|---------|-------------|------|-----|
| N/A    | No records in buffer |         |             |      |     |

Airservices Australia National PFAS Management Program Data Custodian: Airservices Australia

# **Defence Sites**

10-24 Anzac Parade, Gunnedah, NSW 2380

# **Defence 3 Year Regional Contamination Investigation Program**

Sites which have been assessed as part of the Defence 3 Year Regional Contamination Investigation Program within the dataset buffer:

| Property ID | Base Name            | Address | Known<br>Contamination | Loc<br>Conf | Dist | Dir |
|-------------|----------------------|---------|------------------------|-------------|------|-----|
| N/A         | No records in buffer |         |                        |             |      |     |

Defence 3 Year Regional Contamination Investigation Program, Data Custodian: Department of Defence, Australian Government

## **EPA Other Sites with Contamination Issues**

10-24 Anzac Parade, Gunnedah, NSW 2380

## **EPA Other Sites with Contamination Issues**

This dataset contains other sites identified on the EPA website as having contamination issues. This dataset currently includes:

- James Hardie asbestos manufacturing and waste disposal sites
- Radiological investigation sites in Hunter's Hill
- · Pasminco Lead Abatement Strategy Area

Sites within the dataset buffer:

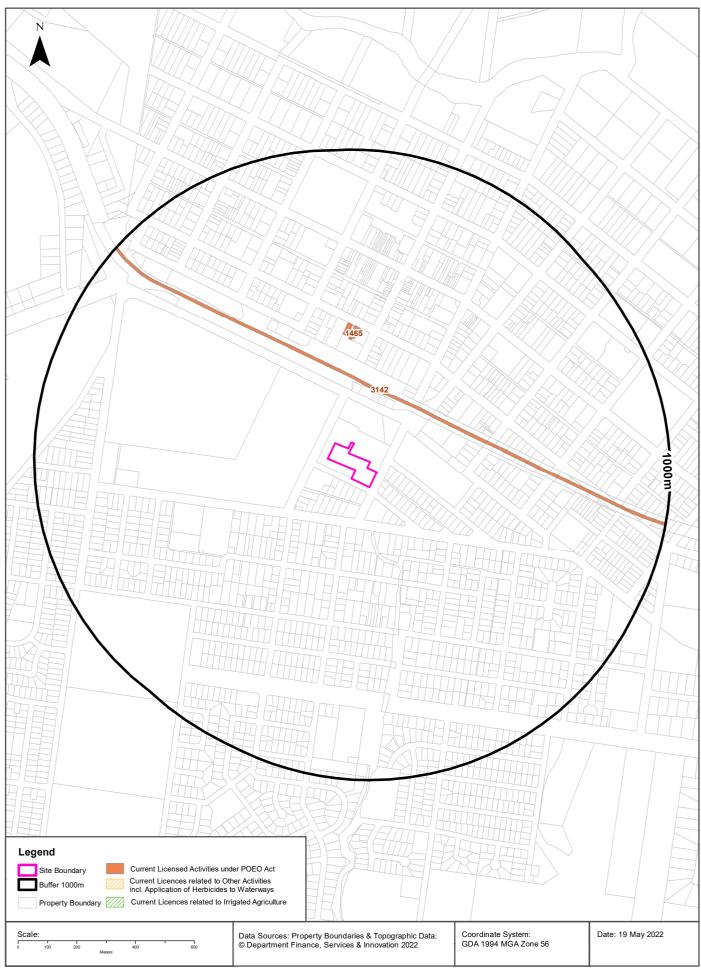
| Site Id | Site Name            | Site Address | Dataset | Comments | Location<br>Confidence | Distance | Direction |
|---------|----------------------|--------------|---------|----------|------------------------|----------|-----------|
| N/A     | No records in buffer |              |         |          |                        |          |           |

EPA Other Sites with Contamination Issues: Environment Protection Authority © State of New South Wales through the Environment Protection Authority

## **Current EPA Licensed Activities**

10-24 Anzac Parade, Gunnedah, NSW 2380





# **EPA Activities**

10-24 Anzac Parade, Gunnedah, NSW 2380

## **Licensed Activities under the POEO Act 1997**

Licensed activities under the Protection of the Environment Operations Act 1997, within the dataset buffer:

| EPL  | Organisation                                       | Name                         | Address  | Suburb   | Activity                              | Loc Conf               | Distance | Direction  |
|------|--|------------------------------|--|----------|---------------------------------------|------------------------|----------|------------|
| 3142 | AUSTRALIAN RAIL<br>TRACK<br>CORPORATION<br>LIMITED |                              | AUSTRALIAN<br>RAIL TRACK<br>CORPORATION<br>(ARTC)<br>NETWORK,<br>SYDNEY, NSW<br>2001 |          | Railway systems activities            | Network of<br>Features | 195m     | North East |
| 1465 | NAMOI FLOUR<br>MILLS PTY LTD                       | NAMOI FLOUR<br>MILLS PTY LTD | 91 - 93 BARBER<br>ST   | GUNNEDAH | General<br>agricultural<br>processing | Premise<br>Match       | 349m     | North      |

POEO Licence Data Source: Environment Protection Authority
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# **Delicensed & Former Licensed EPA Activities**

10-24 Anzac Parade, Gunnedah, NSW 2380





## **EPA Activities**

10-24 Anzac Parade, Gunnedah, NSW 2380

# **Delicensed Activities still regulated by the EPA**

Delicensed activities still regulated by the EPA, within the dataset buffer:

| Licence<br>No | Organisation  | Name                 | Address           | Suburb   | Activity   | Loc<br>Conf      | Distance | Direction |
|---------------|---|----------------------|-------------------|----------|--|------------------|----------|-----------|
| 7193          | HUNTER AND<br>NEW ENGLAND<br>AREA HEALTH<br>SERVICE | GUNNEDAH<br>HOSPITAL | MARQUIS<br>STREET | GUNNEDAH | Hazardous, Industrial<br>or Group A Waste<br>Generation or Storage | Premise<br>Match | 0m       | On-site   |

Delicensed Activities Data Source: Environment Protection Authority

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# Former Licensed Activities under the POEO Act 1997, now revoked or surrendered

Former Licensed activities under the Protection of the Environment Operations Act 1997, now revoked or surrendered, within the dataset buffer:

| Licence<br>No | Organisation                                     | Location  | Status      | Issued<br>Date | Activity   | Loc Conf                  | Distance | Direction |
|---------------|--|---|-------------|----------------|--|---------------------------|----------|-----------|
| 4653          | LUHRMANN<br>ENVIRONMENT<br>MANAGEMENT<br>PTY LTD | WATERWAYS<br>THROUGHOUT<br>NSW  | Surrendered | 06/09/2000     | Other Activities / Non Scheduled<br>Activity - Application of Herbicides | Network<br>of<br>Features | 90m      | South     |
| 4838          | Robert Orchard                                   | Various Waterways<br>throughout New<br>South Wales -<br>SYDNEY NSW 2000 | Surrendered | 07/09/2000     | Other Activities / Non Scheduled<br>Activity - Application of Herbicides | Network<br>of<br>Features | 90m      | South     |
| 6630          | SYDNEY WEED<br>& PEST<br>MANAGEMENT<br>PTY LTD   | WATERWAYS<br>THROUGHOUT<br>NSW - PROSPECT,<br>NSW, 2148                 | Surrendered | 09/11/2000     | Other Activities / Non Scheduled<br>Activity - Application of Herbicides | Network<br>of<br>Features | 90m      | South     |

Former Licensed Activities Data Source: Environment Protection Authority © State of New South Wales through the Environment Protection Authority

#### **Historical Business Directories**





#### **Historical Business Directories**

10-24 Anzac Parade, Gunnedah, NSW 2380

# **Business Directory Records 1950-1991 Premise or Road Intersection Matches**

Universal Business Directory records from years 1991, 1982, 1970, 1961 & 1950, mapped to a premise or road intersection within the dataset buffer:

| Map Id | Business Activity                               | Premise  | Ref No. | Year | Location<br>Confidence | Distance to<br>Property<br>Boundary or<br>Road<br>Intersection | Direction     |
|--------|---|--|---------|------|------------------------|--|---------------|
| 1      | HOSPITALS &/OR HEALTH<br>CENTRES                | Gunnedah District Hospital, Marquis<br>St., Gunnedah 2380          | 100774  | 1982 | Premise Match          | 0m   | On-site       |
|        | HOSPITALS & HEALTH<br>CENTRES                   | Gunnedah District Hospital., Marquis St., Gunnedah 2380            | 655959  | 1970 | Premise Match          | 0m   | On-site       |
|        | GROCERS & GENERAL<br>STOREKEEPERS               | Gallen, P. H. & R. J., 16 Anzac Pde.,<br>Gunnedah                  | 153781  | 1961 | Premise Match          | 0m   | On-site       |
|        | HOSPITALS & HEALTH<br>CENTRES                   | Gunnedah District Hospital, Marquis St., , Gunnedah                | 153816  | 1961 | Premise Match          | 0m   | On-site       |
|        | HOSPITALS                                       | Gunnedah District Hospital, Marquis St., Gunnedah                  | 193415  | 1950 | Premise Match          | 0m   | On-site       |
| 2      | MIXED BUSINESSES                                | Finlay, C. W. & M. E., 1 Anzac Pde.,<br>Gunnedah 2380              | 656091  | 1970 | Premise Match          | 30m  | South East    |
| 3      | SCHOOLS &/OR COLLEGES -<br>PRIVATE &/OR PUBLIC  | Gunnedah Christian Community<br>School., 3 Resevoir St             | 208118  | 1991 | Premise Match          | 41m  | South<br>West |
| 4      | ASSOCIATIONS &/OR SOCIETIES.                    | Gunnedah Technical Education Committee.,                           | 207468  | 1991 | Premise Match          | 61m  | North West    |
|        | SCHOOLS &/OR COLLEGES<br>PRIVATE &/OR PUBLIC    | Gunnedah High School, Marquis St.,<br>Gunnedah 2380                | 101016  | 1982 | Premise Match          | 61m  | North West    |
|        | SCHOOLS &/OR COLLEGES<br>PRIVATE &/OR PUBLIC    | Gunnedah Technical College, Hunter<br>St., Gunnedah 2380           | 101021  | 1982 | Premise Match          | 61m  | North West    |
|        | ASSOCIATIONS &/OR<br>SOCIETIES                  | Gunnedah Technical Education<br>Committee., Gunnedah 2380          | 100514  | 1982 | Premise Match          | 61m  | North West    |
|        | SCHOOLS & COLLEGES-<br>PRIVATE & PUBLIC         | Gunnedah High School., Marquis St.,<br>Gunnedah 2380               | 656347  | 1970 | Premise Match          | 61m  | North West    |
|        | SCHOOLS & COLLEGES-<br>TECHNICAL                | Gunnedah Technical College., Hunter St., Gunnedah 2380             | 656354  | 1970 | Premise Match          | 61m  | North West    |
|        | ASSOCIATIONS, SOCIETIES, CLUBS & SPORTINGBODIES | Gunnedah Technical Education<br>Committee., Gunnedah 2380          | 655544  | 1970 | Premise Match          | 61m  | North West    |
|        | SCHOOLS & COLLEGES-<br>TECHNICAL                | Gunnedah Technical College, Hunter St., Gunnedah                   | 154037  | 1961 | Premise Match          | 61m  | North West    |
| 5      | BUILDERS & BUILDING CONTRACTORS                 | G. M. Hughes 20 Reservoir Street,<br>Gunnedah                      | 193181  | 1950 | Premise Match          | 67m  | South East    |
|        | BUILDERS & BUILDING CONTRACTORS                 | Hughes, G. M., 20 Reservoir St.,<br>Gunnedah                       | 193170  | 1950 | Premise Match          | 67m  | South East    |
| 6      | FURNITURE-HOUSEHOLD-<br>RETAIL                  | Vinall, R. E., 80 Hunter St., Gunnedah                             | 193359  | 1950 | Premise Match          | 82m  | South         |
| 7      | DOG &/OR CAT BREEDERS                           | Bush, B. H. & M. B., 7 Eighth Div.<br>Memorial Ave., Gunnedah 2380 | 655750  | 1970 | Premise Match          | 84m  | East          |
| 8      | SIGNWRITERS                                     | Sydenham, B., 22 Reservoir St.,<br>Gunnedah 2380                   | 656385  | 1970 | Premise Match          | 87m  | South East    |
|        | SIGNWRITERS                                     | Sydenham, B., 22 Reservoir St.,<br>Gunnedah                        | 154047  | 1961 | Premise Match          | 87m  | South East    |
| 9      | NURSERYMEN                                      | Chapmans Florists, 83 Hunter St.,<br>Gunnedah                      | 153966  | 1961 | Premise Match          | 146m   | South         |
|        | FLORISTS-RETAIL                                 | Chapman's Nursery, Hunter St.,<br>Gunnedah                         | 153723  | 1961 | Premise Match          | 146m   | South         |
| 10     | PLUMBERS, GASFITTERS & DRAINLAYERS              | Walker, D., 28 Reservoir St.,<br>Gunnedah 2380                     | 656273  | 1970 | Premise Match          | 147m   | South East    |

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# **Business Directory Records 1950-1991 Road or Area Matches**

Universal Business Directory records from years 1991, 1982, 1970, 1961 & 1950, mapped to a road or an area, within the dataset buffer. Records are mapped to the road when a building number is not supplied, cannot be found, or the road has been renumbered since the directory was published:

| Map Id | Business Activity                                  | Premise  | Ref No. | Year | Location<br>Confidence | Distance to<br>Road<br>Corridor or<br>Area |
|--------|--|--|---------|------|------------------------|--|
| 11     | HOSPITAL &/OR NURSING<br>HOMES                     | Gunnedah District Hospital., Marquis St                          | 207847  | 1991 | Road Match             | 30m  |
|        | HOSPITALS &/OR NURSING HOMES.                      | Gunnedah District Hospital., Marquis St                          | 207797  | 1991 | Road Match             | 30m  |
|        | SCHOOLS &/OR COLLEGES -<br>PRIVATE &/OR PUBLIC     | Gunnedah High School., Marquis St                                | 208119  | 1991 | Road Match             | 30m  |
|        | CLUBS &/OR SPORTING BODIES.                        | Gunnedah Rsl Bowling Club., Marquis St                           | 207618  | 1991 | Road Match             | 30m  |
|        | FLOUR MILLERS &/OR<br>MERCHANTS.                   | Namoi Flour Mills., Marquis St                                   | 207738  | 1991 | Road Match             | 30m  |
|        | ANTIQUE DEALERS                                    | Cedar Grove Antiques, 978 Marquis St., Gunnedah 2380             | 100461  | 1982 | Road Match             | 30m  |
|        | FLOUR MERCHANTS &/OR MILLERS                       | Namol Flour Mills, Marquis St., Gunnedah 2380                    | 100722  | 1982 | Road Match             | 30m  |
|        | AGRICULTURAL CHEMICALS MFRS. &/OR IMPS. &/OR DISTS | O'Keefe, F. L., Marquis St., Gunnedah 2380                       | 100424  | 1982 | Road Match             | 30m  |
|        | GOVERNMENT<br>DEPARTMENTS                          | T.A.B., Marquis St., Gunnedah 2380                               | 100743  | 1982 | Road Match             | 30m  |
|        | TOTALISATOR AGENCY<br>BRANCHES                     | T.A.B., Marquis St., Gunnedah 2380                               | 101073  | 1982 | Road Match             | 30m  |
|        | MOTOR PAINTERS &PANEL BEATERS                      | G. & D. Motor Service., Marquis St. , Gunnedah 2380              | 656194  | 1970 | Road Match             | 30m  |
|        | MOTOR ACCESSORIES &/OR<br>SPARE PARTS DEALERS      | G. & D. Motor Service., Marquis St., Gunnedah 2380               | 656113  | 1970 | Road Match             | 30m  |
|        | MOTOR SERVICE STATIONS-<br>PETROL, OILS, ETC.      | G. & D. Motor Service., Marquis St., Gunnedah 2380               | 656208  | 1970 | Road Match             | 30m  |
|        | ASSOCIATIONS, SOCIETIES, CLUBS & SPORTINGBODIES    | Gunnedah R.S.L. Women's Bowling Club, Marquis St., Gunnedah 2380 | 655537  | 1970 | Road Match             | 30m  |
|        | FLOUR MERCHANTS & MILLERS                          | Namol Flour Mills., Marquis St., Gunnedah 2380                   | 655858  | 1970 | Road Match             | 30m  |
|        | ASSOCIATIONS, SOCIETIES, CLUBS & SPORTING BODIES   | T.A.B., Marquis St., Gunnedah 2380                               | 655492  | 1970 | Road Match             | 30m  |
|        | GOVERNMENT<br>DEPARTMENTS                          | T.A.B., Marquis St., Gunnedah 2380                               | 655910  | 1970 | Road Match             | 30m  |
|        | DELICATESSENS                                      | Chit, Syd, Marquis St., Gunnedah                                 | 153648  | 1961 | Road Match             | 30m  |
|        | AERATED WATER & CORDIAL MANUFACTURERS              | Cushan, J. L., Marquis St., Gunnedah                             | 153459  | 1961 | Road Match             | 30m  |
|        | BANKS  | E.S. and A. Bank, Marquis St., Gunnedah                          | 153507  | 1961 | Road Match             | 30m  |
|        | ELECTRICAL SUPPLIES & APPLIANCES-RETAILERS         | Geddes Radio Service, Marquis St., Gunnedah                      | 153680  | 1961 | Road Match             | 30m  |
|        | LAWN MOWER MOTOR MFRS./DIST.                       | Geddes Radio, Marquis St., Gunnedah                              | 153862  | 1961 | Road Match             | 30m  |
|        | REFRIGERATOR DEALERS<br>&/OR SERVICEMEN            | Geddes, John, Marquis St., Gunnedah                              | 154019  | 1961 | Road Match             | 30m  |
|        | INSURANCE AGENTS                                   | Henry, R. M., Marquis St., Gunnedah                              | 153842  | 1961 | Road Match             | 30m  |
|        | PRODUCE MERCHANTS-<br>GRAIN & SEED-RETAIL          | Henry, R. M., Marquis St., Gunnedah                              | 154006  | 1961 | Road Match             | 30m  |
|        | PHOTOGRAPHERS                                      | Keith, Riley Studios, Marquis St., Gunnedah                      | 153980  | 1961 | Road Match             | 30m  |
|        | MEDICAL PRACTITIONERS                              | Lundie, A. J., Marquis St., Gunnedah                             | 153883  |      | Road Match             | 30m  |
|        | BEAUTY SALONS &/OR<br>LADIES' HAIRDRESSERS         | Michele, Marquis St., Gunnedah                                   | 153516  | 1961 | Road Match             | 30m  |

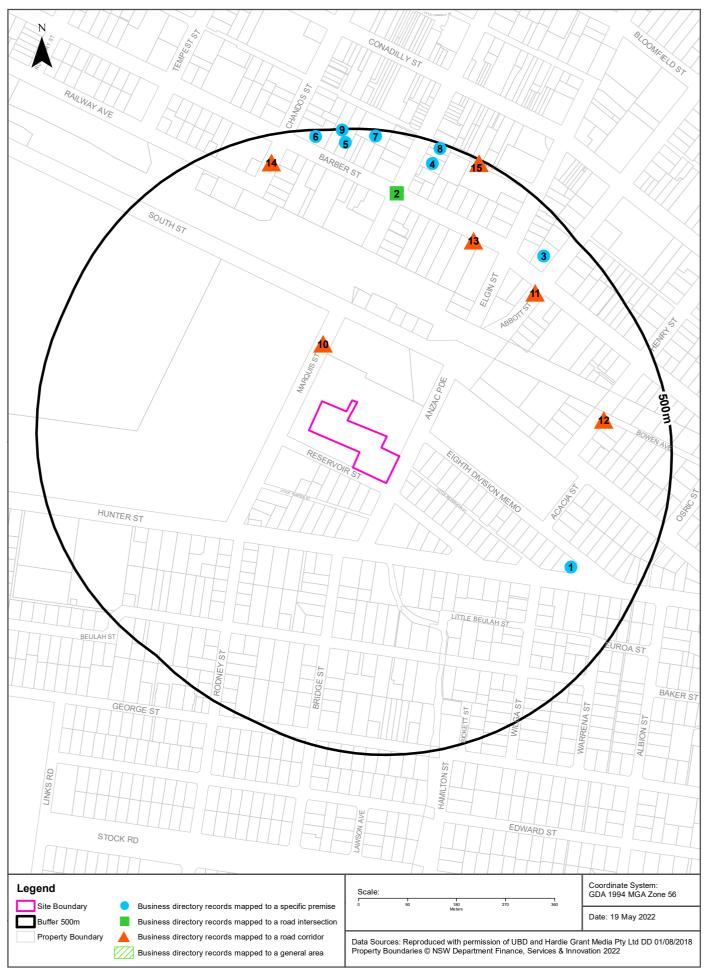
| Map Id | Business Activity                                       | Premise   | Ref No. | Year | Location<br>Confidence | Distance to<br>Road<br>Corridor or<br>Area |
|--------|---|---|---------|------|------------------------|--|
| 11     | POULTRY & STOCK FOOD MANUFACTURERS                      | Nam' Flour Mulls, Marquis St., Gunnedah   | 153995  | 1961 | Road Match             | 30m  |
|        | FLOUR MERCHANTS & MILLERS                               | Namoi Flour Mills, Marquis St., Gunnedah  | 153727  | 1961 | Road Match             | 30m  |
|        | BOOT & SHOE REPAIRERS                                   | Nelson and Neate Shoe Repairs, Marquis St., Gunnedah                                    | 153522  | 1961 | Road Match             | 30m  |
|        | ELECTRICAL CONTRACTORS-<br>LICENSED                     | Plevey, K. W., Marquis St., Gunnedah  | 153674  | 1961 | Road Match             | 30m  |
|        | REFRIGERATOR DEALERS<br>&/OR SERVICEMEN                 | Plevey, K. W., Marquis St., Gunnedah  | 154024  | 1961 | Road Match             | 30m  |
|        | AGRICULTURAL MACHINERY DEALERS                          | Snape Motors, Marquis St., Gunnedah   | 153474  | 1961 | Road Match             | 30m  |
|        | ENGINEERS-DIESEL  | Snape Motors, Marquis St., Gunnedah   | 153697  | 1961 | Road Match             | 30m  |
|        | TAXIS & HIRE CARS                                       | Steel, Bruce, Marquis St., Gunnedah   | 154115  | 1961 | Road Match             | 30m  |
|        | CAKE SHOPS &/OR<br>PASTRYCOOKS                          | Steele, Bruce, Marquis St., Gunnedah  | 153573  | 1961 | Road Match             | 30m  |
|        | INSURANCE AGENTS  | Turner, Arthur, Marquis St., Gunnedah   | 153850  | 1961 | Road Match             | 30m  |
|        | LAWN MOWER MOTOR<br>MFRS./DIST.                         | Turner, Arthur, Marquis St., Gunnedah   | 153863  | 1961 | Road Match             | 30m  |
|        | MOTOR CYCLE DEALERS,<br>REPAIRERS & ACCESSORIES         | Turner, Arthur, Marquis St., Gunnedah   | 153922  | 1961 | Road Match             | 30m  |
|        | MUSIC & MUSICAL INSTRUMENTS-RETAIL                      | Turner, Arthur, Marquis St., Gunnedah   | 153963  | 1961 | Road Match             | 30m  |
|        | SPORT & TRAVEL GOODS-<br>RETAIL                         | Turner, Arthur, Marquis St., Gunnedah   | 154066  | 1961 | Road Match             | 30m  |
|        | OPTOMETRISTS & OPTICIANS                                | Webster, Jack & McDonald, Marquis St.,<br>Gunnedah                                      | 153970  | 1961 | Road Match             | 30m  |
|        | FLOUR MILLERS   | Crago, D. and C., Marquis St., Gunnedah   | 193325  | 1950 | Road Match             | 30m  |
|        | AERATED WATER & CORDIAL MANUFACTURERS                   | Cushan, Estate of J. L., Marquis St., Gunnedah  | 193095  | 1950 | Road Match             | 30m  |
|        | PLUMBERS, GASFITTERS & DRAINLAYERS                      | Hassan and Kensell Pty, Ltd., Marquis St.,<br>Gunnedah                                  | 193595  | 1950 | Road Match             | 30m  |
|        | MOTOR GARAGES & ENGINEERS                               | Hassan and Kensell Pty. Ltd., Marquis St.,<br>Gunnedah                                  | 193533  | 1950 | Road Match             | 30m  |
|        | FLOUR MANUFACTURERS                                     | Namoi Flour Mills, Marquis St., Gunnedah  | 193324  | 1950 | Road Match             | 30m  |
|        | POULTRY & STOCK FOOD MANUFACTURERS                      | Namoi Flour Mills, Marquis St., Gunnedah  | 193600  | 1950 | Road Match             | 30m  |
|        | AGRICULTURAL MACHINERY<br>MANUFACTURERS &/OR<br>DEALERS | Waugh and Josephson Ltd. (Caterpillar Tractors), Marquis St., Gunnedah                  | 193106  | 1950 | Road Match             | 30m  |
|        | TRACTOR REPAIR<br>SPECIALISTS                           | Waugh and Josephson Pty. Ltd., Marquis St., Gunnedah                                    | 193717  | 1950 | Road Match             | 30m  |
| 12     | CLUBS &/OR SPORTING BODIES.                             | Gunnedah Women'S Bowling Club Eighth Division., Memorial Av                             | 207622  | 1991 | Road Match             | 56m  |
|        | ASSOCIATIONS &/OR<br>SOCIETIES                          | Gunnedah Women's Bowling Club, Eighth Division<br>Memorial Ave., Gunnedah 2380          | 100515  | 1982 | Road Match             | 56m  |
|        | SANDING & POLISHING<br>SERVICE                          | Clarks Sanding & Polishing Service., Eighth<br>Division Memorial Avenue., Gunnedah 2380 | 655855  | 1970 | Road Match             | 56m  |
|        | ASSOCIATIONS, SOCIETIES, CLUBS & SPORTINGBODIES         | Gunnedah Women's Bowling Club Eighth Division.,<br>Memorial Ave., Gunnedah 2380         | 655546  | 1970 | Road Match             | 56m  |
|        | TAXI & HIRE CAR SERVICES                                | Imes, C. H., Eighth Division Memorial Ave.,<br>Gunnedah 2380                            | 656463  | 1970 | Road Match             | 56m  |
| 13     | MIXED BUSINESSES.                                       | Cabbage Patch Vegie & Mini Mart., Hunter St   | 207928  | 1991 | Road Match             | 113m                                       |
|        | SCHOOLS &/OR COLLEGES -<br>PRIVATE &/OR PUBLIC          | Gunnedah Technical College (Tafe)., Hunter St   | 208123  | 1991 | Road Match             | 113m                                       |
|        | MIXED BUSINESSES  | Palmer, M. L. & Co., Hunter St., Gunnedah 2380  | 100846  | 1982 | Road Match             | 113m                                       |
|        | TANK SINKING & WELL<br>BORING CONTRACTORS               | Hope, A., Hunter St., Gunnedah  | 154104  | 1961 | Road Match             | 113m                                       |
|        | CARRIERS & CARTAGE<br>CONTRACTORS                       | Maddigan, J. C., Hunter St., Gunnedah   | 153587  | 1961 | Road Match             | 113m                                       |

| Map Id | Business Activity                               | Premise  | Ref No. | Year | Location<br>Confidence | Distance to<br>Road<br>Corridor or<br>Area |
|--------|---|--|---------|------|------------------------|--|
| 13     | EARTH MOVING<br>CONTRACTORS                     | Maddigan, J. C., Hunter St., Gunnedah                                | 153662  | 1961 | Road Match             | 113m                                       |
|        | CLEARING CONTRACTORS                            | Maddlgan, J. C., Hunter St., Gunnedah                                | 153602  | 1961 | Road Match             | 113m                                       |
|        | CONCRETE CONTRACTORS-<br>CONSTRUCTIONAL         | Spearing, M. F., Hunter St., Gunnedah                                | 153640  | 1961 | Road Match             | 113m                                       |
|        | DRESSMAKERS & COSTUMIERS                        | Trotman, Miss, Hunter St., Gunnedah                                  | 153657  | 1961 | Road Match             | 113m                                       |
|        | DELICATESSENS                                   | Palmer, M. L., Hunter Sts., Gunnedah                                 | 202810  | 1950 | Road Match             | 113m                                       |
| 14     | CAMPING GROUNDS & CARAVAN PARKS                 | Gunnedah Caravan Park & Camping Ground.,<br>South St., Gunnedah 2380 | 655680  | 1970 | Road Match             | 131m                                       |
|        | ASSOCIATIONS, SOCIETIES, CLUBS & SPORTINGBODIES | R.O.A, B.G.A.B. Lodge Gunnedah., 346 South St.,<br>Gunnedah 2380     | 655550  | 1970 | Road Match             | 131m                                       |
|        | ELECTRICAL CONTRACTORS-<br>LICENSED             | Drury, A., South St., Gunnedah                                       | 153669  | 1961 | Road Match             | 131m                                       |

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## **Dry Cleaners, Motor Garages & Service Stations**





#### **Historical Business Directories**

10-24 Anzac Parade, Gunnedah, NSW 2380

# **Dry Cleaners, Motor Garages & Service Stations Premise or Road Intersection Matches**

Dry Cleaners, Motor Garages & Service Stations from UBD Business Directories, mapped to a premise or road intersection, within the dataset buffer.

| Map Id | Business Activity   | Premise   | Ref No. | Year | Location<br>Confidence | Distance to<br>Property<br>Boundary or<br>Road<br>Intersection | Direction  |
|--------|---|---|---------|------|------------------------|--|------------|
| 1      | MOTOR SERVICE<br>STATIONS-PETROL,<br>OILS, ETC.             | East Mornington Store., 35 Eighth Division,<br>Memorial Ave., Gunnedah 2380 | 656205  | 1970 | Premise Match          | 364m   | South East |
| 2      | MOTOR GARAGES & ENGINEERS                                   | O'Keefe, F. L., Cnr. Marquis and Barber Sts.,<br>Gunnedah                   | 153936  | 1961 | Road<br>Intersection   | 390m   | North      |
| 3      | MOTOR GARAGES & SERVICE STATIONS.                           | Mobil Dare-Ene Service Centre., 14 Abbott St                                | 207990  | 1991 | Premise Match          | 408m   | North East |
| 4      | MOTOR GARAGES & ENGINEERS                                   | Gascoyne, T. C., Marquis St., Gunnedah 2380                                 | 656164  | 1970 | Premise Match          | 444m   | North      |
|        | MOTOR GARAGES & ENGINEERS                                   | Gascoyne, T. C., Marquis St., Gunnedah                                      | 153930  | 1961 | Premise Match          | 444m   | North      |
|        | MOTOR GARAGES & ENGINEERS                                   | Gascoyne, T. C., 91 Marquis St., Gunnedah                                   | 193532  | 1950 | Premise Match          | 444m   | North      |
| 5      | MOTOR GARAGES<br>&/OR ENGINEERS<br>&/OR SERVICE<br>STATIONS | Mock, John Ford, 90 Barber St., Gunnedah 2380                               | 100919  | 1982 | Premise Match          | 445m   | North      |
|        | MOTOR GARAGES & ENGINEERS                                   | Fossey, J. T. (Gunnedah) Pty. Ltd., 90 Barber St., Gunnedah 2380            | 656162  | 1970 | Premise Match          | 445m   | North      |
|        | MOTOR GARAGES & ENGINEERS                                   | J.T. Fossey(Gunnedah) Pty. Ltd., 90 Barber St., Gunnedah 2380               | 656157  | 1970 | Premise Match          | 445m   | North      |
|        | MOTOR GARAGES & ENGINEERS                                   | Fossey, J. T. (Gunnedah) Pty. Ltd., 90 Barber St., Gunnedah                 | 153928  | 1961 | Premise Match          | 445m   | North      |
| 6      | MOTOR GARAGES & ENGINEERS                                   | Gale, Les & Co. Pty. Ltd., 19 Chandos St.,<br>Gunnedah 2380                 | 656163  | 1970 | Premise Match          | 464m   | North      |
|        | MOTOR GARAGES & ENGINEERS                                   | Gale, Les and Co. Pty. Ltd., Chandos St.,<br>Gunnedah                       | 153929  | 1961 | Premise Match          | 464m   | North      |
|        | MOTOR GARAGES & ENGINEERS                                   | Gale, Les, Chandos St., Gunnedah  | 193531  | 1950 | Premise Match          | 464m   | North      |
| 7      | DRY CLEANERS & PRESSERS.                                    | Chalkleys Dry Cleaners., 195 Conadilly St                                   | 207659  | 1991 | Premise Match          | 468m   | North      |
|        | DRY CLEANERS & PRESSERS                                     | Chalkleys Dry Cleaners, 195 Conadilly St.,<br>Gunnedah 2380                 | 100667  | 1982 | Premise Match          | 468m   | North      |
|        | DRY CLEANERS,<br>PRESSERS & DYERS                           | Gunnedah Dry Cleaners., 195 Conadilly St.,<br>Gunnedah 2380                 | 655769  | 1970 | Premise Match          | 468m   | North      |
| 8      | MOTOR GARAGES & ENGINEERS                                   | Whiteman Bros. Gunnedah Pty. Ltd., 95<br>Marquis St., Gunnedah 2380         | 656175  | 1970 | Premise Match          | 483m   | North      |
| 9      | DRY CLEANERS & PRESSERS.                                    | Gunnedah Steam Laundry Pty Ltd., 75 Little<br>Barber St                     | 207661  | 1991 | Premise Match          | 493m   | North      |

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# **Dry Cleaners, Motor Garages & Service Stations Road or Area Matches**

Dry Cleaners, Motor Garages & Service Stations from UBD Business Directories, mapped to a road or an area, within the dataset buffer. Records are mapped to the road when a building number is not supplied, cannot be found, or the road has been renumbered since the directory was published.

| Map Id | Business Activity  | Premise  | Ref No. | Year | Location<br>Confidence | Distance to<br>Road<br>Corridor or<br>Area |
|--------|--|--|---------|------|------------------------|--|
| 10     | MOTOR SERVICE<br>STATIONS-PETROL, OILS,<br>ETC.          | G. & D. Motor Service., Marquis St., Gunnedah 2380                 | 656208  | 1970 | Road Match             | 30m  |
|        | MOTOR GARAGES & ENGINEERS                                | Hassan and Kensell Pty. Ltd., Marquis St., Gunnedah                | 193533  | 1950 | Road Match             | 30m  |
| 11     | MOTOR GARAGES &/OR<br>ENGINEERS &/OR SERVICE<br>STATIONS | Dar-Ene Service Centre, Abbott St., Gunnedah 2380                  | 100913  | 1982 | Road Match             | 265m                                       |
| 12     | MOTOR SERVICE<br>STATIONS-PETROL, OILS,<br>ETC.          | Potter, J. & N., Henry St., Gunnedah 2380                          | 656215  | 1970 | Road Match             | 305m                                       |
| 13     | MOTOR SERVICE<br>STATIONS-PETROL, OILS,<br>ETC.          | Gunnedah Service Station, Barber St., Gunnedah                     | 153956  | 1961 | Road Match             | 361m                                       |
|        | DRY CLEANERS,<br>PRESSERS & DYERS                        | Gunnedah Steam Laundry, Barber St., Gunnedah                       | 193285  | 1950 | Road Match             | 361m                                       |
|        | MOTOR GARAGES & ENGINEERS                                | Masseur Bros., Barber St., Gunnedah                                | 193536  | 1950 | Road Match             | 361m                                       |
| 14     | MOTOR GARAGES &/OR<br>ENGINEERS &/OR SERVICE<br>STATIONS | Eveleigh, Ian, Motors, 42 Chandos St., Gunnedah 2380               | 100915  | 1982 | Road Match             | 411m                                       |
|        | MOTOR GARAGES & ENGINEERS                                | Smyth's Autos., 42 Chandos St., Gunnedah 2380                      | 656171  | 1970 | Road Match             | 411m                                       |
|        | MOTOR SERVICE<br>STATIONS-PETROL, OILS,<br>ETC.          | Smyth's Autos., 42 Chandos St., Gunnedah 2380                      | 656216  | 1970 | Road Match             | 411m                                       |
|        | MOTOR GARAGES & ENGINEERS                                | Clegg and Tyre), 42 Chandos St., Gunnedah                          | 153925  | 1961 | Road Match             | 411m                                       |
|        | MOTOR GARAGES & ENGINEERS                                | Clegg and Tyrell, 42 Chandos St., Gunnedah                         | 193529  | 1950 | Road Match             | 411m                                       |
| 15     | MOTOR GARAGES & ENGINEERS                                | Pike, R. N., Auto Repairs., 87 Little Barber St.,<br>Gunnedah 2380 | 656170  | 1970 | Road Match             | 489m                                       |

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Aerial Imagery 2005 10-24 Anzac Parade, Gunnedah, NSW 2380

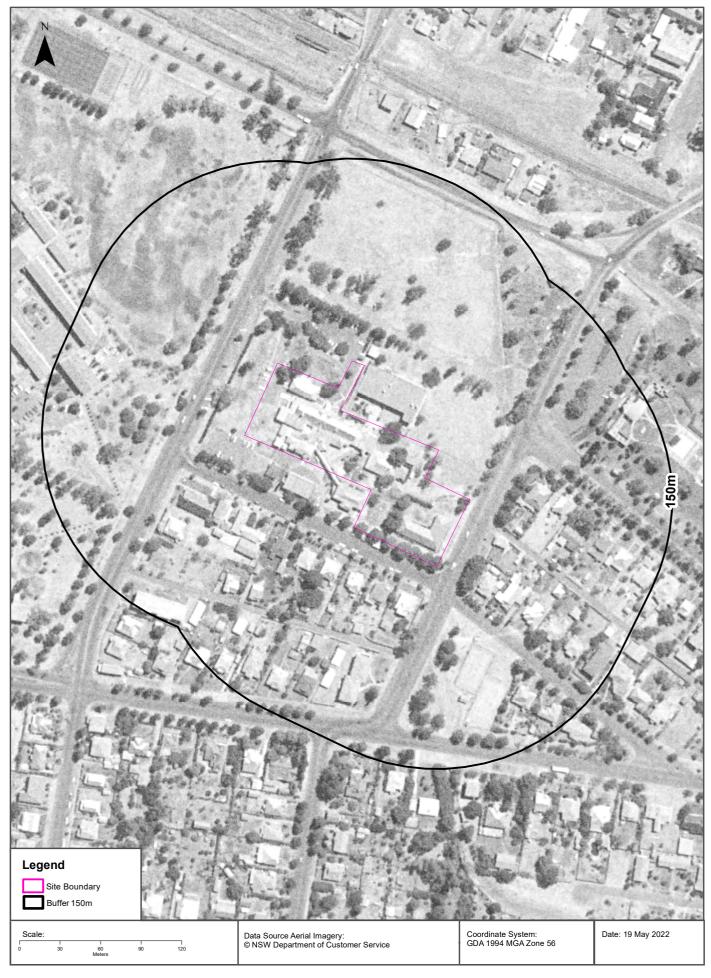














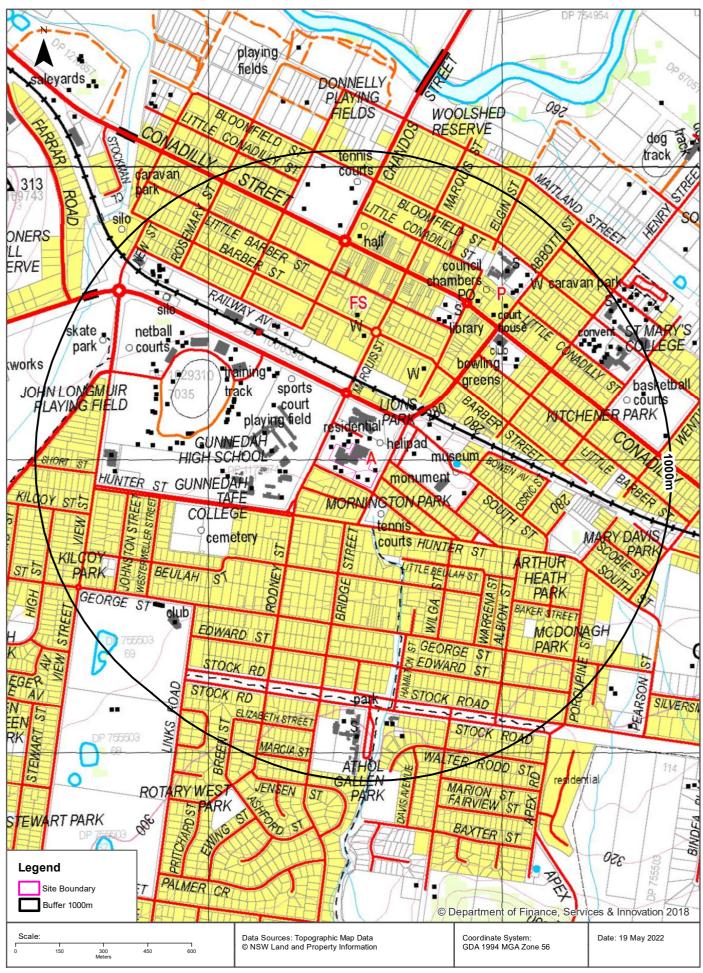






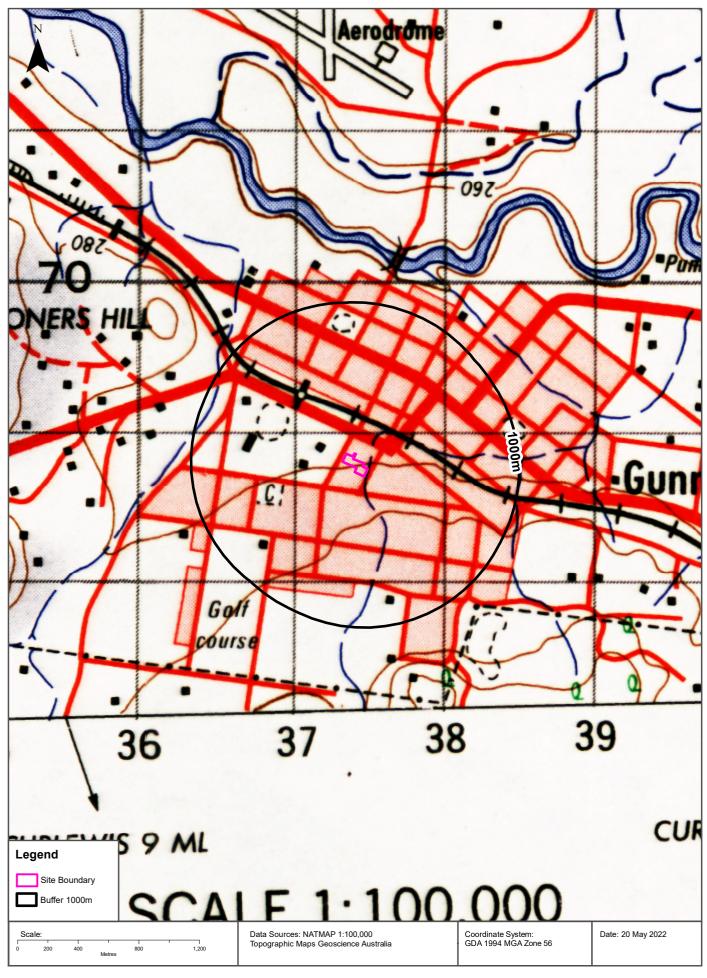
#### **Topographic Map 2015**





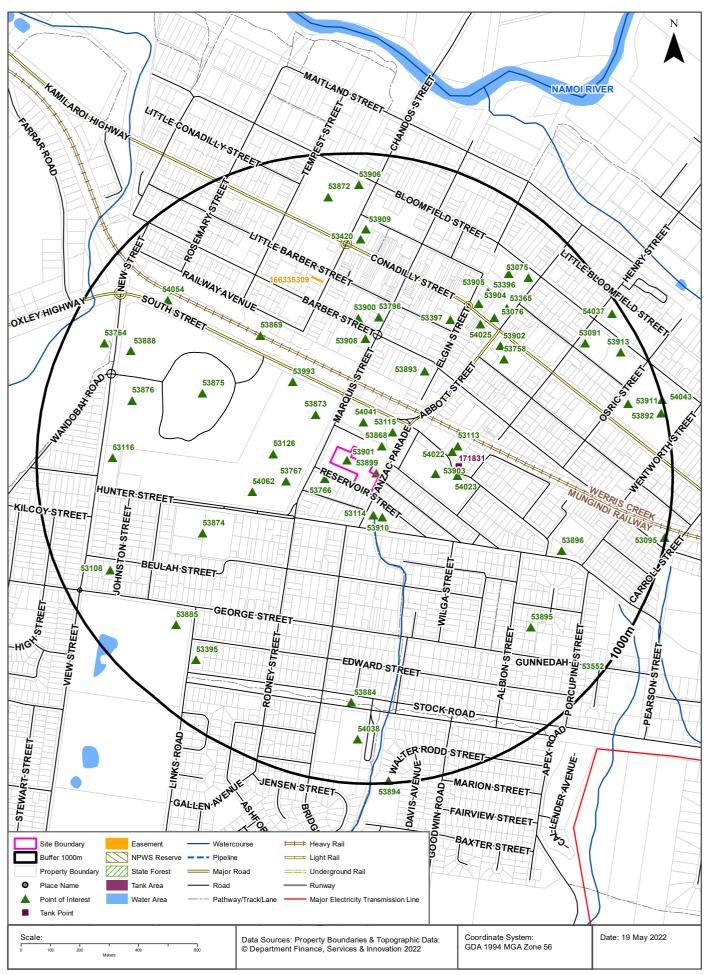
### **Historical Map 1969**





#### **Topographic Features**





# **Topographic Features**

10-24 Anzac Parade, Gunnedah, NSW 2380

#### **Points of Interest**

What Points of Interest exist within the dataset buffer?

| Map Id | Feature Type              | Label                                     | Distance | Direction  |
|--------|---------------------------|---|----------|------------|
| 53901  | Integrated Health Service | GUNNEDAH DISTRICT HEALTH SERVICE          | 0m       | On-site    |
| 53899  | Ambulance Station         | GUNNEDAH AMBULANCE STATION                | 7m       | East       |
| 53766  | Child Care Centre         | GUNNEDAH BAPTIST PRESCHOOL                | 58m      | West       |
| 53868  | Helipad                   | Helipad                                   | 75m      | North East |
| 53114  | Park                      | MORNINGTON PARK                           | 82m      | South      |
| 54041  | Nursing Home              | MACKELLAR CARE SERVICES LTD-ALKIRA CAMPUS | 89m      | North      |
| 53910  | Sports Court              | TENNIS COURTS                             | 95m      | South East |
| 53873  | Sports Field              | PLAYING FIELD                             | 133m     | North West |
| 53115  | Park                      | LIONS PARK                                | 134m     | North East |
| 53767  | Child Care Centre         | Child Care Centre                         | 163m     | West       |
| 53903  | Swimming Pool Facility    | MEMORIAL POOL                             | 193m     | East       |
| 53126  | High School               | GUNNEDAH HIGH SCHOOL                      | 196m     | West       |
| 54022  | Museum                    | GUNNEDAH MUSEUM                           | 264m     | East       |
| 54023  | Monument                  | REMEMBRANCE GROVE                         | 267m     | East       |
| 53993  | Sports Court              | Sports Court                              | 269m     | North West |
| 54062  | Technical College         | GUNNEDAH TAFE COLLEGE                     | 283m     | West       |
| 53113  | Park                      | ANZAC PARK                                | 288m     | East       |
| 53893  | Place Of Worship          | Place Of Worship                          | 349m     | North East |
| 53908  | Place Of Worship          | PRESBYTERIAN CHURCH                       | 371m     | North      |
| 53900  | Fire Station              | GUNNEDAH FIRE STATION                     | 440m     | North      |
| 53796  | Community Medical Centre  | GUNNEDAH DHS COMMUNITY HEALTH CENTRE      | 451m     | North      |
| 53869  | Railway Station           | GUNNEDAH RAILWAY STATION                  | 462m     | North West |
| 53875  | Showground                | GUNNEDAH SHOWGROUND                       | 495m     | North West |
| 53874  | Cemetery                  | GUNNEDAH CEMETERY                         | 496m     | South West |
| 53397  | Primary School            | CARINYA CHRISTIAN SCHOOL GUNNEDAH         | 541m     | North East |
| 53758  | Sports Field              | BOWLING GREENS                            | 577m     | North East |
| 54025  | Library                   | GUNNEDAH LIBRARY                          | 598m     | North East |
| 53902  | Club                      | GUNNEDAH SERVICES AND BOWLING CLUB        | 599m     | North East |
| 53904  | Post Office               | GUNNEDAH POST OFFICE                      | 644m     | North East |
| 53076  | Court House               | GUNNEDAH COURT HOUSE                      | 646m     | North East |
| 53896  | Park                      | ARTHUR HEATH PARK                         | 672m     | East       |
|        | I .                       | 1   | 1        |            |

| Map Id | Feature Type               | Label                                 | Distance | Direction  |
|--------|----------------------------|---------------------------------------|----------|------------|
| 53905  | Local Government Chambers  | GUNNEDAH SHIRE COUNCIL                | 694m     | North East |
| 53365  | Police Station             | GUNNEDAH POLICE STATION               | 699m     | North East |
| 53876  | Sports Field               | JOHN LONGMUIR PLAYING FIELD           | 707m     | West       |
| 53420  | Community Facility         | GUNNEDAH TOWN HALL                    | 708m     | North      |
| 53895  | Park                       | MCDONAGH PARK                         | 713m     | South East |
| 53884  | Park                       | Park                                  | 724m     | South      |
| 53909  | Tourist Information Centre | GUNNEDAH VISITOR INFORMATION CENTRE   | 742m     | North      |
| 53116  | Community Facility         | GUNNEDAH PCYC                         | 742m     | West       |
| 53885  | Club                       | GUNNEDAH GOLF CLUB                    | 763m     | South West |
| 54054  | Silo - Commercial          | Silo - Commercial                     | 765m     | North West |
| 53888  | Sports Court               | NETBALL COURTS                        | 777m     | North West |
| 53396  | Primary School             | GUNNEDAH PUBLIC SCHOOL                | 788m     | North East |
| 53395  | Retirement Village         | GUNNEDAH HOMES FOR THE AGED YALLAMBEE | 810m     | South West |
| 53075  | Place Of Worship           | UNITING CHURCH                        | 824m     | North East |
| 53108  | Park                       | KILCOY PARK                           | 835m     | South West |
| 53091  | Convent/Monastery          | CONVENT                               | 837m     | North East |
| 54038  | Primary School             | GUNNEDAH SOUTH PUBLIC SCHOOL          | 849m     | South      |
| 53872  | Park                       | WOLSELEY PARK                         | 855m     | North      |
| 53764  | Sports Court               | SKATE PARK                            | 868m     | North West |
| 53911  | Sports Court               | BASKETBALL COURTS                     | 884m     | East       |
| 53906  | Sports Court               | TENNIS COURTS                         | 894m     | North      |
| 53552  | Town                       | GUNNEDAH                              | 906m     | South East |
| 53913  | High School                | ST MARY'S COLLEGE                     | 927m     | North East |
| 54037  | Primary School             | ST XAVIER'S PRIMARY SCHOOL            | 969m     | North East |
| 53892  | Park                       | KITCHENER PARK                        | 986m     | East       |
| 53894  | Park                       | ATHOL GALLEN PARK                     | 990m     | South      |
| 53095  | Park                       | MARY DAVIS PARK                       | 994m     | East       |
| 54043  | Park                       | KITCHENER SPORTS GROUND               | 1000m    | East       |

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### **Topographic Features**

10-24 Anzac Parade, Gunnedah, NSW 2380

#### **Tanks (Areas)**

What are the Tank Areas located within the dataset buffer?

Note. The large majority of tank features provided by LPI are derived from aerial imagery & are therefore primarily above ground tanks.

| Map Id | Tank Type            | Status | Name | Feature Currency | Distance | Direction |
|--------|----------------------|--------|------|------------------|----------|-----------|
| N/A    | No records in buffer |        |      |                  |          |           |

#### **Tanks (Points)**

What are the Tank Points located within the dataset buffer?

Note. The large majority of tank features provided by LPI are derived from aerial imagery & are therefore primarily above ground tanks.

| Map Id | Tank Type | Status      | Name | Feature Currency | Distance | Direction |
|--------|-----------|-------------|------|------------------|----------|-----------|
| 17183  | 1 Water   | Operational |      | 01/10/2011       | 273m     | East      |

Tanks Data Source: © Land and Property Information (2015)

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#### **Major Easements**

What Major Easements exist within the dataset buffer?

Note. Easements provided by LPI are not at the detail of local governments. They are limited to major easements such as Right of Carriageway, Electrical Lines (66kVa etc.), Easement to drain water & Significant subterranean pipelines (gas, water etc.).

| Map Id    | Easement Class | Easement Type | Easement Width | Distance | Direction |
|-----------|----------------|---------------|----------------|----------|-----------|
| 166335309 | Primary        | Right of way  | 3m             | 564m     | North     |

Easements Data Source: © Land and Property Information (2015)

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### **Topographic Features**

10-24 Anzac Parade, Gunnedah, NSW 2380

#### **State Forest**

What State Forest exist within the dataset buffer?

| State Forest Number | State Forest Name    | Distance | Direction |
|---------------------|----------------------|----------|-----------|
| N/A                 | No records in buffer |          |           |

State Forest Data Source: © NSW Department of Finance, Services & Innovation (2018) Creative Commons 3.0 © Commonwealth of Australia http://creativecommons.org/licenses/by/3.0/au/deed.en

#### **National Parks and Wildlife Service Reserves**

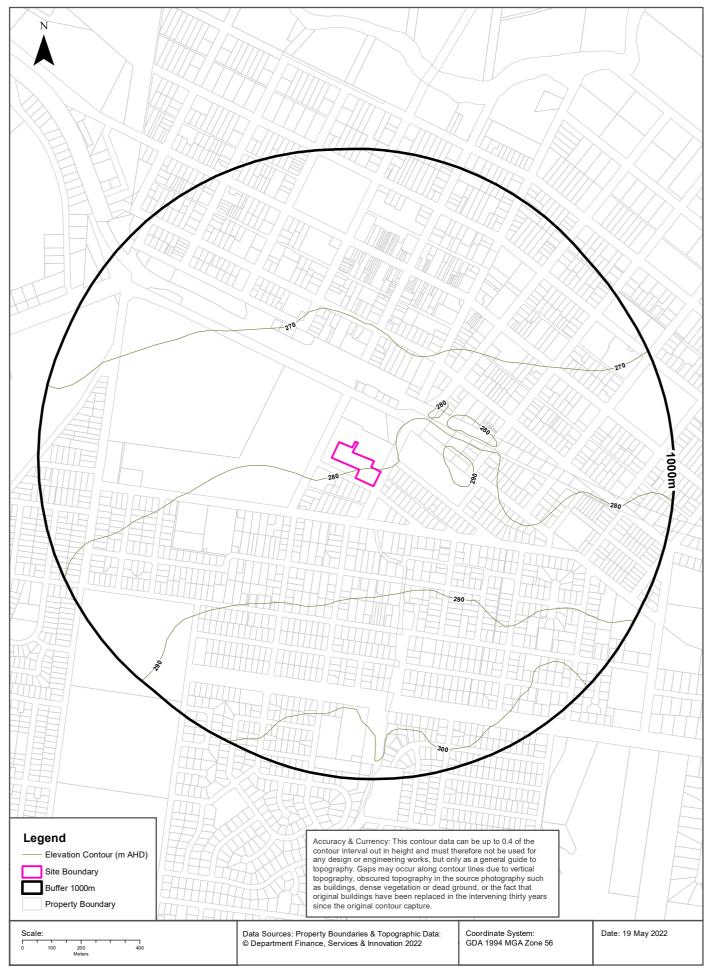
What NPWS Reserves exist within the dataset buffer?

| Reserve Number | Reserve Type         | Reserve Name | Gazetted Date | Distance | Direction |
|----------------|----------------------|--------------|---------------|----------|-----------|
| N/A            | No records in buffer |              |               |          |           |

NPWS Data Source: © NSW Department of Finance, Services & Innovation (2018) Creative Commons 3.0 © Commonwealth of Australia http://creativecommons.org/licenses/by/3.0/au/deed.en

### **Elevation Contours (m AHD)**





### **Hydrogeology & Groundwater**

10-24 Anzac Parade, Gunnedah, NSW 2380

#### Hydrogeology

Description of aquifers within the dataset buffer:

| Description                                  | Distance | Direction |
|--|----------|-----------|
| Porous, extensive highly productive aquifers | 0m       | On-site   |

Hydrogeology Map of Australia : Commonwealth of Australia (Geoscience Australia)
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# **Temporary Water Restriction (Botany Sands Groundwater Source) Order 2018**

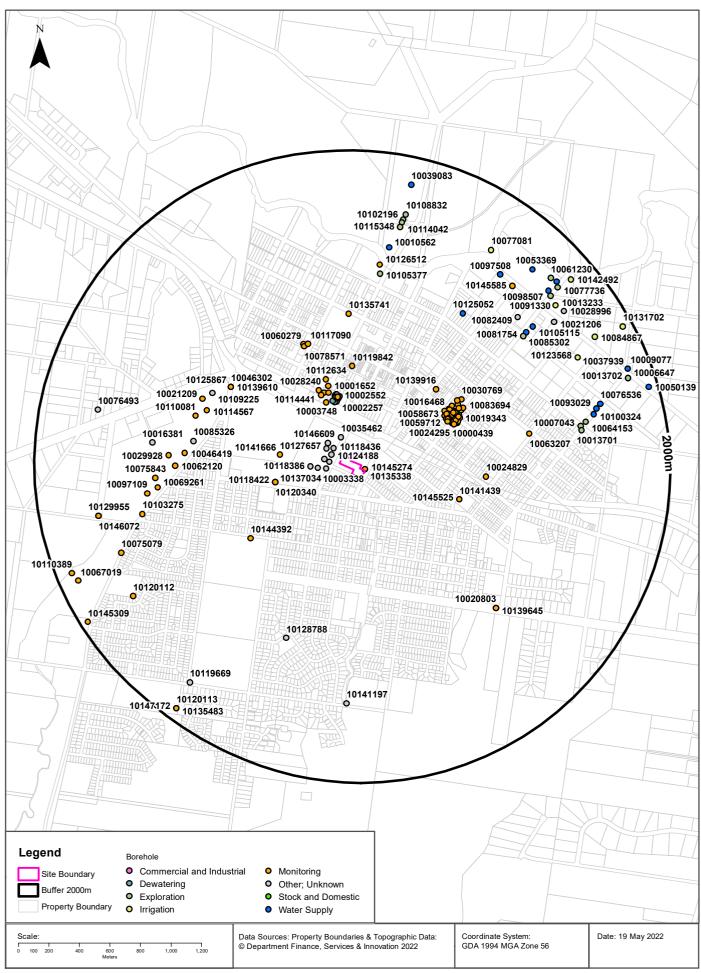
Temporary water restrictions relating to the Botany Sands aquifer within the dataset buffer:

| Prohibition<br>Area No. | Prohibition          | Distance | Direction |
|-------------------------|----------------------|----------|-----------|
| N/A                     | No records in buffer |          |           |

Temporary Water Restriction (Botany Sands Groundwater Source) Order 2018 Data Source: NSW Department of Primary Industries

#### **Groundwater Boreholes**





# **Hydrogeology & Groundwater**

10-24 Anzac Parade, Gunnedah, NSW 2380

#### **Groundwater Boreholes**

Boreholes within the dataset buffer:

| NGIS Bore<br>ID | NSW Bore<br>ID | Bore Type  | Status      | Drill Date | Bore Depth<br>(m) | Reference<br>Elevation |     | Salinity<br>(mg/L) | Yield<br>(L/s) | SWL<br>(mbgl) | Distance | Direction     |
|-----------------|----------------|------------|-------------|------------|-------------------|------------------------|-----|--------------------|----------------|---------------|----------|---------------|
| 10135338        | GW965534       | Monitoring | Abandoned   | 02/02/2000 | 10.00             |                        | AHD |                    |                |               | 5m       | East          |
| 10145274        | GW965572       | Monitoring | Unknown     | 06/05/2000 | 16.00             |                        | AHD |                    |                |               | 9m       | East          |
| 10146073        | GW965572       | Monitoring | Unknown     | 06/05/2000 | 16.00             |                        | AHD |                    |                |               | 9m       | East          |
| 10131162        | GW966965       | Unknown    | Unknown     | 20/01/2005 |                   |                        | AHD |                    |                |               | 66m      | West          |
| 10124188        | GW966967       | Unknown    | Unknown     | 20/01/2005 |                   |                        | AHD |                    |                |               | 71m      | North<br>West |
| 10118436        | GW966968       | Unknown    | Unknown     | 20/01/2005 |                   |                        | AHD |                    |                |               | 76m      | North<br>West |
| 10003338        | GW966964       | Unknown    | Unknown     | 20/01/2005 |                   |                        | AHD |                    |                |               | 93m      | West          |
| 10142933        | GW966966       | Unknown    | Unknown     | 20/01/2005 |                   |                        | AHD |                    |                |               | 102m     | West          |
| 10127657        | GW966969       | Unknown    | Unknown     | 20/01/2005 |                   |                        | AHD |                    |                |               | 116m     | North<br>West |
| 10035462        | GW966970       | Unknown    | Unknown     | 20/01/2005 |                   |                        | AHD |                    |                |               | 118m     | North         |
| 10146609        | GW966236       | Unknown    | Unknown     |            |                   |                        | AHD |                    |                |               | 128m     | North<br>West |
| 10137034        | GW966963       | Unknown    | Unknown     | 20/01/2005 |                   |                        | AHD |                    |                |               | 144m     | West          |
| 10118386        | GW966962       | Unknown    | Unknown     | 20/01/2005 |                   |                        | AHD |                    |                |               | 190m     | West          |
| 10011933        | GW969176       | Dewatering | Functioning | 01/12/2008 | 8.50              |                        | AHD |                    |                |               | 354m     | North         |
| 10003748        | GW969175       | Dewatering | Functioning | 01/12/2008 | 8.60              |                        | AHD |                    |                |               | 356m     | North         |
| 10084908        | GW969177       | Dewatering | Functioning | 01/12/2008 | 8.50              |                        | AHD |                    |                |               | 363m     | North         |
| 10004820        | GW969164       | Dewatering | Functioning | 01/12/2008 | 7.90              |                        | AHD |                    |                |               | 365m     | North         |
| 10068317        | GW969883       | Monitoring | Functional  | 03/11/2010 | 9.80              |                        | AHD |                    |                | 4.20          | 365m     | North         |
| 10002257        | GW969165       | Dewatering | Functioning | 01/12/2008 | 6.00              |                        | AHD |                    |                | 6.65          | 367m     | North         |
| 10004677        | GW969166       | Dewatering | Functioning | 01/12/2008 | 8.00              |                        | AHD |                    |                |               | 368m     | North         |
| 10002939        | GW969169       | Dewatering | Functioning | 01/12/2008 | 8.60              |                        | AHD |                    |                | 6.62          | 370m     | North         |
| 10069968        | GW969647       | Monitoring | Functional  | 07/05/2008 | 10.00             |                        | AHD |                    |                |               | 374m     | North         |
| 10002552        | GW969170       | Dewatering | Functioning | 01/12/2008 | 8.60              |                        | AHD |                    |                |               | 376m     | North         |
| 10044602        | GW969648       | Monitoring | Functional  | 07/05/2008 | 9.30              |                        | AHD |                    |                |               | 382m     | North         |
| 10112953        | GW969646       | Monitoring | Functional  | 07/05/2008 | 8.50              |                        | AHD |                    |                |               | 383m     | North         |
| 10116445        | GW969171       | Dewatering | Functioning | 01/12/2008 | 8.50              |                        | AHD |                    |                |               | 383m     | North         |
| 10028479        | GW969035       | Dewatering | Functioning | 15/06/2009 | 11.00             |                        | AHD |                    |                | 6.50          | 384m     | North         |
| 10091369        | GW969172       | Dewatering | Functioning | 01/12/2008 | 15.00             |                        | AHD |                    |                |               | 385m     | North         |
| 10003555        | GW969645       | Monitoring | Functional  | 06/05/2008 | 8.60              |                        | AHD |                    |                |               | 386m     | North         |
| 10040111        | GW969168       | Dewatering | Functioning | 01/12/2008 | 8.60              |                        | AHD |                    |                | 6.41          | 386m     | North         |
| 10004619        | GW969162       | Dewatering | Functioning | 01/12/2008 | 8.00              |                        | AHD |                    |                | 6.47          | 388m     | North         |

| NGIS Bore | NSW Bore<br>ID | Bore Type  | Status      | Drill Date | Bore Depth | Reference<br>Elevation | Height<br>Datum | Salinity<br>(mg/L) | Yield<br>(L/s) | SWL<br>(mbgl) | Distance | Direction     |
|-----------|----------------|------------|-------------|------------|------------|------------------------|-----------------|--------------------|----------------|---------------|----------|---------------|
| 10141666  | GW965533       | Monitoring | Unknown     | 02/02/2000 | 10.00      |                        | AHD             | ( 0 )              |                | ( 0,          | 393m     | West          |
| 10026719  | GW969173       | Dewatering | Functioning | 01/12/2008 | 8.50       |                        | AHD             |                    |                | 6.15          | 394m     | North         |
| 10034180  | GW969167       | Dewatering | Functioning | 01/12/2008 | 8.60       |                        | AHD             |                    |                | 6.24          | 395m     | North         |
| 10001652  | GW969174       | Dewatering | Functioning | 01/12/2008 | 8.50       |                        | AHD             |                    |                |               | 401m     | North         |
| 10069925  | GW969163       | Dewatering | Functioning | 01/12/2008 | 8.00       |                        | AHD             |                    |                |               | 402m     | North         |
| 10114441  | GW969882       | Monitoring | Functional  | 03/11/2010 | 9.00       |                        | AHD             |                    |                | 4.40          | 420m     | North<br>West |
| 10050644  | GW969877       | Monitoring | Functional  | 02/11/2010 | 8.50       |                        | AHD             |                    |                | 3.90          | 421m     | North         |
| 10009465  | GW969878       | Monitoring | Functional  | 02/11/2010 | 8.20       |                        | AHD             |                    |                | 3.80          | 429m     | North         |
| 10118422  | GW965571       | Monitoring | Unknown     | 11/05/2000 | 30.00      |                        | AHD             |                    |                |               | 439m     | West          |
| 10120340  | GW965571       | Monitoring | Unknown     | 11/05/2000 | 30.00      |                        | AHD             |                    |                |               | 439m     | West          |
| 10028240  | GW969879       | Monitoring | Functional  | 03/11/2010 | 8.20       |                        | AHD             |                    |                | 4.00          | 456m     | North<br>West |
| 10011358  | GW969881       | Monitoring | Functional  | 03/11/2010 | 7.50       |                        | AHD             |                    |                | 3.30          | 464m     | North         |
| 10112634  | GW969880       | Monitoring | Functional  | 02/11/2010 | 8.80       |                        | AHD             |                    |                | 2.80          | 510m     | North         |
| 10119842  | GW965541       | Monitoring | Unknown     | 05/02/2000 | 7.00       |                        | AHD             |                    |                |               | 584m     | North         |
| 10116613  | GW968921       | Monitoring | Functional  | 17/07/2003 | 14.00      | 270.47                 | AHD             |                    |                | 10.75         | 630m     | North<br>East |
| 10058673  | GW968982       | Monitoring | Functional  | 03/03/1999 | 10.40      |                        | AHD             |                    |                |               | 634m     | North<br>East |
| 10059712  | GW968972       | Monitoring | Functional  | 22/10/2002 | 12.20      |                        | AHD             |                    |                | 9.00          | 634m     | North<br>East |
| 10025699  | GW968923       | Monitoring | Functional  | 01/09/2000 | 11.00      |                        | AHD             |                    |                | 9.00          | 639m     | North<br>East |
| 10047648  | GW968970       | Monitoring | Functional  | 22/01/1999 | 10.20      |                        | AHD             |                    |                |               | 639m     | North<br>East |
| 10051416  | GW968973       | Monitoring | Functional  | 22/10/2002 | 14.10      |                        | AHD             |                    |                | 9.00          | 639m     | North<br>East |
| 10040912  | GW968981       | Monitoring | Functional  | 03/03/1999 | 10.30      |                        | AHD             |                    |                |               | 640m     | North<br>East |
| 10053042  | GW968968       | Monitoring | Functional  | 21/01/1999 | 10.20      |                        | AHD             |                    |                |               | 641m     | North<br>East |
| 10116063  | GW968980       | Monitoring | Functional  | 16/05/2004 | 14.00      |                        | AHD             |                    |                |               | 642m     | North<br>East |
| 10037313  | GW968920       | Monitoring | Functional  | 20/07/2003 | 14.00      | 270.08                 | AHD             |                    |                | 10.65         | 645m     | North<br>East |
| 10141439  | GW965568       | Monitoring | Unknown     | 18/05/2000 | 24.00      |                        | AHD             |                    |                |               | 648m     | East          |
| 10145525  | GW965568       | Monitoring | Unknown     | 18/05/2000 | 24.00      |                        | AHD             |                    |                |               | 648m     | East          |
| 10036649  | GW968976       | Monitoring | Functional  | 19/07/2003 | 14.00      |                        | AHD             |                    |                | 11.01         | 649m     | North<br>East |
| 10098409  | GW968928       | Monitoring | Functional  | 01/09/2000 | 12.00      |                        | AHD             |                    |                | 11.00         | 650m     | North<br>East |
| 10113787  | GW968974       | Monitoring | Functional  | 15/07/2003 | 17.00      |                        | AHD             |                    |                | 12.13         | 650m     | North<br>East |
| 10000439  | GW968987       | Monitoring | Functional  | 24/03/2001 | 10.00      |                        | AHD             |                    |                | 8.11          | 651m     | North<br>East |
| 10024295  | GW968983       | Monitoring | Functional  | 08/10/2003 | 16.10      |                        | AHD             |                    |                | 10.92         | 651m     | North<br>East |
| 10037893  | GW968969       | Monitoring | Functional  | 22/01/1999 | 10.10      |                        | AHD             |                    |                |               | 651m     | North<br>East |
| 10065506  | GW968979       | Monitoring | Functional  | 19/04/2005 | 17.00      |                        | AHD             |                    |                |               | 651m     | North<br>East |
| 10013711  | GW968924       | Monitoring | Functional  | 17/07/2003 | 14.00      | 270.47                 | AHD             |                    |                | 10.75         | 652m     | North<br>East |
| 10105817  | GW968975       | Monitoring | Functional  | 17/07/2003 | 13.00      |                        | AHD             |                    |                | 10.78         | 652m     | North<br>East |

| NGIS Bore | NSW Bore<br>ID | Bore Type  | Status     | Drill Date | Bore Depth | Reference<br>Elevation | Height<br>Datum | Salinity<br>(mg/L) | Yield<br>(L/s) | SWL<br>(mbgl) | Distance | Direction     |
|-----------|----------------|------------|------------|------------|------------|------------------------|-----------------|--------------------|----------------|---------------|----------|---------------|
| 10021721  | GW968977       | Monitoring | Functional | 19/07/2003 | 14.00      |                        | AHD             |                    |                | 11.92         | 658m     | North<br>East |
| 10109649  | GW968966       | Monitoring | Functional | 04/08/2006 | 15.50      |                        | AHD             |                    |                | 13.50         | 658m     | North<br>East |
| 10040704  | GW968967       | Monitoring | Functional | 21/01/1999 | 10.20      |                        | AHD             |                    |                |               | 659m     | North<br>East |
| 10075015  | GW968984       | Monitoring | Functional | 08/10/2003 | 18.00      |                        | AHD             |                    |                |               | 659m     | North<br>East |
| 10035774  | GW968986       | Monitoring | Functional | 23/03/2001 | 12.00      |                        | AHD             |                    |                | 7.79          | 660m     | North<br>East |
| 10096853  | GW968929       | Monitoring | Functional | 02/03/1999 | 10.30      |                        | AHD             |                    |                |               | 660m     | North<br>East |
| 10100478  | GW968930       | Monitoring | Functional | 22/10/2002 | 13.50      |                        | AHD             |                    |                | 9.00          | 660m     | North<br>East |
| 10053838  | GW968962       | Monitoring | Functional | 02/08/2006 | 15.50      |                        | AHD             |                    |                | 12.00         | 664m     | North<br>East |
| 10062736  | GW968971       | Monitoring | Functional | 22/01/1999 | 10.20      |                        | AHD             |                    |                |               | 664m     | North<br>East |
| 10093468  | GW968978       | Monitoring | Functional | 19/07/2003 | 14.00      |                        | AHD             |                    |                | 12.58         | 664m     | North<br>East |
| 10102266  | GW968960       | Monitoring | Functional | 03/08/2006 | 15.50      |                        | AHD             |                    |                | 12.00         | 665m     | North<br>East |
| 10025209  | GW968919       | Monitoring | Functional | 03/03/1999 | 10.30      |                        | AHD             |                    |                |               | 666m     | North<br>East |
| 10101799  | GW968927       | Monitoring | Functional | 22/10/2002 | 12.70      |                        | AHD             |                    |                | 9.00          | 667m     | North<br>East |
| 10034927  | GW968926       | Monitoring | Functional | 02/03/1999 | 10.40      |                        | AHD             |                    |                |               | 668m     | North<br>East |
| 10014527  | GW968922       | Monitoring | Functional | 16/07/2003 | 14.50      | 269.49                 | AHD             |                    |                | 10.95         | 669m     | North<br>East |
| 10039120  | GW968988       | Monitoring | Functional | 24/03/2001 | 18.00      |                        | AHD             |                    |                | 11.87         | 673m     | North<br>East |
| 10076598  | GW968985       | Monitoring | Functional | 24/03/2001 | 9.25       |                        | AHD             |                    |                | 8.06          | 673m     | North<br>East |
| 10080281  | GW968963       | Monitoring | Functional | 01/08/2006 | 16.50      |                        | AHD             |                    |                | 12.00         | 674m     | North<br>East |
| 10044318  | GW968961       | Monitoring | Functional | 02/08/2006 | 15.50      |                        | AHD             |                    |                | 12.50         | 675m     | North<br>East |
| 10082335  | GW968964       | Monitoring | Functional | 01/08/2006 | 16.80      |                        | AHD             |                    |                | 15.25         | 678m     | North<br>East |
| 10016468  | GW968931       | Monitoring | Functional | 20/04/2005 | 14.00      |                        | AHD             |                    |                | 11.20         | 680m     | North<br>East |
| 10050682  | GW968965       | Monitoring | Functional | 03/08/2006 | 15.50      |                        | AHD             |                    |                |               | 680m     | East          |
| 10087951  | GW968955       | Monitoring | Functional | 24/03/2001 | 10.00      |                        | AHD             |                    |                | 8.22          | 681m     | North<br>East |
| 10099862  | GW968959       | Monitoring | Functional | 09/10/2003 | 18.00      |                        | AHD             |                    |                |               | 681m     | North<br>East |
| 10075728  | GW968932       | Monitoring | Functional | 07/09/2009 | 15.00      |                        | AHD             |                    |                | 13.34         | 683m     | North<br>East |
| 10104236  | GW968958       | Monitoring | Functional | 31/08/2000 | 10.50      |                        | AHD             |                    |                | 9.00          | 683m     | North<br>East |
| 10036937  | GW968954       | Monitoring | Functional | 10/10/2003 | 18.00      |                        | AHD             |                    |                |               | 684m     | North<br>East |
| 10017616  | GW968957       | Monitoring | Functional | 25/03/2001 | 10.00      |                        | AHD             |                    |                | 8.05          | 686m     | North<br>East |
| 10089139  | GW968956       | Monitoring | Functional | 25/03/2001 | 10.00      |                        | AHD             |                    |                | 7.96          | 690m     | North<br>East |
| 10022400  | GW968939       | Monitoring | Functional | 07/11/2001 | 14.50      |                        | AHD             |                    |                |               | 693m     | North<br>East |
| 10059810  | GW968934       | Monitoring | Functional | 22/10/2002 | 12.97      |                        | AHD             |                    |                | 9.00          | 693m     | North<br>East |
| 10115600  | GW968933       | Monitoring | Functional | 03/03/1999 | 10.30      |                        | AHD             |                    |                |               | 693m     | North<br>East |
| 10059314  | GW968944       | Monitoring | Functional | 10/05/2004 | 14.00      |                        | AHD             |                    |                |               | 695m     | North<br>East |
| 10139916  | GW965540       | Monitoring | Unknown    | 05/02/2000 | 10.00      |                        | AHD             |                    |                |               | 695m     | North<br>East |

| NGIS Bore | NSW Bore<br>ID       | Bore Type              | Status     | Drill Date               | Bore Depth | Reference<br>Elevation | Height<br>Datum | Salinity<br>(mg/L) | Yield<br>(L/s) | SWL<br>(mbgl) | Distance | Direction     |
|-----------|----------------------|------------------------|------------|--------------------------|------------|------------------------|-----------------|--------------------|----------------|---------------|----------|---------------|
| 10090520  | GW968935             | Monitoring             | Functional | 20/04/2005               | 15.80      |                        | AHD             |                    |                |               | 697m     | North<br>East |
| 10088190  | GW968940             | Monitoring             | Functional | 14/05/2004               | 12.38      |                        | AHD             |                    |                |               | 698m     | North<br>East |
| 10020766  | GW968951             | Monitoring             | Functional | 09/10/2003               | 18.00      |                        | AHD             |                    |                | 11.28         | 699m     | North<br>East |
| 10025818  | GW968942             | Monitoring             | Functional | 16/07/2003               | 17.00      |                        | AHD             |                    |                | 11.10         | 699m     | North<br>East |
| 10070294  | GW968941             | Monitoring             | Functional | 14/05/2004               | 14.65      |                        | AHD             |                    |                |               | 704m     | North<br>East |
| 10099408  | GW968943             | Monitoring             | Functional | 14/08/2001               | 12.10      |                        | AHD             |                    |                | 9.08          | 706m     | North<br>East |
| 10021518  | GW968949             | Monitoring             | Functional | 10/10/2003               | 18.00      |                        | AHD             |                    |                | 11.37         | 708m     | North<br>East |
| 10106581  | GW968953             | Monitoring             | Functional | 09/10/2003               | 18.00      |                        | AHD             |                    |                | 10.93         | 709m     | North<br>East |
| 10032174  | GW968938             | Monitoring             | Functional | 06/11/2001               | 14.50      |                        | AHD             |                    |                |               | 711m     | North<br>East |
| 10020226  | GW968952             | Monitoring             | Functional | 14/08/2001               | 12.10      |                        | AHD             |                    |                | 8.50          | 712m     | North<br>East |
| 10077454  | GW968950             | Monitoring             | Functional | 09/10/2003               | 18.00      |                        | AHD             |                    |                | 10.66         | 713m     | North<br>East |
| 10019343  | GW968946             | Monitoring             | Functional | 01/09/2000               | 12.00      |                        | AHD             |                    |                | 9.00          | 719m     | North<br>East |
| 10110078  | GW968945             | Monitoring             | Functional | 07/11/2001               | 14.50      |                        | AHD             |                    |                |               | 740m     | North<br>East |
| 10082744  | GW968948             | Monitoring             | Functional | 13/05/2004               | 14.46      |                        | AHD             |                    |                | 11.23         | 744m     | North<br>East |
| 10041268  | GW968936             | Monitoring             | Functional | 06/11/2001               | 14.50      |                        | AHD             |                    |                |               | 747m     | North<br>East |
| 10070400  | GW968937             | Monitoring             | Functional | 07/09/2009               | 14.50      |                        | AHD             |                    |                |               | 757m     | North<br>East |
| 10078571  | GW971104             | Monitoring             | Functional | 14/07/2010               | 9.00       |                        | AHD             |                    |                | 7.00          | 759m     | North         |
| 10144392  | GW965535             | Monitoring             | Unknown    | 02/02/2000               | 10.00      |                        | AHD             |                    |                |               | 762m     | South<br>West |
| 10083694  | GW968947             | Monitoring             | Functional | 13/05/2004               | 14.47      |                        | AHD             |                    |                | 11.04         | 766m     | North<br>East |
| 10117090  | GW971106             | Monitoring             | Functional | 14/07/2010               | 10.00      |                        | AHD             |                    |                | 6.00          | 766m     | North         |
| 10060279  | GW971105             | Monitoring             | Functional | 14/07/2010               | 9.00       |                        | AHD             |                    |                | 7.00          | 773m     | North         |
| 10030769  | GW968925             | Monitoring             | Functional | 01/09/2000               | 12.00      |                        | AHD             |                    |                | 9.00          | 784m     | North<br>East |
| 10024829  | GW970235             | Monitoring             | Functional | 07/12/2010               | 18.10      |                        | AHD             |                    |                |               | 795m     | East          |
| 10046302  | GW965543             | Monitoring             | Unknown    | 10/02/2000               | 10.00      |                        | AHD             |                    |                |               | 861m     | North<br>West |
| 10125867  | GW965573             | Monitoring             | Unknown    | 06/05/2000               | 16.00      |                        | AHD             |                    |                |               | 861m     | North<br>West |
| 10139610  | GW965532             | Monitoring             | Unknown    | 10/02/2000               | 10.00      |                        | AHD             |                    |                |               | 861m     | North<br>West |
| 10135741  | GW965542             | Monitoring             | Unknown    | 10/02/2000               | 8.00       |                        | AHD             |                    |                |               | 928m     | North         |
| 10114567  | GW970245             | Monitoring             | Removed    | 25/05/2012               | 3.00       |                        | AHD             |                    |                |               | 935m     | West          |
| 10109225  | GW966959             | Unknown                | Unknown    | 20/01/2005               |            |                        | AHD             |                    |                |               | 949m     | North<br>West |
| 10085326  | GW966960             | Unknown                | Unknown    | 20/01/2005               |            |                        | AHD             |                    |                |               | 968m     | West          |
| 10021209  | GW970240             | Monitoring             | Functional | 24/05/2012               | 9.80       |                        | AHD             |                    |                |               | 991m     | North<br>West |
| 10110081  | GW970243             | Monitoring             | Abandoned  | 24/05/2012               | 4.00       |                        | AHD             |                    |                |               | 991m     | West          |
| 10046419  | GW970241             | Monitoring             | Functional | 24/05/2012               | 5.50       |                        | AHD             |                    |                |               | 1015m    | West          |
| 10062120  | GW970246<br>GW965539 | Monitoring  Monitoring | Removed    | 25/05/2012<br>02/02/2000 | 3.00       |                        | AHD             |                    |                |               | 1076m    | West          |
| 10003207  | 344902039            | worldoning             | Abandoned  | 02/02/2000               | 10.00      |                        | АПИ             |                    |                |               | 1 IUOIII | L'dSl         |

| NGIS Bore | NSW Bore<br>ID | Bore Type    | Status      | Drill Date | Bore Depth<br>(m) | Reference<br>Elevation | Height<br>Datum | Salinity<br>(mg/L) | Yield<br>(L/s) | SWL<br>(mbgl) | Distance | Direction     |
|-----------|----------------|--------------|-------------|------------|-------------------|------------------------|-----------------|--------------------|----------------|---------------|----------|---------------|
| 10029928  | GW970244       | Monitoring   | Removed     | 24/05/2012 | 4.00              |                        | AHD             |                    |                |               | 1119m    | West          |
| 10128788  | GW966234       | Unknown      | Unknown     |            |                   |                        | AHD             |                    |                |               | 1158m    | South         |
| 10125052  | GW027731       | Water Supply | Removed     | 01/08/1966 | 9.40              |                        | AHD             | 1001-<br>3000 ppm  |                |               | 1180m    | North<br>East |
| 10069261  | GW970239       | Monitoring   | Functional  | 24/05/2012 | 2.50              |                        | AHD             |                    |                |               | 1200m    | West          |
| 10105377  | GW021084       | Exploration  | Proposed    | 01/09/1965 | 35.10             |                        | AHD             |                    |                |               | 1205m    | North         |
| 10075843  | GW970247       | Monitoring   | Removed     | 24/05/2012 | 3.00              |                        | AHD             |                    |                |               | 1209m    | West          |
| 10020803  | GW965538       | Monitoring   | Unknown     | 02/02/2000 | 10.00             |                        | AHD             |                    |                |               | 1228m    | South<br>East |
| 10139645  | GW965566       | Monitoring   | Unknown     | 17/05/2000 | 24.00             |                        | AHD             |                    |                |               | 1228m    | South<br>East |
| 10016381  | GW966961       | Unknown      | Unknown     | 20/01/2005 |                   |                        | AHD             |                    |                |               | 1232m    | West          |
| 10126512  | GW965580       | Monitoring   | Unknown     | 14/08/2002 | 18.00             |                        | AHD             |                    |                |               | 1261m    | North         |
| 10097109  | GW970248       | Monitoring   | Removed     | 24/05/2012 | 3.00              |                        | AHD             |                    |                |               | 1275m    | West          |
| 10103275  | GW970252       | Monitoring   | Removed     | 24/05/2012 | 3.00              |                        | AHD             |                    |                |               | 1333m    | West          |
| 10081754  | GW012784       | Exploration  | Proposed    | 01/05/1939 | 18.30             |                        | AHD             |                    |                |               | 1357m    | North<br>East |
| 10010562  | GW018479       | Water Supply | Proposed    | 01/01/1961 | 20.90             |                        | AHD             |                    |                |               | 1384m    | North         |
| 10085302  | GW018486       | Water Supply | Proposed    | 01/05/1939 | 18.30             |                        | AHD             |                    |                |               | 1387m    | North<br>East |
| 10082409  | GW901427       | Other        | Unknown     | 01/01/1993 | 12.00             |                        | AHD             |                    |                |               | 1411m    | North<br>East |
| 10007043  | GW012785       | Exploration  | Proposed    | 01/05/1939 | 12.20             |                        | AHD             |                    |                |               | 1444m    | East          |
| 10013701  | GW012782       | Exploration  | Proposed    | 01/05/1939 | 15.80             |                        | AHD             |                    |                |               | 1444m    | East          |
| 10105115  | GW061049       | Water Supply | Functioning | 01/04/1985 | 20.70             |                        | AHD             | Fair               |                |               | 1447m    | North<br>East |
| 10064153  | GW012786       | Exploration  | Proposed    | 01/05/1939 | 18.30             |                        | AHD             |                    |                |               | 1483m    | East          |
| 10141197  | GW966235       | Unknown      | Unknown     |            |                   |                        | AHD             |                    |                |               | 1483m    | South         |
| 10145585  | GW965581       | Monitoring   | Unknown     | 14/08/2002 | 15.00             |                        | AHD             |                    |                |               | 1527m    | North<br>East |
| 10115348  | GW012791       | Exploration  | Proposed    | 01/05/1939 | 11.30             |                        | AHD             |                    |                |               | 1530m    | North         |
| 10097508  | GW018482       | Water Supply | Proposed    | 01/05/1939 | 18.90             |                        | AHD             |                    |                |               | 1531m    | North<br>East |
| 10075079  | GW970253       | Monitoring   | Removed     | 25/05/2012 | 3.00              |                        | AHD             |                    |                |               | 1545m    | West          |
| 10100324  | GW018484       | Water Supply | Proposed    | 01/05/1939 | 15.80             |                        | AHD             |                    |                |               | 1546m    | East          |
| 10114042  | GW012787       | Exploration  | Proposed    | 01/05/1939 | 21.30             |                        | AHD             |                    |                |               | 1561m    | North         |
| 10093029  | GW018487       | Water Supply | Proposed    | 01/05/1939 | 12.20             |                        | AHD             |                    |                |               | 1571m    | East          |
| 10021206  | GW028548       | Other        | Unknown     | 01/07/1968 | 19.50             |                        | AHD             |                    |                |               | 1573m    | North<br>East |
| 10123568  | GW037354       | Irrigation   | Unknown     | 01/03/1973 | 15.20             |                        | AHD             |                    |                |               | 1580m    | North<br>East |
| 10102196  | GW012789       | Exploration  | Proposed    | 01/05/1939 | 20.70             |                        | AHD             |                    |                |               | 1582m    | North         |
| 10076536  | GW018488       | Water Supply | Proposed    | 01/05/1939 | 18.30             |                        | AHD             |                    |                |               | 1604m    | East          |
| 10120112  | GW965536       | Monitoring   | Abandoned   | 02/02/2000 | 6.00              |                        | AHD             |                    |                |               | 1609m    | South<br>West |
| 10129955  | GW965567       | Monitoring   | Abandoned   | 18/05/2002 | 24.00             |                        | AHD             |                    |                |               | 1614m    | West          |
| 10146072  | GW965567       | Monitoring   | Abandoned   | 18/05/2002 | 24.00             |                        | AHD             |                    |                |               | 1614m    | West          |
| 10108832  | GW012790       | Exploration  | Proposed    | 01/05/1939 | 14.00             |                        | AHD             |                    |                |               | 1618m    | North         |

| NGIS Bore<br>ID | NSW Bore<br>ID | Bore Type    | Status             | Drill Date | Bore Depth<br>(m) | Reference<br>Elevation | Height<br>Datum | Salinity<br>(mg/L) | Yield<br>(L/s) | SWL<br>(mbgl) | Distance | Direction     |
|-----------------|----------------|--------------|--------------------|------------|-------------------|------------------------|-----------------|--------------------|----------------|---------------|----------|---------------|
| 10076493        | GW024734       | Unknown      | Functioning        | 01/01/1941 | 32.30             |                        | AHD             |                    |                |               | 1620m    | West          |
| 10077081        | GW901920       | Irrigation   | Unknown            | 10/12/1994 | 28.00             |                        | AHD             |                    | 7.000          | 11.00         | 1625m    | North<br>East |
| 10013233        | GW062173       | Irrigation   | Functioning        |            | 8.50              |                        | AHD             |                    |                |               | 1650m    | North<br>East |
| 10091330        | GW012781       | Exploration  | Proposed           | 01/05/1939 | 11.60             |                        | AHD             |                    |                |               | 1664m    | North<br>East |
| 10028996        | GW008751       | Unknown      | Unknown            | 01/01/1961 | 13.40             |                        | AHD             |                    |                |               | 1668m    | North<br>East |
| 10098507        | GW018481       | Water Supply | Proposed           | 01/05/1939 | 14.60             |                        | AHD             |                    |                |               | 1678m    | North<br>East |
| 10053369        | GW966786       | Water Supply | Unknown            |            |                   |                        | AHD             |                    |                |               | 1695m    | North<br>East |
| 10119669        | GW966233       | Unknown      | Unknown            | 19/03/2004 |                   |                        | AHD             |                    |                |               | 1732m    | South<br>West |
| 10077736        | GW012779       | Exploration  | Proposed           | 01/05/1939 | 12.20             |                        | AHD             |                    |                |               | 1736m    | North<br>East |
| 10061230        | GW012780       | Exploration  | Proposed           | 01/05/1939 | 18.90             |                        | AHD             |                    |                |               | 1743m    | North<br>East |
| 10084867        | GW902040       | Irrigation   | Unknown            | 01/01/1987 | 25.00             |                        | AHD             | Good               | 4.000          | 4.60          | 1744m    | North<br>East |
| 10017791        | GW018483       | Water Supply | Proposed           | 01/05/1939 | 11.60             |                        | AHD             |                    |                |               | 1756m    | North<br>East |
| 10039083        | GW018472       | Water Supply | Proposed           |            | 61.00             |                        | AHD             |                    |                |               | 1817m    | North         |
| 10006647        | GW012783       | Exploration  | Proposed           | 01/05/1939 | 16.80             |                        | AHD             |                    |                |               | 1829m    | East          |
| 10013702        | GW018485       | Water Supply | Proposed           | 01/05/1939 | 16.50             |                        | AHD             |                    |                |               | 1829m    | East          |
| 10142492        | GW053350       | Irrigation   | Unknown            | 01/10/1981 | 25.00             |                        | AHD             |                    |                |               | 1837m    | North<br>East |
| 10009077        | GW008750       | Water Supply | Unknown            | 01/01/1961 | 13.70             |                        | AHD             |                    |                |               | 1849m    | East          |
| 10037939        | GW018480       | Water Supply | Proposed           |            | 13.40             |                        | AHD             |                    |                |               | 1849m    | East          |
| 10067019        | GW970298       | Monitoring   | Removed            | 23/05/2012 | 2.00              |                        | AHD             |                    |                |               | 1877m    | South<br>West |
| 10110389        | GW970299       | Monitoring   | Removed            | 23/05/2012 | 4.00              |                        | AHD             |                    |                |               | 1895m    | West          |
| 10120113        | GW965570       | Monitoring   | Functional         | 10/05/2000 | 30.00             |                        | AHD             |                    |                |               | 1921m    | South<br>West |
| 10135483        | GW965570       | Monitoring   | Functional         | 10/05/2000 | 30.00             |                        | AHD             |                    |                |               | 1921m    | South<br>West |
| 10147172        | GW965570       | Monitoring   | Functional         | 10/05/2000 | 30.00             |                        | AHD             |                    |                |               | 1921m    | South<br>West |
| 10131702        | GW053828       | Irrigation   | Decommiss ioned    |            | 32.00             |                        | AHD             |                    |                |               | 1937m    | North<br>East |
| 10050139        | GW017092       | Water Supply | Non-<br>functional | 01/09/1960 | 16.00             |                        | AHD             | Potable            |                |               | 1939m    | East          |
| 10145309        | GW965537       | Monitoring   | Unknown            | 02/02/2000 | 7.00              |                        | AHD             |                    |                |               | 1950m    | South<br>West |

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## **Hydrogeology & Groundwater**

10-24 Anzac Parade, Gunnedah, NSW 2380

### **Driller's Logs**

Drill log data relevant to the boreholes within the dataset buffer:

| NGIS Bore ID | Drillers Log  | Distance | Direction |
|--------------|---|----------|-----------|
| 10135338     | 0.00m-2.00m silty/clay loam 2.00m-8.00m silty/clay 8.00m-9.00m silty/clay loam 9.00m-10.00m silty/clay  | 5m       | East      |
| 10145274     | 0.00m-1.00m silty clay loam black 1.00m-2.00m clay/red with gravel 2.00m-5.00m silty clay with gravel mudstone/siltstone chips 5.00m-7.00m silty clay loam 7.00m-8.00m silty clay damp with gravel 8.00m-9.00m silty clay 9.00m-10.00m silty/sandy clay chert+qtz;weathered sandstone 10.00m-12.00m clay/sticky fine to medium gravel 12.00m-13.00m clay/with silt and sand 13.00m-13.50m basalt weathered 13.50m-16.00m basalt weathered                                   | 9m       | East      |
| 10146073     | 0.00m-1.00m silty clay loam black 1.00m-2.00m clay/red with gravel 2.00m-5.00m silty clay with gravel mudstone/siltstone chips 5.00m-7.00m silty clay loam 7.00m-8.00m silty clay damp with gravel 8.00m-9.00m silty clay 9.00m-10.00m silty/sandy clay chert+qtz;weathered sandstone 10.00m-12.00m clay/sticky fine to medium gravel 12.00m-13.00m clay/with silt and sand 13.00m-13.50m basalt weathered 13.50m-16.00m basalt weathered                                   | 9m       | East      |
| 10011933     | 0.00m-0.40m Fill 0.40m-5.20m Silty Clay, dark brown, medium-high plasticity 5.20m-8.50m Silty Clay, as above, red brown colour change at 5.2m   | 354m     | North     |
| 10003748     | 0.00m-0.40m Fill 0.40m-4.80m Silty Clay, brown/dark brown, medium-high plasticity 4.80m-8.60m Silty Clay, as above, red brown colour change at 4.8m   | 356m     | North     |
| 10084908     | 0.00m-0.40m Fill 0.40m-5.00m Silty Clay, brown/dark brown, high plasticity 5.00m-8.50m Silty Clay, red brown colour change at 5m  | 363m     | North     |
| 10004820     | 0.00m-0.20m Fill, Sandy Gravel, orange brown, fine-medium grained, medium-coarse sand 0.20m-2.00m Silty Clay, dark brown, medium-high plasticity 2.00m-7.00m Clay, orange brown, medium plasticity with traces of some fine grained gravels 7.00m-8.80m Clay, Sandy Gravelly, orange brown, medium plasticity, medium-coarse sand, fine-medium gravel   | 365m     | North     |
| 10068317     | 0.00m-0.20m Fill; Bitumen - roadbase with red brown clay & bituminous gravels, moist 0.20m-2.00m Clay; red brown, medium plasticity, with some fine sand & fine gravel, moist 2.00m-9.80m Clay; red brown, low to medium plasticity, with trace fine to medium sand, dry to wet (very stiff), Slight HC odour @ 4m  | 365m     | North     |
| 10002257     | 0.00m-0.20m Fill, Clayey Sandy Gravel, orange brown, fine-medium, medium plasticity fines, coarse sands 0.20m-0.80m Silty Clay, dark brown/grey, high plasticity 0.80m-3.20m Clay, orange brown/red brown, high plasticity with traces of some fine gravels (Stiff) 3.20m-5.00m Clay, pale brown, high plasticity with some traces of medium-coarse sands 5.00m-6.00m Silty Clay, orange brown, high plasticity with traces of some hydrocarbon odour increasing with depth | 367m     | North     |
| 10004677     | 0.00m-0.20m Fill, Clayey Sandy Gravel, orange brown, fine-medium, medium plasticity fines, medium-coarse sands 0.20m-0.90m Sitty Clay, dark brown/grey, high plasticity 0.90m-3.50m Clay, orange brown, high plasticity with traces of some fine grained gravels 3.50m-5.20m Clay, pale brown, high plasticity with traces of some medium-coarse grained sands 5.20m-8.00m Sitty Clay, dark brown, high plasticity with traces of some moderate hydrocarbon odour from 6m   | 368m     | North     |
| 10002939     | 0.00m-0.30m Fill, Gravelly Sand, brown/dark brown, fine-coarse, fine-medium gravels with traces of medium plasticity clay fines 0.30m-2.50m Silty Clay, brown, medium-high plasticity 2.50m-4.50m Silty Clay, as above, red brown from 2.5m 4.50m-8.60m Silty Clay, as above, brown/yellow brown from 4.5m (Strong odour)   | 370m     | North     |

| NGIS Bore ID | Drillers Log  | Distance | Direction  |
|--------------|---|----------|------------|
| 10069968     | 0.00m-1.00m Gravel, sandy, brown, fine to coarse sand 1.00m-2.00m Sandy Clay, brown, medium plasticity, coarse sand 2.00m-7.00m Clay, brown, high palsticity, with fine to coarse sand 7.00m-10.00m Clay, grey, high plasticity, with fine to coarse sand, strong hydrocarbon odour   | 374m     | North      |
| 10002552     | 0.00m-0.40m Fill, Gravelly Sand, brown, fine-coarse, fine-medium gravels 0.40m-3.00m Silty Clay, brown, high plasticity 3.00m-8.60m Silty Clay, yellow brown from 3m  | 376m     | North      |
| 10044602     | 0.00m-1.00m Gravel, sandy, brown, fine to coarse gravel, fine to coarse sand 1.00m-2.00m Sandy Clay, brown, medium plasticity, coarse sand 2.00m-8.00m Silty Clay, brown, high plasticity, low liquid limit fines, trace of calcareous inclusions @ 5m, moderate HC odour @ 5.2 8.00m-11.00m Clay, grey, mottled brown, high plasticity, with fine to coarse sand & fine to medium gravel throughout  | 382m     | North      |
| 10112953     | 0.00m-1.00m Gravel, sandy, brown, fine to coarse gravel, fine to coarse sand 1.00m-2.00m Sandy Clay, brown, medium plasticity, coarse sand 2.00m-4.00m Clay, brown, medium to high plasticity, with fine to medium gravel & medium to coarse sand 4.00m-9.00m Clay, brown, hgih plasticity, with fine to coarse sand, moderate to strong hydrocarbon odour  | 383m     | North      |
| 10116445     | 0.00m-0.40m Fill, Gravelly Sand, brown, fine-coarse, fine-medium gravels 0.40m-4.00m Silty Clay, brown, high plasticity with traces of coarse sands & fine gravels with possible calcareous inclusions 4.00m-8.50m Silty Clay, as above, brown/yellow from 4m   | 383m     | North      |
| 10028479     | 0.00m-3.00m Silty Clay, dark brown, medium-high plasticity 3.00m-9.00m Silty Clay, dark brown, high plasticity 9.00m-11.00m Gravel & Clay bands, fine-coarse gravel   | 384m     | North      |
| 10091369     | 0.00m-3.00m Silty Clay, dark brown, medium-high plasticity 3.00m-6.00m Silty Clay, as above, moderate hydrocarbon odour at 3m 6.00m-7.50m Silty Clay, as above, very stiff from 6m. 7.50m-9.00m Silty Clay, as above, strong hydrocarbon odour from 7.5m & soft from 7.5-11m 9.00m-10.20m Silty Clay, as above, gravel band from 9-9.2m 10.20m-12.50m Silty Clay, as above, gravel band from 10.2-10.4m 12.50m-15.00m Silty Clay, as above, gravel band from 12.5-12.7m | 385m     | North      |
| 10003555     | 0.00m-0.80m Gravel, sandy, brown, fine to coarse gravels, fine to coarse sand 0.80m-2.00m Sandy Clay, brown, medium to high plasticity, coarse sand 2.00m-7.00m Silty Clay, brown, medium plasticity, low liquid limit fines, trace of fine gravel, calcareous inclusions @ 4m. 7.00m-8.60m Silty Clay, brown with grey mottling, high plasticity, low liquid limit fines, slightly hydrocarbon odour   | 386m     | North      |
| 10040111     | 0.00m-0.30m Fill, Gravelly Sand, brown/orange brown, fine-coarse, fine-medium gravels, with traces of medium plasticity fines 0.30m-1.60m Silty Clay, brown, medium-high plasticity 1.60m-4.50m Silty Clay, as above, red brown from 1.6m 4.50m-8.60m Silty Clay, as above, brown/yellow brown from 4.5m.   | 386m     | North      |
| 10004619     | 0.00m-0.10m Fill, Sandy Gravel, orange brown, fine-medium grained, medium-coarse sand 0.10m-2.20m Silty Clay, dark brown, medium-high plasticity 2.20m-7.00m Clay, orange brown, medium plasticity with traces of some fine grained gravels & a possible light fraction hydrocarbon o 7.00m-8.00m Clay, Sandy Gravelly, orange brown, medium plasticity, fine-medium grained gravel, coarse sand  | 388m     | North      |
| 10141666     | 0.00m-1.00m silty/clay with sand 1.00m-2.00m silty/clay with sand brown 2.00m-3.00m silty/clay 3.00m-4.00m silty/clay gravelly 4.00m-5.00m gravelly/silty/clay 5.00m-6.00m silty/clay with gravel 6.00m-10.00m silty/clay   | 393m     | West       |
| 10026719     | 0.00m-0.10m Fill, Gravel, grey, fine-medium 0.10m-0.30m Fill, Gravelly Sand, brown/red brown, fine-coarse, fine-medium 0.30m-2.00m Silty Clay, dark brown, high plasticity 2.00m-4.50m Silty Clay, as above, hard band from 2-2.5m 4.50m-8.50m Silty Clay, as above, red brown colour change at 4.5m  | 394m     | North      |
| 10034180     | 0.00m-0.60m Fill, Gravelly Sand, brown/dark brown, fine-coarse, fine-medium gravels, with some medium plasticity clays 0.60m-0.80m Silty Clay, brown, high plasticity 0.80m-4.00m Silty Clay, as above, red brown tinge from 0.8m. 4.00m-8.60m Silty Clay, as above, brown/yellow at 4m with traces of fine-medium sands  | 395m     | North      |
| 10001652     | 0.00m-0.20m Fill, Gravelly Sand, dark brown, fine-coarse, fine-medium gravels 0.20m-4.50m Silty Clay, brown/orange brown, medium-high plasticity 4.50m-8.50m Silty Clay, as above, red brown colour change at 4.5m  | 401m     | North      |
| 10069925     | 0.00m-0.10m Fill, Sandy Gravel, orange brown, fine to medium grained, medium to coarse sand 0.10m-2.00m Silty Clay, dark brown, medium to high plasticity 2.00m-7.20m Clay, orange brown, medium plasticity with traces of some fine grained gravel 7.20m-8.80m Clay, Sandy Gravelly, orange brown, medium plasticity, coarse sand, fine-medium gravel  | 402m     | North      |
| 10114441     | 0.00m-0.15m Topsoil; grass cover with red brown, moist, medium plasticity clay 0.15m-3.00m Clay; red brown, medium plasticity, dry 3.00m-6.70m Clay; red brown, medium plasticity, with minor subangular-subrounded fine gravels (ironstone), mosit, HC odour at 3.4m 6.70m-7.20m Clay; red brown, very stiff, low palsticity, moist to wet, strong HC odour at 6.7m 7.20m-9.00m Clay; red brown, medium plasticity, with some subangular fine gravel (ironstone), wet  | 420m     | North West |

| NGIS Bore ID | Drillers Log  | Distance | Direction  |
|--------------|---|----------|------------|
| 10050644     | 0.00m-0.20m Fill; black/brown, sandy gravel (roadbase) 0.20m-2.20m Clay; red/brown, medium plasticity, with minor fine to coarse sand & medium to coarse gravels, dry, contamination observ 2.20m-6.80m Clay; red/brown, low plasticity, with minor fine to medium subangular ironstone gravels, dry. Trace black coal gravels 6.80m-8.50m Sandy Clay; red/brown clay with some fine to coarse sand & fine ironstone gravels, moist becoming wet after 8m   | 421m     | North      |
| 10009465     | 0.00m-0.20m Topsoil; dark brown clay with grass cover, moist 0.20m-3.80m Clay; red brown, medium plasticity, moist 3.80m-6.50m Clay; red brown, medium plasticity, dry with some sand & trace silt, slight HC odour at 4.8m & HC odour at 6m 6.50m-8.20m Silty Clay; red brown, very wet  | 429m     | North      |
| 10118422     | 0.00m-1.00m clay silty black 1.00m-4.00m clay/yellow brown with gravel layer 4.00m-5.00m clay/with gravel layer 5.00m-10.00m silty clay red brown with gravel weathered sandstone 10.00m-12.00m sandstone lithic red brown and mudstone 12.00m-14.00m same as above with gravel 14.00m-18.00m clay/pink gravelly with white flakes 18.00m-20.00m mudstone/sandstone weathered with gravel (damp) 20.00m-24.00m clay/sticky with gravel 24.00m-27.00m as above with white flakes 27.00m-30.00m clay/with gravel  | 439m     | West       |
| 10120340     | 0.00m-1.00m clay silty black 1.00m-4.00m clay/yellow brown with gravel layer 4.00m-5.00m clay/with gravel layer 5.00m-10.00m silty clay red brown with gravel weathered sandstone 10.00m-12.00m sandstone lithic red brown and mudstone 12.00m-14.00m same as above with gravel 14.00m-18.00m clay/pink gravelly with white flakes 18.00m-20.00m mudstone/sandstone weathered with gravel (damp) 20.00m-24.00m clay/sticky with gravel 24.00m-27.00m as above with white flakes 27.00m-30.00m clay/with gravel  | 439m     | West       |
| 10028240     | 0.00m-0.20m Topsoil; red brown, medium plasticity moist clay, with minor fine to coarse sand 0.20m-6.50m Clay; red brown, medium to low plasticity, with trace fine to medium sand, dry 6.50m-8.50m Clay; red brown, medium to low palsticity clay with trace fine sand, moist to wet at 7.6m   | 456m     | North West |
| 10011358     | 0.00m-0.20m Topsoil; grass cover with red brown medium plasticity clay, with some fine sand & gravels, moist 0.20m-2.15m Clay; red brown, with some fine to medium sand & gravels, moist 2.15m-4.80m Clay; red brown, with trace fine sand & gravel, dry to moist 4.80m-7.50m Clay; red brown, low plasticity, with trace sand & fine gravel, moist to wet  | 464m     | North      |
| 10112634     | 0.00m-0.20m Fill; Bitumen & roadbase 0.20m-3.30m Clay; red brown, stiff with minor fine grained sand, moist 3.30m-4.00m Clay; red brown, stiff, with minor subrounded gravel (basalt), dry 4.00m-4.80m Clay, Gravelly; red brown, stiff, high plasticity, with fine to coarse sand & medium gravel, dry 4.80m-7.10m Clay; red brown, medium to high plasticity (stiff), with fine to medium sand, becoming moist 7.10m-7.90m Clay; red brown, stiff, with minor fine to coarse sandy & subrounded gravels, including sandstone & small coal fragments 7.90m-9.00m Sand, Silty; light brown to yellow, fine grained, with trace fine gravel, wet | 510m     | North      |
| 10119842     | 0.00m-1.00m silty/clay 1.00m-2.00m clay/brown with sand 2.00m-3.00m clay/brown with gravel 3.00m-4.00m clay/brown with sand and gravel 4.00m-5.00m silty/clay brown 5.00m-7.00m clay/brown  | 584m     | North      |
| 10116613     | 0.00m-1.00m Silty Clay, soft, moist, high plasticity, red brown 1.00m-1.10m Silty Clay, with minor Gravel, slightly moist, red brown 1.10m-2.00m Silty Clay, with minor Sand, stiff, slightly moist, red brown 2.00m-4.00m Silty Clay, stiff, slightly moist, red brown 4.00m-6.00m Sand, Silty Clayey, dense, slightly moist, brown 6.00m-8.00m Gravel, with minor Silt & Clay, dense, slightly moist, grey brown 8.00m-10.00m Sand, with minor Silt & Clay, dense, slightly moist, grey brown 10.00m-14.00m Silty Clay, with minor Gravel, stiff, moist to slightly moist, brown  | 630m     | North East |
| 10058673     | 0.00m-0.50m Fill, Gravel & Sand, orange/brown, moist, soft. 0.50m-2.00m Clay, hard, red/grey, moist, low plasticity 2.00m-10.40m Clay, brown to brown/orange, slightly moist to dry, very minor sandy clay layers & sandy gravel layers. Water at 8.1m  | 634m     | North East |
| 10059712     | 0.00m-1.00m Sand; red brown, friable, loose, no odour. 1.00m-2.50m Rock fragments, calcite/ironstone, white, hard 2.50m-6.50m Sandy Clay; red brown, slightly damp, soft, firm. 6.50m-8.00m Rock fragments, calcite/ironstone 8.00m-12.20m Sandy Clay, damp, soft, red brown  | 634m     | North East |
| 10025699     | 0.00m-1.00m Fill; Gravel & Sand, dry, brown/ligh grey. Strong HC odour 1.00m-4.50m Clay; mid brown, stiff, slightly damp. Strong HC odour 4.50m-8.00m Clay; red brown, minor Gravel, damp, firm. Strong odour. 8.00m-11.00m Clay; brown, semi plastic, pedal, stiff, slightly moist   | 639m     | North East |

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|--------------|---|----------|------------|
| 10047648     | 0.00m-7.80m Clay; dark red/brown, dry to slightly moist, loose, becoming dense & stiff with depth, minor gravel 7.80m-9.00m Sandy Clay; slightly moist, brown, soft to moderate, water at 9m 9.00m-10.20m Sandstone, weathered; moist, soft, brown, minor hard dense fractures  | 639m     | North East |
| 10051416     | 0.00m-1.00m Soil; red brown<br>1.00m-1.50m Sand; minor gravel & clay, dry<br>1.50m-14.10m Clay; friable, loose, tiny interbands of gravel   | 639m     | North East |
| 10040912     | 0.00m-1.00m Gravel, sandy & clay; light brown, moist, soft, possibly fill 1.00m-2.20m Clay, red, hard, slightly moist, low plasticity 2.20m-10.30m Clay & Gravel beds, Clay is brown, slightly moist to dry, hard. Gravel up to 0.1m subrounded to subangular, med-coarse.  | 640m     | North East |
| 10053042     | 0.00m-10.20m Clay; dark red-brown, dry toslightly moist, loose, minor gravel, fill to about 3m.   | 641m     | North East |
| 10116063     | 0.00m-1.00m Sand, silty with Gravel, brown, dry, ~50% sand, 20-30% gravel, 20-30% silt & clay, stiff 1.00m-3.50m Sand, silty with Gravel, brown, slightly moist, ~50% sand, 10-20% gravel, 40\$ silt & clay, stiff, slightly odour at 2m 3.50m-5.00m Sand, silty, yellowish brown, dry, 60% sand, 30-40% silt & clay, <10% gravel, moderately loose 5.00m-14.00m Gravel, silty with Sand, brown, 15-40% silt & clay, 30-40% sand, 40-60% gravel with cobbles, hydrocarbon odour 12-12.75m   | 642m     | North East |
| 10037313     | 0.00m-1.00m Sand, Silty Clayey, loose, dry, red brown 1.00m-2.00m Gravel, Silty Clayey, dense, dry, red brown 2.00m-4.00m Silty Clay, stiff, slightly moist, low plasticity, red brown 4.00m-6.00m Gravel, Silty Clayey, very dense, slightly moist, red brown 6.00m-10.00m Silty Clay, with minor sand & gravel, very stiff, slightly moist, zero to low plasticity, brown 10.00m-14.00m Silty Clay, with minor sand & gravel, very stiff, slightly moist to moist, moderate plasticity, brown   | 645m     | North East |
| 10141439     | 0.00m-1.00m silty clay with sand dark brown 1.00m-5.00m silty clay with sand and gravel dark brown 5.00m-6.00m silty clay brown 6.00m-7.00m silty clay brown with white flakes 7.00m-9.00m silty clay dark brown 9.00m-10.00m clay 10.00m-11.00m silty clay with inturated layers 11.00m-13.00m silty clay with basalt fragments 13.00m-19.00m basalt/weathered 19.00m-24.00m basalt  | 648m     | East       |
| 10145525     | 0.00m-1.00m silty clay with sand dark brown 1.00m-5.00m silty clay with sand and gravel dark brown 5.00m-6.00m silty clay brown 6.00m-7.00m silty clay brown with white flakes 7.00m-9.00m silty clay dark brown 9.00m-10.00m clay 10.00m-11.00m silty clay with inturated layers 11.00m-13.00m silty clay with basalt fragments 13.00m-19.00m basalt/weathered 19.00m-24.00m basalt  | 648m     | East       |
| 10036649     | 0.00m-1.50m Silty Clay with minor Sand, soft to stiff, slightly moist, red brown 1.50m-3.00m Silty Clay with minor Sand & Gravel, hard to soft, slightly moist, brown 3.00m-4.00m Gravel, Sandy with minor Silt & Clay, medium dense, slightly moist to dry, brown 4.00m-8.00m Sand, Silty Clayey, loose, slightly moist to dry, brown 8.00m-9.50m Sand, with minor Silt & Clay, very dense, dry, brown/grey 9.50m-11.00m Gravel, Sandy, very dense, dry, grey brown 11.00m-11.50m Grave with minor Silt & Clay, loose, slightly moist, grey brown 11.50m-12.00m Sand, with minor Silt & Clay, loose, slightly moist, brown 12.00m-14.00m Gravel, Silty Clayey, loose, moist, brown | 649m     | North East |
| 10098409     | 0.00m-1.00m Fill; Gravel & Sand, dry, loose, speckled brown light grey 1.00m-4.50m Clay, red brown, stiff, slightly damp 4.50m-8.00m Clay, red brown, minor Gravel, damp, firm 8.00m-12.00m Clay, brown, semi plastic, pedal, stiff, slightly moist   | 650m     | North East |
| 10113787     | 0.00m-2.00m Silty Clay; stiff to very stiff, dry, red brown 2.00m-7.50m Silty Clay, stiff, dry, red brown 7.50m-10.00m Silt, with minor Clay, sand & white gravel, stiff to hard, dry to slightly moist, red brown/white 10.00m-13.00m Silt, Sandy with minor clay & gravel, hard, slightly moist, red brown/white 13.00m-13.50m Silty Clay with minor Sand & Gravel, soft, moist, red brown/white 13.50m-17.00m Gravel, Silty Clayey with minor Sand, soft, very moist, red brown/pink/white   | 650m     | North East |
| 10000439     | 0.00m-0.10m Sand, with minor Gravel, loose, slightly moist, grey (Fill) 0.10m-1.50m Sandy Silty Clay with minor Gravel, very stiff, slightly moist, red brown 1.50m-3.50m Sand, Silty with minor Gravel, very dense, slightly moist, red brown 3.50m-4.80m Sand, with minor Gravel, dense, slightly moist, orange brown 4.80m-6.00m Sand, Silty with minor Clay & Gravel, hard, slightly moist brown 6.00m-7.20m Boulder, hard, brown ('Floater') 7.20m-10.00m Silt, sandy with minor Gravel, very dense, very moist to saturated, brown.   | 651m     | North East |

| NGIS Bore ID | Drillers Log  | Distance | Direction  |
|--------------|---|----------|------------|
| 10024295     | 0.00m-2.00m Sand, silty, reddish brown, damp, 60% fine sand, 30% silt, 10% clay, stiff 2.00m-4.00m Gravel, silty with Sand, yellowish brown, damp, 5% clay, 15% silt, 20% fine-medium sand, 60% fine-coarse gravel, dense 4.00m-9.00m Sand, silty, yellowish brown, damp, 5% clay, 15% silt, 80% fine sand,t race fine gravel, dense 9.00m-10.00m Sand, silty with Gravel, greyish orange, damp, 15% silt, 55% med-coarse sand, 30% fine gravel, med dense 10.00m-11.50m Sand, silty, yellowish brown, damp, 15% silt, 80% fine-coarse sand, 5% fine-coarse gravel, medium dense 11.50m-16.10m Granite, pale yellowish brown, moist, moderately weathered, 12-14m larg chips indicating fractured, 14-16m mod-fresh gra | 651m     | North East |
| 10037893     | 0.00m-5.50m Clay; dark red/brown, dry to slightly moist, loose, becoming dense & stiff with depth, minor gravel. HC odour from 3m 5.50m-7.50m Clay, as above, increase in gravel content 7.50m-10.10m Clay; as above, slightly moist, HC odour. Water at 9m   | 651m     | North East |
| 10065506     | 0.00m-2.25m Silty Clay; red-brown, stiff, dry. 2.25m-2.50m Gravel, Clayey Sandy; red-brown, poorly sorted, dry. 2.50m-4.00m Silt; minor Clay present, red, stiff, dry. 4.00m-7.00m Gravel, Clayey Silty; red-brown, poorly sorted, subnagular, dry. 7.00m-9.50m Silt; red-brown, some white Gravel present, HCodour & increasing with depth. 9.50m-10.00m Silt; as above; cobbles & Gravel present 10.00m-11.50m Silt, Sandy Clayey; white-grey, HC odour. 11.50m-17.00m Rock; weathered, poorly sorted, angular.   | 651m     | North East |
| 10013711     | 0.00m-1.00m Silty Clay, soft, moist, red brown 1.00m-1.10m Silty Clay, with minor Gravel, very stiff to hard, slightly moist, red brown 1.10m-2.00m Silty Clay, with minor Sand, stiff, slightly moist, red brown 2.00m-4.00m Silty Clay, stiff, slightly moist, red brown 4.00m-6.00m Silty Clayey Sand, dense, slightly moist, brown 6.00m-8.00m Gravel, with minor Silty & Clay, dense, slightly moist, grey brown 8.00m-10.00m Sand, with minor Silt & Clay, dense, slightly moist, grey brown 10.00m-14.00m Silty Clay, with minor Gravel, stiff, moist to slightly moist, brown   | 652m     | North East |
| 10105817     | 0.00m-0.50m Silty Clay; soft, moist, red brown 0.50m-1.00m Silty Clay, with minor Sand & Gravel; stiff, slightly moist, red brown 1.00m-2.00m Gravelly Silty Clay with minor Sand; medium dense, slightly moist, brown 2.00m-8.00m Gravelly Sandy Silty Clay; stiff, slightly moist, brown 8.00m-11.00m Sand, Gravelly with minor Silt & Clay; very dense, dry to slightly moist, grey brown 11.00m-13.00m Gravelly Sandy Silty Clay; hard, slightly moist, grey brown  | 652m     | North East |
| 10021721     | 0.00m-1.00m Silty Clay with minor Sand; soft to stiff, slightly moist, red brown 1.00m-4.00m Silty Clayey Gravelly Sand; loose, dry, brown 4.00m-6.00m Gravelly Sand with minor Silt & Clay; loose, dry, brown 6.00m-7.50m Sand with minor Silt & Clay; soft, dry, brown 7.50m-11.00m Gravelly Sand; very dense, dry, grey brown 11.00m-14.00m Silty Clayey Gravelly Sand; loose to very dense, slightly moist, brown to brown/grey   | 658m     | North East |
| 10109649     | 0.00m-6.25m Silty Clay; red/brown, moist, firm, alluvial origin. clay becoming stiff at 2m. 6.25m-7.75m Silty Sandy Clay; grey/reddish brown, moist, fine-coarse sand, very stiff, alluvial origin 7.75m-9.50m Sandy Gravelly Clay; grey/brown & speckled white, moist, fine-coarse sand, alluvial origin 9.50m-13.50m Gravelly Sandy Clay; grey/white/brown, moist, fine-coarse sand, fine-coarse gravel, well graded, very stiff, alluvial or 13.50m-15.50m Silty Clay; grey/brown/yellow, very moist, moderate plasticity, soft, alluvial origin, some fine-medium sand also presen  | 658m     | North East |
| 10040704     | 0.00m-10.00m Clay; dark red/brown, dry to slightly moist, stiff & dense. Gravel at 6m, Water at 9.4m 10.00m-10.20m Bedrock, saturated, strong HC odour  | 659m     | North East |
| 10075015     | 0.00m-2.20m Silt, clayey; dark red brown, 70% silt, 30% clay, dry, indurated, stiff 2.20m-3.50m Silt & Gravel; 10-15% trace angular gravel, damp 3.50m-4.50m Clayey Sandy Silt; dark yellowish orange, 60% silt, 35% clay, 5% fine sand, laminated, stiff 4.50m-7.00m Clayey Silty Sandy; yellowish brown, 60% fine sand, 25% silt, 5% clay, 10% fine gravel, naturally indurated, medium dens 7.00m-8.50m Gravel, silty with Sand; pale reddish brown, 60% fine to coarse gravel, 25% fine sand, 15% silt, indurated 8.50m-18.00m Granite; light olive, ferriginous & limonite stain, weathered.   | 659m     | North East |
| 10035774     | 0.00m-0.10m Sand, silty, loose, slightly moist, brown (Fill) 0.10m-1.00m Sandy Silty Clay, very stiff, slightly moist, red brown. 1.00m-3.50m Sandy Silty Clay with minor Gravel, very stiff, slightly moist, red brown 3.50m-4.50m Grave with minor Sand, Silt & Clay, dense, slightly moist, red brown 4.50m-8.00m Sand, fine with minor Silt & Gravel, dense, moist, brown 8.00m-12.00m Sand, silty with minor Gravel, medium dense, very moist to saturated, brown.   | 660m     | North East |
| 10096853     | 0.00m-0.20m Fill; Gravel & Clay, brown 0.20m-2.10m Clay, brown/red, ahrd, dry to slightly moist 2.10m-10.30m Clay, light brown, with Gravel layers upt o 30cm thick.  | 660m     | North East |
| 10100478     | 0.00m-2.00m Clay, red brown 2.00m-6.00m Sandy Clay, yellow brown 6.00m-7.20m Gravel, hard round, alluvial white & grey 7.20m-13.50m Clayey Sand, grey brown   | 660m     | North East |

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|--------------|--|----------|------------|
| 10053838     | 0.00m-5.75m Silty Clay; red/brown, moist, firm, alluvial origin 5.75m-8.75m Silty Sandy Clay; grey/red/brown, moist, fine-medium sands, very stiff, alluvial origin. Trace gravel present 8.75m-10.50m Clayey Sandy Gravel; brown with yellow staining, dry-moist, fine-coarse sands, fine-coarse gravels, well graded, alluvia 10.50m-13.00m Gravelly Sandy Clay; red/brown, moist, fine-coarse sands, fine gravels, poorly graded, alluvial origin 13.00m-14.00m Sandy Clay; red/brown speckled yellow, saturated, fine-coarse sands, alluvium 14.00m-15.50m Silty Sandy Clay; yellow/brown, moist, fine-medium sands, soft, alluvial/weathered dacite origin  | 664m     | North East |
| 10062736     | 0.00m-10.20m Clay; red/brown, dry to slightly moist, firm. Moist at 9m.  | 664m     | North East |
| 10093468     | 0.00m-0.50m Silty Clay; soft, slightly moist, red brown 0.50m-1.00m Silty Clay, with minor Gravel; soft, slightly moist, red brown 1.00m-6.50m Silty Clay with minor Gravel & Sand; soft, dry to slightly moist, red brown to brown 6.50m-7.00m Silty Clay with minor Gravel & Sand; hard, dry, grey brown 7.00m-8.50m Silty Clay with minor Gravel & Sand; soft to hard, slightly moist, brown/grey to grey brown 8.50m-14.00m Silty Clay with minor Gravel & Sand; soft to very stiff, grey brown to brown to grey   | 664m     | North East |
| 10102266     | 0.00m-5.75m Silty Clay; red/brown, dry to moist, firm, alluvial origin 5.75m-9.00m Silty Sandy Clay; grey & red/brown, moist, fine-coarse sand, very stiff, alluvial origin 9.00m-11.75m Sandy Gravelly Clay; brown with white speckling, moist, fine-coarse sand, fine-coarse gravels, well graded, very stiff, 11.75m-12.75m Sandy Clay; red/brown, moist to saturated, fine-coarse sand, very stiff, alluvial origin, some fine gravel present 12.75m-14.75m Gravelly Sandy Clay; grey/white, saturated, fine-coarse sand, fine-coarse gravels, stiff, alluvial origin 14.75m-15.50m Silty Clay; brown with white mottling, dry to moist, soft, some fine-medium sand also present  | 665m     | North East |
| 10025209     | 0.00m-0.30m Fill, gravel & sand, moist to wet 0.30m-2.20m Clay, red, slightly moist, no plasticity, minor gravel 2.20m-10.30m Sand/Gravel & Clay beds, Clay is light to dark brown, slightly moist to dry. Water at 7.9m   | 666m     | North East |
| 10101799     | 0.00m-1.50m Clay, red brown, firm-stiff, no odour, minor Fe stone fragments 1.50m-3.20m Clay, yellow brown, minor fragments 3.20m-5.50m Gravel; grey-brown, very round (Conglomerate) 5.50m-9.20m Gravel, light grey & minor Clay & Sand, no odour 9.20m-12.70m Gravel, as above, damp, HC odour   | 667m     | North East |
| 10034927     | 0.00m-1.90m Clay; red to brown, hard, slightly moist 1.90m-3.10m Clay & Gravel, light brown, slightly moist to dry. Gravel is angular & fine 3.10m-4.80m Clay; brown, slightly moist, minor Sand, stiff 4.80m-9.90m Clay, Gravelly, dry, light brown to brown, interbedded. Water at8.5m 9.90m-10.40m Clay; moist, dark brown, slightly plastic, stiff   | 668m     | North East |
| 10014527     | 0.00m-2.00m Gravel, Silty Clayey, slightly moist, red brown 2.00m-4.00m Silty Clay, with minor Gravel, very stiff, slightly moist, red brown 4.00m-8.00m Sand, Silty Clayey, dense, slightly moist, brown 8.00m-10.00m Sand, Silty Clayey Gravelly, dense, slightly moist, brown 10.00m-11.50m Sandy Silty Clay, with minor Gravel, very stiff, slightly moist, grey brown 11.50m-12.00m Sandy Silty Clay, very stiff, moist, moderate plasticity, grey brown 12.00m-14.00m Silty Clay, Sandy gravelly, very stiff, slightly moist, grey brown 14.00m-14.50m Sandy Silty Clay, very stiff, dry, grey brown   | 669m     | North East |
| 10039120     | 0.00m-4.50m Silt, sandy, reddish brown, 60% silt, 40% fine sand, stiff, damp 4.50m-9.00m Gravel, Silty with Sand, pale reddish brown, 60% fine to coarse gravel, 25% fine sand, 15% silt, indurated, very hard dr 9.00m-18.00m Granite, light olive grey, moderately weathered, some feldspar breakdown to clay. 13-14m HC staining, greyish green   | 673m     | North East |
| 10076598     | 0.00m-0.20m Sand, with minor Gravel, loose, slightly moist, brown (Fill) 0.20m-3.50m Sandy Silty Clay with minor Gravel, stiff to very stiff, slightly moist, low palsticity, red brown to brown 3.50m-4.00m Gravel, Sandy Silty, medium dense, slightly moist, brown 4.00m-5.75m Sandy Silty Clay with minor Gravel, very stiff, slightly moist, low plasticity, brown 5.75m-6.25m Siltstone with minor Gravel, hard, slightly moist to dry, brown (Rock) 6.25m-9.00m Silt, sandy with minor Clay & Gravel, hard, slightly moist, brown. 9.00m-9.25m Siltstone, weathered, hard, slightly moist to dry, brown (Bedrock)   | 673m     | North East |
| 10080281     | 0.00m-0.75m Sandy Clay; red/brown, moist, fine sands, stiff, fill origin, some fine gravel present 0.75m-4.50m Silty Clay; red/brown, some yellow staining, moist, stiff, alluvial origin, some fine-coarse sands present 4.50m-5.50m Sandy Clay; red/brown, moist, fine-medium sand with some coarse, stiff to very stiff, alluvial origin. 5.50m-7.50m Sandy Gravelly Clay; grey/brown, moist, fine-coarse sands, fine-coarse gravels, very stiff, alluvial origin 7.50m-12.50m Sandy Gravelly Clay; grey/brown, slightly moist, fine-coarse sands, fin-coarse gravels, well graded, very stiff, alluvia 12.50m-14.50m Gravelly Sandy Clay; green/white/grey, saturated, fine-coarse sands, fine-coarse gravels, well graded, stiff, alluvial o 14.50m-16.50m Clayey Sand; dark grey/brown, moist with saturated bands, fine-coarse sands, poorly graded, stiff, alluvial origin, trac | 674m     | North East |

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| 10044318     | 0.00m-4.00m Sandy Clay; red/brown, moist, fine-medium sand, soft to firm, fill origin. 4.00m-6.75m Sandy Gravelly Clay; black/white, moist, fine-coarse sand, fine-coarse gravels, fill origin 6.75m-8.50m Silty Sandy Clay; red/brown, moist, fine-medium sand, soft to stiff, alluvial origin 8.50m-9.75m Sandy Gravelly Clay; grey/dark grey, moist, fine-coarse gravels, stiff, alluvial origin, gravels mostly basalt 9.75m-12.75m Clay, Gravelly; green/grey speckled white, moist, fine-coarse gravels, very stiff, alluvial origin 12.75m-14.50m Sandy Clay; red/brown, moist, fine-coarse sand, very stiff, alluvial origin, some fine gravels also present 14.50m-15.50m Silt, Sandy Clayey; grey/brown speckled light yellow, dry, fine-medium sand, poorly graded, alluvial origin                                      | 675m     | North East |
| 10082335     | 0.00m-3.50m Gravel/Sand; grey/brown, moist, fine-coarse sands, fine-coarse gravels, well graded, tank pit backfill sand 3.50m-9.50m Sandy Clay; red/brown, slightly moist, fine-coarse sand, stiff to very stiff, alluvial origin, some fine gravel also pre 9.50m-13.00m Sandy Gravelly Clay; green/brown & speckled white, slightly moist-moist, fine-coarse sands, fine-medium gravels, stiff, 13.00m-14.00m Sandy Clay; light brown, very moist, soft, alluvial origin. 14.00m-15.00m Sandy Gravelly Clay; grey/brown & speckled white, moist, fine-coarse sand, fine-medium gravel, stiff to very stiff, allu 15.00m-16.50m Clayey Sand; red/brown, saturated, fine-medium sand, alluvial origin, trace fine gravel also present 16.50m-16.80m Sand; dark grey/brown, moist, fine-coarse sands, poorly graded, alluvial origin | 678m     | North East |
| 10016468     | 0.00m-1.50m Silty Sandy CLAY; red-brown, firm, dry 1.50m-2.50m Silty SAND; red-brown, some gravel 2.50m-4.00m Silty Gravelly CLAY; yellow-brown-white, very stiff to hard 4.00m-5.00m Gravelly SILT; yellow-orange-brown, some gravel 5.00m-5.50m Silt; as above, red-purple, some rock 5.50m-6.00m Sandy Gravelly SILT; brown-red-orange, minor gravel, very dense 6.00m-6.50m Silty SAND; brown, minor gravel, dry to slightly moist 6.50m-14.00m ROCK; extremely hard at 10.5m   | 680m     | North East |
| 10050682     | 0.00m-7.50m Silty Clay; red/brown, dry, stiff, alluvial, moist at 4m. 7.50m-13.00m Gravelly Sandy Clay; grey/red/brown, moist, fine-coarse sand, fine gravel, poorly graded, very stiff, alluvial origin 13.00m-15.50m Clay; ligth grey, moist, very stiff, alluvial origin, some sand & gravel present, fine-coarse grains   | 680m     | East       |
| 10087951     | 0.00m-0.20m Sand, with minor Gravel; loose, slightly moist, grey/brown 0.20m-4.80m Sandy Silty Clay, with minor Gravel, stiff to very stiff, slightly moist, red brown 4.80m-6.00m Sand, fine-coarse, with minor Gravel, lightly moist to moist, brown/white 6.00m-8.50m Silt, Sand with minor Gravel, dense, moist, brown/white 8.50m-9.00m Silt, Sandy, very dense, moist, green brown 9.00m-10.00m Clayey Sand, very dense, saturated, yellow brown  | 681m     | North East |
| 10099862     | 0.00m-1.00m Sandy Clay; red brown, fine sand, stiff, damp, trace gravel 1.00m-7.00m Silt, sandy; red brown, soft, damp 7.00m-8.00m Sand, silty with Gravel; pale red brown, fine-coarse gravel, damp 8.00m-9.00m Sand; dusky yellow, fine, dense, damp 9.00m-10.00m Clay with Sand; yellowish grey, fine sand, damp 10.00m-18.00m Granite; biotite limonitic, moist, weathered. 10-13m moderate HC odour, no staining   | 681m     | North East |
| 10075728     | 0.00m-0.30m FILL; Sandy Gravel, medium dense, dry, grey 0.30m-7.00m Silt with minor Gravel, medium-very dense, dry, red brown 7.00m-12.00m Silty Sand with minor Gravel, very dense, dry to slightly moist, red brown 12.00m-13.00m Silty Sand, very dense, slightly moist, red brown 13.00m-15.00m Silty Clay with minor Gravel, hard, moist, red brown  | 683m     | North East |
| 10104236     | 0.00m-1.00m Fill; Gravel & Sand, dry, loose, speckled brown light grey. Strong HC odour 1.00m-4.50m Clay; red brown, stiff, slightly damp. Strong HC odour. 4.50m-8.00m Clay; mid brown, minor Gravel, damp, firm. Strong odour, Odour decreasing at 6.5m 8.00m-10.50m Clay; brown, pedal, stiff, slightly moist.   | 683m     | North East |
| 10036937     | 0.00m-5.00m Clay, with Sand; red brown, fine-medium sand, stiff, damp 5.00m-6.00m Sand, Silty; pale red brown, fine-coarse sand, some clay, damp 6.00m-10.00m Gravel, with Sand; pale red, fine-coarse gravel, fine-coarse sand, high K, loose, damp 10.00m-12.00m Granite, silicified Cap; white, very hard, moderate HC odour 12.00m-18.00m Granite; moderately weathered, light olive grey, moist, 12-14m weak HC stain, 15m HC odour stops  | 684m     | North East |
| 10017616     | 0.00m-0.20m Sand, with minor Gravel, loose, slightly moist, brown (Fill) 0.20m-3.00m Sandy Silty Clay with minor Gravel; stiff to very stiff, slightly moist to moist, red brown 3.00m-5.00m Sand, Silty, fine with minor Gravel; medium dense, moist, red brown to brown 5.00m-8.00m Sand, Silty, fine; medium dense to dense, moist, brown 8.00m-9.50m Sand, Silty with minor Gravel, medium dense, mosit, brown 9.50m-10.00m Clayey Sand, hard, saturated, white/grey/brown  | 686m     | North East |
| 10089139     | 0.00m-0.20m Sand, with minor Gravel, loose, slightly moist, brown 0.20m-4.80m Sandy Silty Clay with minor Gravel, stiff to very stiff, slightly moist, red brown 4.80m-5.00m Sand, Silty with minor Gravel; dense, moist, brown 5.00m-9.00m Sand, medium-coarse with minor Gravel, dense to very dense, moist, brown to brown/white 9.00m-10.00m Clayey Sand with minor Gravel, very dense, saturated, white/brown  | 690m     | North East |
| 10022400     | 0.00m-1.00m Silty Clay, with minor Gravel, very stiff, dry, red brown 1.00m-3.50m Sandy Clay, with minor Gravel, stiff, dry, yellow brown 3.50m-14.50m Sandy Clay, with minor Gravel, stiff, slightly moist, brown  | 693m     | North East |

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| 10059810     | 0.00m-1.50m Clay; red brown, firm-stiff, no odour, minor Fe stone fragments 1.50m-3.20m Clay; yellow brown, minor fragments 3.20m-5.50m Gravel; grey-brown, very round (conglomerate) 5.50m-9.20m Gravel; light grey & minor Clay & Sand, no odour 9.20m-13.30m Grave; as above, HC odour (damp)   | 693m     | North East |
| 10115600     | 0.00m-0.40m Fill; Gravel, slightly moist, coarse, black to brown 0.40m-1.80m Clay; red/brown, slightly moist, low plasticity 1.80m-5.30m Clay, light brown, with beds of gravel, minor sand, moist to dry 5.30m-5.60m Gravel, coarse, brown, dry 5.60m-9.00m Clay, light brown, with Gravel beds, dry, minor sand. Water at 8.5m 9.00m-10.30m Clay, dark brown, moist, no gravel   | 693m     | North East |
| 10059314     | 0.00m-2.50m Clay, with Sand, reddish brown, dry to slightly moist 2.50m-5.50m Sand, Silty with Gravel, reddish brown, medium-coarse sand, silt & clay, fine-coarse gravels, dry-slightly moist 5.50m-8.50m Gravel, Silty with Sand, brown, medium sand, fine-coarse gravel, silt, slightly moist 8.50m-14.00m Bedrock, Diorite; brown, fractured & spongy  | 695m     | North East |
| 10139916     | 0.00m-1.00m clay/red with sand 1.00m-2.00m clay/gravelly grey brown 2.00m-3.00m clay/red brown weathered siltstone or mudstone 3.00m-4.00m silty/clay brown with red layers 4.00m-5.00m silty/clay 5.00m-10.00m clay/dark brown  | 695m     | North East |
| 10090520     | 0.00m-6.00m Silty CLAY; with Sand, red-brown to light brown, medium Sand & fine subangular Gravel, dry-slightly moist 6.00m-7.80m Silty GRAVEL; moderate brown, fine-coarse Sand 7.80m-15.80m BEDROCK; Diorite, moderate brown, weak to moderate HC odour  | 697m     | North East |
| 10088190     | 0.00m-5.80m Silty Clay, with Sand, reddish brown, stiff, dry to slightly moist 5.80m-7.50m Gravel, Silty with Sand, brown, fine to coarse sand, gravel with cobbles 7.50m-14.00m Bedrock, Diorite, brown, fresh  | 698m     | North East |
| 10020766     | 0.00m-5.50m Clay, with Sand; reddish brown, stiff, damp 5.50m-6.50m Sand, Silty with Gravel; red brown, fine-coarse sand, fine-coarse gravel, damp 6.50m-9.50m Gravel, with Sand & Silt; red brown, fine-coarse sand, fine-coarse gravel, dense 9.50m-18.00m Granite, ligth olive grey, moderately weathered, moderate KC odour. 14-18m, pale yellowish brown, moist.  | 699m     | North East |
| 10025818     | 0.00m-0.20m Fill, Gravelly Sandy, medium dense, dry, grey 0.20m-0.50m Silty Clay, with minor Gravel, very stiff, dry, red brown 0.50m-1.00m Silty Clay, hard, slightly moist, red brown 1.00m-4.00m Silty Clay, with minor Sand, hard, slightly moist, red brown 4.00m-6.00m Silty Clay, with minor Sand, hard, slightly moist, red brown 6.00m-7.20m Silty Clay, hard, dry, brown 7.20m-10.00m Silty Clay, with minor Gravel, hard, slightly moist, grey brown 10.00m-13.00m Silty Clay, hard, slightly moist, grey brown 13.00m-17.00m Gravel, Silty Clayey, very dense, moist to saturated, brown | 699m     | North East |
| 10070294     | 0.00m-0.80m Fill; Sand & Gravel, slightly moist<br>0.80m-7.50m Clay, with Sand, reddish brown to light brown, stiff to very stiff, dry<br>7.50m-14.65m Bedrock, Diorite; yellowsh brown, 12-14m fresh bedrock  | 704m     | North East |
| 10099408     | 0.00m-0.50m Gravel, Sand & Clay, very dense, slightly moist, red/brown (Fill) 0.50m-7.50m Gravelly Sandy Clay, very stiff, slightly moist, red/brown 7.50m-12.10m Sand, Silty, with minor Gravel, dense, slightly moist, grey/brown  | 706m     | North East |
| 10021518     | 0.00m-2.00m Silt, with Sand, red brown, stiff, damp 2.00m-5.50m Sand, Silty, red brown, trace sand & fine Gravel, damp. 3-3.5 very sandy 5.50m-8.00m Sand, Silty with Gravel; pale red brown, fine angular gravel, damp 8.00m-8.50m Gravel, Silty with Sand; pale red brown, fine-medium sand, fine-coarse gravel, dry 8.50m-18.00m Granite, light olive grey, biotite visible. 13-14m HC staining. 14-15m wet.  | 708m     | North East |
| 10106581     | 0.00m-3.00m Clay, red brown, stiff, damp 3.00m-6.00m Sand, Silty, brown, fine sand, loose to medium dense, damp. 5-6m increasing fine gravel. 6.00m-9.00m Sand, Silty with Gravel, medium dense, damp 9.00m-11.00m Gravel, with Sand, light olive grey, fine-coarse sand, fine-coarse assorted gravel, dense. 10m Strong HC odour & staini 11.00m-18.00m Granite, biotite visible, weathered   | 709m     | North East |
| 10032174     | 0.00m-4.50m Silty Clay, with minor Gravel, stiff, dry, red brown to orange brown 4.50m-14.50m Gravel, sandy clayey, stiff, slightly moist, brown   | 711m     | North East |
| 10020226     | 0.00m-0.20m Fill; Gravel & Sand with minor Clay, very dense, slightly moist, brown/red 0.20m-8.80m Sandy Silty Clay with minor Gravel; very stiff, slightly moist, brown/red 8.80m-9.50m Gravelly Sandy Clay; very stiff, slightly moist, brown 9.50m-12.10m Gravelly Sandy Clay; very stiff, slightly moist to saturated, greenish grey   | 712m     | North East |
| 10077454     | 0.00m-2.00m Silty Clay, red brown, stiff, damp 2.00m-4.00m Sand, Silty, light brown, loose, dry 4.00m-10.00m Sand, Silty with Gravel, pale red 10.00m-18.00m Granite, ligth olive grey, moist, weathered   | 713m     | North East |
| 10019343     | 0.00m-0.10m Soil/Grass 0.10m-0.20m Fill: Gravel & Sand, dry, loose, speckled brown/light grey, Strong HC odour 0.20m-4.50m Clay, brown, stiff, slightly damp. Strong HC odour 4.50m-8.00m Clay, red brown, minor Gravel, damp firm. Strong odour, decreasing with depth 8.00m-12.00m Clay, as above, increase in gravel contents, fragments of siltstone, moist.   | 719m     | North East |
| 10110078     | 0.00m-6.50m Silty Clay, with minor Gravel, very stiff, dry, red brown 6.50m-14.50m Sandy Clay, with minor Gravel, stiff, dry, yellow brown   | 740m     | North East |

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| 10082744     | 0.00m-1.00m Clay, pale reddish brown, medium-coarse sand, stiff 1.00m-3.00m Silt, light brown, dry to slightly moist, sand & fine-coarse gravel 3.00m-6.00m Sand, Silty with Gravel, brown, medium-coarse sand, fine gravel 6.00m-7.00m Gravel, Silty with Sand, brown, medium-coarse sand, fine-coarse gravel, silt & clay 7.00m-14.46m Bedrock: Diorite, fresh, minor 30-45 degree fractures, fractures moist, rock unsaturated  | 744m     | North East |
| 10041268     | 0.00m-5.00m Clay, with minor Gravel, stiff, dry, red brown 5.00m-14.50m Sandy Clay with minor Gravel, grading to weathered rock, stiff to soft, dry  | 747m     | North East |
| 10070400     | 0.00m-5.00m Silty Clay, with minor Gravel, stiff, slightly moist, red brown 5.00m-14.50m Sandy Clay, with minor Gravel, stiff, dry, yellow brown   | 757m     | North East |
| 10078571     | 0.00m-1.00m Fill<br>1.00m-6.00m Clay<br>6.00m-8.00m Clay/Gravel<br>8.00m-9.00m Sand, & Gravel  | 759m     | North      |
| 10144392     | 0.00m-1.00m silty/clay loam<br>1.00m-4.00m silty/clay<br>4.00m-7.00m silty/clay loam<br>7.00m-10.00m silty/clay  | 762m     | South West |
| 10083694     | 0.00m-4.50m Clay, with Sand, reddish brown, slightly moist 4.50m-8.50m Silt, with Sand, ligth brown, stiff 8.50m-14.47m Bedrock Diorite, high to moderately weathered, moist   | 766m     | North East |
| 10117090     | 0.00m-1.00m Fill<br>1.00m-6.00m Clay<br>6.00m-8.00m Clay/Gravel<br>8.00m-10.00m Gravel, sandy  | 766m     | North      |
| 10060279     | 0.00m-1.00m Fill<br>1.00m-6.00m Clay<br>6.00m-8.00m Clay/Gravel<br>8.00m-9.00m Sand, & Gravel  | 773m     | North      |
| 10030769     | 0.00m-1.00m Fill; Gravel & Sand, dry, loose, speckled brown light grey 1.00m-4.50m Clay; red brown, stiff, slightly damp 4.50m-8.00m Clay; mid brown, minor Gravel, damp, firm 8.00m-12.00m Clay; brown, semi plastic, pedal, stiff, slightly moist  | 784m     | North East |
| 10024829     | 0.00m-0.20m Topsoil; dark brown, friable 0.20m-3.50m Clay; red-brown, soft, low plasticity, fine grained with minor quartz gravel & ~10% poorly sorted, subangular quartz san 3.50m-4.50m Sandy Clay; orange, low plasticity, friable, ~50% sand, ~5% subangular to subrounded, poorly sorted gravel, dry 4.50m-5.50m Clayey Sand; orange, dry, low plasticity, friable, >50% sand, ~5% subangular to subrounded, poorly sorted gravel 5.50m-6.50m Sandy Clay; red-brown clay, dry, fine, low plasticity with minor poorly sorted rounded-subangular gravel, basalt, quartz 6.50m-8.00m Sandy Clay; as above, dry-moist, minor black clay mottling, minor sandstone cobbles 8.00m-9.00m Sandy Clay; as above, minor fine grained silicious feldspathic gravel 9.00m-11.00m Sandy Clay; as above, darker reddish to dark brown, large cobbles (~3%), very weathered, coarse sandstone, quartz, rocks 11.00m-12.00m Sandy Clay; as above, highly weathered, silicious cobbles 12.00m-14.00m Silty Clay; as above, highly weathered, friable, soft, with medium grained sand & minor quartz cobbles (~2-5cm) 14.00m-15.00m Silty Clay; as above, dry, less cobbles, fine grained 15.00m-16.00m Silty Clay; as above, wet, sticky, no cobbles 17.00m-18.10m Silt, Clay; wet, yellow-brown, fine grained, low plasticity, sticky, floury with ~10% moderatley coarse subangular san | 795m     | East       |
| 10046302     | 0.00m-1.00m gravelly/sandy clay 1.00m-2.00m sandy/clay dark brown 2.00m-3.00m silty/clay with sand 3.00m-4.00m clay/gravel/sand dark brown 4.00m-6.00m silty/clay with rhyolite chips 6.00m-7.00m clay/gravel with some quatz 7.00m-8.00m silty/clay light 8.00m-10.00m silty/clay with gravel   | 861m     | North West |
| 10125867     | 0.00m-1.00m silty clay loam dark brown 1.00m-2.00m silty clay loam dark brown with some gravel 2.00m-10.00m silty clay 10.00m-11.00m zhyolite/weathered with quatz grains about 2mm 11.00m-12.00m as above with basalt fragments 12.00m-16.00m rhyolite  |          | North West |
| 10139610     | 0.00m-1.00m clay/loam/silty dark brown 1.00m-2.00m clay/sitly with sand and gravel dark brown 2.00m-10.00m silty/clay  | 861m     | North West |
| 10135741     | 0.00m-1.00m clay/black 1.00m-2.00m clay/brown 2.00m-3.00m clay/black 3.00m-6.00m clay/brown 6.00m-8.00m clay   | 928m     | North      |

| NGIS Bore ID | Drillers Log   | Distance | Direction  |
|--------------|--|----------|------------|
| 10114567     | 0.00m-0.08m Clay, black, calcite chunk 0.08m-0.30m Clay, lighter textures, lighter clay, some mottles, slightly sandy texture, red 0.30m-2.34m Clay, red orange some mottle, heavier textures, progressive decaying organic matter, black mottle colours 2.34m-2.53m Clay, slight texture changes, crumbly calcite 2.53m-2.74m Clay, heavy, mottling, red orange 2.74m-2.82m Clay, calcite chunks, crumbly 2.82m-3.00m Clay, heavy, mottling, very moist, red orange   | 935m     | West       |
| 10021209     | 0.00m-0.41m Loam; dry crumbly, brown, slight creams, slightly gravel 0.41m-1.11m Loam; texture change, moist, heavy clay, red orange, slight grey colours 1.11m-3.30m Clay; grey colours increasing, moist, calcite throughout, red oranges 3.30m-3.40m Gravel, river gravel, reds oranges, clay, very moist 3.40m-9.50m Clay, moisture thoughout, grey colours, heavy clay, red oranges   | 991m     | North West |
| 10110081     | 0.00m-0.30m Clay; dark brown, heavy 0.30m-0.54m Clay, lighter texture, dark brown 0.54m-1.00m Clay, red, lighter texture, colour change 1.00m-1.30m Clay, heavy, orange red, moist 1.30m-1.34m Clay, slight calcite 1.34m-1.62m Clay, moist, orange, red 1.62m-2.13m Clay, lighter, some calcite, yellow orange 2.13m-2.20m Clay, yellow orange, lighter clay 2.20m-2.26m Loam, lighter texture 2.26m-3.15m Clay, cream colours, black orange, heavy, calcite deposits 3.15m-3.30m Gravel, river gravel, colours orange yellow blacks creams 3.30m-4.00m Gravel, as above, moisture increasing | 991m     | West       |
| 10046419     | 0.00m-0.38m Clay, brown, slight red, light, dry 0.38m-1.26m Clay, texture change, heavy clay, red orange, increasing moisture, increasing orange 1.26m-2.45m Clay, heavy, crubmly, very moist, orange slight red 2.45m-5.00m Clay, mottling increasing, gley colours increasing, calcite, orange red, very moist   | 1015m    | West       |
| 10062120     | 0.00m-0.10m Soil, light crumbly, brown 0.10m-0.39m Loam, incrasing heaviness, brown 0.39m-0.50m Loam, light colour red brown, lighter texture, crumbly 0.50m-1.06m Loam, mottling oranges greys 1.06m-1.90m Loam, mottling orange grey black, calcite chunks, heavy textures, moist 1.90m-2.23m Clay, heavy, some moisture 2.23m-2.43m Soil, black 2.43m-2.55m Clay, heavy, mottles red orange, calcite, wet 2.55m-3.00m Clay, calcite chunks, gley colours, wet   | 1076m    | West       |
| 10063207     | 0.00m-1.00m silty/clay with sand 1.00m-2.00m silty/clay brown 2.00m-6.00m sandy/clay red brown 6.00m-7.00m silty/clay with sand and gravel 7.00m-8.00m silty/clay with sand 8.00m-9.00m silty/clay 9.00m-10.00m clay   | 1106m    | East       |
| 10029928     | 0.00m-0.30m Clay, red, slight orange 0.30m-0.45m Clay, heavier, wetter, red orange 0.45m-0.55m Clay, red orange, heavy 0.55m-0.61m Clay, calcite chunks, red orange, heavy 0.61m-1.20m Clay, black, heavy, very moist, slightly mottling black orange 1.20m-4.00m Clay, colour lighter, calcite chunks, very moist, gley colours increasing with depth   | 1119m    | West       |
| 10069261     | 0.00m-0.30m Loam, brown orange, crumbly, clayey sandy, calcite, gravel present 0.30m-0.62m Loam, brown orange, dry crumbly, calcite present 0.62m-1.11m Sand/Gravel, reds browns 1.11m-1.39m Sandy Clay, increasing, brown orange 1.39m-1.70m Gravel, abrupt change, calcite, sandy no soil, very wet 1.70m-2.00m Clay/Sand, very wet, fine texture  | 1200m    | West       |
| 10105377     | 0.00m-1.37m Topsoil Black 1.37m-3.35m Clay Silty 3.35m-5.18m Silt Clayey 5.18m-6.71m Silt Soft Sandstone 6.71m-8.84m Gravel Medium Water Bearing 8.84m-11.28m Clay Grey Silty Gravel 11.28m-23.16m Basalt Decomposed 23.16m-25.30m Basalt Weathered 25.30m-32.00m Basalt Decomposed 32.00m-33.83m Conglomerate Weathered 33.83m-34.44m Conglomerate White Weathered 34.44m-35.05m Conglomerate Hard  | 1205m    | North      |
| 10075843     | 0.00m-0.30m Topsoil, loamy, black 0.30m-0.80m Clay, heavier, small calcite, red brown, slight mottling 0.80m-1.10m Clay, wetter, sandier texture, red brown, slight mottling 1.10m-1.25m Gravel, sandy texture, crumbly, cream reds, some calcite 1.25m-1.50m Clay, very wet layer, red brown 1.50m-1.55m Clay, very wet, free water, red brown 1.55m-1.90m Clay, still moist, red brown orange black mottles, water at 1.8m 1.90m-2.06m Sandy Clay, moist, brown 2.06m-2.20m Clay, brown, heavier, moist 2.20m-3.00m Clay, mottles, grey orange red, heavy, moist                             | 1209m    | West       |

| NGIS Bore ID | Drillers Log  | Distance | Direction  |
|--------------|---|----------|------------|
| 10020803     | 0.00m-1.00m silty/clay dark brown 1.00m-2.00m silty/clay dark brown with sand 2.00m-3.00m clay/brown with sand 3.00m-4.00m clay/weathered basalt 4.00m-5.00m silty/clay 5.00m-10.00m clay   | 1228m    | South East |
| 10139645     | 0.00m-1.00m soil 1.00m-2.00m clay/dark brown 2.00m-5.00m basalt/wearthered 5.00m-6.00m basalt/weathered 6.00m-8.00m basalt/yellow green weathered 8.00m-17.00m basalt/weathered 17.00m-24.00m basalt  | 1228m    | South East |
| 10126512     | 0.00m-9.00m silt/brown<br>9.00m-11.00m sand/gravel blue grey<br>11.00m-18.00m siltstone/white yellow very hard  | 1261m    | North      |
| 10097109     | 0.00m-0.42m Gravel, white, large gravel, red brown, very crumbly 0.42m-0.85m Clay, texture change, heavier, red orange cream colours 0.85m-1.00m Clay, some calcite, organic matter, red orange, more crumbly 1.00m-1.03m clay, very crumbly, light texture, red orange 1.03m-1.12m Gravel, orange red 1.12m-2.05m Clay, some calcite, moist, mottling, red orange 2.05m-2.20m Clay, quite moist, red brown, slight mottling 2.20m-2.36m Clay, crubmly, not moist, red brown 2.36m-2.45m Clay, moisture, red brown, heavier 2.45m-2.55m Gravel, clay, red brown, water at 2.5m 2.55m-3.00m Clay/Gravel, red brown, moist, mottling, greys oranges | 1275m    | West       |
| 10103275     | 0.00m-0.20m Clay, red 0.20m-0.30m Clay, increased white grey mottles 0.30m-0.70m Clay, texture change: ligth clay, red, no mottles 0.70m-0.90m Clay, calcite chunks, carbonates, mottles, gley colours 0.90m-1.15m Clay, white grey red orange 1.15m-1.35m Clay, red orange 1.35m-2.00m Clay, texture change: more gravel 2.00m-2.28m Clay, red orange 2.28m-2.30m Clay, increasing mottles cream black orange, very moist 2.30m-2.41m Clay, red, heavy 2.41m-3.00m Clay, mottles increasing, lighter colours, gley colours cream orange yellow black   | 1333m    | West       |
| 10081754     | 0.00m-0.91m Soil Black 0.91m-3.05m Soil Red 3.05m-5.18m Clay Sandy 5.18m-6.71m Sand Gravel 6.71m-8.53m Clay 8.53m-10.97m Clay Sandy 10.97m-12.19m Clay Gravel Water Bearing 10.97m-12.19m Gravel Water Bearing 12.19m-14.63m Clay Sandy 14.63m-15.24m Gravel Coarse 15.24m-15.85m Clay 15.85m-16.15m Clay Gravel Water Bearing  | 1357m    | North East |
| 10010562     | 0.00m-0.61m Soil 0.61m-8.53m Clay Gravel 8.53m-10.06m Clay Grey Sandy 10.06m-14.48m Gravel Fine-medium Sand 14.48m-19.66m Clay Grey 19.66m-20.27m Clay Gravel 20.27m-20.57m Clay Gravel 20.57m-20.88m Basalt  | 1384m    | North      |
| 10085302     | 0.00m-0.91m Soil Black 0.91m-3.05m Soil Red 3.05m-5.18m Clay Sandy 5.18m-6.71m Sand Gravel 6.71m-8.53m Clay 8.53m-10.97m Clay Sandy 10.97m-11.58m Gravel Clay 11.58m-12.19m Gravel Water Bearing 12.19m-14.63m Clay Sandy 14.63m-15.24m Clay Gravel 15.24m-15.85m Clay 15.85m-16.15m Clay Gravel Water Bearing  | 1387m    | North East |
| 10007043     | 0.00m-0.91m Soil 0.91m-4.88m Soil Red 4.88m-6.71m Soil Red Sandy 6.71m-7.92m Sand Sandy Clay 7.92m-9.14m Gravel Clay 9.14m-10.97m Clay White Water Bearing 10.97m-12.19m Rock   | 1444m    | East       |

| NGIS Bore ID | Drillers Log  | Distance | Direction  |
|--------------|---|----------|------------|
| 10013701     | 0.00m-0.91m Soil Black<br>0.91m-2.44m Soil Red<br>2.44m-4.88m Soil Sandy<br>4.88m-6.71m Sand Dry<br>6.71m-9.75m Clay Gravel<br>9.75m-15.85m Clay White  | 1444m    | East       |
| 10105115     | 0.00m-0.45m Topsoil 0.45m-5.10m Clay Grey 5.10m-6.40m Gravel Dry 6.40m-8.20m Silt Grey Sticky 8.20m-10.60m Clay Grey Some Pebbles/pebbly 10.60m-14.30m Gravel Sandy Water Bearing 14.30m-17.00m Clay Grey 17.00m-18.50m Gravel Sandy Water Bearing 18.50m-19.50m Clay 19.50m-20.70m Gravel Dirty Water Bearing 20.70m-20.71m Sand Conglomerated Gravel  | 1447m    | North East |
| 10064153     | 0.00m-0.91m Soil Black<br>0.91m-7.92m Soil Red<br>7.92m-9.14m Sand Water Bearing Clay<br>9.14m-9.45m Clay White<br>9.45m-12.19m Clay<br>12.19m-18.29m Clay White  | 1483m    | East       |
| 10145585     | 0.00m-1.00m topsoil 1.00m-2.00m clay/orange 2.00m-6.00m silty/clay brown 6.00m-7.00m sand 7.00m-10.00m silty/clay brown 10.00m-13.00m sand/gravel brown fine-coarse 13.00m-14.00m clayey/sand and gravel 14.00m-15.00m clay/grey  | 1527m    | North East |
| 10115348     | 0.00m-0.91m Soil Black<br>0.91m-7.32m Soil Red<br>7.32m-9.14m Soil Wet Sandy<br>9.14m-11.28m Gravel Dry Clay  | 1530m    | North      |
| 10097508     | 0.00m-4.88m Soil 4.88m-6.10m Clay Sandy 6.10m-6.71m Clay Gravel 6.71m-9.75m Clay Pea Gravel 9.75m-10.06m Clay Green Stones 10.06m-10.36m Stones Coarse 10.36m-11.58m Clay Gravel 11.58m-12.19m Clay 12.19m-13.72m Gravel Water Bearing 13.72m-14.94m Sand Coarse Water Bearing 14.94m-16.46m Clay Fine Sand 16.46m-16.92m Stones Water Bearing 16.92m-18.90m Clay Stones  | 1531m    | North East |
| 10075079     | 0.00m-0.36m Loam; dark brown 0.36m-0.50m Loam; texture change, light texture, light colour red brown, very crumbly 0.50m-0.95m Clay, heavy 0.95m-1.44m Clay, texture change, lighter colours, lighter texture, crumbly yellow red 1.44m-1.51m Clay, large calcite chunks, full spectrum of gley colours 1.51m-2.09m Clay, red brown, light 2.09m-2.22m Clay, calcite chunks 2.22m-2.50m Clay, gley colours 2.50m-3.00m Clay, wet layer, free water not observed | 1545m    | West       |
| 10100324     | 0.00m-0.91m Soil Black<br>0.91m-2.44m Soil Red<br>2.44m-4.88m Soil Sandy<br>4.88m-6.71m Sand<br>6.71m-10.36m Clay Gravel<br>10.36m-15.85m Clay White  | 1546m    | East       |
| 10114042     | 0.00m-6.10m Soil Black Red Wet 6.10m-7.92m Soil Sandy Water Bearing 7.92m-10.67m Clay Gravel 10.67m-11.28m Gravel 11.28m-12.80m Gravel Clay 12.80m-16.15m Gravel Water Supply 16.15m-17.37m Clay Gravel 17.37m-17.68m Gravel Water Supply 17.68m-20.12m Clay Some Gravel 20.12m-21.34m Clay Yellow Sandy  | 1561m    | North      |
| 10093029     | 0.00m-0.91m Soil 0.91m-4.88m Soil Red 4.88m-6.71m Soil Red Sandy 6.71m-7.92m Sand Sandy Clay 6.71m-7.92m Wet 7.92m-9.14m Gravel Clay 9.14m-11.89m Clay White 11.89m-12.19m Rock   | 1571m    | East       |

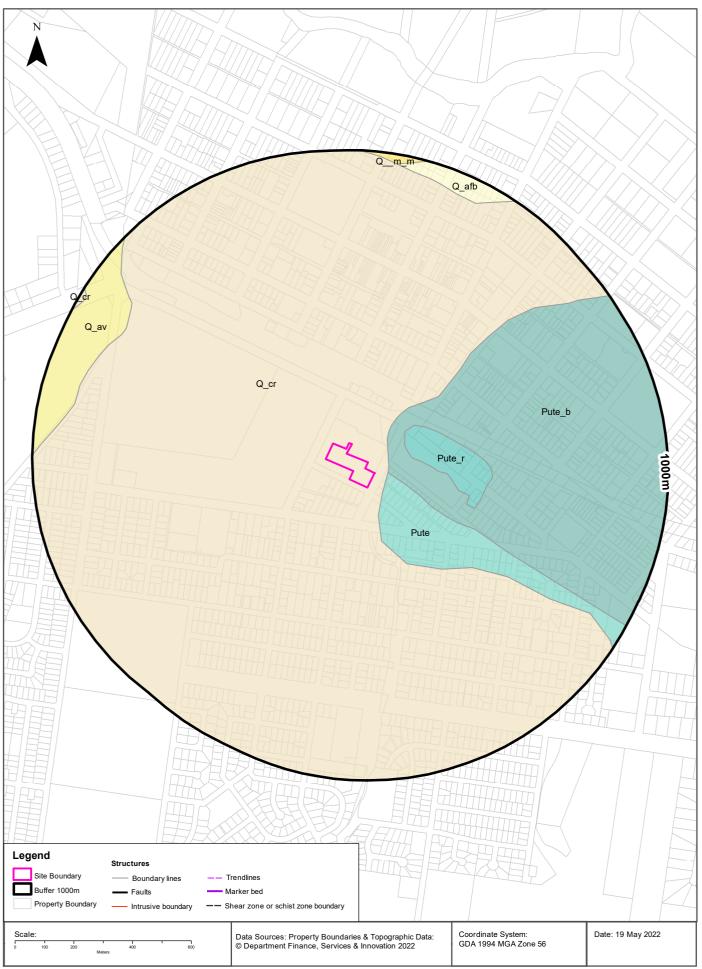
| NGIS Bore ID | Drillers Log  | Distance | Direction  |
|--------------|---|----------|------------|
| 10021206     | 0.00m-0.61m Topsoil 0.61m-3.05m Clay 3.05m-4.57m Clay Silty 4.57m-10.06m Clay Gravel 10.06m-10.21m Sand Gravel 10.21m-12.50m Clay Gravel Water Bearing 12.50m-13.11m Sand Gravel Water Bearing 13.11m-16.76m Clay Dark Grey 16.76m-17.68m Clay Gravel 17.68m-18.59m Sand Gravel Water Bearing 18.59m-19.51m Clay Gravel   | 1573m    | North East |
| 10123568     | 0.00m-1.22m Clay 1.22m-7.92m Loam Sandy 7.92m-9.14m Sand 9.14m-11.89m Gravel Sandy 11.89m-13.41m Gravel Coarse Water Supply 13.41m-14.63m Sand Clay Streaks 14.63m-15.24m Sand Red  | 1580m    | North East |
| 10102196     | 0.00m-4.88m Soil Black 4.88m-6.10m Soil Red Sandy 6.10m-7.92m Gravel Sandy Clay 7.92m-9.14m Gravel Wet Sand 9.14m-10.06m Gravel Water Bearing 10.06m-11.58m Gravel Clay 11.58m-11.89m Gravel Water Bearing 11.89m-13.11m Gravel Clay 13.11m-13.87m Gravel Water Bearing 13.87m-15.85m Gravel Large 15.85m-18.29m Gravel 18.29m-18.90m Sand Fine 18.90m-20.12m Clay Gravel 20.12m-20.73m Clay Yellow | 1582m    | North      |
| 10076536     | 0.00m-0.91m Soil Black 0.91m-7.92m Soil Red 7.92m-9.14m Clay 7.92m-9.14m Sand Gravel Water Bearing 9.14m-9.45m Clay White 9.45m-12.19m Clay 12.19m-18.29m Clay White  | 1604m    | East       |
| 10120112     | 0.00m-1.00m silty/clay loam<br>1.00m-4.00m silty/clay with sand<br>4.00m-6.00m silty/clay   | 1609m    | South West |
| 10129955     | 0.00m-1.00m clay/red silty sandy 1.00m-2.00m clay/red silty sandy more clay 2.00m-5.00m silty clay 5.00m-8.00m sandstone/lithic/siltstone weathered 8.00m-9.00m conglomerate/interbeds of mudstone and siltstone 9.00m-12.00m conglomerate with rock fragments size increases with depth 12.00m-13.00m mudstone/weathered 13.00m-16.00m shale/siltstone dark grey weathered 16.00m-24.00m shale     | 1614m    | West       |
| 10146072     | 0.00m-1.00m clay/red silty sandy 1.00m-2.00m clay/red silty sandy more clay 2.00m-5.00m silty clay 5.00m-8.00m sandstone/lithic/siltstone weathered 8.00m-9.00m conglomerate/interbeds of mudstone and siltstone 9.00m-12.00m conglomerate with rock fragments size increases with depth 12.00m-13.00m mudstone/weathered 13.00m-16.00m shale/siltstone dark grey weathered 16.00m-24.00m shale     | 1614m    | West       |
| 10108832     | 0.00m-8.84m Soil Black<br>8.84m-11.89m Soil Sandy<br>11.89m-12.19m Sand Water Bearing<br>12.19m-12.50m Gravel Water Bearing<br>12.50m-13.41m Gravel Clay<br>13.41m-14.02m Clay Yellow Gravel  | 1618m    | North      |
| 10091330     | 0.00m-0.91m Soil Black<br>0.91m-4.88m Soil Red<br>4.88m-7.32m Clay Sandy<br>7.32m-11.58m Clay Stiff   | 1664m    | North East |
| 10098507     | 0.00m-0.91m Soil Black 0.91m-7.01m Soil Red 7.01m-7.62m Sand 7.62m-10.67m Clay Patchy Sand 10.67m-14.63m Clay Stiff   | 1678m    | North East |
| 10077736     | 0.00m-0.91m Topsoil 0.91m-7.01m Soil Red 7.01m-7.62m Sand Wet 7.62m-10.67m Clay Patchy Sand 10.67m-12.19m Clay Stiff  | 1736m    | North East |

| NGIS Bore ID | Drillers Log   | Distance | Direction  |
|--------------|--|----------|------------|
| 10061230     | 0.00m-4.88m Soil 4.88m-6.10m Clay Sandy 6.10m-6.71m Clay Gravel 6.71m-9.75m Clay Pea Gravel 9.75m-10.06m Clay Green Stones 10.06m-10.36m Stones Coarse 10.36m-11.58m Clay Gravel 11.58m-12.19m Clay 12.19m-13.72m Gravel Water Bearing 13.72m-14.94m Sand Coarse Water Bearing 14.94m-16.46m Clay Fine Sand 16.46m-17.07m Stones Water Bearing 17.07m-18.90m Clay Water Bearing Stones   | 1743m    | North East |
| 10017791     | 0.00m-0.91m Soil Black<br>0.91m-4.88m Soil Red<br>4.88m-7.32m Clay Sandy<br>7.32m-11.58m Clay Stiff  | 1756m    | North East |
| 10039083     | 0.00m-4.57m Topsoil 4.57m-9.60m Clay Gravel 9.60m-9.75m Gravel Coarse 9.75m-11.13m Sand Fine-medium Gravel 11.13m-11.28m Gravel Coarse 11.28m-12.19m Sand Medium-coarse Medium Gravel 12.19m-12.65m Gravel Medium-coarse 12.65m-12.80m Gravel Fine Some Sand 12.80m-13.11m Gravel Fine-medium 13.11m-13.72m Clay Orange Gravel 13.72m-15.09m Gravel Coarse 15.09m-16.15m Gravel Fine-coarse 16.15m-16.76m Sand Medium Medium Gravel 16.76m-17.53m Gravel Coarse Fine 17.53m-17.98m Sand Medium Fine Gravel 17.98m-20.42m Sand Fine-medium Gravel 20.42m-21.03m Clay Bands Medium Gravel 21.03m-21.79m Clay Fatty 21.79m-22.71m Gravel Medium-coarse Sand 22.71m-24.54m Sand Fine-medium Gravel 24.54m-60.96m Conglomerate Clay | 1817m    | North      |
| 10006647     | 0.00m-0.91m Soil Black 0.91m-3.05m Soil Red 3.05m-3.35m Soil Sandy 3.35m-6.71m Soil Sandy Stones Large 6.71m-7.01m Sand Gravel Wet 7.01m-8.84m Clay 8.84m-11.28m Gravel Coarse Water Bearing 11.28m-12.50m Gravel Clay 12.50m-16.76m Clay Sandy  | 1829m    | East       |
| 10013702     | 0.00m-0.91m Soil Black 0.91m-3.05m Soil Red 3.05m-3.35m Soil Sandy 3.35m-6.71m Soil Sandy Stones Large 6.71m-7.01m Sand Gravel Wet 7.01m-8.84m Clay 8.84m-10.06m Gravel Coarse 10.06m-11.28m Gravel Water Bearing 11.28m-12.50m Gravel Clay 12.50m-16.46m Clay Sandy   | 1829m    | East       |
| 10142492     | 0.00m-0.79m Topsoil 0.79m-6.00m Clay 6.00m-7.00m Gravel Water Bearing 7.00m-11.27m Clay Gravel 11.27m-17.37m Clay 17.37m-19.20m Clay Orange Gravel 19.20m-23.16m Gravel Orange Water Supply 23.16m-25.00m Clay Yellow Gravel   | 1837m    | North East |
| 10037939     | 0.00m-0.30m Soil 0.30m-2.13m Clay Yellow 2.13m-2.44m Clay Gravel 2.44m-5.49m Clay Yellow Grit 5.49m-8.84m Gravel Water Bearing Grit 8.84m-9.14m Clay 9.14m-9.45m Drift 9.45m-9.75m Clay 9.75m-10.06m Drift 10.06m-12.50m Clay Hard Grit 12.50m-12.80m Sand Pebbles/pebbly 12.80m-13.41m Clay   | 1849m    | East       |
| 10067019     | 0.00m-0.50m Soil, dark brown, crumbly, slightly dry reds 0.50m-1.07m Gravel, calcite chunks, gley colours, crumbly sand 1.07m-1.17m Clay/Sand, heavy, gley colours, light grey reds 1.17m-1.60m Sandy Clay, very wet, gley colours 1.60m-1.90m Clay, heavy, less moisture, gley colours, grey orange   | 1877m    | South West |

| NGIS Bore ID | Drillers Log   | Distance | Direction  |
|--------------|--|----------|------------|
| 10110389     | 0.00m-0.66m Clay, black brown, dry, increasing moisture 0.66m-1.63m Clay, heavy, wet, black brown 1.63m-1.80m Gravel, red, slightly sandy, slight gley colours, orange grey, calcite present 1.80m-2.05m Clay, heavy, black brown, very wet 2.05m-2.70m Clay, red, slightly drier, slightly sandy, gley colours, grey orange 2.70m-4.00m Sandy Clay, sandy increasing gley colours, orange grey, very set sand, water at 3.5m  | 1895m    | West       |
| 10120113     | 0.00m-1.00m soil 1.00m-3.00m silty clay loam weathered sandstone 3.00m-5.00m sandstone weathered with chert and claystone contains limestone 5.00m-9.00m clay/sticky light brown with gravel 9.00m-11.00m clay with gravel grey sticky (basalt chips) 11.00m-16.00m clay/yellow sticky with gravel 16.00m-20.00m clay/sticky red brown 20.00m-23.00m clay/red brown with thin layer limestone 23.00m-30.00m basalt weathered   | 1921m    | South West |
| 10135483     | 0.00m-1.00m soil 1.00m-3.00m silty clay loam weathered sandstone 3.00m-5.00m sandstone weathered with chert and claystone contains limestone 5.00m-9.00m clay/sticky light brown with gravel 9.00m-11.00m clay with gravel grey sticky (basalt chips) 11.00m-16.00m clay/yellow sticky with gravel 16.00m-20.00m clay/sticky red brown 20.00m-23.00m clay/red brown with thin layer limestone 23.00m-30.00m basalt weathered   | 1921m    | South West |
| 10147172     | 0.00m-1.00m soil 1.00m-3.00m silty clay loam weathered sandstone 3.00m-5.00m sandstone weathered with chert and claystone contains limestone 5.00m-9.00m clay/sticky light brown with gravel 9.00m-11.00m clay with gravel grey sticky (basalt chips) 11.00m-16.00m clay/yellow sticky with gravel 16.00m-20.00m clay/sticky red brown 20.00m-23.00m clay/red brown with thin layer limestone 23.00m-30.00m basalt weathered   | 1921m    | South West |
| 10050139     | 0.00m-0.67m Topsoil 0.67m-8.69m Clay Some Sand 8.69m-9.45m Gravel Coarse River Water Supply 9.45m-9.60m Gravel Some Clay Water Supply 9.60m-11.28m Gravel Fine-coarse Water Supply 11.28m-11.89m Gravel Fine Some Sand Water Supply 11.89m-12.19m Clay Water Supply 12.19m-12.80m Gravel Fine Sand Water Supply 12.80m-13.72m Sand Fine Water Supply 13.72m-15.24m Sand Fine Water Supply 15.24m-15.70m Gravel Coarse Sand Water Supply 15.24m-15.70m Some Clay Water Supply | 1939m    | East       |
| 10145309     | 0.00m-1.00m silty/clay loam<br>1.00m-2.00m clay<br>2.00m-6.00m silty/clay<br>6.00m-7.00m silty/clay loam   | 1950m    | South West |

 $\label{logDataSource:Bureau} \begin{tabular}{ll} Drill Log Data Source: Bureau of Meteorology; Water NSW. Creative Commons 3.0 © Commonwealth of Australia http://creativecommons.org/licenses/by/3.0/au/deed.en \end{tabular}$ 





# Geology

10-24 Anzac Parade, Gunnedah, NSW 2380

### **Geological Units**

What are the Geological Units within the dataset buffer?

| Unit Code | Unit Name   | Description  | Unit Stratigraphy  | Age                                     | Dominant Lithology | Distance |
|-----------|---|--|--|---|--------------------|----------|
| Q_cr      | Colluvial and residual deposits                       | Undifferentiated colluvial and residual deposits.  | /Colluvium//Colluvial and residual deposits//  | Quaternary (base) to Pleistocene (top)  | Clastic sediment   | 0m       |
| Pute      | Werrie Basalt   | Basalt, some alkaline<br>(emplaced as a lava), tuffs,<br>autochthonous and<br>cataclastic sedimentary<br>rocks, and local thin coals.  | /Ungrouped Permian units//Werrie Basalt//  | Sakmarian (base) to<br>Artinskian (top) | Basalt             | 44m      |
| Pute_b    | Werrie Basalt - basalt                                | Basalt.  | /Ungrouped Permian<br>units//Werrie<br>Basalt/Werrie Basalt -<br>basalt/                             | Sakmarian (base) to<br>Artinskian (top) | Basalt             | 46m      |
| Pute_r    | Werrie Basalt - rhyolite                              | Rhyolite.  | /Ungrouped Permian<br>units//Werrie<br>Basalt/Werrie Basalt -<br>rhyolite/                           | Sakmarian (base) to<br>Artinskian (top) | Rhyolite           | 135m     |
| Q_av      | Alluvial valley deposits                              | Silt, clay, (fluvially deposited) lithic to quartz-lithic sand, gravel.  | /Alluvium//Alluvial valley deposits//  | Quaternary (base) to<br>Now (top)       | Clastic sediment   | 806m     |
| Q_afb     | Alluvial floodplain<br>deposits - backplain<br>facies | Unconsolidated dark<br>yellow-brown clay, slightly<br>silty with rare carbonate<br>nodules and quartz sand;<br>common desiccation<br>cracks; laminated and<br>contains rootlets. | /Alluvium//Alluvial<br>floodplain<br>deposits/Alluvial<br>floodplain deposits -<br>backplain facies/ | Quaternary (base) to<br>Now (top)       | Clastic sediment   | 924m     |
| Qm_m      | Marra Creek Formation -<br>meander plain facies       | Unconsolidated dark to pale grey and pale yellow-grey clayey silt.   | ///Marra Creek<br>Formation//Marra Creek<br>Formation - meander<br>plain facies                      | Holocene (base) to<br>Now (top)         | Silt               | 967m     |

## **Linear Geological Structures**

What are the Dyke, Sill, Fracture, Lineament and Vein trendlines within the dataset buffer?

| Map ID      | Feature Description | Map Sheet Name | Distance |
|-------------|---------------------|----------------|----------|
| No Features |                     |                |          |

What are the Faults, Shear zones or Schist zones, Intrusive boundaries & Marker beds within the dataset buffer?

| Map ID      | Boundary Type | Description | Map Sheet Name | Distance |
|-------------|---------------|-------------|----------------|----------|
| No Features |               |             |                |          |

Geological Data Source: Statewide Seamless Geology v2.1, Department of Regional NSW Creative Commons 4.0 © Commonwealth of Australia http://creativecommons.org/licenses/by/4.0/au/deed.en

# **Naturally Occurring Asbestos Potential**

10-24 Anzac Parade, Gunnedah, NSW 2380

## **Naturally Occurring Asbestos Potential**

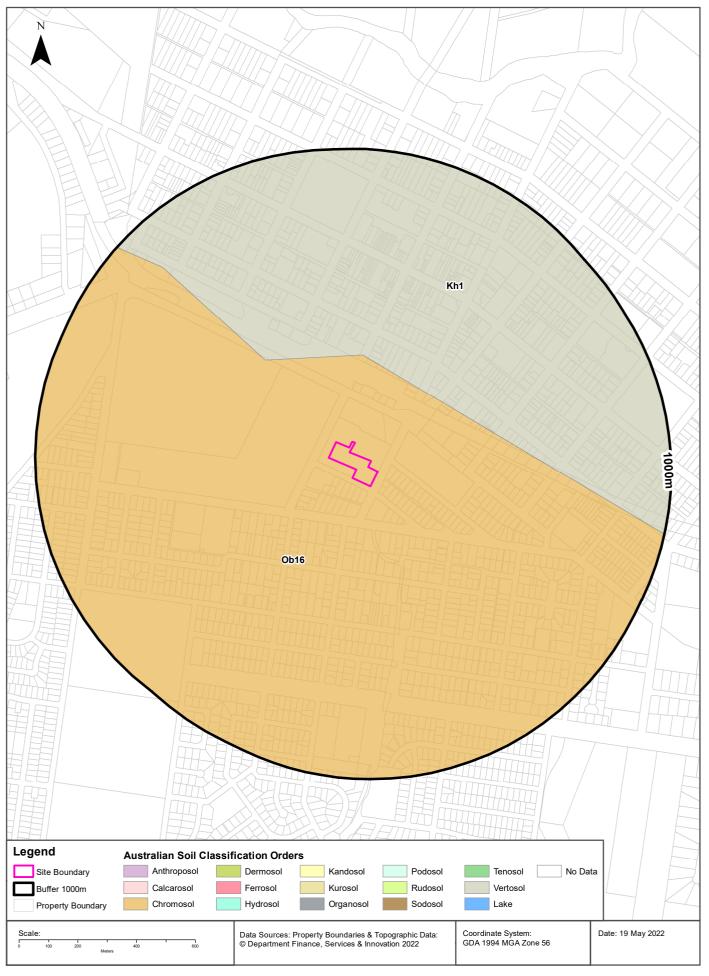
Naturally Occurring Asbestos Potential within the dataset buffer:

| Potential                  | Sym | Strat Name | Group | Formation | Scale | Min Age | Max Age | Rock Type | Dom Lith | Description | Dist | Dir |
|----------------------------|-----|------------|-------|-----------|-------|---------|---------|-----------|----------|-------------|------|-----|
| No<br>records in<br>buffer |     |            |       |           |       |         |         |           |          |             |      |     |

Naturally Occurring Asbestos Potential Data Source: © State of New South Wales through NSW Department of Industry, Resources & Energy

#### **Atlas of Australian Soils**





## Soils

10-24 Anzac Parade, Gunnedah, NSW 2380

#### **Atlas of Australian Soils**

Soil mapping units and Australian Soil Classification orders within the dataset buffer:

| Map Unit<br>Code | Soil Order | Map Unit Description  | Distance | Direction  |
|------------------|------------|---|----------|------------|
| Ob16             | Chromosol  | Broken topographyundulating to low hilly terrain broken by steeply sloping cuesta-like ridges: chief soils of the undulating to low hilly areas are hard alkaline red soils (Dr2.23) and sometimes (Dr2.33). Associated are steep ridges with bare rock walls on their east-facing slopes, and various soils, including (Uc2.2), (Dy5.42), and (Gn2.15), usually covered with waterworn gravels on their gentler slopes. As mapped, areas of unit Kc1 are included. Data are limited. | Om       | On-site    |
| Kh1              | Vertosol   | Plains along major and minor functional streams: chief soils are dark cracking clays (Ug5.16) and hard alkaline dark soils (Dd1.33 and Dd1.43) often occurring together as soil complexes, and showing weak (few inches) gilgai features. There is a general similarity with unit Kh2.  | 271m     | North East |

Atlas of Australian Soils Data Source: CSIRO

 $\label{lem:commons} \textbf{Creative Commons 4.0 @ Commonwealth of Australia http://creativecommons.org/licenses/by/4.0/au/deed.en} \\$ 

### **Acid Sulfate Soils**

10-24 Anzac Parade, Gunnedah, NSW 2380

### **Environmental Planning Instrument - Acid Sulfate Soils**

What is the on-site Acid Sulfate Soil Plan Class that presents the largest environmental risk?

| Soil Class | Description | EPI Name |
|------------|-------------|----------|
| N/A        |             |          |

If the on-site Soil Class is 5, what other soil classes exist within 500m?

| Soil Class | Description | EPI Name | Distance | Direction |
|------------|-------------|----------|----------|-----------|
| N/A        |             |          |          |           |

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#### **Atlas of Australian Acid Sulfate Soils**





### **Acid Sulfate Soils**

10-24 Anzac Parade, Gunnedah, NSW 2380

#### **Atlas of Australian Acid Sulfate Soils**

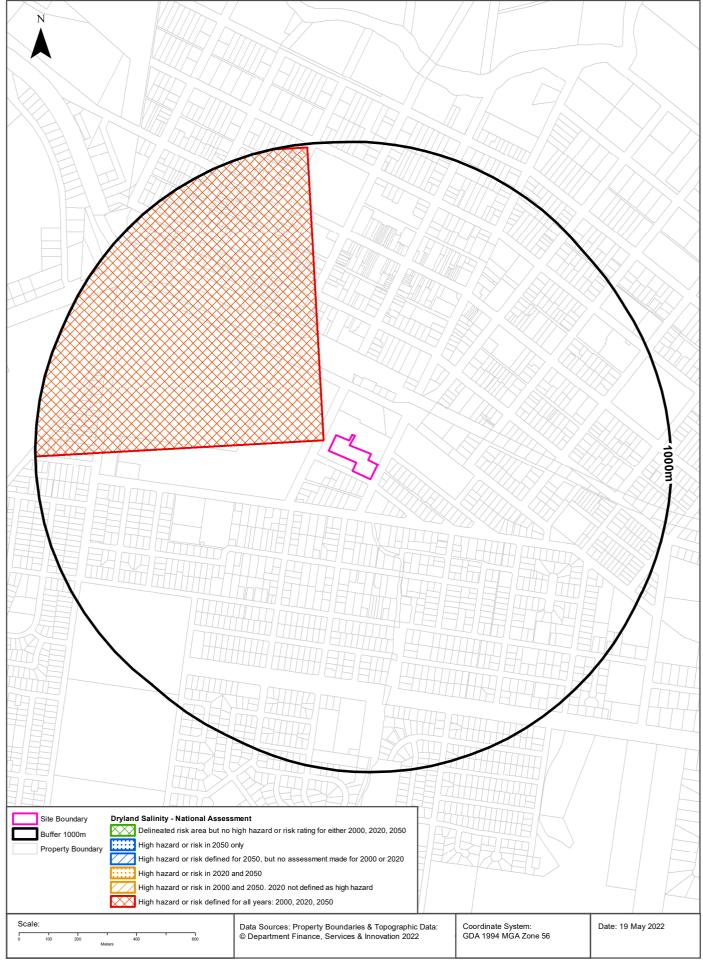
Atlas of Australian Acid Sulfate Soil categories within the dataset buffer:

| Class | Description   | Distance | Direction |
|-------|---|----------|-----------|
| С     | Extremely low probability of occurrence. 1-5% chance of occurrence with occurrences in small localised areas. | 0m       | On-site   |

Atlas of Australian Acid Sulfate Soils Data Source: CSIRO Creative Commons 3.0 © Commonwealth of Australia http://creativecommons.org/licenses/by/3.0/au/deed.en

### **Dryland Salinity**





### **Dryland Salinity**

10-24 Anzac Parade, Gunnedah, NSW 2380

### **Dryland Salinity - National Assessment**

Is there Dryland Salinity - National Assessment data onsite?

No

Is there Dryland Salinity - National Assessment data within the dataset buffer?

Yes

What Dryland Salinity assessments are given?

| Assessment 2000     | Assessment 2020     | Assessment 2050     | Distance | Direction  |
|---------------------|---------------------|---------------------|----------|------------|
| High hazard or risk | High hazard or risk | High hazard or risk | 33m      | North West |

Dryland Salinity Data Source: National Land and Water Resources Audit

The Commonwealth and all suppliers of source data used to derive the maps of "Australia, Forecast Areas Containing Land of High Hazard or Risk of Dryland Salinity from 2000 to 2050" do not warrant the accuracy or completeness of information in this product. Any person using or relying upon such information does so on the basis that the Commonwealth and data suppliers shall bear no responsibility or liability whatsoever for any errors, faults, defects or omissions in the information. Any persons using this information do so at their own risk.

In many cases where a high risk is indicated, less than 100% of the area will have a high hazard or risk.

# **Mining**

10-24 Anzac Parade, Gunnedah, NSW 2380

## **Mining Subsidence Districts**

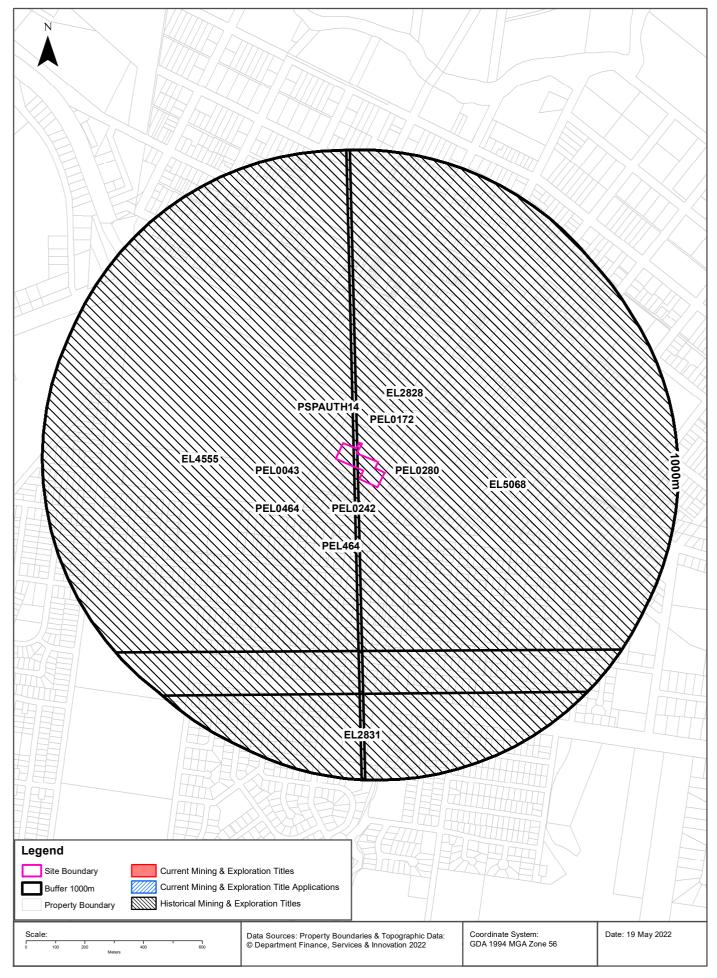
Mining Subsidence Districts within the dataset buffer:

| District  | Distance | Direction |
|---|----------|-----------|
| There are no Mining Subsidence Districts within the report buffer |          |           |

Mining Subsidence District Data Source: © Land and Property Information (2016)
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### **Mining & Exploration Titles**





# **Mining**

10-24 Anzac Parade, Gunnedah, NSW 2380

### **Current Mining & Exploration Titles**

Current Mining & Exploration Titles within the dataset buffer:

| Title Ref | Holder               | <b>Grant Date</b> | Expiry Date | Last<br>Renewed | Operation | Resource | Minerals | Dist | Dir |
|-----------|----------------------|-------------------|-------------|-----------------|-----------|----------|----------|------|-----|
| N/A       | No records in buffer |                   |             |                 |           |          |          |      |     |

Current Mining & Exploration Titles Data Source: © State of New South Wales through NSW Department of Industry

# **Current Mining & Exploration Title Applications**

Current Mining & Exploration Title Applications within the dataset buffer:

| Application Ref | Applicant            | Application Date | Operation | Resource | Minerals | Dist | Dir |
|-----------------|----------------------|------------------|-----------|----------|----------|------|-----|
| N/A             | No records in buffer |                  |           |          |          |      |     |

Current Mining & Exploration Title Applications Data Source: © State of New South Wales through NSW Department of Industry

# **Mining**

10-24 Anzac Parade, Gunnedah, NSW 2380

## **Historical Mining & Exploration Titles**

Historical Mining & Exploration Titles within the dataset buffer:

| Title Ref | Holder  | Start Date  | End Date    | Resource  | Minerals    | Dist | Dir     |
|-----------|---|-------------|-------------|-----------|-------------|------|---------|
| EL4555    | ALPHADALE PTY LIMITED                               | 14 Jul 1993 | 13 Jul 1995 | MINERALS  | Au          | 0m   | On-site |
| EL2828    | CRA EXPLORATION PTY LIMITED                         | 01 Mar 1987 | 01 Jul 1988 | MINERALS  | Au Cu Pb Zn | 0m   | On-site |
| PEL0172   |   |             |             | PETROLEUM | Petroleum   | 0m   | On-site |
| EL5068    | ALPHADALE PTY LIMITED                               | 24 Jul 1996 | 23 Jul 1998 | MINERALS  | Au Cu       | 0m   | On-site |
| PEL0242   | SION RESOURCES<br>AUSTRALIA LTD                     | 13/10/1980  | 12/10/1984  | PETROLEUM | Petroleum   | 0m   | On-site |
| PEL0280   | TASMAN GAS PTY LTD,<br>GOLDCHARGE MINING<br>PTY LTD | 15/06/1990  | 14/06/1992  | PETROLEUM | Petroleum   | 0m   | On-site |
| PEL0043   | MID-EASTERN OIL NL                                  |             |             | PETROLEUM | Petroleum   | 0m   | On-site |
| PEL464    | DART ENERGY (APOLLO)<br>PTY LTD                     |             |             | MINERALS  |             | 0m   | On-site |
| PEL0464   | DART ENERGY (APOLLO)<br>PTY LTD                     | 22/10/2008  | 6/03/2015   | PETROLEUM | Petroleum   | 0m   | On-site |
| PSPAUTH14 | MACQUARIE ENERGY PTY LTD                            | 8/03/2007   | 7/03/2008   | PETROLEUM | Petroleum   | 0m   | On-site |
| EL2831    | CRA EXPLORATION PTY LIMITED                         | 01 Jun 1986 | 01 Jun 1988 | MINERALS  | Au Cu Pb Zn | 704m | South   |

Historical Mining & Exploration Titles Data Source: © State of New South Wales through NSW Department of Industry

# **State Environmental Planning Policy**

10-24 Anzac Parade, Gunnedah, NSW 2380

## **State Significant Precincts**

What SEPP State Significant Precincts exist within the dataset buffer?

| Map<br>Id | Precinct             | EPI Name | Published<br>Date | Commenced Date | Currency<br>Date | Amendment | Distance | Direction |
|-----------|----------------------|----------|-------------------|----------------|------------------|-----------|----------|-----------|
| N/A       | No records in buffer |          |                   |                |                  |           |          |           |

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# **EPI Planning Zones**





# **Environmental Planning Instrument**

10-24 Anzac Parade, Gunnedah, NSW 2380

# **Land Zoning**

What EPI Land Zones exist within the dataset buffer?

| Zone | Description                   | Purpose                              | EPI Name                                  | Published<br>Date | Commenced Date | Currency<br>Date | Amendment          | Distance | Direction     |
|------|-------------------------------|--------------------------------------|---|-------------------|----------------|------------------|--------------------|----------|---------------|
| R2   | Low Density<br>Residential    |                                      | Gunnedah Local<br>Environmental Plan 2012 | 29/06/2012        | 29/06/2012     | 21/05/2021       |                    | 0m       | On-site       |
| R3   | Medium Density<br>Residential |                                      | Gunnedah Local<br>Environmental Plan 2012 | 30/06/2017        | 30/06/2017     | 21/05/2021       | Amendment<br>No 10 | 0m       | South         |
| RE1  | Public Recreation             |                                      | Gunnedah Local<br>Environmental Plan 2012 | 29/06/2012        | 29/06/2012     | 21/05/2021       |                    | 38m      | East          |
| RE1  | Public Recreation             |                                      | Gunnedah Local<br>Environmental Plan 2012 | 29/06/2012        | 29/06/2012     | 21/05/2021       |                    | 40m      | South<br>East |
| RE1  | Public Recreation             |                                      | Gunnedah Local<br>Environmental Plan 2012 | 30/06/2017        | 30/06/2017     | 21/05/2021       | Amendment<br>No 10 | 147m     | South         |
| SP2  | Infrastructure                | Rail<br>Infrastructure<br>Facilities | Gunnedah Local<br>Environmental Plan 2012 | 29/06/2012        | 29/06/2012     | 21/05/2021       |                    | 160m     | North         |
| RE1  | Public Recreation             |                                      | Gunnedah Local<br>Environmental Plan 2012 | 29/06/2012        | 29/06/2012     | 21/05/2021       |                    | 179m     | North<br>West |
| R3   | Medium Density<br>Residential |                                      | Gunnedah Local<br>Environmental Plan 2012 | 21/05/2021        | 21/05/2021     | 21/05/2021       | Amendment<br>No 11 | 234m     | East          |
| IN1  | General Industrial            |                                      | Gunnedah Local<br>Environmental Plan 2012 | 29/06/2012        | 29/06/2012     | 21/05/2021       |                    | 248m     | North         |
| B5   | Business<br>Development       |                                      | Gunnedah Local<br>Environmental Plan 2012 | 29/06/2012        | 29/06/2012     | 21/05/2021       |                    | 273m     | North<br>West |
| SP2  | Infrastructure                | Cemetery                             | Gunnedah Local<br>Environmental Plan 2012 | 29/06/2012        | 29/06/2012     | 21/05/2021       |                    | 368m     | South<br>West |
| B4   | Mixed Use                     |                                      | Gunnedah Local<br>Environmental Plan 2012 | 21/05/2021        | 21/05/2021     | 21/05/2021       | Amendment<br>No 11 | 392m     | North<br>East |
| R3   | Medium Density<br>Residential |                                      | Gunnedah Local<br>Environmental Plan 2012 | 29/06/2012        | 29/06/2012     | 21/05/2021       |                    | 453m     | East          |
| B2   | Local Centre                  |                                      | Gunnedah Local<br>Environmental Plan 2012 | 29/06/2012        | 29/06/2012     | 21/05/2021       |                    | 501m     | North         |
| RE1  | Public Recreation             |                                      | Gunnedah Local<br>Environmental Plan 2012 | 29/06/2012        | 29/06/2012     | 21/05/2021       |                    | 582m     | East          |
| R3   | Medium Density<br>Residential |                                      | Gunnedah Local<br>Environmental Plan 2012 | 29/06/2012        | 29/06/2012     | 21/05/2021       |                    | 607m     | East          |
| RE2  | Private Recreation            |                                      | Gunnedah Local<br>Environmental Plan 2012 | 29/06/2012        | 29/06/2012     | 21/05/2021       |                    | 685m     | South<br>West |
| RE1  | Public Recreation             |                                      | Gunnedah Local<br>Environmental Plan 2012 | 29/06/2012        | 29/06/2012     | 21/05/2021       |                    | 688m     | South<br>East |
| RE1  | Public Recreation             |                                      | Gunnedah Local<br>Environmental Plan 2012 | 29/06/2012        | 29/06/2012     | 21/05/2021       |                    | 711m     | North         |
| B4   | Mixed Use                     |                                      | Gunnedah Local<br>Environmental Plan 2012 | 29/06/2012        | 29/06/2012     | 21/05/2021       |                    | 715m     | North<br>East |
| R3   | Medium Density<br>Residential |                                      | Gunnedah Local<br>Environmental Plan 2012 | 29/06/2012        | 29/06/2012     | 21/05/2021       |                    | 717m     | North<br>East |
| RE1  | Public Recreation             |                                      | Gunnedah Local<br>Environmental Plan 2012 | 29/06/2012        | 29/06/2012     | 21/05/2021       |                    | 778m     | East          |
| R2   | Low Density<br>Residential    |                                      | Gunnedah Local<br>Environmental Plan 2012 | 29/06/2012        | 29/06/2012     | 21/05/2021       |                    | 783m     | North<br>East |
| RE1  | Public Recreation             |                                      | Gunnedah Local<br>Environmental Plan 2012 | 29/06/2012        | 29/06/2012     | 21/05/2021       |                    | 804m     | South<br>West |
| R2   | Low Density<br>Residential    |                                      | Gunnedah Local<br>Environmental Plan 2012 | 29/06/2012        | 29/06/2012     | 21/05/2021       |                    | 817m     | East          |
| R2   | Low Density<br>Residential    |                                      | Gunnedah Local<br>Environmental Plan 2012 | 29/06/2012        | 29/06/2012     | 21/05/2021       |                    | 855m     | North         |
| RU1  | Primary Production            |                                      | Gunnedah Local<br>Environmental Plan 2012 | 29/06/2012        | 29/06/2012     | 21/05/2021       |                    | 894m     | North         |
| RE1  | Public Recreation             |                                      | Gunnedah Local<br>Environmental Plan 2012 | 29/06/2012        | 29/06/2012     | 21/05/2021       |                    | 943m     | East          |

| Zone | Description                   | Purpose | EPI Name                                  | Published<br>Date | Commenced Date | Currency<br>Date | Amendment | Distance | Direction     |
|------|-------------------------------|---------|---|-------------------|----------------|------------------|-----------|----------|---------------|
| R3   | Medium Density<br>Residential |         | Gunnedah Local<br>Environmental Plan 2012 | 29/06/2012        | 29/06/2012     | 21/05/2021       |           | 957m     | East          |
| IN1  | General Industrial            |         | Gunnedah Local<br>Environmental Plan 2012 | 29/06/2012        | 29/06/2012     | 21/05/2021       |           | 963m     | North<br>West |
| IN1  | General Industrial            |         | Gunnedah Local<br>Environmental Plan 2012 | 29/06/2012        | 29/06/2012     | 21/05/2021       |           | 969m     | North<br>West |

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### **Heritage Items**





## **Heritage**

10-24 Anzac Parade, Gunnedah, NSW 2380

#### **Commonwealth Heritage List**

What are the Commonwealth Heritage List Items located within the dataset buffer?

| Place Id | Name                 | Address | Place File No | Class | Status | Register<br>Date | Distance | Direction |
|----------|----------------------|---------|---------------|-------|--------|------------------|----------|-----------|
| N/A      | No records in buffer |         |               |       |        |                  |          |           |

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### **National Heritage List**

What are the National Heritage List Items located within the dataset buffer? Note. Please click on Place Id to activate a hyperlink to online website.

| Place Id | Name                 | Address | Place File No | Class | Status | Register<br>Date | Distance | Direction |
|----------|----------------------|---------|---------------|-------|--------|------------------|----------|-----------|
| N/A      | No records in buffer |         |               |       |        |                  |          |           |

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## **State Heritage Register - Curtilages**

What are the State Heritage Register Items located within the dataset buffer?

| Map Id | Name | Address                              | LGA      | Listing Date | Listing No | Plan No | Distance | Direction  |
|--------|------|--------------------------------------|----------|--------------|------------|---------|----------|------------|
|        |      | Werris Creek-Moree railway, Gunnedah | GUNNEDAH | 02/04/1999   | 01160      | 2462    | 413m     | North West |

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## **Environmental Planning Instrument - Heritage**

What are the EPI Heritage Items located within the dataset buffer?

| Map Id | Name                             | Classification | Significance | EPI Name                                     | Published<br>Date | Commenced Date | Currency<br>Date | Distance | Direction  |
|--------|----------------------------------|----------------|--------------|--|-------------------|----------------|------------------|----------|------------|
| 1002   | Carinya House                    | Item - General | Local        | Gunnedah Local<br>Environmental Plan<br>2012 | 29/06/2012        | 29/06/2012     | 29/06/2012       | 263m     | North East |
| 1001   | Christ Church<br>Anglican Church | Item - General | Local        | Gunnedah Local<br>Environmental Plan<br>2012 | 29/06/2012        | 29/06/2012     | 29/06/2012       | 270m     | North East |
| 1021   | Namoi Flour Mills                | Item - General | Local        | Gunnedah Local<br>Environmental Plan<br>2012 | 29/06/2012        | 29/06/2012     | 29/06/2012       | 283m     | North      |

| Map Id | Name  | Classification | Significance | EPI Name                                     | Published<br>Date | Commenced Date | Currency<br>Date | Distance | Direction     |
|--------|---|----------------|--------------|--|-------------------|----------------|------------------|----------|---------------|
| 1006   | House   | Item - General | Local        | Gunnedah Local<br>Environmental Plan<br>2012 | 29/06/2012        | 29/06/2012     | 29/06/2012       | 304m     | North East    |
| 1013   | Cemetery<br>(Including Gates)                                       | Item - General | Local        | Gunnedah Local<br>Environmental Plan<br>2012 | 29/06/2012        | 29/06/2012     | 29/06/2012       | 368m     | South<br>West |
| 1005   | Railway Station   | Item - General | State        | Gunnedah Local<br>Environmental Plan<br>2012 | 29/06/2012        | 29/06/2012     | 29/06/2012       | 443m     | North West    |
| 1023   | House   | Item - General | Local        | Gunnedah Local<br>Environmental Plan<br>2012 | 29/06/2012        | 29/06/2012     | 29/06/2012       | 459m     | North East    |
| 1011   | Brick School<br>(Formerly Primary<br>School)                        | Item - General | Local        | Gunnedah Local<br>Environmental Plan<br>2012 | 29/06/2012        | 29/06/2012     | 29/06/2012       | 504m     | North East    |
| 1025   | House   | Item - General | Local        | Gunnedah Local<br>Environmental Plan<br>2012 | 29/06/2012        | 29/06/2012     | 29/06/2012       | 534m     | North East    |
| 1020   | Cenotaph<br>Monument  | Item - General | Local        | Gunnedah Local<br>Environmental Plan<br>2012 | 29/06/2012        | 29/06/2012     | 29/06/2012       | 582m     | North East    |
| 1003   | Courthouse  | Item - General | Local        | Gunnedah Local<br>Environmental Plan<br>2012 | 29/06/2012        | 29/06/2012     | 29/06/2012       | 633m     | North East    |
| 1008   | Original Catholic<br>Church (Brick<br>Building)                     | Item - General | Local        | Gunnedah Local<br>Environmental Plan<br>2012 | 29/06/2012        | 29/06/2012     | 29/06/2012       | 672m     | North East    |
| 1014   | Public Clock &<br>Clock Tower                                       | Item - General | Local        | Gunnedah Local<br>Environmental Plan<br>2012 | 29/06/2012        | 29/06/2012     | 29/06/2012       | 680m     | North         |
| 1007   | Original Methodist<br>Church (Brick<br>Building)                    | Item - General | Local        | Gunnedah Local<br>Environmental Plan<br>2012 | 29/06/2012        | 29/06/2012     | 29/06/2012       | 751m     | North East    |
| 1010   | Convent of Mercy<br>(Brick Buildings)                               | Item - General | Local        | Gunnedah Local<br>Environmental Plan<br>2012 | 29/06/2012        | 29/06/2012     | 29/06/2012       | 805m     | North East    |
| 1009   | Original Convent<br>(Brick House)                                   | Item - General | Local        | Gunnedah Local<br>Environmental Plan<br>2012 | 29/06/2012        | 29/06/2012     | 29/06/2012       | 957m     | North East    |
| 1012   | Two Storey Brick<br>House (Formerly<br>George Cohen's<br>Residence) | Item - General | Local        | Gunnedah Local<br>Environmental Plan<br>2012 | 29/06/2012        | 29/06/2012     | 29/06/2012       | 957m     | North East    |
| 1015   | Meggitt Ltd Flour<br>Mill (Formerly<br>Brunton's Flour<br>Mill)     | Item - General | Local        | Gunnedah Local<br>Environmental Plan<br>2012 | 29/06/2012        | 29/06/2012     | 29/06/2012       | 963m     | North West    |

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### **Natural Hazards**

10-24 Anzac Parade, Gunnedah, NSW 2380

### **Bush Fire Prone Land**

What are the nearest Bush Fire Prone Land Categories that exist within the dataset buffer?

| Bush Fire Prone Land Category | Distance | Direction |
|-------------------------------|----------|-----------|
| No records in buffer          |          |           |

NSW Bush Fire Prone Land - © NSW Rural Fire Service under Creative Commons 4.0 International Licence

# **Ecological Constraints**

10-24 Anzac Parade, Gunnedah, NSW 2380

#### **Ramsar Wetlands**

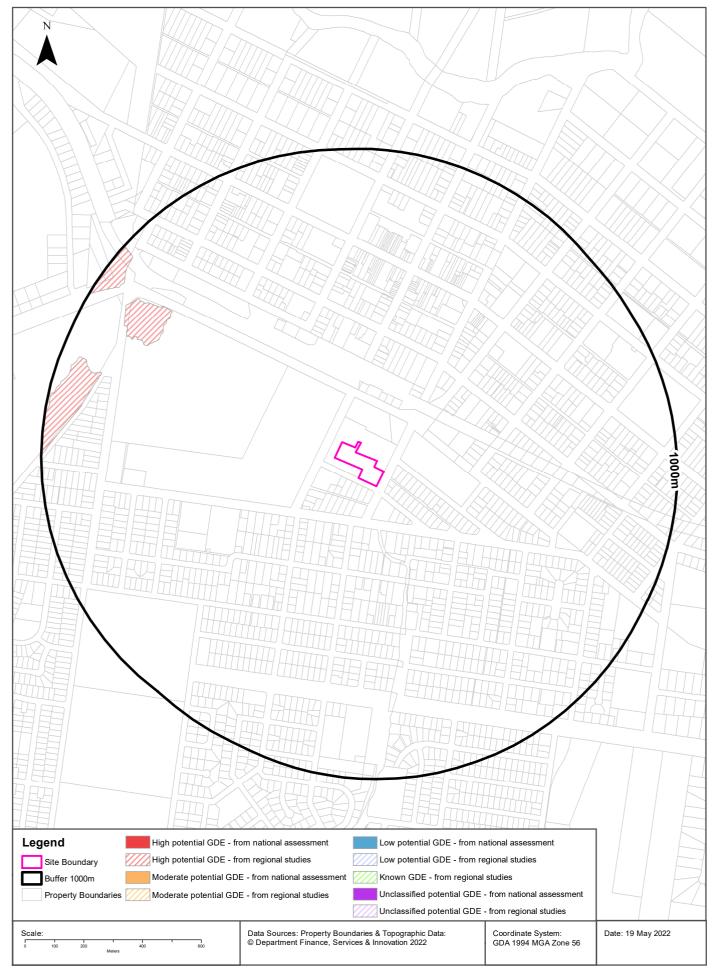
What Ramsar Wetland areas exist within the dataset buffer?

| Map Id | Ramsar Name          | Wetland Name | Designation Date | Source | Distance | Direction |
|--------|----------------------|--------------|------------------|--------|----------|-----------|
| N/A    | No records in buffer |              |                  |        |          |           |

Ramsar Wetlands Data Source: © Commonwealth of Australia - Department of Agriculture, Water and the Environment

### **Ecological Constraints - Groundwater Dependent Ecosystems Atlas**





# **Ecological Constraints**

10-24 Anzac Parade, Gunnedah, NSW 2380

## **Groundwater Dependent Ecosystems Atlas**

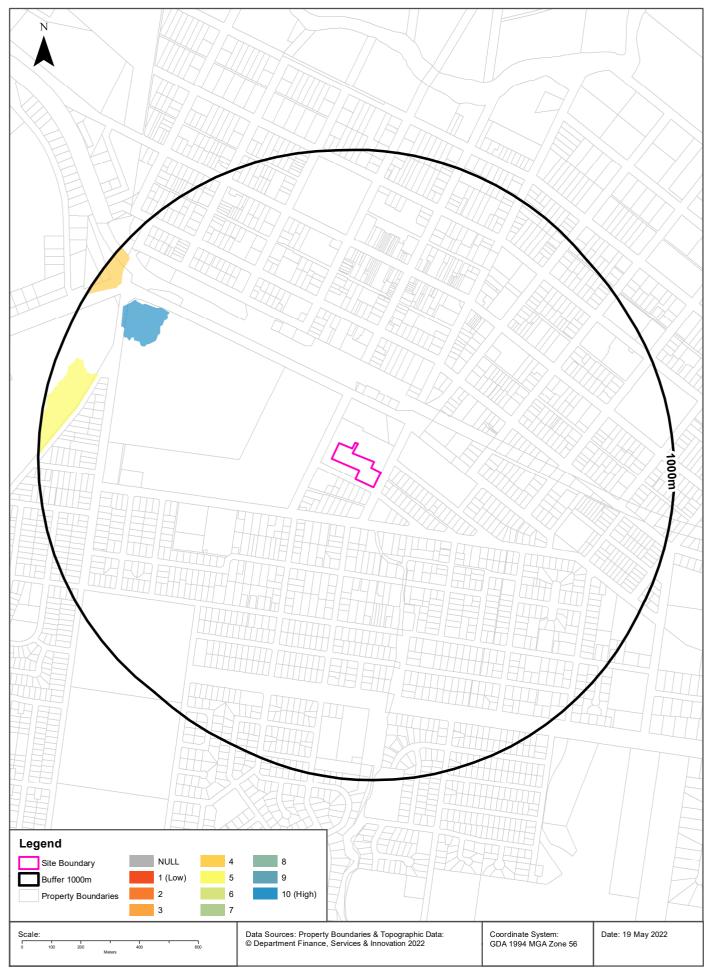
| Туре        | GDE Potential                              | Geomorphology   | Ecosystem<br>Type | Aquifer Geology | Distance | Direction  |
|-------------|--|---|-------------------|-----------------|----------|------------|
| Terrestrial | High potential GDE - from regional studies | Alluvial plains, sandstone ridges and hills of basic intrusive rocks. | Vegetation        |                 | 716m     | North West |

Groundwater Dependent Ecosystems Atlas Data Source: The Bureau of Meteorology Creative Commons 3.0 © Commonwealth of Australia http://creativecommons.org/licenses/by/3.0/au/deed.en

## **Ecological Constraints - Inflow Dependent Ecosystems Likelihood**

10-24 Anzac Parade, Gunnedah, NSW 2380





## **Ecological Constraints**

10-24 Anzac Parade, Gunnedah, NSW 2380

### **Inflow Dependent Ecosystems Likelihood**

| Туре        | IDE Likelihood | Geomorphology   | Ecosystem Type | Aquifer Geology | Distance | Direction  |
|-------------|----------------|---|----------------|-----------------|----------|------------|
| Terrestrial | 10             | Alluvial plains, sandstone ridges and hills of basic intrusive rocks. | Vegetation     |                 | 716m     | North West |
| Terrestrial | 5              | Alluvial plains, sandstone ridges and hills of basic intrusive rocks. | Vegetation     |                 | 845m     | West       |
| Terrestrial | 4              | Alluvial plains, sandstone ridges and hills of basic intrusive rocks. | Vegetation     |                 | 921m     | North West |

Inflow Dependent Ecosystems Likelihood Data Source: The Bureau of Meteorology Creative Commons 3.0 © Commonwealth of Australia http://creativecommons.org/licenses/by/3.0/au/deed.en

## **Ecological Constraints**

10-24 Anzac Parade, Gunnedah, NSW 2380

#### **NSW BioNet Atlas**

Species on the NSW BioNet Atlas that have a NSW or federal conservation status, a NSW sensitivity status, or are listed under a migratory species agreement, and are within 10km of the site?

| Kingdom  | Class    | Scientific                               | Common  | NSW Conservation Status | NSW Sensitivity<br>Class | Federal<br>Conservation Status | Migratory Species<br>Agreements |
|----------|----------|--|---|-------------------------|--------------------------|--------------------------------|---------------------------------|
| Animalia | Aves     | Apus pacificus                           | Fork-tailed Swift                               | Not Listed              | Not Sensitive            | Not Listed                     | ROKAMBA;CAMBA;<br>JAMBA         |
| Animalia | Aves     | Artamus<br>cyanopterus<br>cyanopterus    | Dusky<br>Woodswallow                            | Vulnerable              | Not Sensitive            | Not Listed                     |                                 |
| Animalia | Aves     | Calyptorhynchus lathami                  | Glossy Black-<br>Cockatoo                       | Vulnerable              | Category 2               | Not Listed                     |                                 |
| Animalia | Aves     | Chthonicola sagittata                    | Speckled Warbler                                | Vulnerable              | Not Sensitive            | Not Listed                     |                                 |
| Animalia | Aves     | Circus assimilis                         | Spotted Harrier                                 | Vulnerable              | Not Sensitive            | Not Listed                     |                                 |
| Animalia | Aves     | Climacteris<br>picumnus<br>victoriae     | Brown<br>Treecreeper<br>(eastern<br>subspecies) | Vulnerable              | Not Sensitive            | Not Listed                     |                                 |
| Animalia | Aves     | Daphoenositta chrysoptera                | Varied Sittella                                 | Vulnerable              | Not Sensitive            | Not Listed                     |                                 |
| Animalia | Aves     | Falco subniger                           | Black Falcon                                    | Vulnerable              | Not Sensitive            | Not Listed                     |                                 |
| Animalia | Aves     | Gallinago<br>hardwickii                  | Latham's Snipe                                  | Not Listed              | Not Sensitive            | Not Listed                     | ROKAMBA;JAMBA                   |
| Animalia | Aves     | Glossopsitta pusilla                     | Little Lorikeet                                 | Vulnerable              | Not Sensitive            | Not Listed                     |                                 |
| Animalia | Aves     | Grantiella picta                         | Painted<br>Honeyeater                           | Vulnerable              | Not Sensitive            | Vulnerable                     |                                 |
| Animalia | Aves     | Hamirostra melanosternon                 | Black-breasted<br>Buzzard                       | Vulnerable              | Category 3               | Not Listed                     |                                 |
| Animalia | Aves     | Hieraaetus<br>morphnoides                | Little Eagle                                    | Vulnerable              | Not Sensitive            | Not Listed                     |                                 |
| Animalia | Aves     | Lathamus<br>discolor                     | Swift Parrot                                    | Endangered              | Category 3               | Critically Endangered          |                                 |
| Animalia | Aves     | Lophoictinia isura                       | Square-tailed Kite                              | Vulnerable              | Category 3               | Not Listed                     |                                 |
| Animalia | Aves     | Neophema<br>pulchella                    | Turquoise Parrot                                | Vulnerable              | Category 3               | Not Listed                     |                                 |
| Animalia | Aves     | Oxyura australis                         | Blue-billed Duck                                | Vulnerable              | Not Sensitive            | Not Listed                     |                                 |
| Animalia | Aves     | Pomatostomus<br>temporalis<br>temporalis | Grey-crowned<br>Babbler (eastern<br>subspecies) | Vulnerable              | Not Sensitive            | Not Listed                     |                                 |
| Animalia | Aves     | Stagonopleura guttata                    | Diamond Firetail                                | Vulnerable              | Not Sensitive            | Not Listed                     |                                 |
| Animalia | Aves     | Tyto novaehollandiae                     | Masked Owl                                      | Vulnerable              | Category 3               | Not Listed                     |                                 |
| Animalia | Mammalia | Chalinolobus nigrogriseus                | Hoary Wattled Bat                               | Vulnerable              | Not Sensitive            | Not Listed                     |                                 |
| Animalia | Mammalia | Dasyurus<br>maculatus                    | Spotted-tailed<br>Quoll                         | Vulnerable              | Not Sensitive            | Endangered                     |                                 |
| Animalia | Mammalia | Nyctophilus bifax                        | Eastern Long-<br>eared Bat                      | Vulnerable              | Not Sensitive            | Not Listed                     |                                 |
| Animalia | Mammalia | Nyctophilus corbeni                      | Corben's Long-<br>eared Bat                     | Vulnerable              | Not Sensitive            | Vulnerable                     |                                 |
| Animalia | Mammalia | Petaurus<br>norfolcensis                 | Squirrel Glider                                 | Vulnerable              | Not Sensitive            | Not Listed                     |                                 |
| Animalia | Mammalia | Phascolarctos cinereus                   | Koala   | Vulnerable              | Not Sensitive            | Endangered                     |                                 |

| Kingdom  | Class    | Scientific                | Common                           | NSW Conservation Status | NSW Sensitivity<br>Class | Federal<br>Conservation Status | Migratory Species<br>Agreements |
|----------|----------|---------------------------|----------------------------------|-------------------------|--------------------------|--------------------------------|---------------------------------|
| Animalia | Mammalia | Pteropus poliocephalus    | Grey-headed<br>Flying-fox        | Vulnerable              | Not Sensitive            | Vulnerable                     |                                 |
| Animalia | Mammalia | Saccolaimus flaviventris  | Yellow-bellied<br>Sheathtail-bat | Vulnerable              | Not Sensitive            | Not Listed                     |                                 |
| Animalia | Mammalia | Vespadelus troughtoni     | Eastern Cave Bat                 | Vulnerable              | Not Sensitive            | Not Listed                     |                                 |
| Animalia | Reptilia | Aprasia parapulchella     | Pink-tailed<br>Legless Lizard    | Vulnerable              | Not Sensitive            | Vulnerable                     |                                 |
| Animalia | Reptilia | Hoplocephalus bitorquatus | Pale-headed<br>Snake             | Vulnerable              | Not Sensitive            | Not Listed                     |                                 |
| Animalia | Reptilia | Uvidicolus sphyrurus      | Border Thick-<br>tailed Gecko    | Vulnerable              | Not Sensitive            | Vulnerable                     |                                 |
| Plantae  | Flora    | Cadellia pentastylis      | Ooline                           | Vulnerable              | Not Sensitive            | Vulnerable                     |                                 |
| Plantae  | Flora    | Cymbidium canaliculatum   | Tiger Orchid                     | Not Listed              | Category 2               | Not Listed                     |                                 |
| Plantae  | Flora    | Digitaria porrecta        | Finger Panic<br>Grass            | Endangered              | Not Sensitive            | Not Listed                     |                                 |
| Plantae  | Flora    | Lepidium<br>hyssopifolium | Aromatic<br>Peppercress          | Endangered              | Not Sensitive            | Endangered                     |                                 |

Data does not include NSW category 1 sensitive species. NSW BioNet: © State of NSW and Office of Environment and Heritage

### **Location Confidences**

Where Lotsearch has had to georeference features from supplied addresses, a location confidence has been assigned to the data record. This indicates a confidence to the positional accuracy of the feature. Where applicable, a code is given under the field heading "LC" or "LocConf". These codes lookup to the following location confidences:

| LC Code             | Location Confidence  |
|---------------------|--|
| Premise Match       | Georeferenced to the site location / premise or part of site |
| Area Match          | Georeferenced to an approximate or general area              |
| Road Match          | Georeferenced to a road or rail corridor                     |
| Road Intersection   | Georeferenced to a road intersection                         |
| Buffered Point      | A point feature buffered to x metres                         |
| Adjacent Match      | Land adjacent to a georeferenced feature                     |
| Network of Features | Georeferenced to a network of features                       |
| Suburb Match        | Georeferenced to a suburb boundary                           |
| As Supplied         | Spatial data supplied by provider                            |

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12. These Terms are subject to New South Wales law.



**SafeWork NSW Records** 

35/027366

N.S.W. GOVERNMENT DEPARTMENT OF INDUSTRIAL RELATIONS

# **DANGEROUS GOODS BRANCH**

WCA - Unclassified

Recfind File

35/027366

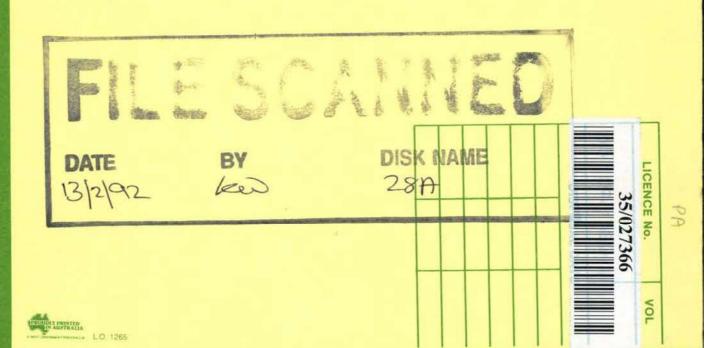
WorkCover Authority of NSW

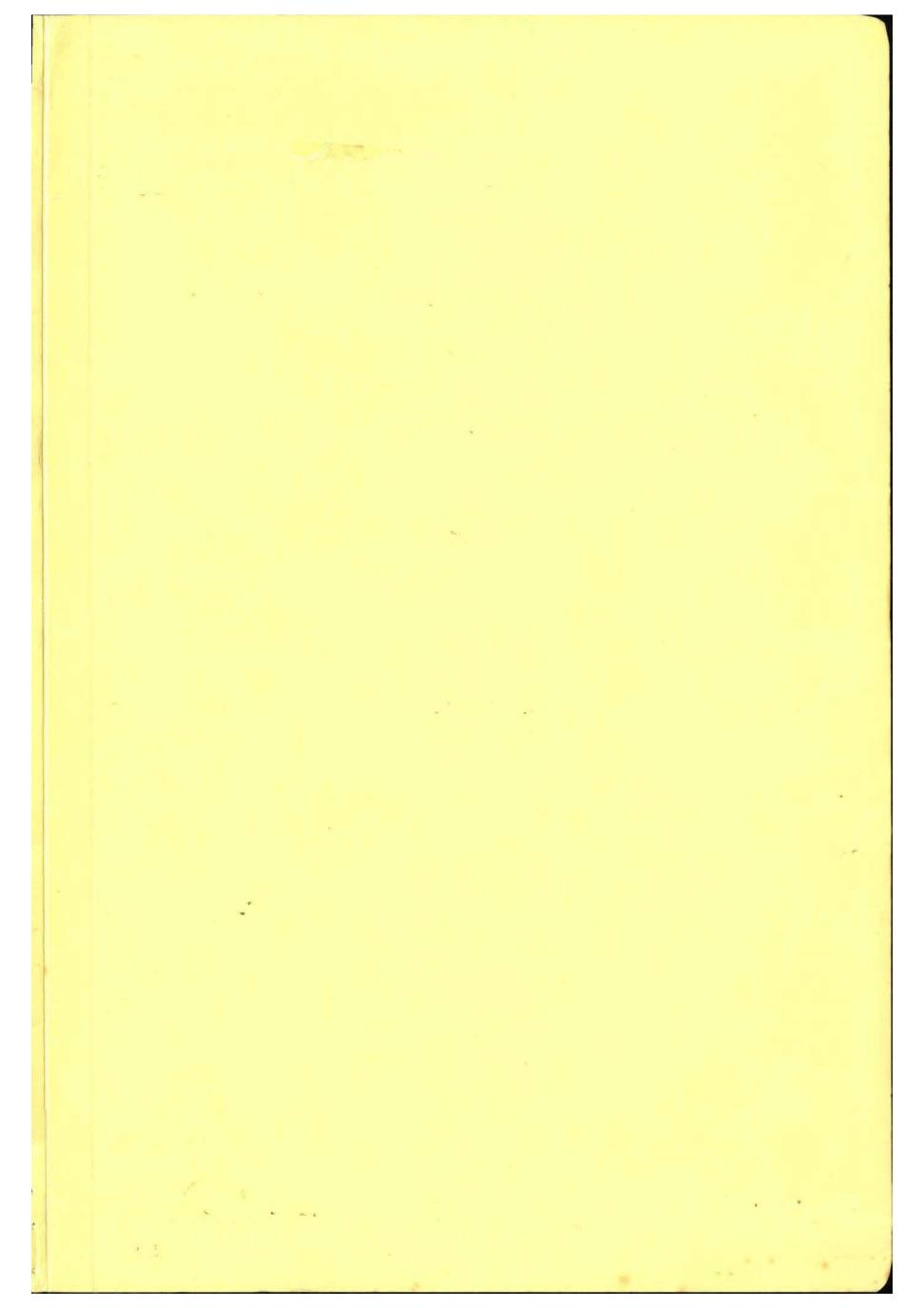
Custodian Licensing Unit - OHS
Created 1/01/1975

HEALTH & SAFETY MANAGEMENT - LICENSING - Dangerous Goods Keeping Licence 35/027366 - Gunnedah, Marquis St

# **KEEPING LICENCE**

INSPECTION DISTRICT NO.



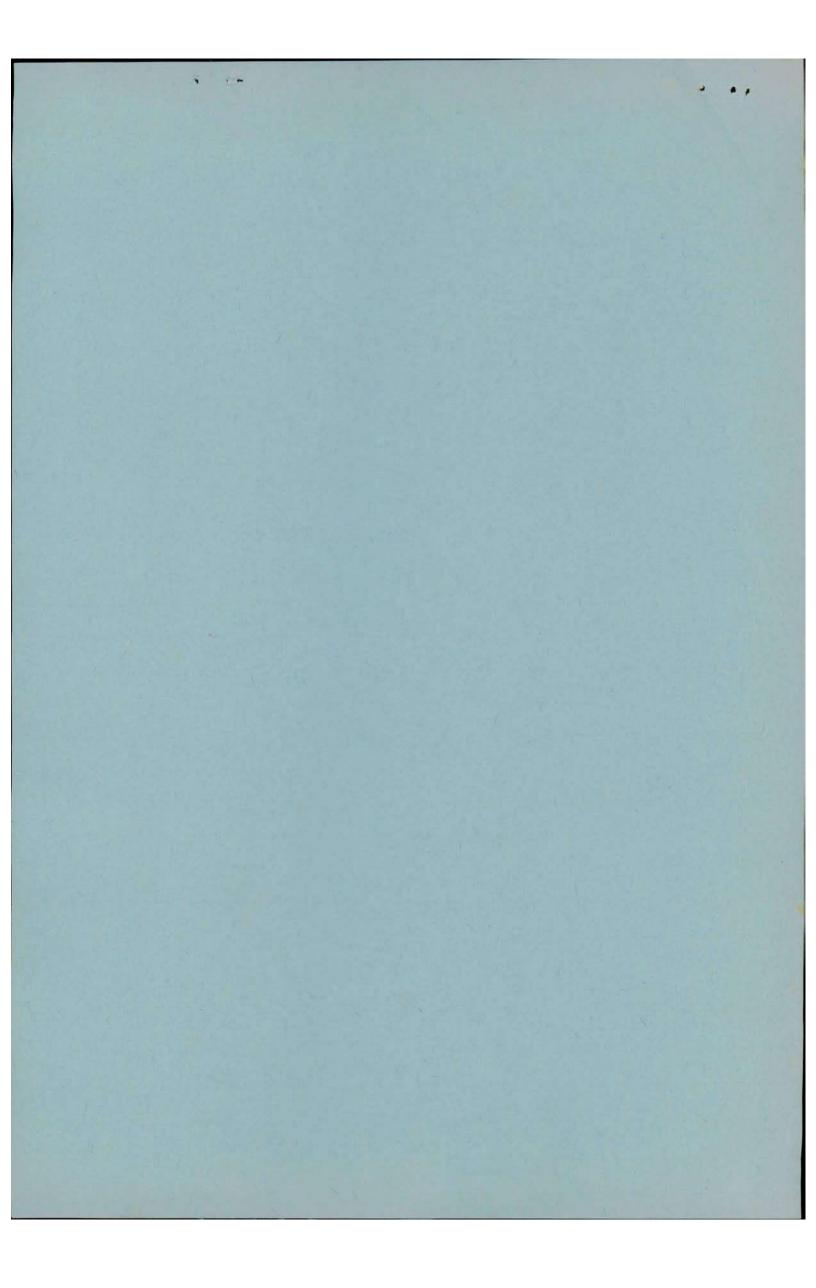


## INSPECTION RECORD

| L | c | e | n | ce | N | n. |  |
|---|---|---|---|----|---|----|--|
|   |   |   |   |    |   |    |  |

Inspector of Dangerous Goods Date

| Inspected    | Initials     | Requisitions made or state of depot |   |
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# MINUTE SHEET

| No. | OFFICER               | DATE    | ACTION REQUIRED | INITIAL UPON COMPLETION |
|-----|-----------------------|---------|-----------------|-------------------------|
| -   | R. Carl               | 17/5/11 |                 |                         |
| 2   | Midd                  | 3714    |                 |                         |
| 3   | S. Anderson           | 4/11/15 |                 |                         |
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FILE NUMBER:

# MINUTE SHEET

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Processing complete close in WF  $\Box$ 

# NOTIFICATION OF HAZARDOUS CHEMICALS CHECKLIST

|   | LOW #:                 | ) (    |        |
|---|------------------------|--------|--------|
| TRIM #:   | *                      |        |        |
| Acknowledgment Number (if provided): NDG or NHC   | 27366                  |        | _      |
| New notification  - Notification fee of \$100.00 received an  | d processed Yes 🛮 No 🗸 | 7      |        |
| Significant change  |                        |        |        |
| Closure of record   | 31083389               | 512    |        |
| Abandonment of tank 🔾   | 5100000                | 210    | *      |
| Contact details   |                        |        |        |
| New Owner 🔲   |                        |        |        |
| Replacement - Replacement fee of \$31.00 received and p   | rocessed Yes 🛭 No 🗎    |        |        |
| Notification not required (below manifest)  |                        |        |        |
| Site Occupier:  |                        |        |        |
| Site Address:   |                        |        |        |
| one Audioss.  |                        |        | _      |
|   |                        |        |        |
|   |                        |        |        |
| FOLLOW-UP NOTE  | s                      |        |        |
| DATA ENTRY (GLS   | )                      | ac No. | N/     |
| DATA ENTRY (GLS   | )                      | es No  | N/     |
| DATA ENTRY (GLS   | )                      | es No  | N/.    |
| DATA ENTRY (GLS ASIC/ABN search done to confirm name GLS organisation fields updated  | )                      | es No  | 2      |
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| DATA ENTRY (GLS ASIC/ABN search done to confirm name GLS organisation fields updated Depots updated Sketch scanned (if necessary)                                 | ) Y                    | res No | 2000   |



DG - 0 June 201

# Notification of dangerous goods on premises form

This form is to be used by the occupier of a site where dangerous goods are stored and handled in quantities that, in total, exceed or are likely to exceed quantities specified in the column headed 'Manifest quantity' in schedule 5 of the OHS Regulation.

If you are taking over an existing dangerous goods site during a current notification period, do not use this form. Instead, please use the *Amendment to notification of dangerous goods on premises* (DG – 03) form (catalogue no. WC00902).

If you are notifying of the abandonment of a tank at a workplace that is underground, partially underground or fully mounded and the tank was used to store flammable gasses or flammable liquids use the *Notification of abandonment of tank* (NFTAT) form (catalogue no. WC03413).

For more information, please refer to the Notification of dangerous goods on premises guide (catalogue no. WC01385).

#### Fee

A \$100 fee is payable when submitting this form.

#### How to fill in this form

Please use black ink only and print within the boxes in BLOCK LETTERS.

Where options are provided, please mark box(es) with an x to indicate selection(s).

Only persons over the age of 18 years can notify on behalf of the occupier of premises where dangerous goods are stored.

'Business name' means trading name and refers to registrations made to the Office of Fair Trading.

#### Enquiries - 13 10 50

#### Privacy compliance statement

This information is collected by WorkCover NSW for the purposes of undertaking the evaluation, assessment and processing of a notification of dangerous goods on premises as required by the OHS Act.

WorkCover may also use this information for the purposes of confirming applicant details and it may also be used to establish and maintain a database and to assist the WorkCover inspectorate with their work generally. This information may also be made available to other state or territory or the commonwealth regulatory agencies including Trade and Investment NSW.

Except for the purpose of prosecution and unless such disclosure is otherwise required or permitted by law, the information will not be otherwise accessed by any third parties in a way that would identify the individual, without the consent of that individual. Applicants are able to gain access to personal information pertaining to their application that is held by WorkCover. You may also apply to WorkCover to access and correct any of your own personal information WorkCover holds if that information is inaccurate, incomplete, not relevant or out of date. Applications should be made in writing to the Privacy Contact Officer, WorkCover NSW, Gosford Office, Locked Bag 2906, Lisarow, NSW 2252.

| APPLICATION TYPE (select only one box)   |
|--|
| ✓ New site \$100 fee applies.  |
| ☐ Further notification To be supplied every 12 months – \$100 fee applies.   |
| New occupier of an existing dangerous goods notifiable site (where the notification has expired) \$100 fee applies.  |
| Please provide the following for a further notification or, if you are a new occupier of an existing dangerous goods notifiable site.  |
| Acknowledgement number for the site (if known) Expiry date (DD/MM/YYYY)  |
| 35/ 0 2 7 3 6 6 // // or the site address  |
| Street number/street name (include Lot or DP number if applicable)   |
| Street name  |
| M A R Q U I S S T R E E T  |
| Suburb State Postcode  |
| G U N N E D A H N S W 2 3 8 0  |
|  |
| 2. SITE OCCUPIER'S DETAILS (person in control of the site)   |
| Required for a new site or a new occupier of an existing dangerous goods notifiable site (where the notification period has expired). It is only required for a further notification where details have changed. |
|  |
| 2.1 Individual occupier  |
| Title Family/Surname   |
| Given name   |
|  |
| Other names  |
| Date of birth (DD/MM/YYYY)   |
|  |
| Daytime contact number   |
| Email  |
|  |
| Please go to section 2.4   |
|  |
| 2.2 Corporation occupier   |
| Legal name HUNTER NEW ENGLAND LOCAL HEALTH   |
|  |
| D I S T R I C T  Registered business (trading name)  |
| HUNTERNEWENGLAND LOCAL HEALTH  |
| DISTRICT-GUNNEDAH HOSPITAL   |
| ABN  |
| 6 3 - 5 9 8 - 0 1 0 - 2 0 3  |
| Please go to section 2.3   |

| MR   | 1 1  |  |        |           |          | Fan  | 1    |                  | 1      | _  | T Con |        |        | _    |      |   |   | _   | -   |   | -  |     | -    |               |       | -   | - |    |     | -         | _ |        | _ |
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| ST   |  | W  | A      | R         | Т        | Ш    |      |                  |        |    |       | L      | Ш      |      |      |   | L |     | L   |   | L  |     | 4    | 4             | L     | L   | L | 4  | 4   | 4         | 4 |        |   |
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| Date of  | birth<br>0                                   | Spinister,   | 7      | the party | -        | 6    | 8    |                  |        |    |       |        |        |      |      |   |   |     |     |   |    |     |      |               |       |     |   |    |     |           |   |        |   |
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| s t  | е  | W  | a      | r         | t        | 130  | s    | У                | m      | 0  | n     | s      | @      | h    | n    | е | h | e   | a   | 1 |    | t l | 1    | *             | n     | S   | V | 1  |     | g         | 0 | v      | 2 |
| -  | the state                                    |  |        |           |          |      |      |                  |        |    |       |        |        |      |      |   |   |     | A_  |   |    |     |      |               |       | ,,, |   |    |     |           |   |        |   |
| Street r   | numb   | er/s   | tree   | et na     | me       | (inc | lude | e Lo             | t or l | DP | num   | ber    | if apr | olic | able | ) |   |     |     |   |    |     |      |               |       |     |   |    |     |           |   |        |   |
| P O  |  | В  | 0      | Х         |          | 3    | 6    | 3                | Ш      | Ш  |       |        | Ш      |      |      |   |   |     | L   | L | L  | 4   | 1    |               | L     | L   | L | J. |     | 4         |   |        |   |
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|  |  | 4  | Ы      | Н         | ш        | H    | -    |                  |        |    |       |        | H      | -    |      |   |   |     | _   | - | 4  | +   | -    | -             | Ct    |     | - | 1  | D   |           |   |        | - |
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| G L  | E CO to                                      |  | tion   |           | _        | N    | Е    | S                |        |    |       |        |        |      |      |   | ī |     |     |   |    |     |      |               |       |     |   |    |     |           |   |        |   |
| G L Please 2.5 E Sam   | go to  | sec  | су     | 2.5       | er h     | our  | 's c | ont              |        |    | son   | n's (  | letai  | ils  |      |   |   |     |     |   |    |     |      |               |       |     |   |    |     |           |   |        |   |
| G L Please  2.5 E Sam  Title                                   | go to<br>merç<br>ne as                       | sec  | су     | 2.5       | er h     |      | 's c | ont              | ame    |    |       |        | letai  | ils  |      |   |   |     |     |   |    |     |      |               |       |     |   |    |     |           |   |        |   |
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| 3. PREVIOUS OCCU  | JPIER'S [   | DETAIL   | S (to   | be cor   | nplet   | ed by   | the    | new          | occu   | pier,  | if kn   | owi   | n)    |       |        | 98    | ij.        | 8.7    |            |
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| Individual  |             |  |         |          |         |         |        |              |        |        |         |       |       |       |        |       |            |        |            |
| Title   | Family/S    | Surname  |         |          |         |         | - 17   |              |        |        |         |       |       | 1/    |        |       |            |        |            |
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| Given name  |             |  |         |          |         |         |        |              |        |        |         |       |       |       |        |       | F          |        |            |
| Other names   |             |  |         |          |         |         | -      | 11-          |        |        |         |       | -     |       |        |       |            |        |            |
|   |             |  |         |          |         |         | T      |              |        |        |         |       |       |       |        | T     |            |        |            |
| Corporation   |             |  |         |          |         |         |        |              |        |        |         |       |       |       |        |       |            |        |            |
| Corporation<br>Legal name   |             |  |         |          |         |         |        |              |        |        |         |       |       |       |        |       |            |        |            |
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| i da a a a a a a  |             |  |         |          |         |         |        |              |        |        |         |       |       |       |        |       |            |        |            |
| Registered business (trac   | ling name)  |  |         |          |         |         |        |              | H H    |        |         |       |       | 4     |        |       |            | 1      |            |
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| ABN   |             | $\overline{}$  |         |          |         |         |        |              |        |        |         |       |       |       |        |       |            |        |            |
|   |             |  |         |          |         |         |        |              |        |        |         |       |       |       |        |       |            |        |            |
| 4. SITE DETAILS (co   | mplete for  | r a new  | notific | ation)   | T.      |         | 100    |              | RO     | WY     | 123     |       | E.    | 7-1   | 945    |       |            |        | The second |
| An A4 size sketch of the  | site, show  | ing all s  | storage | e facili | ies n   | nust b  | e su   | bmit         | ted v  | vith t | his a   | ppli  | cati  | on fo | orm a  | nd a  | pho        | toco   | ру         |
| of a street directory ma  | p or other  | map sho  | owing   | the loc  | ality   | of the  | e site | . Th         | e site | mus    | t be    | mar   | ked   | on t  | his m  | ap w  | ith a      |        |            |
| Refer to the Notification   |             |  |         | premi    | ses g   | iuiae ( | cata   | iogu         | e no.  | VVC    | ) 138:  | 5) 10 | rm    | ore i | niorn  | iatio | n.         |        |            |
| ✓ I have attached an A4   |             |  |         | dian and |         |         |        | - la - s - s | dan t  | ha la  | a alita | of t  | h = - | ita T | The le | aatia | o of       | tha    | nito       |
| ✓ I have attached a phot<br>has been marked on t                  |             |  | street  | airecto  | ry or o | otner   | map    | snov         | ving t | ne io  | canty   | 01 [  | ne s  | site. | ne io  | CallO | 1.01       | ine :  | site       |
| Street number/street nan  | ne (include | Lot or D   | P num   | ber if a | pplica  | able)   |        |              |        |        |         |       |       |       |        |       |            |        |            |
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| Street name   | W W W       | T-V  |         |          | TE SI   |         |        |              |        |        |         |       |       |       |        |       |            | 11     |            |
|   | s s         | TR   | EE      | Т        | Ш       |         | 4      |              |        |        | -       | L     | Chr   |       |        | De    |            | da     |            |
| Suburb<br>G U N N E D 1   | АН          |  |         |          | П       |         | Т      |              |        | T      | 1       |       | Sta   |       | W      | 2     | stcor<br>3 |        | 0          |
| Nearest cross street  | - H H       |  |         |          |         |         |        | -            |        |        |         |       |       |       |        | 1000  |            | 1 1000 | 1 202      |
| R E S E R V   | O I R       | S  | TR      | EE       | Т       |         |        |              |        |        |         |       |       |       |        |       |            |        |            |
|   | scription   |  |         |          |         |         |        |              |        |        |         |       |       |       |        |       |            |        |            |
| 8 4 0 HO  | SPITAL      |  |         |          |         |         |        |              | -      |        |         |       |       |       |        | -     |            | -      | _          |
| Is this a coal workplace o  | r mining wo | orkplace   | ? 🗆     | Yes [    | No.     |         |        |              |        |        |         |       |       |       |        |       |            |        |            |
| E CITE CTAFFING F   | ETAILS      | The State of the S |         | KELOW.   |         |         |        | 100          |        | 14 100 | -6      | 4     |       | YAK   | (in )) |       |            |        | 700        |
| <ol><li>SITE STAFFING D<br/>since the last notification</li></ol> |             | (comple  | ete for | a new    | notir   | icatio  | in or  | TOT T        | urtne  | erno   | urica   | tion  | S II  | deta  | ns na  | ve c  | rang       | 1en    |            |
| Is the site staffed? 🗸 Y  | es. Please  | complet  | e the f | ollowin  | g F     | No.     | Pleas  | se go        | to se  | ection | 6.      |       |       |       |        |       |            |        |            |
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| Number of staff on site   | 1 0 0       | Ho   | ours pe | r day    | 2 4     | 4       |        | _            |        |        |         |       |       |       |        |       |            |        |            |
| Days per week 7   |             |  |         |          | П       |         |        |              |        |        |         |       |       |       |        |       |            |        |            |

| 6.    | STOF       | RAG    | ΕI   | DET                                     | AIL   | S (    | mus   | t b  | e co  | mpl   | ete   | d fo   | r bo | th n | ew    | noti | fica | tion | is ai | nd i | urt     | her  | not   | ific | atio | ns) |    | 11 |     | wy     |       |     |
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|       | pace i     |        |      |   |       |        |       |      |       |       |       |        |      |      |       |      |      |      |       |      |         |      |       |      |      |     |    |    |     |        |       |     |
|       | rage fa    | cility |      |   | +     |        |       |      |       | est a |       |        |      |      |       |      |      |      |       |      |         |      |       |      |      |     |    |    |     |        |       |     |
| LPC   |            | T      | 1    |   | A     |        |       |      | e fac | HITY  | G     | R      | 0    | U    | N     | D    |      | Т    | А     | N    | K       |      | T     | T    |      |     |    |    |     |        |       | m   |
| Cla   | ss or d    | ivisio | n    |   | Ma    | xim    | um :  | stor | age   | сар   | 1     | 1      |      |      | سننال | g or | nun  |      |       |      |         |      |       |      |      |     |    | -  |     |        |       |     |
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| P     | EI         | R      | C    | L                                       | E     | U      | M     | -    | G     | A     | S     |        | L    | I    | Q     | U    | I    | F    | I     | E    | D       |      | H     |      | ł    | +   |    |    |     |        | H     | H   |
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| Ш     |            | _      |      | -                                       | L     | L      |       |      | L     | L     | _     | _      | 1    | 1    | L     | _    | _    | -    |       | L    | _       | ال   | _     |      | Н    | -   |    |    | L   |        |       |     |
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| 1.051 | a constant |        |      | Cla                                     |       | a alti |       |      | т.    |       |       |        |      |      |       |      |      |      |       |      | Fig. Sa | /1 = |       |      |      |     |    |    |     | 1.50   |       |     |
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| <ol> <li>GOODS TOO DANGEROUS TO BE TRANSPORTED (must be completed for both new notifications and<br/>further notifications)</li> </ol>  |     |
|---|-----|
| If space is insufficient, please provide details on a separate sheet of paper.  |     |
| Are there goods too dangerous to be transported stored or handled on the site?  |     |
| Yes. Please complete the following  No. Please go to section 8.   |     |
| Provide the storage facility identifier in which the dangerous goods too dangerous to transport are stored or handled.  |     |
| Name as listed in the Australian Dangerous Goods code (appendix A)  |     |
|   |     |
| Maximum quantity Units (L or kg)  |     |
| Name as listed in the Australian Dangerous Goods code (appendix A)  |     |
|   |     |
|   |     |
| Maximum quantity Units (L or kg)  |     |
|   |     |
| Please go to section 8  |     |
| B. DECLARATION (must be completed)  | 133 |
|   |     |
| I, S T E W A R T S Y M O N S (print name)   |     |
| TECHNICAL SERVICE MANAGER HNELHD  (print position in the corporation)   |     |
| <ul> <li>I am 18 years of age or over</li> <li>the information provided is true and correct in every particular</li> <li>it is an offence under the WHS Regulation for a person to make a statement that the person knows to be false or misleading</li> <li>I have the authority to make this application on behalf of the occupier of the site.</li> <li>Signature of person making this declaration</li> <li>Date (DD/MM/YYYY)</li> <li>1 2 / 0 3 / 2 0 1 5</li> </ul> |     |
| Please go to section 9  PAYMENT OF FEE (the \$100 must be paid when this notification is submitted)   |     |
| Pay by cheque. Cheque made payable to WorkCover.  |     |
| <ul> <li>□ Pay by money order. Money order made payable to WorkCover.</li> <li>☑ Pay by credit card. Please charge \$100 to my: □ MasterCard ☑ Visa         A payment processing fee applies to credit card payments (Visa and MasterCard 0.40%) plus applicable GST.     </li> </ul>   |     |
| Card number  Card expiry date (MM/YYYY)  Cardholder name (please print name as displayed on credit card)  H N E H E A L T H B A R R Y F R A N C I S   |     |
| Cardholder signature  Date (DD/MM/YYYY)   | 1   |
| \$ Date: U U S PODDIENZIO 0002 18/03/15 OR DANI  Rec No: EB   |     |

### 10. CHECKLIST TO SUBMIT YOUR APPLICATION

| Attached | Document   |
|----------|--|
| V        | A4 size site sketch map. Refer to the Notification of dangerous goods on premises guide (catalogue no. WC01385).                                   |
|          | Legible photocopy from a local street directory or other map showing the locality of the site. Mark the location of the site on the map with an X. |
| <b>V</b> | \$100 fee.   |

### 11. HOW TO SUBMIT THIS FORM

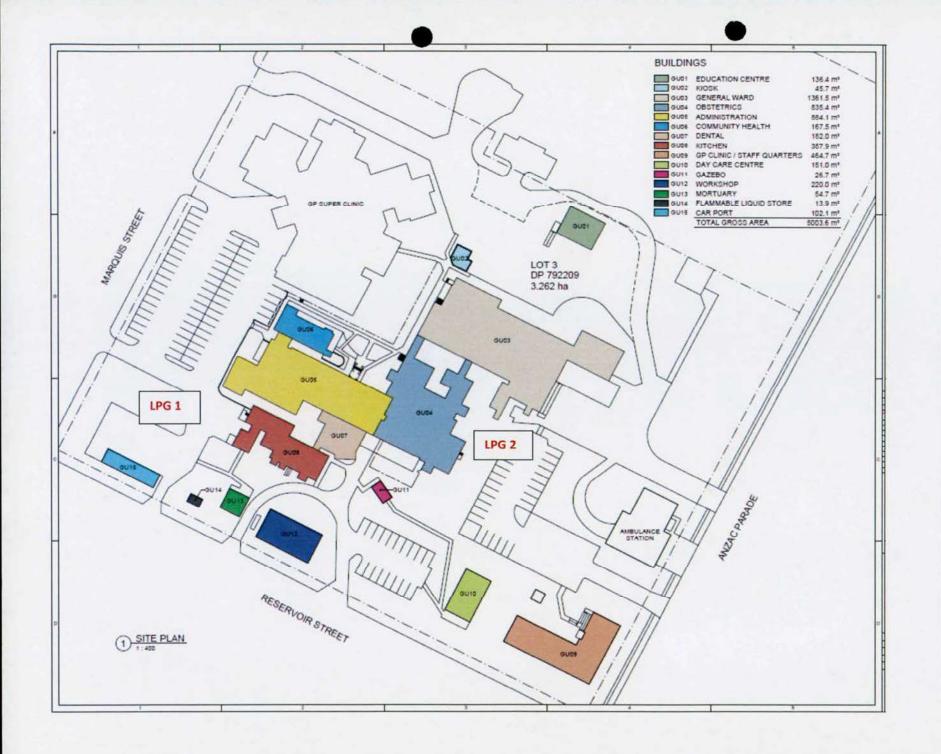
The declaration signature must be visible on any applications lodged by fax. Please fax or post or hand deliver the application to WorkCover. Do not do all three.

Fax: (02) 9287 5500

Post: Licensing Solutions, WorkCover NSW, Locked Bag 2906, Lisarow, NSW 2252.

At any WorkCover office, WorkCover office locations are listed on the WorkCover website workcover.nsw.gov.au

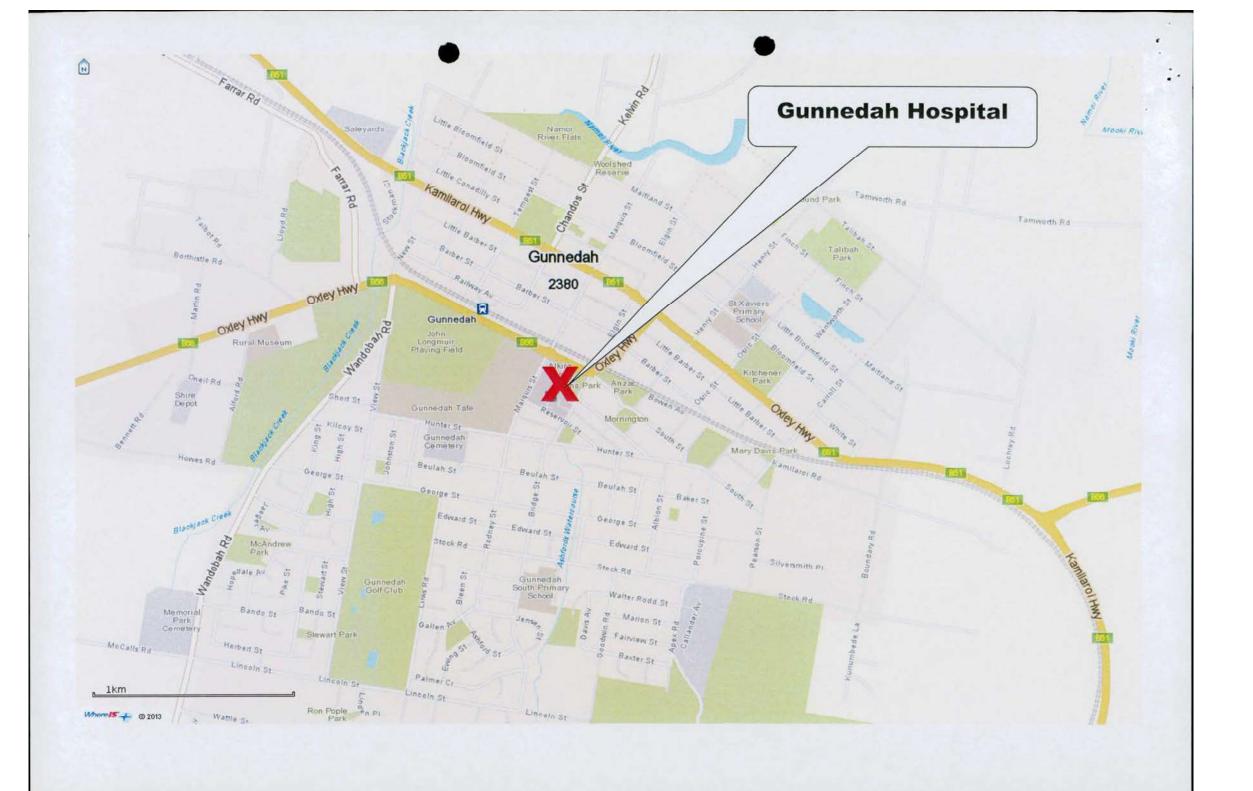
Note: It is a requirement of clause 361 Emergency Plans of the Work Health and Safety Regulation 2011 that you lodge an emergency plan with Fire and Rescue NSW. For more information, please refer to the Fire and Rescue NSW website fire.nsw.gov.au



# Notifiable Dangerous Goods Locations

LPG 1 — Above ground LPG Tank (7500 I)

LPG 2 — Above ground LPG Tank (7500 I)



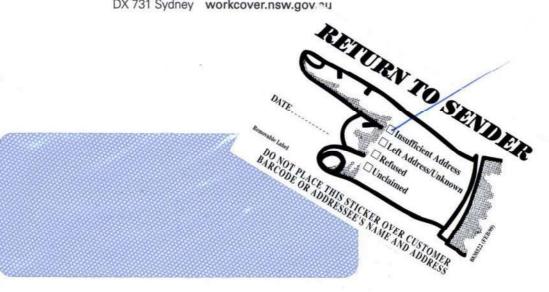




WorkCover NSW 92-100 Donnison Street, Gosford, NSW 2250 Locked Bag 2906, Lisarow, NSW 2252 T 02 4321 5000 F 02 4325 4145

T 02 4321 5000 F 02 4325 4145 WorkCover Assistance Service 13 10 50 DX 731 Sydney workcover.nsw.gov.eu GROB-1

POSTAGE PAID AUSTRALI



GOS-MAIL CENTRE

14 JUL 2014

WORKCOVER
NEW SOUTH WALES

WF-19315

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June 13, 2014

92-100 Donnison Street, Gosford, NSW 2250 Locked Bag 2906, Lisarow, NSW 2252 t 02 4321 5000 f 02 4325 4145

WorkCover Assistance Service 13 10 50

DX 731 Sydney workcover.nsw.gov.au

CONTACT: MR STEWART SYMONS HUNTER NEW ENGLAND LOCAL HEALTH DISTRICT

Dear Sir/Madam

RE: Notification of dangerous goods on premises NDG027366
PREMISES: MARQUIS ST, GUNNEDAH, NSW 2380 AUSTRALIA

The current requirements for notification of dangerous goods on premises are set out in the Work Health and Safety (WHS) Act 2011 and the Occupational Health and Safety (OHS) Regulation 2001.

Transitional arrangements will continue which means notification requirements will remain under the OHS Regulation 2001 until 31 December 2014 and annual notification requirements will remain.

Occupiers of premises on which dangerous goods are stored or handled in notifiable quantities are required to notify WorkCover NSW of the dangerous goods on those premises and also within 14 days should any changes occur to types, quantities or risk associated with the use, handling or storage of dangerous goods notified, or site occupier details change. Please note that it is an offence not to comply with these requirements. Penalties exist for non-compliance.

The manifest and placarding quantities relating to notification are published in the 'Notification of dangerous goods on premises guide' (publication catalogue number WC01385) available on WorkCover NSW's website. If you store or handle dangerous goods in notifiable quantities please complete the enclosed application form DG-01.

If after reading the guidance material, should you determine that you do **NOT** store or handle notifiable amounts of dangerous goods, please complete and sign the 'Declaration A' attached and return to WorkCover NSW.

Where the site has been sold or the lease has ended, please inform WorkCover NSW of the date you sold/vacated the premises and whether you removed the dangerous goods before leaving. Where possible, please supply the new owner's/occupier's name and contact address.

Further information on dangerous goods notification legislation requirements and advice on arrangements for transition to the new legislation is available on the Workcover website <a href="https://www.workcover.nsw.gov.au">www.workcover.nsw.gov.au</a> or by calling WorkCover on 13 10 50.

Yours faithfully

Fiona Hayman Operations Manager

**Customer Service Centre** 



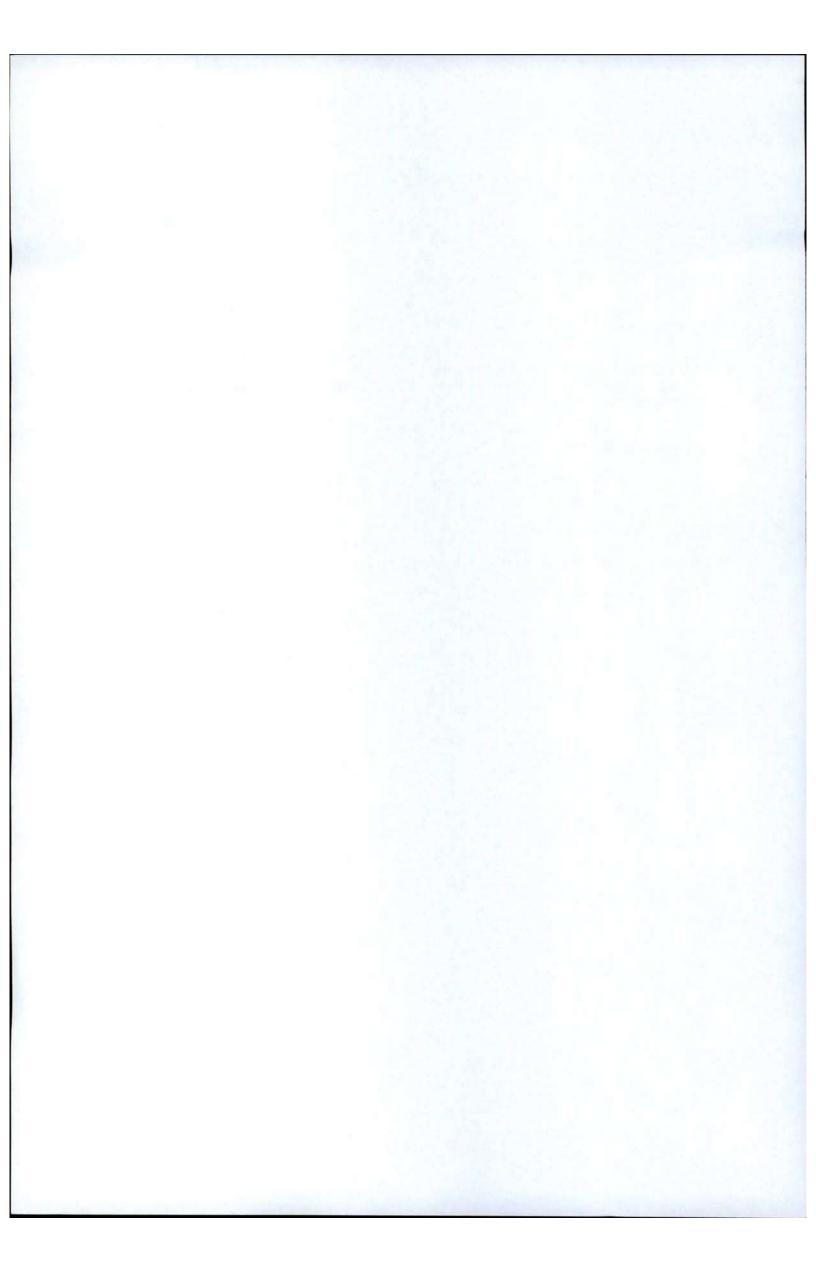
The completed declaration (where applicable) is to be returned to:

Work Cover NSW Dangerous Good Notification Team Licensing Solutions Locked Bag 2906 LISAROW NSW 2252

Or faxed to (02) 9287 5500 or email Is@workcover.nsw.gov.au

NOTE: This Declaration should only be completed if you do not store or handle a notifiable quantity of dangerous goods on the premises: NDG027366 MARQUIS ST, GUNNEDAH, NSW 2380 AUSTRALIA

| DECLARATION A   |                            |   |                      |
|---|----------------------------|---|----------------------|
| To be completed where notif   | iable amounts of danger    | rous goods are not stored or                      | handled.             |
| L   | (name)                     |   | (address)            |
| Declare that I do not store and in quantities that exceed or a<br>Occupational Health and Saf | are likely to exceed the m | ods at premises<br>nanifest quantity in the Table | to Schedule 5 of the |
|   | Signature                  |   |                      |
|   | .Date                      |   |                      |



# NOTIFICATION OF DANGEROUS GOODS ON PREMISES CHECKLIST (FDG01) INFRA #: 56365

TRIM #: NDG 027366 Licence/Acknowledgment Number: Hunter Now England Local Health District Site Occupier: Site Address: **Current Expiry Date:** R 1-1520 702708 ☐ Yes Notification fee of \$100.00 received and processed **FOLLOW-UP NOTES** DATA ENTRY (GLS) Yes No ASIC/ABN search done to confirm name GLS organisation fields updated Depots updated Sketch scanned (if necessary) **EXPIRY DATE DETAILS** Yes No **Expiry Date Reset** Re-notification for further 12 months Reset date of expiry (if necessary)

82011/02295

1-2088523918

#### APPLICATION FINALISED

| Acknowledgment printed  Notification not required (below manifest)  TRIM record and hard copy file created (new sites only)  DG's mail register updated as completed  |
|---|
| TRIM record and hard copy file created (new sites only)   |
|   |
| DG's mail register updated as completed   |
| THE REPORT OF THE PARTY OF THE |
| PROCESSING OF NOTIFICATION COMPLETED  |

Date:

Staff member's signature;

Gunnedah



Occupational Health and Safety Act 2000 (OHS Act) – Occupational Health and Safety Regulation 2001 (OHS Regulation)

> DG – 01 June 2012

# Notification of dangerous goods on premises form

This form is to be used by the occupier of a site where dangerous goods are stored and handled in quantities that, in total, exceed or are likely to exceed quantities specified in the column headed 'Manifest quantity' in schedule 5 of the OHS Regulation.

If you are taking over an existing dangerous goods site during a current notification period, do not use this form. Instead, please use the *Amendment to notification of dangerous goods on premises* (DG – 03) form (catalogue no. WC00902).

If you are notifying of the abandonment of a tank at a workplace that is underground, partially underground or fully mounded and the tank was used to store flammable gasses or flammable liquids use the *Notification of abandonment of tank* (NFTAT) form (catalogue no. WC03413).

For more information, please refer to the Notification of dangerous goods on premises guide (catalogue no. WC01385).

Fee

A \$100 fee is payable when submitting this form.

How to fill in this form

Please use black ink only and print within the boxes in BLOCK LETTERS.

Where options are provided, please mark box(es) with an x to indicate selection(s).

Only persons over the age of 18 years can notify on behalf of the occupier of premises where dangerous goods are stored.

'Business name' means trading name and refers to registrations made to the Office of Fair Trading.

Enquiries - 13 10 50

#### Privacy compliance statement

This information is collected by WorkCover NSW for the purposes of undertaking the evaluation, assessment and processing of a notification of dangerous goods on premises as required by the OHS Act.

WorkCover may also use this information for the purposes of confirming applicant details and it may also be used to establish and maintain a database and to assist the WorkCover inspectorate with their work generally. This information may also be made available to other state or territory or the commonwealth regulatory agencies including Trade and Investment NSW.

Except for the purpose of prosecution and unless such disclosure is otherwise required or permitted by law, the information will not be otherwise accessed by any third parties in a way that would identify the individual, without the consent of that individual. Applicants are able to gain access to personal information pertaining to their application that is held by WorkCover. You may also apply to WorkCover to access and correct any of your own personal information WorkCover holds if that information is inaccurate, incomplete, not relevant or out of date. Applications should be made in writing to the Privacy Contact Officer, WorkCover NSW, Gosford Office, Locked Bag 2906, Lisarow, NSW 2252.

RECEIVED
TAMWORTH OFFICE
5 SEP 2013

OFFICE CODE: 27
FORWARD TO: LPV
DATE: 6/9/13

Receipt 15# 2519 \$ 560-

SAFE SAFE
SAFE
S/9/3



| APPLICATION TYPE (select only one box)  |  |
|---|--|
| ✓ New site \$100 fee applies.   |  |
| Further notification To be supplied every 12 months – \$100 fee applies.                                      |  |
| New occupier of an existing dangerous goods notifiable site (where the notification has expire                | red) \$100 fee applies.  |
| Please provide the following for a further notification or, if you are a new occupier of an enotifiable site. | existing dangerous goods   |
| Acknowledgement number for the site (if known) Expiry date (DD/MM/YYYY)                                       |  |
|   | or the site address  |
| Street number/street name (include Lot or DP number if applicable)  |  |
|   |  |
| Street name  M A R Q U I S S T R E E T  |  |
| Suburb  | State Postcode   |
| G U N N E D A H   | N S W 2 3 8 0  |
|   |  |
| 2. SITE OCCUPIER'S DETAILS (person in control of the site)  | A SALES AND A SALE |
| Required for a new site or a new occupier of an existing dangerous goods notifiable site                      | where the notification period  |
| has expired). It is only required for a further notification where details have changed.                      |  |
| 2.1 Individual occupier   |  |
| Title Family/Surname  |  |
| Given name  |  |
| Other names   |  |
|   |  |
| Date of birth (DD/MM/YYYY)  |  |
| Daytime contact number Mobile number Fax n  | umber  |
|   |  |
| Email   |  |
|   |  |
| Please go to section 2.4  |  |
| 2.2 Corporation occupier  |  |
| Legal name  |  |
| HUNTERNEWENGLAND LOCAL  | H E A L T H  |
| DISTRICT  |  |
| Registered business (trading name)  HUNTERNEWENGLAND LOCAL  | HEALTH   |
|   |  |
| D I S T R I C T   |  |
| 6 3 - 5 9 8 - 0 1 0 - 2 0 3   |  |
| Please go to section 2.3  |  |

| Title             |                                  | Fam | nily/S | Surr | am    | е     |        |          |     |      |    |    | -11 | - 1  | -11   |       | -1/2     |     | -10  | -     | -1/- | -  |      |     |    | 7 | T  |   |
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| M R               |                                  | S   | Y      | М    | 0     | N     | S      |          |     |      |    |    |     | 1    |       |       |          |     |      | L     |      | 2  |      | E C | -  |   | L  |   |
| Siven name        |                                  |     |        |      |       |       |        |          | 17  | 1    |    | -  | 11  |      |       | -1    | -10      |     |      | -     |      | -1 |      |     |    |   |    |   |
| S T E W           | ART                              |     |        |      |       |       |        |          | L   | L    |    | L  | JL  |      |       |       |          |     |      | ı     |      |    |      |     |    |   | L  | Ш |
| ther names        |                                  |     |        |      |       |       |        |          |     |      |    |    |     |      |       |       | -11      |     |      | -     | -10  |    | -    |     |    |   | 1  | 1 |
| WILLL             | IAM                              |     |        |      |       |       |        |          | L   |      |    |    | 1   | 1    |       | 31.   | <u> </u> | 1   | 1    | 1     |      | _  |      |     |    |   | L  |   |
| Date of birth (DC |                                  |     |        |      |       |       |        |          |     |      |    |    |     |      |       |       |          |     |      |       |      |    |      |     |    |   |    |   |
| 2 3 / 0 9         | / 1 9                            | 6   | В      |      |       |       |        |          |     |      |    |    |     |      |       |       |          | 1/2 |      |       |      |    |      |     |    |   |    |   |
| Daytime contac    |                                  |     |        |      |       | -     | 1obi   |          | 1   | -    |    | 20 |     |      | 201   |       |          | 100 | x nu |       |      | -  | 2    | 0   | 0  | 1 | 7  | 2 |
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| After hours con   | continued francessive browns and | 1   | De la  |      |       |       |        |          |     |      |    |    |     |      |       |       |          |     |      |       |      |    |      |     |    |   |    |   |
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| s t e w           | a r t                            |     | s      | У    | m     | 0     | n      | s        | @   | r    | ır |    | = 1 | 1    | =   • | 4   . | -        | - 1 | •    |       |      | -  | -    | -1  | 5  | - | 1  |   |
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|                   |                                  |     |        |      |       |       |        |          |     |      |    |    |     |      |       |       |          |     |      |       |      |    |      |     |    |   | L  | Ш |
| Suburb            |                                  |     |        |      |       |       |        |          |     |      |    |    | -11 |      |       |       | -        |     | -    | Pinte | tate |    | 1000 | F   | os | - | 14 |   |
| G L E N           | IN                               | N   | E      | S    |       |       |        |          |     | L    |    |    |     |      |       |       | 1        | 1   |      |       | N    | S  | W    |     | 2  | 3 | 6  | 0 |
| Please go to sec  | tion 2.5                         |     |        |      |       |       |        |          |     |      |    |    |     |      |       |       |          |     |      |       |      |    |      |     |    |   |    |   |
| 10030 90 10 300   | .0011 2.0                        |     |        |      |       |       |        |          |     |      |    |    |     |      |       |       |          |     |      |       |      |    |      |     |    |   |    |   |
| 2.5 Emerger       | cy after h                       | our | sco    | onta | act   | per   | sor    | ı's      | det | ails | 3  |    |     |      |       |       |          |     |      |       |      |    |      |     |    |   |    |   |
| Same as abo       |                                  |     |        |      |       |       |        |          |     |      |    |    |     |      |       |       |          |     |      |       |      |    |      |     |    |   |    |   |
| Title             |                                  | Fam | ily/S  | Surn | ame   | Э     |        |          |     |      |    |    |     |      |       |       |          | - 1 | -    |       |      | 10 |      |     |    |   |    |   |
| M R S             |                                  | Y   | 0      | -    |       |       |        |          |     |      |    |    |     |      |       |       |          |     |      |       |      |    |      |     |    |   |    | Ш |
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| C A R O           | L E                              |     |        |      |       |       |        |          |     |      |    |    |     |      |       |       |          |     | 1    |       |      |    |      |     |    |   |    | Ш |
| Other names       |                                  |     |        |      |       |       |        |          |     | -10- | 1  |    | -11 | -11- | 7     |       |          | -11 |      |       |      | -  |      |     |    |   |    |   |
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| Date of birth (DD | /MM/YYYY)                        | 1   |        |      |       |       |        |          |     |      |    |    |     |      |       |       |          |     |      |       |      |    |      |     |    |   |    |   |
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| After hours cont  |                                  |     | 20     |      |       |       |        |          |     |      |    |    |     |      |       |       |          |     |      |       |      |    |      |     |    |   |    |   |
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| 3. PREVIOUS OCC  | UFIE                | R                                     | S DI          | ETA                                     | ILS   | (to      | be    | CO   | mpl          | etec  | by | the | ne  | w a  | ccu   | pier  | , if } | nav   | F11) |       |     |       |       |       |          |      | - 27 |
|--|---------------------|---------------------------------------|---------------|---|-------|----------|-------|------|--------------|-------|----|-----|-----|------|-------|-------|--------|-------|------|-------|-----|-------|-------|-------|----------|------|------|
| Individual   |                     |                                       |               |   |       |          |       |      |              |       |    |     |     |      |       |       |        |       |      |       |     |       |       |       |          |      |      |
| Title  | Fa                  | mil                                   | y/Su          | rnam                                    | ne    | -11      |       |      |              |       |    |     |     |      |       |       |        |       |      |       |     |       | 1     | -1    |          | -10  |      |
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| Other names  |                     |                                       |               | 1                                       | T     | Т        | Г     | 1    | 1            | Т     | T  | T   | T   | 1    | Т     | T     | T      | T     | T    | T     | T   | T     | T     | T     | T        |      | T    |
|  |                     |                                       | -             | 1                                       | -     |          | 1     |      |              | -     |    | -   |     | -11  |       | -11-  |        |       | "    | -     |     | P.    |       | -/-   |          |      |      |
| Corporation  |                     |                                       |               |   |       |          |       |      |              |       |    |     |     |      |       |       |        |       |      |       |     |       |       |       |          |      |      |
| Legal name   |                     |                                       | -             | 1                                       |       | r        | 1     |      | -            |       |    |     | 1   | -    | т     | 1     | T      |       | Т    | Т     | T   | Т     | T     | T     | T        | T    | 7    |
|  | +                   | ÷                                     | +             | +                                       | -     | -        | H     | t    | ÷            | ÷     | H  |     | ÷   | ÷    | +     | H     | t      | +     |      | T     | t   | Ť     | Ħ     | t     | Ť        | Ť    | T    |
| Registered business (tra   | dina                | 2200                                  | 20)           | 1                                       | 1     | -        | L     | -    | -1           | -     | -  |     | _   | -    | 1     | _  -  |        |       |      | -     | -   | -     | -     |       |          |      |      |
| Registered business (ua  | ulligi              | Idii                                  | 16)           | T                                       | Г     | П        | П     | Г    | Т            | Т     | T  | T   | T   | T    | T     |       | T      |       |      |       |     |       |       |       |          |      |      |
|  |                     | T                                     | T             | Ť                                       | T     | T        | T     | Ť    | T            | T     | Ï  | Î   | Ť   |      | T     |       | T      | Ĭ.    | T    | T     | Ï   | П     |       | T     |          |      |      |
| ABN  |                     | -11-                                  |               |   |       |          |       | 1    |              |       |    |     |     |      |       |       |        |       |      |       |     |       |       |       |          |      |      |
|  |                     |                                       |               |   |       |          |       |      |              |       |    |     |     |      |       |       |        |       |      |       |     |       |       |       |          |      |      |
|  |                     |                                       |               |   |       |          |       |      |              |       |    |     |     |      |       |       |        |       |      |       |     |       | SELE  |       | 98.      |      |      |
| ✓ I have attached an Ad<br>✓ I have attached a photohas been marked on<br>Street number/street na  | tocor<br>the m      | by fi                                 | rom a<br>with | a loca                                  | al st |          | dise  |      |              |       |    |     |     |      |       |       |        |       |      |       |     |       |       |       |          |      |      |
|  |                     | ICIU                                  | de L          |   | ,     |          |       |      |              |       |    | nap | sho | owin | ng th | ne lo | calit  | ty of | the  | site. | The | e loc | catio | n of  | f the    | site | Э    |
| Street name  |                     |                                       |               | ot or                                   | DP    | nun      | nber  |      |              |       |    | nap | sho | owin | ng th | ne lo | calit  | ty of | the  | site. | The | e loc | catio | n of  | f the    | site | Э    |
| MARQUI   | S                   |                                       | de L          | ot or                                   | ,     | nun      |       |      |              |       |    | nap | sho | owin | ng th | ne lo | calit  | ty of |      |       | The | e loc |       |       |          | site | e    |
| M A R Q U I Suburb   | S                   |                                       |               | ot or                                   | DP    | nun      | nber  |      |              |       |    | map | sho | owin | ng th | ne lo | calit  | ty of | St   | ate   | The |       | Po    | estco | ode      | site |      |
| M A R Q U I Suburb G U N N E D   |                     |                                       |               | ot or                                   | DP    | nun      | nber  |      |              |       |    | nap | sho | owin | ng th | ne lo | calif  | ty of | St   | ate   |     |       | Po    | estco | ode      |      |      |
| M A R Q U I Suburb G U N N E D Nearest cross street  | S                   | 1                                     | ST            | ot or                                   | DP    | nun<br>E | nber  | if & | appli        | icabl |    | map | sho | owin | ng th | ne lo | calit  | ty of | St   | ate   |     |       | Po    | estco | ode      |      |      |
| M A R Q U I Suburb G U N N E D Nearest cross street R E S E R V  | S A H               |                                       | S T           | ot or                                   | DP    | nun<br>E | T     | if & | appli        | icabl |    | nap | sho |      | ng th | ne lo | calit  | ty of | St   | ate   |     |       | Po    | estco | ode      |      |      |
| M A R Q U I Suburb G U N N E D Nearest cross street R E S E R V ANSZIC Code De   | S A H               | I I                                   | S T           | ot or                                   | DP    | nun<br>E | T     | if & | appli        | icabl |    | nap | sho |      | ng th | he lo | calif  | ty of | St   | ate   |     |       | Po    | estco | ode      |      |      |
| M A R Q U I Suburb G U N N E D Nearest cross street R E S E R V ANSZIC Code De   | A H                 | i i i i i i i i i i i i i i i i i i i | S T           | ot or                                   | DP    | nun<br>E | T     | if a | appli        | icabl |    | nap | sho |      | ng th | he lo | calif  | ty of | St   | ate   |     |       | Po    | estco | ode      |      |      |
| M A R Q U I Suburb G U N N E D Nearest cross street R E S E R V ANSZIC Code 8 4 0 HO   | A H O 1 escrip ospi | I I I I I I I I I I I I I I I I I I I | S T           | R S                                     | DP E  | nun<br>E | T     | E F  | Z N          | lo    | e) |     |     |      |       |       |        |       | Sti  | ate   | W   |       | Po 2  | astco | ode<br>3 | 8    |      |
| M A R Q U I Suburb G U N N E D Nearest cross street R E S E R V ANSZIC Code 8 4 0 Ho Is this a coal workplace of                         | S A F               | I I I I I I I I I I I I I I I I I I I | R R Wor       | R S S kkplacemp                         | DP E  | R R      | T     | E F  | Ilqqa<br>Z N | do    | e) |     | for | fur  | the   |       | tific  |       | Sti  | ate   | W   |       | Po 2  | astco | ode<br>3 | 8    |      |
| M A R Q U I Suburb G U N N E D Nearest cross street R E S E R V ANSZIC Code 8 4 0 Ho Is this a coal workplace of since the last notifice | S A F               | I I I I I I I I I I I I I I I I I I I | R R Wor       | R S S S S S S S S S S S S S S S S S S S | DP E  | R R      | T Yes | E F  | Ilqqa<br>Z N | do    | e) |     | for | fur  | the   | er no | tific  |       | Sti  | ate   | W   |       | Po 2  | astco | ode<br>3 | 8    |      |

| â. S  | SI  | OR     | AG    | 100 | D    | ΕT   | AIL   | .S   | (n  | nus   | t be | co   | mpl   | ete   | d fo  | r b       | otl     | i ne | ew.   | noti | fica | tion | s ar | nd | furt | rer  | no       | tili | ca'  | (io) | 15) |     |   |    | ŢĢ   |     |      | 1   |
|-------|-----|--------|-------|-----|------|------|-------|------|-----|-------|------|------|-------|-------|-------|-----------|---------|------|-------|------|------|------|------|----|------|------|----------|------|------|------|-----|-----|---|----|------|-----|------|-----|
| If sp | a   | ce is  | ins   | uf  | fici | en   | t pl  | ea   | se  | pro   | vid  | e de | etail | s or  | n a s | sep       | ar      | ate  | she   | eet  | of p | ape  | r.   |    |      |      |          |      |      |      |     |     |   |    |      |     |      |     |
|       |     | e fac  | ility | e:  |      |      |       |      |     |       |      |      |       |       |       |           |         |      |       |      |      |      |      |    |      |      |          |      |      |      |     |     |   |    |      |     |      |     |
| ider  | -   | ier    |       | 1   |      |      |       |      |     | -     | -    | fac  | ility | G     | R     | 1         | 0       | U    | N     | D    |      | Т    | A    | 1  | ı K  | T    | T        |      |      | T    | T   |     |   | T  | T    | T   | T    |     |
| LPG   |     |        |       |     |      |      | A     |      | -   | 0     | -    | 1    | con   | 1     | -     | - Initial |         | _    |       | -    | nun  | nber |      | 11 |      |      | J        |      |      | 31   |     |     |   |    |      |     |      |     |
| 2     | SS  | or di  | VISIC | on  |      |      | 7     |      | 5   | 0     | 0    | age  | Cap   | acit. |       | 1         | <u></u> |      | N 1/2 | , 01 |      |      | 1    |    |      |      |          |      |      |      |     |     |   |    |      |     |      | 100 |
| UN    | nu  | mbe    | r     |     |      | Cla  | ass ( | or   | div | isio  | n    | T    | ypic  | al q  | uant  | ity       |         |      |       |      |      |      | ,    |    | Unit | (L   | or k     | g    | or n | um   | be  | er) |   | Pa | icki | ng  | grou | ıp  |
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|       | Ī   |        | Г     |     |      |      |       | T    |     |       |      | Г    |       |       | Г     | Γ         |         |      |       |      |      |      |      |    |      |      |          |      |      |      |     |     |   |    |      |     |      |     |
| Pro   | due | ct or  | con   | nm  | or   | na   | me    |      |     |       | A    |      |       |       |       |           |         |      |       |      |      |      |      | 1  |      | 7/   |          |      | F.   |      | 11  |     |   |    |      |     |      |     |
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|       | Г   |        | Г     | T   |      |      | I     | I    |     |       |      |      |       |       |       |           |         |      |       |      |      |      |      |    |      |      |          |      |      | L    |     |     |   | L  | L    |     |      |     |
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| Pro   | oei | ship   | nigo  | a r | nan  | ne   |       |      |     |       |      |      |       |       |       |           |         |      |       |      |      |      |      |    |      |      |          |      |      |      | 1   |     |   | 1  |      | -   | -10  |     |
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| Pro   | du  | ct or  | con   | nm  | or   | na   | me    |      |     |       |      |      |       | 1     |       |           |         |      |       |      |      |      | K    | 1  | 11   |      |          |      |      | 1    |     | -   |   |    |      |     |      |     |
|       |     |        |       |     |      |      |       |      |     |       |      |      |       |       |       |           |         |      |       |      |      |      |      |    |      | L    |          |      |      |      |     |     |   |    | -    | -   |      |     |
|       | Г   |        | Г     | T   |      |      |       |      |     |       |      |      |       |       |       | L         |         |      |       |      |      |      |      | L  |      | L    | 1        |      | L    | L    | 1   |     |   |    | L    |     |      |     |
| UN    | nu  | mbe    | r     |     |      | Cla  | ass ( | or ( | div | isio  | n    | T    | ypic  | al q  | uant  | ity       |         |      |       |      | I    |      | ]    |    | Unit | (L c | or k     | g    | or n | urr  | nbe | er) |   | Pa | acki | ng  | grou | ıp  |
| Pro   | nei | r ship | onin  | a r | nan  | ne   |       |      |     |       |      |      |       |       |       |           |         |      |       |      |      |      |      |    |      |      | The same |      |      |      |     |     |   | V  |      |     |      |     |
| 110   | 001 | Jill   | Pul   | 9   | ·ur  |      |       | T    |     |       |      | F    |       |       | I     |           | I       |      |       |      |      |      |      |    |      |      |          |      |      |      |     |     |   |    |      |     |      |     |
| H     | -   | 1      | H     | 1   |      |      | T     | Ť    | T   |       |      |      |       | T     | Î     | Ī         | Ī       |      |       |      |      |      |      | I  |      | T    | T        |      |      |      |     |     |   |    |      |     |      |     |
| Pro   | du  | ct or  | con   | nm  | or   | n na | me    | -11- | -   |       | L    |      |       |       | -     | -11-      |         |      |       |      |      |      | F    |    |      |      |          | 1    |      | 1    | 10  |     |   |    | -    |     | -    |     |
|       |     |        |       | T   |      |      | T     | T    |     |       |      |      |       |       |       |           |         |      |       |      |      |      |      | L  |      |      |          |      |      |      |     |     |   |    |      |     |      |     |
|       |     |        | T     | T   |      |      | Ī     | T    | ī   |       | F    |      | Г     | Г     |       | T         | T       |      |       |      |      |      |      |    |      |      |          |      |      |      |     |     |   |    |      |     |      |     |

| Stora  | tifie    | r        |          |          |          | -           |       | f sto  | 11 |          | 11         |       | 1          |          | 11   |       |      |        |         |     | 10     |      | H    |      |      |      | W.   | 11   |     |  |       |      |
|--------|----------|----------|----------|----------|----------|-------------|-------|--------|----|----------|------------|-------|------------|----------|------|-------|------|--------|---------|-----|--------|------|------|------|------|------|------|------|-----|--|-------|------|
| L      | P        | G        | 2        |          |          | A           | В     |        | V  | 11       | -          | G     | R          | -        | -    | N     | D    |        | Т       | A   | N      | K    | L    |      |      | 1_   | 1    |      |     | 1 -  |       |      |
| Clas   | s or     |          | ISIO     | n        |          | 1           | 15    | um     |    | age      | capa       | acity | 1          | 7        | t (L | or kç | g or | num    | ber     | )   |        |      |      |      |      |      |      |      |     |  |       |      |
| 2      | ٠        | 1        | Ш        |          |          | 7           | 5     | 0      | 0  |          | L          |       |            | L        |      |       |      |        | <u></u> |     |        |      |      |      |      |      |      |      |     |  |       |      |
| UN r   | num<br>o | ber<br>7 | 5        |          | Cla<br>2 | All manages | 1     | ivisio | n  | - Parent | ypica<br>7 |       |            | ity<br>0 | ***  | T     |      | T      | 1       |     | Print. | Init | (Lo  | r kg | orr  | numl | oer) |      | Pa  | ckin   | g gro | oup  |
|        |          |          |          |          |          | -           | -     | _1,    |    | -        |            |       |            |          | -#-  |       |      |        |         |     | 1      |      |      | - 11 | -11. |      |      |      | -   | -th-   | -     |      |
| Prop   |          |          |          |          |          |             |       |        |    | 1        |            |       |            |          |      |       |      |        |         |     |        |      | i    |      |      |      |      | -    |     |  |       |      |
| P      | E        | T        | R        | 0        | L        | E           | U     | M      | L  | G        | A          | S     | -          | L        | I    | Q     | U    | I      | F       | I   | Е      | D    |      |      |      |      |      |      | 9 8 |  |       |      |
|        |          |          |          |          |          |             |       |        |    |          |            |       |            |          |      |       |      |        |         |     |        |      |      |      |      |      |      |      |     |  |       |      |
| Prod   | luct     | or       | com      | mor      | n na     | me          |       | Home   | -  |          | -          |       | J. Samonno | -        |      | -     | 1    | 2-1011 |         |     |        |      | d)   |      | /    | -    |      | - 15 |     |  |       |      |
| L      | I        | Q        | U        | I        | D        |             | P     | E      | Т  | R        | 0          | L     | Е          | U        | M    |       | G    | A      | s       |     |        |      | П    |      |      | T    | I    |      |     |  |       |      |
| H      |          |          |          |          |          |             |       |        |    |          |            |       |            | H_       | 1    |       |      |        |         |     |        |      |      |      |      | H    | -    | 1    | 1   |  |       |      |
|        |          |          | Ļ        | L        | _        |             |       |        | L  |          |            | Ш     |            |          |      | Щ     | L    |        |         |     | L.     |      | L    |      |      |      | L    |      | _   |  | Ш     |      |
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| UNI    | num      | bei      |          |          | Cla      | SS O        | or di | ivisio | n  | T        | ypic       | al qu | iant       | ty       |      |       | -    |        | -       |     | U      | Init | (Lo  | r kg | or r | uml  | oer) |      | Pa  | ckin   | g gro | oup  |
|        |          |          |          |          |          |             |       |        |    | L        |            |       |            | L        |      | 1     |      |        |         |     |        |      |      |      |      |      |      |      |     |  | L     |      |
| Prop   | ore      | hin      | nine     | nar      | ma       |             |       |        |    |          |            |       |            |          |      |       |      |        |         |     |        |      |      |      |      |      |      |      |     |  |       |      |
| FIOL   | Jei S    | oi iib   | DILIE    | i i i ai | 116      |             |       | T      |    | 1        | H          |       |            |          |      |       |      |        |         |     |        |      | T    |      |      | T    | 1    | 1    | 1   | 1  |       |      |
|        |          |          | <u> </u> |          |          |             |       | -      | -  |          |            |       |            |          | L    |       |      |        |         |     |        |      | L    | 1    |      | -    | -    | +    | -   |  |       | H    |
|        |          |          |          |          |          |             |       |        |    |          |            |       |            |          |      |       |      |        |         |     |        |      |      |      |      |      |      | ]    |     |  |       |      |
| Prod   | luct     | or       | com      | mor      | n na     | me          |       |        |    |          |            |       |            |          |      |       |      |        |         |     |        |      |      |      |      |      |      |      |     | ,  |       |      |
|        |          |          | .,       |          |          |             |       |        |    |          |            |       |            |          |      |       |      |        |         |     |        |      |      |      |      |      |      |      |     |  |       |      |
| m      |          |          |          |          |          |             |       | T      | ī  | Ī        |            |       | Ī          | i        | ΪĪ   |       |      |        |         |     |        |      | Ī    |      |      | T    | Г    | Ī    | 1   | I  |       |      |
| _      |          |          | 4        |          | -        |             | -     | 4      | -  | -        |            |       |            | -        | -    | -     |      | -      |         |     | -      | -    | -    | 1    | -    | -    | 1    |      |     |  |       |      |
| 1.06.1 |          | 10.2     |          |          | CI       |             | - al  |        |    | T        |            |       |            |          |      |       |      |        |         |     | - 11   | mit  | (1 0 | r ka | 05.5 | numi | harl |      | D-  | ckin   | a ar  | OLID |
| UNI    | num      | bei      |          |          | Cla      | 55 C        | or al | ivisio | )n | 1        | ypica      | ai qu | iant       | Ly       | -1-  | -     | -    | -      | I       | 7   |        | THE  | (LO  | kg   | OII  | lumi | Jeij |      | -   | CKIII  | y gre | Jup  |
|        |          |          |          |          | _        | L           | 1_    |        |    |          |            | 1     |            | L        |      | 4     |      | 1      | 1       | _   |        |      |      |      |      |      |      |      | -   |  | 1     | 1    |
| Prop   | er s     | hip      | pino     | nar      | ne       |             |       |        |    |          |            |       |            |          |      |       |      |        |         |     |        |      |      |      |      |      |      |      |     |  |       |      |
|        |          |          |          |          |          |             |       | T      | Т  |          |            |       |            |          |      |       |      |        |         |     |        |      |      |      |      |      |      |      |     |  |       |      |
|        | -        |          | -        |          |          |             |       | 1      | 1  |          | H          |       |            | -        | -    | H     |      |        |         |     |        |      |      | H    | H    | 1    | T    | 1    | T   |  |       |      |
|        |          |          |          | Щ        | L        |             | L     | 1      | _  |          | L          |       |            | _        | H    | L     |      |        | L       |     |        |      |      |      | 1_   | 1    | 1_   |      |     | 4  |       |      |
| Prod   | luct     | or       | com      | mor      | n na     | me          |       |        |    |          | 1          | 1     |            |          | _    |       |      |        |         |     |        |      |      |      | 1    | -    |      |      | 1   | 1  | W.    |      |
|        |          |          |          |          |          |             |       |        |    |          |            |       |            |          |      |       |      |        |         |     |        |      |      |      |      |      | L    |      |     |  |       |      |
|        |          |          | -        | Г        |          |             |       |        | I  |          | П          |       |            |          |      |       |      |        |         |     |        |      |      |      |      |      |      |      |     |  |       |      |
|        |          |          | -        |          |          | 11          | 11    | -11    | И  |          |            |       |            | -        | -    |       |      |        |         |     |        |      | 1    |      |      |      |      |      |     | To the same of the |       |      |
| UN     | num      | bei      |          |          | Cla      | ss c        | or di | ivisio | n  | T        | ypica      | al qu | ant        | ity      | 7    |       |      |        |         |     | U      | Init | (Lo  | r kg | orr  | numl | ber) |      | Pa  | ckin   | g gr  | oup  |
|        | N A      | 1000     |          |          | -        | 1           |       |        |    |          |            |       | -1-        | -1-      | -1-  | -11-  |      |        |         | -   | -      |      |      |      |      |      |      |      |     |  |       |      |
| Prop   | er s     | ship     | ping     | nar      | ne       |             |       | -      |    |          | 11         |       |            | 16       |      |       | ir - |        | 100     |     |        |      | -    |      |      | 1    | 1    | -    |     |  | 1     |      |
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|        |          |          |          |          |          |             |       | T      |    |          |            |       |            |          |      |       |      |        |         |     |        |      |      |      |      |      |      |      |     |  |       |      |
| Prod   | luct     | or       | 2000     | mar      | 2 02     | me          | -     |        | 4  | 11       |            | 11    |            | 1        |      |       |      |        | -       | II. | -      |      | 11   |      | 11   | -    |      |      |     |  | -     |      |
| 100    | luct     | OI       | 5011     | IIIOI    | IIId     | lile.       |       | 1      | T  |          |            |       |            | 1        | 1    |       | 1    |        |         |     |        |      | T    |      | T    | I    | T    | 1    |     | T  |       |      |
|        |          | -        | _        |          |          |             |       | -      | -  | -        |            |       |            |          | -    |       |      |        |         |     |        |      | -    |      | 1    | +    | -    |      | +   | 1  |       |      |
|        |          |          |          |          |          |             |       |        |    |          |            |       |            |          |      |       |      |        |         |     |        |      |      |      |      |      |      |      |     |  |       |      |

| Storage facility identifier | Type of storage   | e facility   |  |                |          |                          |               |
|-----------------------------|-------------------|--------------|--|----------------|----------|--------------------------|---------------|
|                             |                   |              |  |                |          |                          |               |
| Class or division           | Maximum stor      | age capacity | Unit (L c  | or kg or numbe | r)       |                          |               |
|                             |                   |              |  |                |          |                          |               |
| UN number C                 | class or division | Typical quan | tity   |                |          | Unit (L or kg or number) | Packing group |
|                             |                   |              |  |                |          |                          |               |
| Proper shipping name        |                   |              |  |                |          |                          |               |
| Product or common r         | name              |              |  |                |          |                          |               |
|                             |                   |              |  |                |          |                          |               |
|                             |                   |              |  |                |          |                          |               |
| UN number C                 | class or division | Typical quan | tity   |                |          | Unit (L or kg or number) | Packing group |
| Proper shipping name        | 9                 |              |  |                |          |                          |               |
|                             |                   |              |  |                |          |                          |               |
|                             |                   |              |  |                |          |                          |               |
| Product or common r         | name              |              | 11 11 11   |                | 1        |                          | V V V V       |
|                             |                   |              |  |                | <u> </u> |                          |               |
|                             |                   |              |  |                | L        |                          |               |
| UN number C                 | class or division | Typical quan | tity   |                |          | Unit (L or kg or number) | Packing group |
|                             |                   |              |  |                |          |                          |               |
| Proper shipping name        | 9                 |              | 10-10-10   |                | 11       |                          |               |
|                             |                   |              |  |                | L        |                          |               |
|                             |                   |              |  |                |          |                          |               |
| Product or common r         | name              |              |  |                |          |                          |               |
|                             |                   |              |  |                |          |                          |               |
|                             |                   |              |  |                | 1_       |                          |               |
| UN number C                 | class or division | Typical quan | tity   |                |          | Unit (L or kg or number) | Packing group |
| Dennas abienica n           |                   |              |  |                |          |                          |               |
| Proper shipping name        |                   |              |  |                |          |                          |               |
|                             |                   |              |  |                |          |                          |               |
|                             |                   |              | The state of the s |                |          |                          |               |
| Product or common r         | name              |              |  |                |          |                          |               |
| Product or common r         | name              |              |  |                |          |                          |               |

| Storage facility identifier | Type of storag    | e facility   |         | 15 N N N N     | 37 1- |                          |               |
|-----------------------------|-------------------|--------------|---------|----------------|-------|--------------------------|---------------|
|                             |                   |              |         |                |       |                          |               |
| Class or division           | Maximum stor      | age capacity | Unit (L | or kg or numbe | r)    |                          |               |
|                             |                   |              |         |                |       |                          |               |
| UN number                   | Class or division | Typical qu   | antity  |                |       | Unit (L or kg or number) | Packing group |
| Proper shipping na          | amo               |              |         |                |       |                          |               |
| Troper shipping he          |                   |              |         |                |       |                          |               |
| Product or commo            | on name           |              |         |                |       |                          |               |
|                             |                   |              |         |                |       |                          |               |
|                             |                   |              |         |                | П     |                          |               |
| LIM                         |                   | T -1-1       |         |                | 3)10  | Hall I aske as sumban    | Dealing group |
| UN number                   | Class or division | Typical qu   | antity  |                |       | Unit (L or kg or number) | Packing group |
| Proper shipping na          | ame               | 1            |         |                |       |                          |               |
|                             |                   |              |         |                |       |                          |               |
|                             |                   |              |         |                |       |                          |               |
| Product or commo            | on name           |              |         |                |       |                          |               |
|                             |                   |              |         |                | Ш     |                          |               |
|                             |                   |              |         |                |       |                          |               |
| UN number                   | Class or division | Typical qua  | antity  |                |       | Unit (L or kg or number) | Packing group |
|                             |                   |              |         |                |       |                          |               |
| Proper shipping na          | ame               |              |         |                |       |                          |               |
|                             |                   |              |         |                |       |                          |               |
|                             |                   |              |         |                |       |                          |               |
| Product or commo            | on name           |              |         |                | 1     |                          |               |
|                             |                   |              |         |                |       |                          |               |
|                             |                   |              |         |                |       |                          |               |
| UN number                   | Class or division | Typical qua  | antity  |                |       | Unit (L or kg or number) | Packing group |
|                             |                   |              |         |                |       |                          |               |
| Proper shipping na          | ame               |              |         |                |       |                          |               |
|                             |                   |              |         |                |       |                          |               |
| Product or commo            | on name           |              | لحالجا  |                |       |                          |               |
|                             |                   |              |         |                |       |                          |               |
|                             |                   |              |         |                |       |                          |               |

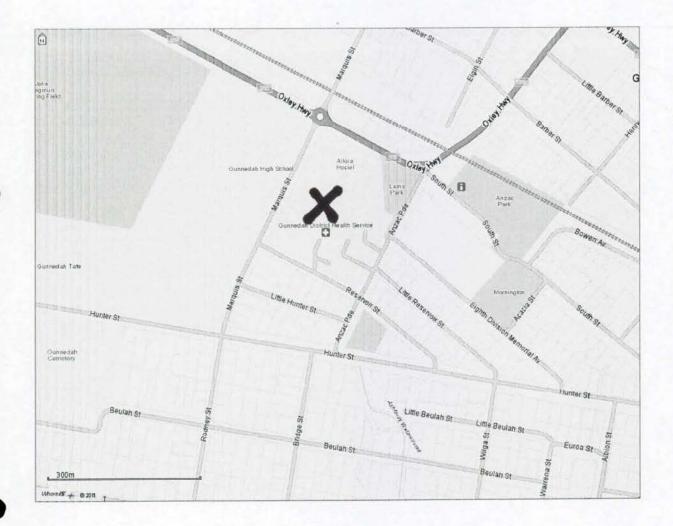
| Storage facility identifier | Type of storage   | e facility     |              |              |   |                |              |                |
|-----------------------------|-------------------|----------------|--------------|--------------|---|----------------|--------------|----------------|
|                             |                   |                |              |              |   |                |              |                |
| Class or division           | Maximum stor      | age capacity   | Unit (L or k | g or number) |   |                |              |                |
|                             |                   |                |              |              |   |                |              |                |
| UN number                   | Class or division | Typical quan   | titu         |              |   | Unit (L or kg  | or number)   | Packing group  |
| ONTIUMBER                   | Class of division | rypical quali  |              |              |   | Offic (L Of kg | Of Halfiber) | Tacking group  |
| Proper shipping na          | ame               |                |              |              |   |                |              |                |
|                             |                   |                |              |              |   |                |              |                |
| Product or commo            | on name           |                |              | H H H        |   |                |              |                |
|                             |                   |                |              |              |   |                |              |                |
|                             |                   |                |              |              |   |                |              |                |
| UN number                   | Class or division | Typical quant  | tity         |              |   | Unit (L or kg  | or number)   | Packing group  |
|                             |                   |                |              |              |   |                |              |                |
| Proper shipping na          | ame               |                | W W          | ar ar ar     |   |                |              |                |
|                             |                   |                |              |              |   |                |              |                |
|                             |                   |                |              |              |   |                |              |                |
| Product or commo            | on name           |                |              |              |   |                |              |                |
|                             |                   |                |              |              |   |                |              |                |
|                             |                   |                |              |              |   |                |              |                |
| UN number                   | Class or division | Typical quant  | titue        |              |   | Unit (L or kg  | or number)   | Packing group  |
| ON humber                   | Class of division | Typical qualit | inty         |              | 1 | Officients     | Of Hallibory | T doking group |
| Proper shipping na          | ame               |                |              | 1- 1- 1-     |   |                | R            |                |
| Troper snipping ne          |                   |                |              |              |   |                |              |                |
|                             |                   |                |              |              |   |                |              |                |
| Product or commo            | on name           |                |              |              |   |                | ()()()       |                |
|                             |                   |                |              |              |   |                |              |                |
|                             |                   |                |              |              |   |                |              |                |
|                             | 2                 | -              | 4.0          |              |   | 11 2 0         |              | Dealine aroun  |
| UN number                   | Class or division | Typical quant  | tity         |              | 1 | Unit (L or kg  | or number)   | Packing group  |
| Proper shipping na          | ame               |                |              |              |   |                |              |                |
|                             |                   |                |              |              |   |                |              |                |
|                             |                   |                |              |              |   |                |              |                |
| Product or commo            | on name           |                |              |              |   |                |              |                |
|                             |                   |                |              |              |   |                |              |                |
|                             |                   |                |              |              |   |                |              |                |

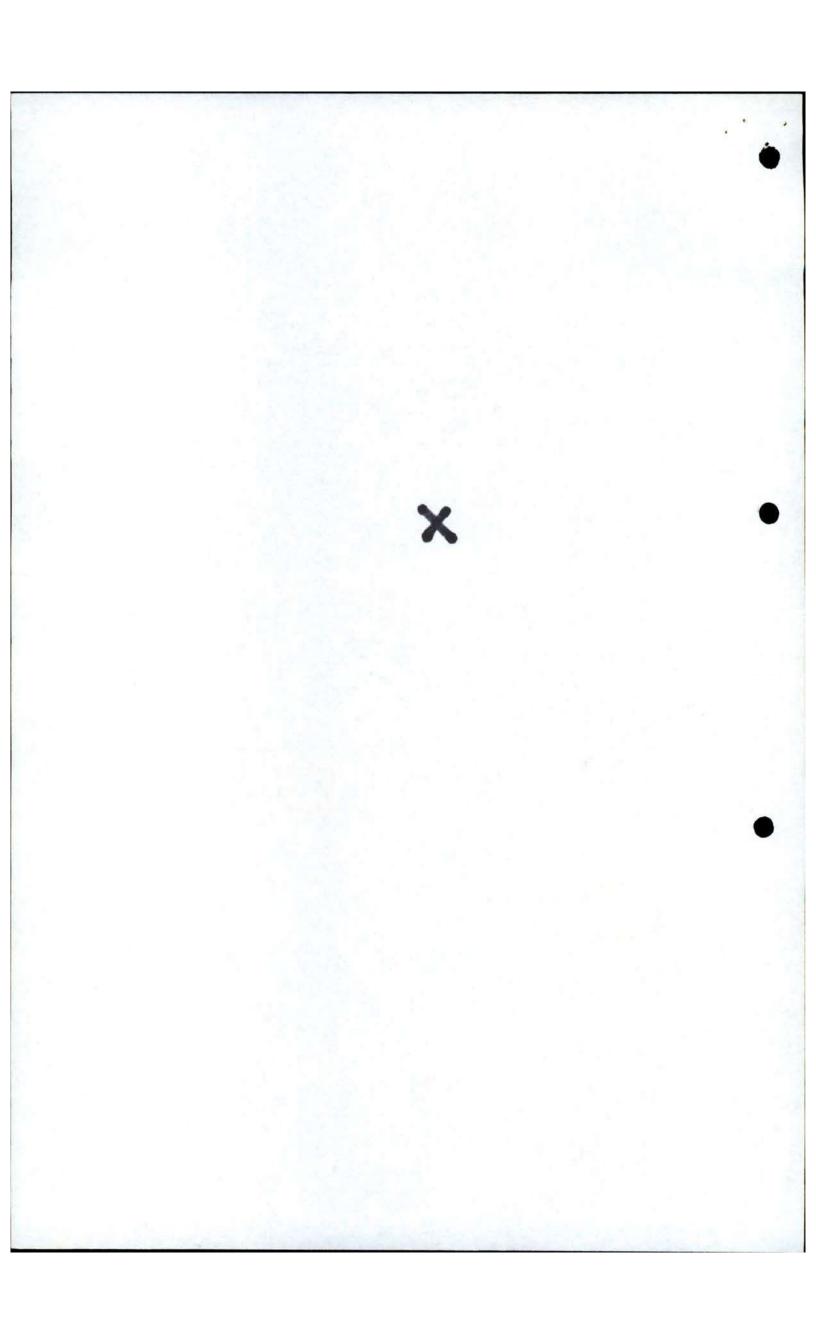
| 7. GOODS TOO DANGEROUS TO BE TRANSPORTED (must be completed for both new notifications and further notifications)  |
|--|
| If space is insufficient, please provide details on a separate sheet of paper.   |
| Are there goods too dangerous to be transported stored or handled on the site?   |
| Yes. Please complete the following 🗸 No. Please go to section 8.   |
| Provide the storage facility identifier in which the dangerous goods too dangerous to transport are stored or handled.  Name as listed in the Australian Dangerous Goods code (appendix A) |
| Traine as inseed in the Australian Bangerous Goods Good (appendix A)   |
|  |
| Maximum quantity Units (L or kg)   |
| Name as listed in the Australian Dangerous Goods code (appendix A)   |
|  |
|  |
| Maximum quantity Units (L or kg)   |
| Please go to section 8   |
| 8. DECLARATION (must be completed)   |
| I, L I N D A C O R N E Y (print name)  |
| MANAGER-AFMUHNELHD   |
| (print position in the corporation) declare and understand that:   |
| I am 18 years of age or over   |
| the information provided is true and correct in every particular   |
| <ul> <li>it is an offence under the WHS Regulation for a person to make a statement that the person knows to be false or<br/>misleading</li> </ul>   |
| I have the authority to make this application on behalf of the occupier of the site.   |
| Signature of person making this declaration Date (DD/MM/YYYY)  |
| Corney 04/09/2013  |
| Please go to section 9   |
| 9. PAYMENT OF FEE (the \$100 must be paid when this notification is submitted)   |
| Pay by cheque. Cheque made payable to WorkCover.   |
| Pay by money order. Money order made payable to WorkCover.   |
| Pay by credit card. Please charge \$100 to my: MasterCard Visa A payment processing fee applies to credit card payments (Visa and MasterCard 0.40%) plus applicable GST.                   |
| Card number  4 7 1 5 2 7 6 6 5 5 9 7 4 4 5 3  Card expiry date (MM/YYYY)  0 5 / 2 0 1 4  |
| Cardholder name (please print name as displayed on credit card)  H N E H E A L T H B A R Y F R A N C I S   |
| Cardholder signature  Date (DD/MM/YYYY)  D 5 1 9 1 2 0 1 3   |
| 13. fremal   |

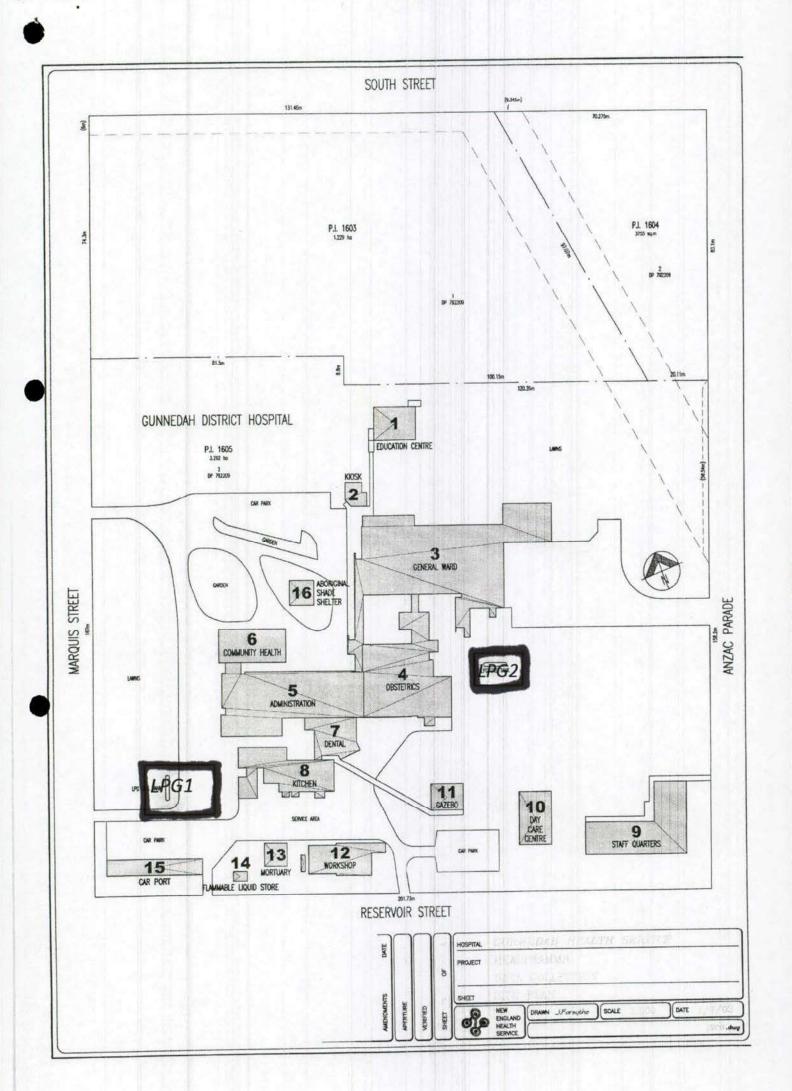
Catalogue No. WC00896 WorkCover Publications Hotline 1300 799 003 WorkCover NSW, 92-100 Donnison Street, Gosford, NSW 2250 Locked Bag 2906, Lisarow, NSW 2252 | WorkCover Assistance Service 13 10 50 Website workcover.nsw.gov.au

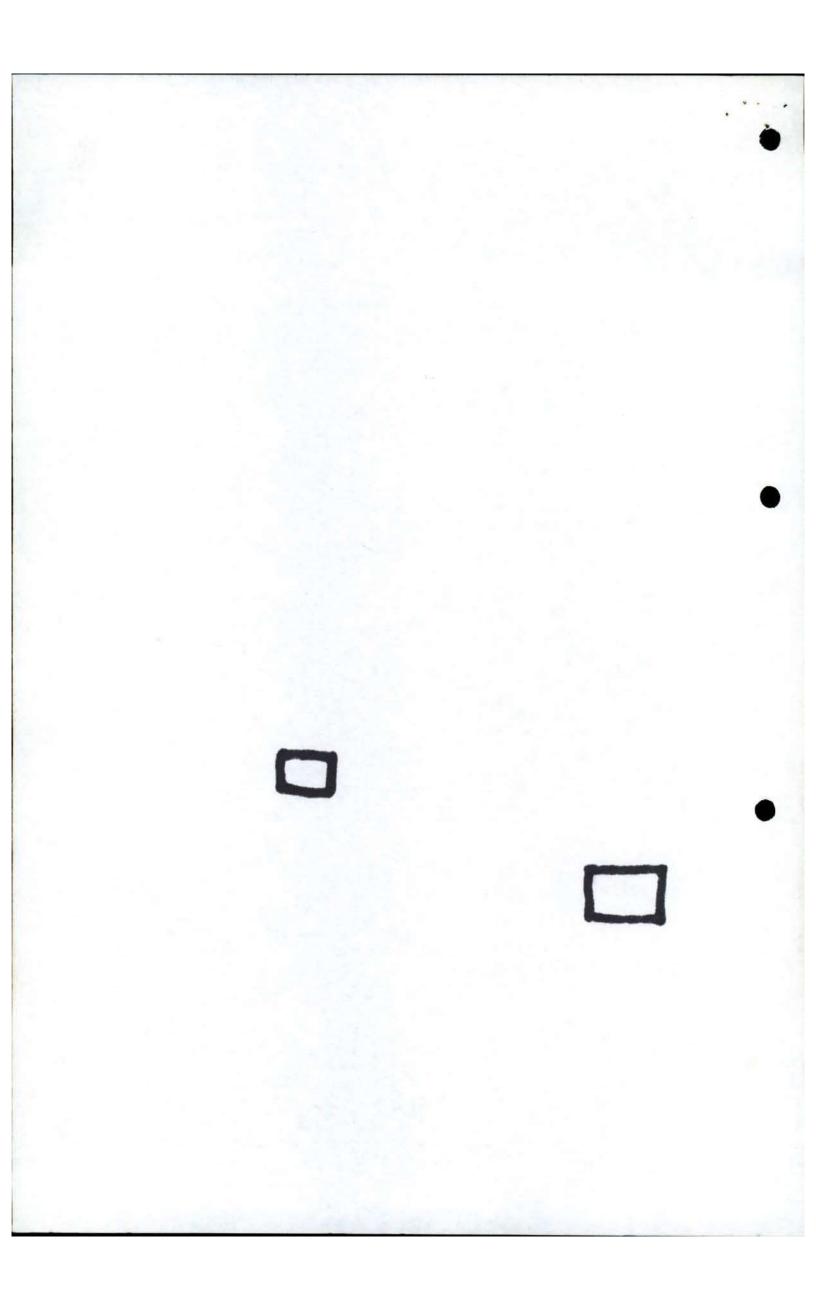
ISBN 978 1 74218 890 4 ©Copyright WorkCover NSW 0812

Where is:









# NOTIFICATION OF DANGEROUS GOODS ON PREMISES CHECKLIST (FDG01)

INFRA# 233327

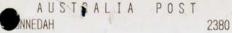
| Licence/Acknowledgment Number:                                    | 35/ 027366                            |     |
|---|---------------------------------------|-----|
| Site Occupier:  | GUNNEDAH DISTRICT HEARTH SORVICE      | íÉ  |
| Site Address:   | MARQUIS ST<br>GUNNEDAM                |     |
|   | GUNNEDAH                              |     |
| Current Expiry Date:  | 30,06,2011                            |     |
| Notification fee of \$100 received and                            | processed: Yes                        |     |
|   | FOLLOW-UP NOTES                       |     |
|   |                                       |     |
|   |                                       |     |
|   |                                       |     |
|   |                                       | e T |
|   |                                       |     |
|   | DATA ENTRY (SCID)                     |     |
|   | Yes                                   | No  |
| ASIC/ABN search done to confirm nam                               | e 🗹                                   | 0   |
| SCID organisation fields updated                                  |                                       | 0   |
| Depots updated  |                                       | 0   |
| Sketch scanned  |                                       |     |
| Site mapped   |                                       |     |
|   | EXPIRY DATE DETAILS                   |     |
|   |                                       |     |
| Funity Data Reset   | Yes                                   | No  |
| Expiry Date Reset  Re-notification for further 12 months          | Yes                                   | No  |
| Re-notification for further 12 months                             | Yes                                   |     |
| Re-notification for further 12 months  Period Of Non Notification |                                       | 0   |
| Re-notification for further 12 months  Period Of Non Notification | Yes  Deceived date://  New Exp Date:/ | 0   |

#### **APPLICATION FINALISED**

|   | Yes No |
|---|--------|
| Acknowledgment printed                                  |        |
| Notification not required (below manifest)              | 0 0    |
| TRIM record and hard copy file created (New sites only) | 0 0    |
| DG's mail register updated as completed                 |        |
|   |        |

## PROCESSING OF NOTIFICATION COMPLETED

| Data entry and processing of notification form completed.  |                  |
|--|------------------|
| Data citity and processing of notification form completed. |                  |
| Staff members name:  |                  |
| Staff member's signature:                                  | Date: \\\05\2011 |



WorkCover D/G-EXP Licence Appl \$100.00
Unique Reference No 2350100242805
Notif of Dangerous Goods
CAROLE
YOUNG
14 EWING STREET
GUNNEDAH NSW 2380

Australia Post staff member to post Application form & first receipt to:

Licensing Team - WorkCover NSW Locked Bag 2906 CENTRAL COAST MC NSW 2252

DOB 30121951

14/04/11 02/36681 te/h 235010 14:43



NSW Occupational Health and Safety Act 2000 • NSW Occupational Health and Safety Regulation 2001

ABN 77 682 742 966

FDG01 January 2008

RECEIVED
GOS-MAIL CENTRE

1 8 APR 2011

WORKCOVER NEW SOUTH WALES

## NOTIFICATION

OF DANGEROUS GOODS ON PREMISES FORM

#### EXPLANATORY NOTES AND FORM CHECKLIST

This form is used to notify WorkCover of dangerous goods stored on premises. This form is to be completed in conjunction with the Guide – Notification of Dangerous Goods on Premises (GDG01). Notification is a requirement of the Occupational Health and Safety Regulation 2001.

Persons who wish to handle explosives or security sensitive dangerous substances need to obtain a licence under the Explosives Regulation 2005. See the WorkCover website www.workcover.nsw.gov.au or call 13 10 50 for information about explosives licensing.

#### LODGMENT INSTRUCTIONS

- 1. You must complete all sections of this form.
- 2. You may lodge your notification with Australia Post or with Workcover NSW at Locked Bag 2906 Lisarow NSW 2252.
- 3. You must sign and date this notification by completing the declaration on the last page.
- 4. Payment of the notification fee must accompany this form.

Note: No proof of identity check is required for this notification.

#### NOTIFICATION CHECKLIST

Please tick the appropriate box to ensure that your notification is complete and secure prior to submission to Australia

Post or WorkCover

Notifier Use Only

- · Notification Form (this form) Completed and Signed
- Site Sketch(s) only A4 size is acceptable
- · Photocopy from street directory or map showing locality
- · Non-refundable fee \$100

### \ \ \

#### PRIVACY COMPLIANCE STATEMENT

This information is collected by WorkCover New South Wales ('WorkCover') for the purposes of undertaking an evaluation, assessment and processing a notification of dangerous goods on premises as required by the *Occupational Health and Safety Act 2000* and the *Occupational Health and Safety Regulation 2001*.

This information may also be used by WorkCover for the purposes of confirming applicant details in the event replacement acknowledgements are applied for, and may also be used to establish and maintain a database and to assist the WorkCover inspectorate with their work generally. Information is also made available to local councils and emergency services assist with emergency response and planning.

Except for the purposes of prosecution and unless such disclosure is otherwise required by law, the information will not be accessed by any third parties in a way that would identify the individual without the consent of that individual.

You may also apply to WorkCover to access and correct any information WorkCover holds if that information is inaccurate, incomplete, not relevant or out of date. Applications should be made in writing to:

Privacy Contact Officer, WorkCover NSW Head Office Locked Bag 2906 Lisarow NSW 2252

| CONTACT FOR NOTIFICATION INQUIRIES   |                    |
|--|--------------------|
| Title: Mr / Miss / Ms / Mrs / Other (please specify) Family name Boultone  |                    |
| Given name Other names  Business phone 67418041  Business fax number 6740136   | .1                 |
| Business email address tool Boatone a hreheath. NSW. Gov. au   | )(                 |
|  |                    |
| Previous Licence Number or Acknowledgement Number (if known)   |                    |
| 35/02136L  |                    |
| Previous Occupier (if known)   |                    |
| ·  |                    |
| Site on which dangerous goods are to be kept   |                    |
| Number Street  |                    |
| Marquis St   |                    |
| Suburb/Town/Locality   | Postcode           |
| Cannedah   | 2380               |
| Nearest cross Street   |                    |
| Residuor St  |                    |
| Lot and DP if no street number   |                    |
|  |                    |
| Is the site staffed? If yes state number of employees 100  |                    |
| Site staffing: Hours per day 24hrs Days per week 7   |                    |
| Site Emergency Contact   |                    |
| Phone number Name  |                    |
| ( )0419002763 Todd Southorne   |                    |
| Nature of site (eg petrol station, warehouse etc)  |                    |
| Hospital   |                    |
| Nature of primary business activity  |                    |
| Health   |                    |
| ADN Number (if any)  |                    |
| ABN Number (if any) Website details (if any)   |                    |
| What is the ANICZIO and any of the Control of the C |                    |
| What is the ANSZIC code most applicable to your business? (see guide for list of codes and further Code Description  | Information)       |
| Code Description Description   |                    |
| 107/10   |                    |
| Attach a site sketch(s) of the premises. Refer to the Guide GDG01 for information on the require   | ments for the site |

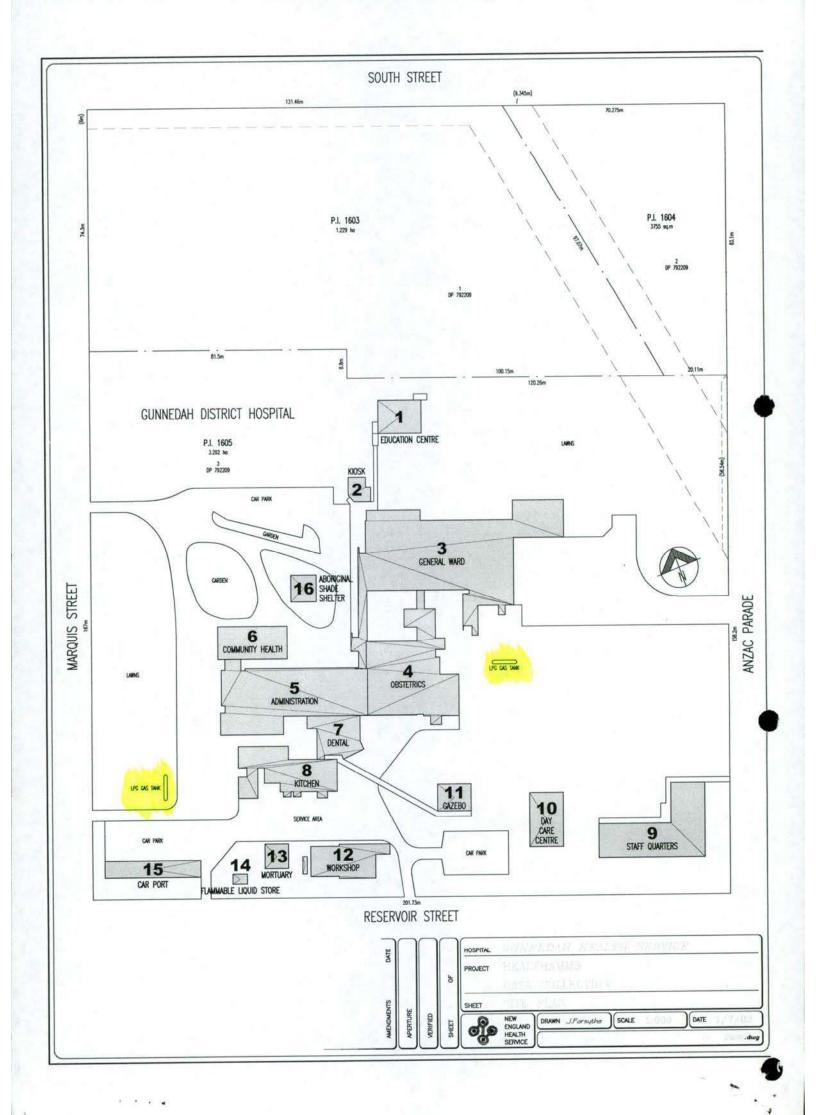
Attach a legible photocopy page from a local Street Directory or other map showing the locality of the premises. Mark the location of the premises with an X.

List the dangerous goods that will be stored and/or processed on these premises (refer to Guide GDG01). Copy this page and attach additional sheets if there is insufficient space.

| UN Number Proper Shipping Name Class PG (I, II, III) Product or Common Name HazChem Typical Unit class PG (I, II, III) Product or Common Name HazChem Typical Unit class PG (I, II, III) Product or Common Name HazChem Typical Unit class PG (I, II, III) Product or Common Name Code Class Maximum Storage Capacity (L, kg)  Depot No Type of storage location or process Class Maximum Storage Capacity (L, kg)  Depot No Type of storage location or process Class Maximum Storage Capacity (L, kg)  UN Number Proper Shipping Name Class PG (I, II, III) Product or Common Name HazChem Typical Unit class Code Class Maximum Storage Capacity (L, kg)  UN Number Proper Shipping Name Class PG (I, II, III) Product or Common Name HazChem Typical Unit class Code Class Maximum Storage Capacity (L, kg)  Depot No Type of storage location or process Class Maximum Storage Capacity (L, kg)  Depot No Type of storage location or process Class Maximum Storage Capacity (L, kg)  Depot No Type of storage location or process Class Maximum Storage Capacity (L, kg)   | UN Number Proper Shipping Name Class PG (I, II, III) Product or Common Name HazChem Typical Unit eg L, k  Depot No Type of storage location or process Class Maximum Storage Capacity (L, kg)  UN Number Proper Shipping Name Class PG (I, II, III) Product or Common Name HazChem Typical Unit eg L, k  UN Number Proper Shipping Name Class PG (I, II, III) Product or Common Name HazChem Typical Unit eg L, k  UN Number Proper Shipping Name Class PG (I, II, III) Product or Common Name HazChem Typical Unit eg L, k  UN Number Proper Shipping Name Class PG (I, II, III) Product or Common Name HazChem Typical Unit eg L, k  UN Number Proper Shipping Name Class PG (I, II, III) Product or Common Name HazChem Typical Unit eg L, k  UN Number Proper Shipping Name Class PG (I, II, III) Product or Common Name HazChem Typical Unit eg L, k  UN Number Proper Shipping Name Class PG (I, II, III) Product or Common Name HazChem Typical Unit eg L, k  UN Number Proper Shipping Name Class PG (I, II, III) Product or Common Name HazChem Typical Unit eg L, k  UN Number Proper Shipping Name Class PG (I, II, III) Product or Common Name HazChem Typical Unit eg L, k  UN Number Proper Shipping Name Class PG (I, II, III) Product or Common Name HazChem Typical Unit eg L, k   | Depot No  | Type of storage location |          |                    | Class 2.1  | Maximum Stora |             | (=, 1.8/_ |                 |
|--|---|-----------|--------------------------|----------|--------------------|------------|---------------|-------------|-----------|-----------------|
| Depot No  Type of storage location or process  Class  Maximum Storage Capacity (L, kg)  Depot No  Type of storage location or process  Class  Maximum Storage Capacity (L, kg)  Unit  Code  Qty  Gty  Gty  Gty  Gty  Gty  Gty  Gty   | Depot No Type of storage location or process  Class Maximum Storage Capacity (L, kg)  UN Number Proper Shipping Name Class PG (I, II, III) Product or Common Name Code Qty eg L, kg)  Depot No Type of storage location or process Class Maximum Storage Capacity (L, kg)  UN Number Proper Shipping Name Class PG (I, II, III) Product or Common Name Code Qty eg L, kg)  Depot No Type of storage location or process Class Maximum Storage Capacity (L, kg)  UN Number Proper Shipping Name Class PG (I, II, III) Product or Common Name Code Qty eg L, kg)  Depot No Type of storage location or process Class Maximum Storage Capacity (L, kg)  UN Number Proper Shipping Name Class PG (I, II, III) Product or Common Name Code Qty eg L, kg)  Depot No Type of storage location or process Class Maximum Storage Capacity (L, kg)  UN Number Proper Shipping Name Class PG (I, II, III) Product or Common Name Code Qty eg L, kg)  Depot No Type of storage location or process Class Maximum Storage Capacity (L, kg)  UN Number Proper Shipping Name Class PG (I, II, III) Product or Common Name Code Qty eg L, kg)  Depot No Type of storage location or process Class Maximum Storage Capacity (L, kg)  |           | nru John                 |          |                    | 4.1        | 12 100        | WL          |           |                 |
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| LIN Number Proper Shipping Name Class PG Product or Common Name HazChem Typical Unit   | UN Number Proper Shipping Name Class PG Product or Common Name HazChem Typical Unit   | UN Number | Proper Shipping Name     | Class    | PG<br>(I, II, III) | Product or | Common Name   |             |           | Unit<br>eg L, k |
| LIN Number Proper Shipping Name Class PG Product or Common Name HazChem Typical Unit   | UN Number Proper Shipping Name Class PG Product or Common Name HazChem Typical Unit   |           |                          |          |                    | -          |               |             |           |                 |
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|  |   | UN Number | Proper Shipping Name     | Class    |                    | Product or | Common Name   |             |           | Unit<br>eg L, k |
|  |   |           |                          |          |                    |            |               |             |           |                 |
|  |   |           |                          |          |                    |            |               |             |           |                 |
|  |   |           |                          |          |                    |            |               |             |           |                 |

# FDG01

| SITE OCCUPIER INFORMATION   |
|---|
| Name of Occupier  |
| GUNNEDAH DISTRICT HEALTH SERVICE *2112 18   |
| ABN COC Sta FOC   |
| 24 500 842 605.   |
| Postal Address of Occupier Suburb/Town Postcode   |
| P.O BOX 243 GUNNEDAH 2380   |
| Trading Name if different   |
| Type of business entity   |
|   |
| Company Sole Trader Partnership Other Please specify: 46ALTH SERVICE  |
| DETAILS OF PERSON MAKING NOTIFICATION   |
| Title: Mr / Miss / Ms / Mrs) Other (please specify) Family name Your G  |
| Given name CAROLE Other names LYNN  |
| Relationship to occupier (eg director, employee etc)  |
| DECLARATION   |
| 1 (print your name in BLOCK LETTERS) CAROLE YOUNG Phone number 026741800  |
| of (print your home address) IN EWING ST GUNNEDAY Postcode 2880.  |
| hereby declare that:  |
| I am 18 years of age, or over   |
| The information contained in this notification is true and correct in every particular  |
| I am authorised to complete this notification and make this declaration on behalf of the occupier      I am authorised to complete this notification and make this declaration on behalf of the occupier      I am authorised to complete this notification and make this declaration on behalf of the occupier      I am authorised to complete this notification and make this declaration on behalf of the occupier      I am authorised to complete this notification and make this declaration on behalf of the occupier      I am authorised to complete this notification and make this declaration on behalf of the occupier      I am authorised to complete this notification and make this declaration on behalf of the occupier      I am authorised to complete this notification and make this declaration on behalf of the occupier      I am authorised to complete this notification and make this declaration on behalf of the occupier      I am authorised to complete this notification and make this declaration on behalf of the occupier      I am authorised to complete this notification and make this declaration on behalf of the occupier      I am authorised to complete this notification and make this declaration on behalf of the occupier      I am authorised to complete this notification and make this declaration on behalf of the occupier      I am authorised to complete this notification and make this declaration and the occupier of th |
| <ul> <li>I am aware that it is an offence under clause 356 of the Occupational Health and Safety Regulation 2001 to provide any information or produce any documentation in a notification that I know is false or misleading in a material particular.</li> </ul>  |
| Signature of person making this declaration   |
|   |
| PAYMENT OF NOTIFICATION FEE  Enclose a chaque or manny order with the notification (do not send each), now ever the counter by each chaque or credit.   |
| <b>Enclose</b> a cheque or money order with the notification (do not send cash), <b>pay over the counter</b> by cash, cheque or credit card, or <b>fill in the credit card details</b> below for the amount of \$100.   |
| Please charge my Bankcard MasterCard Visa   |
| Card No: Card expiry date: / /  |
| Cardholders name: Cardholders signature:  |
| Payment details: Amount Paid: \$ Date of payment //   |
| OFFICE USE ONLY   |
| Receipt Number         Date//         Amount \$   |
| Name of Australia Post Checking Officer PATRICIA EASEY  |
| Signature Jalorcia Easer Date 14/4/11   |
| Name of Post office/agency  |
| Australia Post Disclaimer   |
| Australia Post is acting as an agent for WorkCover to identify you under the requirements set out by Occupational Health and Safety Act 2000.  Your notification will be forwarded to WorkCover.  WorkCover.  All correspondence in respect of this notification must be addressed to WorkCover.  |



NOTIFICATION OF DANGEROUS GOODS ON PREMISES

CHECKLIST (FDG01)

472E

INFRA# 147637

| Licence/Acknowledgment Number:         | 35/027366           |                 |     |
|--|---------------------|-----------------|-----|
| Site Occupier:                         | HUNTER NEW ENGL     | AND HEARTH.     |     |
| Site Address:                          | MARQUIS STREET      |                 |     |
|  | GUNNEDAH            |                 |     |
| Current Expiry Date:                   | 18,6,2009           |                 |     |
| Notification fee of \$100 received and | _/                  |                 |     |
|  | EQUI OW UP NOTES    |                 |     |
|  | FOLLOW-UP NOTES     |                 |     |
|  |                     |                 |     |
|  |                     |                 |     |
|  |                     |                 |     |
|  |                     |                 |     |
|  |                     |                 |     |
|  |                     |                 |     |
|  |                     |                 |     |
|  | DATA ENTRY (SCID)   |                 |     |
|  |                     | Yes             | No  |
| ASIC/ABN search done to confirm nam    | е                   |                 |     |
| SCID organisation fields updated       |                     |                 |     |
| Depots updated                         |                     |                 |     |
| Sketch scanned                         |                     |                 |     |
| Site mapped                            |                     | 0               |     |
|  | EXPIRY DATE DETAILS |                 |     |
| Expiry Date Reset                      |                     | Yes             | No  |
| Re-notification for further 12 months  |                     |                 | 0   |
| Period Of Non Notification             |                     |                 | 1   |
| 111                                    | ceived date 30,6,10 | New Exp Date 30 | 11. |
|  |                     | -/              |     |

#### APPLICATION FINALISED

|   | Yes No |
|---|--------|
| Acknowledgment printed                                  | 3 0    |
| Notification not required (below manifest)              | 0 0    |
| TRIM record and hard copy file created (New sites only) | 0 ,0   |
| DG's mail register updated as completed                 |        |
|   |        |

#### PROCESSING OF NOTIFICATION COMPLETED

| Data entry and processing of | notification form completed. |              |
|------------------------------|------------------------------|--------------|
| Staff members name:          | SWays                        |              |
| Staff member's signature:    | 8                            | Date: Blallo |



#### AUSTRALIA POST GLUNEDAH 2380

THIS IS NOT A RECEIPT

WorkCover D/G-EXP Licence Application

Unique Reference No 2350100129143
Notif of Dangerous Goods
CAROLE YOUNG
14 EWING ST
GUNNEDAH NSW 2380
DOB 05101990 100.00

ATTACH TO THE WORKCOVER APPLICATION FORM AND POST TO:

Licensing Team - WorkCover NSW Locked Bag 2906 CENTRAL COAST MC NSW 2252

28/06/10 01/11269 gb/d 235010 14:49

## NOTIFICATION

OF DANGEROUS GOODS ON PREMISES FORM

#### **EXPLANATORY NOTES AND FORM CHECKLIST**

This form is used to notify WorkCover of dangerous goods stored on premises. This form is to be completed in conjunction with the Guide – Notification of Dangerous Goods on Premises (GDG01). Notification is a requirement of the Occupational Health and Safety Regulation 2001.

Persons who wish to handle explosives or security sensitive dangerous substances need to obtain a licence under the Explosives Regulation 2005. See the WorkCover website www.workcover.nsw.gov.au or call 13 10 50 for information about explosives licensing.

#### LODGMENT INSTRUCTIONS

- 1. You must complete all sections of this form.
- 2. You may lodge your notification with Australia Post or with Workcover NSW at Locked Bag 2906 Lisarow-NSW 2252.
- 3. You must sign and date this notification by completing the declaration on the last page.
- 4. Payment of the notification fee must accompany this form.

Note: No proof of identity check is required for this notification.

HO-MAIL CENTRE
3 0 JUN 2010

WORKCOVER

#### NOTIFICATION CHECKLIST

Please tick the appropriate box to ensure that your notification is complete and secure prior to submission to Australia
Post or WorkCover

Notifer Use Only

- · Notification Form (this form) Completed and Signed
- Site Sketch(s) only A4 size is acceptable
- · Photocopy from street directory or map showing locality
- · Non-refundable fee \$100

#### PRIVACY COMPLIANCE STATEMENT

This information is collected by WorkCover New South Wales ('WorkCover') for the purposes of undertaking an evaluation, assessment and processing a notification of dangerous goods on premises as required by the Occupational Health and Safety Act 2000 and the Occupational Health and Safety Regulation 2001.

This information may also be used by WorkCover for the purposes of confirming applicant details in the event replacement acknowledgements are applied for, and may also be used to establish and maintain a database and to assist the WorkCover inspectorate with their work generally. Information is also made available to local councils and emergency services assist with emergency response and planning.

Except for the purposes of prosecution and unless such disclosure is otherwise required by law, the information will not be accessed by any third parties in a way that would identify the individual without the consent of that individual.

You may also apply to WorkCover to access and correct any information WorkCover holds if that information is inaccurate, incomplete, not relevant or out of date. Applications should be made in writing to:

Privacy Contact Officer, WorkCover NSW Head Office Locked Bag 2906 Lisarow NSW 2252

| Title: Mr / Mies / Ms / Mrs / Other (please specify) Family name                             | SOUTHORNE                           |
|--|-------------------------------------|
| Given name Other names   |                                     |
|  | ber 67402881                        |
| Business email address todd, Southorne whichealth  | h.nsw.gov.au.                       |
|  |                                     |
| Previous Licence Number or Acknowledgement Number (if known)                                 |                                     |
| 35/ 027366   |                                     |
| Previous Occupier (if known)   |                                     |
| -  |                                     |
|  |                                     |
| Site on which dangerous goods are to be kept   |                                     |
| Number Street  |                                     |
| MARQUIS STREET   |                                     |
| Suburb/Town/Locality   | Postcode                            |
| GUNNEDAH   | 2380                                |
| Nearest cross Street   |                                     |
| RESERVIOR STREET   |                                     |
| RCOOKTION OIRCET   |                                     |
| Lot and DP if no street number   |                                     |
| L2-L3 DP 742209  |                                     |
| Is the site staffed? If yes state number of employees  |                                     |
| Site staffing: Hours per day 24 Days per week  |                                     |
|  |                                     |
| Site Emergency Contact   |                                     |
| Phone number Name  |                                     |
| ( )0429002768   TODD SOUTHURNE   |                                     |
| Nature of site (eg petrol station, warehouse etc)  |                                     |
| HOSPITAL   |                                     |
| Nature of primary business activity  |                                     |
| HEALTH   |                                     |
|  |                                     |
| ABN Number (if any) Website details (if any)   |                                     |
| 24 500 8AL 605   |                                     |
|  | st of codes and further information |
| What is the ANSZIC code most applicable to your business? (see guide for li                  | St of codes and farther information |
| What is the ANSZIC code most applicable to your business? (see guide for li Code Description | St of codes and farther mornation   |

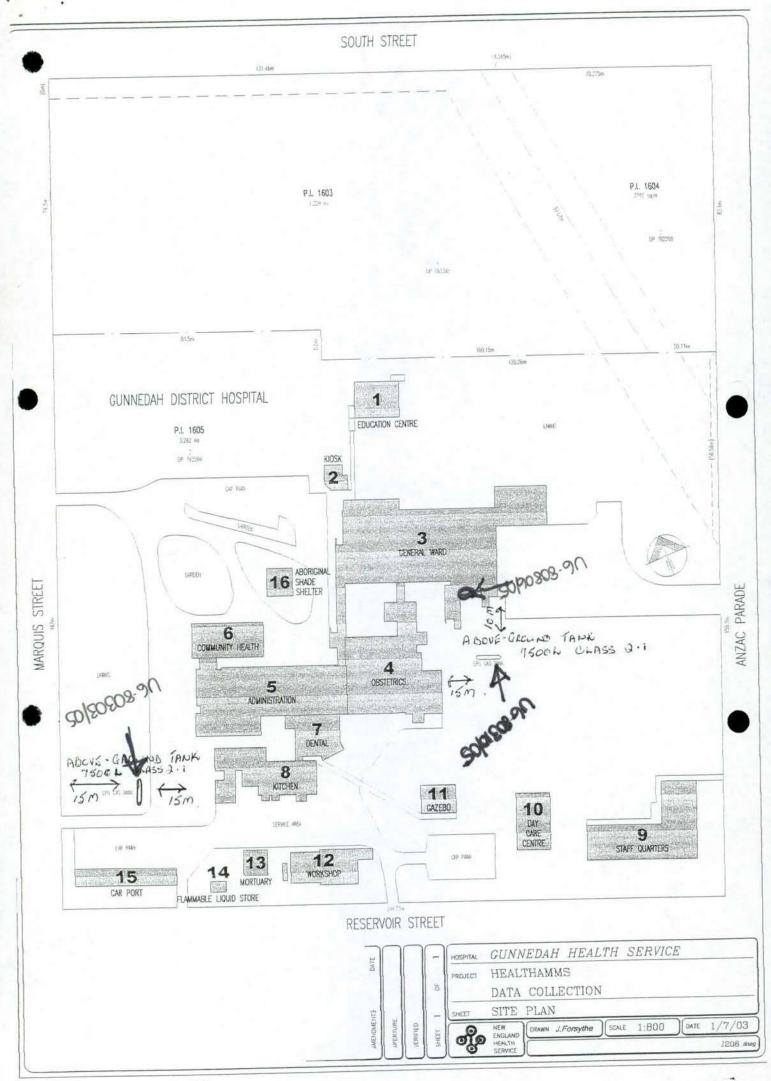
Attach a site sketch(s) of the premises. Refer to the Guide GDG01 for information on the requirements for the site sketch.

Attach a legible photocopy page from a local Street Directory or other map showing the locality of the premises. Mark the location of the premises with an X.

List the dangerous goods that will be stored and/or processed on these premises (refer to Guide GDG01). Copy this page and attach additional sheets if there is insufficient space.

| Depot No           | Type of storage locatio  | n or pro | cess C             | lass       | Maximum Stora             |                          | (L, Kg)              |                  |
|--------------------|--------------------------|----------|--------------------|------------|---------------------------|--------------------------|----------------------|------------------|
|                    | LPC Cas                  | Ten      | X                  | 2-1        | 750                       | 001                      |                      |                  |
| UN Number          | Proper Shipping Name     | Class    | PG<br>(I, II, III) |            | Common Name               | HazChem<br>Code          | Typical<br>Qty       | Unit<br>eg L, kg |
| UN 1075            | Liquid Refrelein         | 2.1      |                    | LPC        |                           | 2                        | 1500                 | 3                |
| Depot No           | Type of storage location | n or pro | -                  | lass       | Maximum Stora             | ge Capacity              | (L, kg)              |                  |
| UN Number          | Proper Shipping Name     | Class    | PG<br>(I, II, III) | Product or | Common Name               | HazChem<br>Code          | Typical<br>Qty       | Unit<br>eg L, kg |
| UN 1075            | Liquid Patrolas          | n 2.     |                    | LPC        |                           | 2                        | 7500                 | AL               |
| Depot No UN Number | Type of storage location | n or pro | PG (I, II, III)    | Product or | Maximum Stora Common Name | ge Capacity HazChem Code | (L, kg)  Typical Qty | Unit<br>eg L, kg |
| Depot No           | Type of storage locatio  | n or pro | cess C             | lass       | Maximum Stora Common Name | ge Capacity              | (L, kg)              | Unit             |
| ON Number          | Troper Simpping Nume     | Ciass    | (1, 11, 111)       |            |                           | Code                     | Qty                  | eg L, kg         |
| Depot No           | Type of storage locatio  | n or pro | cess C             | lass       | Maximum Stora             | ge Capacity              | (L, kg)              |                  |
| UN Number          | Proper Shipping Name     | Class    | PG<br>(I, II, III) | Product or | Common Name               | HazChem<br>Code          | Typical<br>Qty       | Unit<br>eg L, kg |
|                    |                          |          |                    |            |                           |                          |                      |                  |
|                    |                          |          |                    |            |                           |                          |                      |                  |

| SITE OCCUPIER INFORMATION  |  | 17 705   |
|--|--|--|
| Name of Occupier   |  |  |
| HUNTER NEW ENGLAND H   | EALTH  | *2112 18   |
| ABN  | 7 - 33   - 7 - 7   | 211210   |
| 24 500 842 605   |  |  |
| Postal Address of Occupier   | Suburb/Town  | Postcode 2380  |
| PO BOX 243   | GUNNEDAH   | 2000   |
| Trading Name if different  |  |  |
| Type of business entity  |  |  |
| Company Sole Trader Partnership  | Other please specify:  | HEAUH SERVICE  |
| DETAILS OF PERSON MAKING NOTIFICAT   |  |  |
| Title: Mr / Miss / Ms / Mrs / Other (please specify)   | 1-1/-1   | İ  |
| Given name CAROLE  | Other names LTNN   | MANAGED  |
| Relationship to occupier (eg director, employee etc)   | HCHCIN SORVICE   | MANAGOR.   |
| DECLARATION  | 2/2016   | 62116000   |
| of (print your name in BLOCK LETTERS) CAROLE OF (print your home address) 14 EWING S   | STREET GUNNEDAH  | Postcode 2380  |
| hereby declare that:   |  |  |
| I am 18 years of age, or over  The life restriction is the actification in the second control of the seco      | and correct in quart particular  |  |
| <ul> <li>The information contained in this notification is true</li> <li>I am authorised to complete this notification and m</li> </ul>  | The latest the state of the sta | occupier   |
| I am aware that it is an offence under clause 356 ce   |  |  |
| any information or produce any documentation in a particular.  |  |  |
| Signature of person making this declaration  | bypung   | Date _ 25 · 6 · 10   |
| PAYMENT OF NOTIFICATION FEE  | 00   |  |
| Enclose a cheque or money order with the notification card, or fill in the credit card details below for the am  |  | ounter by cash, cheque or credit   |
| Please charge my Bankcard MasterCar  | d Visa   |  |
| Card No:   | Card expiry date:/_  | /  |
| Cardholders name:  |  |  |
| Payment details: Amount Paid: \$   | Date o   | f payment//  |
| OFFICE USE ONLY  |  |  |
| Receipt Number 01/11269  | Date 28/6/10 Am  | ount \$ _ \ 0 0  |
| Name of Australia Post Checking Officer Gay  | e Brady  |  |
| Signature Quantum and a supplier and | Date 28  | 6/10.  |
|  | ah   |  |
| Australia Post Disclaimer  |  |  |
| The state of the s | orkCover. noti   | correspondence in respect of this fication must be addressed to rkCover. |



the Downer



| WORKCOVER NEW SOUTH WALES                  |                 |          |                            | Notification Number: |
|--|-----------------|----------|----------------------------|----------------------|
| marqu                                      | She             | et .     |                            | Current Expiry Date: |
|  | gun             | neda     |                            | 1816 108             |
| TYPE OF APPLICATION:                       |                 | + 1      |                            |                      |
| RE-NOTIFICATION NEW                        | AM              | IENDMEN' | FEE PA<br>T (NO FEE PAYABL |                      |
| TRANSFER                                   | EX              | PLOSIVES | (REFER TO HAZ A            | СТ)                  |
| NOTIFICATION CHECKLIST                     | YES             | NO       |                            |                      |
| ASIC /ABN search done to confirm name      |                 |          |                            |                      |
| SCID organisation fields updated           |                 |          |                            |                      |
| Manifest provided                          |                 |          |                            |                      |
| Depots Updated                             |                 |          | YES                        | NOT REQ VERIFIE      |
| Sketch provided                            |                 |          | Scanned                    | JP-                  |
| Locality map provided                      |                 |          | Mapped                     |                      |
| EXPIRY DATE RESET                          | YES             | NO       |                            |                      |
| Re-notification for additional 12 Months   |                 |          |                            |                      |
| Reset due to Common Expiry Date in Use     |                 |          | Common Expiry D            | Pate://              |
| PERIOD OF NON NOTIFICATION                 |                 |          |                            |                      |
| Old Exp Date:/ Applicat                    | tion Received I | Date:/   | / New Exp                  | p Date: 18/6/08      |
| (This notification was not curr            |                 |          |                            |                      |
| APPLICATION FINALISED                      | YES             | NO       | LETTER SENT                |                      |
| Acknowledgment printed                     |                 |          |                            | PROCESSED BY         |
| Closure (Declaration A)                    |                 |          |                            | Leonie               |
| Notification not required (Below Manifest) |                 |          |                            | Deans                |
| More Info Required (See Notes below)       |                 |          |                            | Date 16/6/0          |
| MORE INFORMATION REQUIRED/NOT              | FC.             |          |                            |                      |

DGchecklist.DS 0207

GB472E

0010/00609

## **NOTIFICATION**

OF DANGEROUS GOODS ON PREMISES FORM

#### **EXPLANATORY NOTES AND FORM CHECKLIST**

This form is used to notify WorkCover of dangerous goods stored on premises. This form is to be completed in conjunction with the Guide – Notification of Dangerous Goods on Premises (GDG01). Notification is a requirement of the Occupational Health and Safety Regulation 2001.

Persons who wish to handle explosives or security sensitive dangerous substances need to obtain a licence under the Explosives Regulation 2005. See the WorkCover website www.workcover.nsw.gov.au or call 13 10 50 for information about explosives licensing.

#### LODGMENT INSTRUCTIONS

- 1. You must complete all sections of this form.
- 2. You may lodge your notification with Australia Post or with Workcover NSW at Locked Bag 2906 Lisarow NSW 2252.
- 3. You must sign and date this notification by completing the declaration on the last page.
- 4. Payment of the notification fee must accompany this form.

Note: No proof of identity check is required for this notification.

# 3 0 MAY 2003

#### NOTIFICATION CHECKLIST

Please tick the appropriate box to ensure that your notification is complete and secure prior to submission to Australia

Post or WorkCover

Notifer Use Only

- Notification Form (this form) Completed and Signed
- Site Sketch(s) only A4 size is acceptable
- · Photocopy from street directory or map showing locality
- Non-refundable fee \$100

#### PRIVACY COMPLIANCE STATEMENT

This information is collected by WorkCover New South Wales ('WorkCover') for the purposes of undertaking an evaluation, assessment and processing a notification of dangerous goods on premises as required by the *Occupational Health and Safety Act 2000* and the *Occupational Health and Safety Regulation 2001*.

This information may also be used by WorkCover for the purposes of confirming applicant details in the event replacement acknowledgements are applied for, and may also be used to establish and maintain a database and to assist the WorkCover inspectorate with their work generally. Information is also made available to local councils and emergency services assist with emergency response and planning.

Except for the purposes of prosecution and unless such disclosure is otherwise required by law, the information will not be accessed by any third parties in a way that would identify the individual without the consent of that individual.

You may also apply to WorkCover to access and correct any information WorkCover holds if that information is inaccurate, incomplete, not relevant or out of date. Applications should be made in writing to:

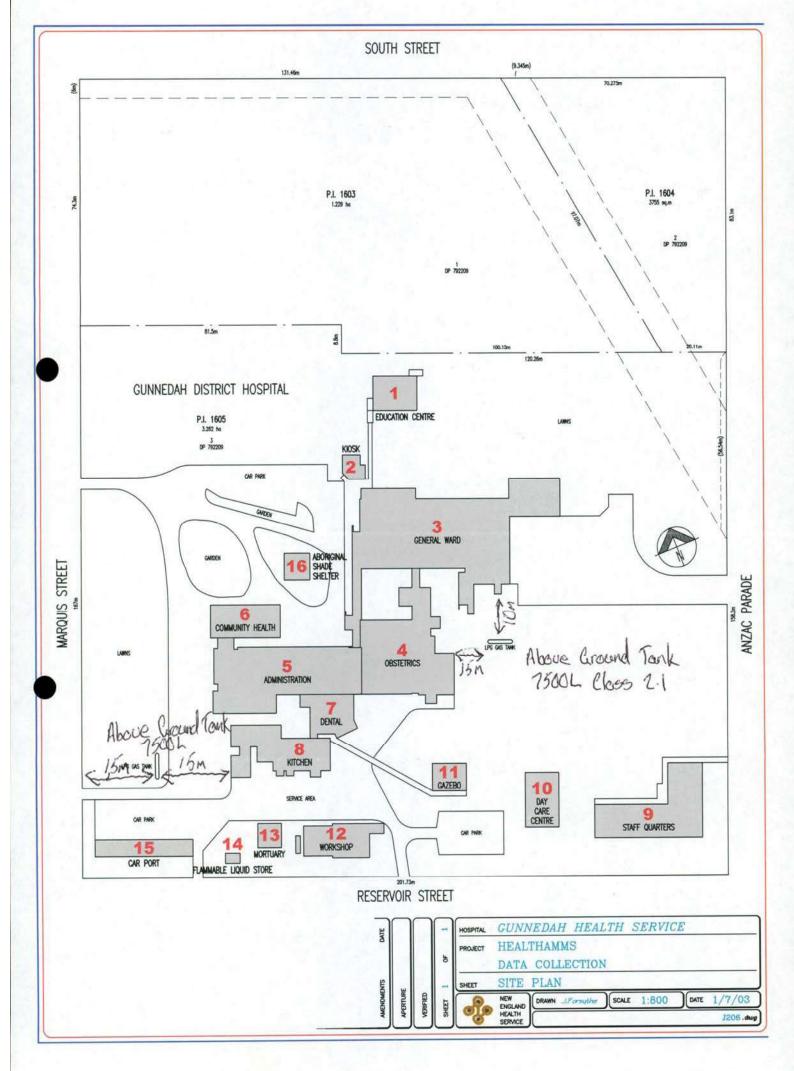
Privacy Contact Officer, WorkCover NSW Head Office Locked Bag 2906 Lisarow NSW 2252



| CONTACT FOR NOTIFICATION INQUIRIES  |
|---|
| Title: Mr / Miss / Mer / Mrs / Other (please specify) Family name   |
| Given name Todo Other names   |
| Business phone 674,604 Business fax nymber  |
| Business phone 514,604 Business fax number  Business email address Total Southonne @ hnehealth. nsw.gov. au           |
| 3   |
| Previous Licence Number or Acknowledgement Number (if known)  |
| 35/027366   |
|   |
| Previous Occupier (if known)  |
|   |
| Site on which dangerous goods are to be kept  |
| Number Street   |
| Marquis 3   |
| Tranquis A  |
| Suburb/Town/Locality Postcode   |
| Gunnedan 2360   |
| Nearest cross Street  |
|   |
| Reservior St  |
| Lot and DP if no street number  |
| L2-L3 OP 791209   |
| Is the site staffed? If yes state number of employees (OO   |
|   |
| Site staffing: Hours per day 24 Days per week 7   |
| Site Emergency Contact  |
| Phone number Name   |
| ()0429co2168 Tood Southorne   |
|   |
| Nature of site (eg petrol station, warehouse etc)   |
| Hospital  |
| Nature of primary business activity   |
| Health  |
|   |
| ABN Number (if any)  Website details (if any)   |
| 145008A-1605  |
| What is the ANSZIC code most applicable to your business? (see guide for list of codes and further information)       |
| Code Description  |
| 461 HOSPITA   |
| 100piral  |
| Attach a site sketch(s) of the premises. Refer to the Guide GDG01 for information on the requirements for the site    |
| sketch.   |
| Attach a legible photocopy page from a local Street Directory or other map showing the locality of the premises. Mark |

the location of the premises with an X.





## NOTIFICATION OF DANGEROUS GOODS ON PREMISES FORM

List the dangerous goods that will be stored and/or processed on these premises (refer to Guide GDG01). Copy this page and attach additional sheets if there is insufficient space.

| Depot No   | Type of storage location | or pro                    | cess, C            | lass       | Maximum Storag | ge Capacity     | (L, kg)        |                  |
|------------|--------------------------|---------------------------|--------------------|------------|----------------|-----------------|----------------|------------------|
| 1          | Above oroun              | d to                      | 301K               |            | 7500           | L               |                |                  |
| UN Number  | Proper Shipping Name     | Class                     | PG                 | Product or | Common Name    | HazChem         | Typical        | Unit             |
| 1001       | 1 1/2                    | Designation of the second | (1, 11, 111)       |            |                | Code            | Qty            | eg L, kg         |
| 1015       | LPG                      | 2.1                       |                    | Liquid     | Aetrolem Gos   | 2WE             | 7500           | L                |
|            |                          |                           |                    | ,          |                |                 |                |                  |
|            |                          |                           |                    |            |                |                 |                |                  |
|            |                          |                           |                    |            |                |                 |                |                  |
|            |                          |                           |                    |            |                |                 |                |                  |
|            |                          |                           |                    |            |                |                 |                |                  |
| Depot No   | Type of storage location |                           |                    | lass       | Maximum Storag |                 | (L, kg)        |                  |
| 1          | LPC Above Cu             | ound                      | enk                |            | 75001          | _               |                |                  |
| UN Number  | Proper Shipping Name     | Class                     | PG<br>(I, II, III) | Product or | Common Name    | HazChem<br>Code | Typical<br>Qty | Unit<br>eg L, kg |
| 1015       | L PCe                    | 2.1                       |                    | Liquid     | PetrolenCo     | 3 ZWE           | 750            |                  |
| 1015       | W                        | L.,                       |                    | neguen     | 10,000,100     | / (4)           | ,54            |                  |
|            |                          |                           |                    |            |                |                 |                |                  |
|            |                          |                           |                    |            |                |                 |                |                  |
|            |                          |                           |                    |            |                |                 |                |                  |
|            |                          |                           |                    |            |                |                 |                |                  |
| Depot No   | Type of storage location | or pro                    | cess C             | lass       | Maximum Storag | ge Capacity     | (L, kg)        |                  |
|            | 71                       | •                         |                    |            |                |                 | .,             |                  |
|            |                          |                           |                    |            |                |                 |                |                  |
| UN Number  | Proper Shipping Name     | Class                     | PG<br>(I, II, III) | Product or | Common Name    | HazChem<br>Code | Typical<br>Qty | Unit<br>eg L, kg |
|            |                          |                           |                    |            |                |                 |                |                  |
|            |                          | 7                         |                    |            |                |                 |                |                  |
|            |                          |                           |                    |            |                |                 |                |                  |
|            |                          |                           |                    |            |                |                 |                |                  |
|            |                          |                           |                    |            |                |                 |                |                  |
|            |                          |                           |                    |            |                |                 | dae en vol     |                  |
| Depot No   | Type of storage location | or pro                    | cess C             | lass       | Maximum Storag | ge Capacity     | (L, kg)        |                  |
|            |                          |                           |                    |            |                |                 |                |                  |
| UN Number  | Proper Shipping Name     | Class                     | PG<br>(I, II, III) | Product or | Common Name    | HazChem<br>Code | Typical<br>Qty | Unit<br>eg L, kg |
|            |                          |                           |                    |            |                |                 |                |                  |
|            |                          |                           |                    |            |                |                 |                |                  |
|            |                          |                           |                    |            |                |                 |                |                  |
|            | /I                       |                           |                    |            |                |                 |                |                  |
|            |                          |                           |                    |            |                |                 |                |                  |
| Desert No. | Tour of showing location |                           | ^                  | lese       | Marrian Charac | Cit.            | (1 1)          |                  |
| Depot No   | Type of storage location | or pro                    | cess C             | lass       | Maximum Storag | ge Capacity     | (L, Kg)        |                  |
|            |                          |                           |                    |            |                |                 |                |                  |
| UN Number  | Proper Shipping Name     | Class                     | PG<br>(I, II, III) | Product or | Common Name    | HazChem<br>Code | Typical<br>Qty | Unit<br>eg L, kg |
|            |                          |                           |                    |            |                |                 |                |                  |
|            |                          |                           |                    |            |                |                 |                |                  |
| 6.         |                          |                           |                    |            |                |                 |                |                  |
|            |                          |                           |                    |            |                |                 |                |                  |



| SITE OCCUPIER INFORMATION  | 'P - '               |
|--|----------------------|
| Name of Occupier   |                      |
| HUNTER NEW ENGLAND AREA HEALTH SERVICE   | *2112 18             |
| ABN  |                      |
| 24500842605  |                      |
| Postal Address of Occupier Suburb/Town   | Postcode             |
| P.O BOX 243 GUNNEDAH   | 2380                 |
| Trading Name if different  |                      |
| GUNNEDAH DISTRICT HEALTH SERVICE   |                      |
| Type of business entity  |                      |
| Company Sole Trader Partnership Other please specify: HEAWTH   | SERVICE              |
| DETAILS OF PERSON MAKING NOTIFICATION  |                      |
| Title: Mr / Miss / Ms Mrs Other (please specify) Family nameYoung  |                      |
| Given name CAROLE Other names LYNN   |                      |
| Relationship to occupier (eg director, employee etc) MANAGER   |                      |
| DECLARATION CONTRACTOR PROPERTY PROPERTY AND ADMINISTRAL PROPERTY AND ADMINISTRATION ADMINISTRATION AND ADMINISTRATION ADMINISTRAL PROPERTY AND ADMINISTRATION ADMINISTRATION ADMINISTRATION ADMINISTRATION ADMINISTRATION ADMINISTRATION ADMINISTRATION ADMINISTRATION ADMINISTRATION ADMINISTRATION ADMINISTRATION ADMINISTRATION ADMINISTRATION ADMINISTRATION ADMINISTRATION ADMINISTRAL PROPERTY AND ADMINISTRATION AD | 1 28 11              |
| I (print your name in BLOCK LETTERS) CAROLE YOUNG Phone number   | 167418000            |
| of (print your home address) 14 EWINE ST GUNNEDAH Postcool   | le 2380              |
| hereby declare that:   |                      |
| I am 18 years of age, or over  |                      |
| <ul> <li>The information contained in this notification is true and correct in every particular</li> </ul>   |                      |
| I am authorised to complete this notification and make this declaration on behalf of the occupier  |                      |
| <ul> <li>I am aware that it is an offence under clause 356 of the Occupational Health and Safety Regulation any information or produce any documentation in a notification that I know is false or misleading in particular.</li> </ul>  |                      |
| Signature of person making this declaration Date _   | 27.5.08.             |
| PAYMENT OF NOTIFICATION FEE  |                      |
| Enclose a cheque or money order with the notification (do not send cash), pay over the counter by cast card, or fill in the credit card details below for the amount of \$100.   | sh, cheque or credit |
| Please charge my Bankcard MasterCard Visa  |                      |
| Card No: Card expiry date: / /   |                      |
| Cardholders name: Cardholders signature:   |                      |
| Payment details: Amount Paid: \$ Date of payment   |                      |
| OFFICE USE ONLY  |                      |
| Receipt Number Date/ Amount \$   |                      |
|  |                      |
| Name of Australia Post Checking Officer  | -                    |
| Signature Date   |                      |
| Name of Post office/agency   |                      |
| Australia Post Disclaimer  |                      |
| Australia Post is acting as an agent for WorkCover to identify you under the requirements set out by Occupational Health and Safety Act 2000.  Your notification will be forwarded to WorkCover.  WorkCover.  All correspondence in notification must be WorkCover.  |                      |

| Site address: More New E                   | St               | 1100       |                        | 35/027366                   |
|--|------------------|------------|------------------------|-----------------------------|
| TYPE OF APPLICATION:                       | 7717             |            |                        |                             |
| RE-NOTIFICATION                            |                  |            | FEE PAI                | D VERIFIED                  |
| NEW  | AME              | ENDMANT    | (NO FEE PAYABLI        |                             |
| TRANSFER                                   |                  |            | REFER TO HAZ AC        | Tutte                       |
|  | YES              | NO         |                        |                             |
| NOTIFICATION CHECKLIST                     | TES /            |            |                        |                             |
| ASIC /ABN search done to confirm name      |                  |            |                        |                             |
| SCID organisation fields updated           |                  |            |                        |                             |
| Manifest provided                          |                  |            | 110                    |                             |
| Depots Updated                             |                  | VN         | IA YES                 | NOT REQ VERIFIEI            |
| Sketch provided                            |                  |            | Scanned                | □ Naa                       |
| ocality map provided Signature Signature   |                  |            | Mapped                 |                             |
| EXPIRY DATE RESET                          | YES              | NO         |                        |                             |
| Re-notification for additional 12 Months   |                  |            |                        |                             |
| Reset due to Common Expiry Date in Use     |                  |            | Common Expiry Da       | nte://                      |
| PERIOD OF NON NOTIFICATION                 |                  |            |                        |                             |
| Old Exp Date: 22 3/07 Applicati            | ion Received D   | ate: 18/0  | 0 107 New Exp          | Date: 18, 6, 00.            |
| (This notification was not curre           | ent from date of | old expiry | to date of new applica | ation received)             |
| APPLICATION FINALISED                      | YES              | NO         | LETTER SENT            |                             |
| Acknowledgment printed                     | 1                |            |                        | PROCESSED BY<br>Naomi James |
| Closure (Declaration A)                    |                  |            |                        | Naomi James                 |
| Notification not required (Below Manifest) |                  |            |                        | Nació                       |
| More Info Required (See Notes below)       |                  |            |                        | Date 4 7 7 07               |
| viole into required (see rioles sellon)    |                  |            |                        |                             |
| MORE INFORMATION REQUIRED/NOTI             | ES:              |            |                        | HERE WAS                    |
|  |                  |            | I I I WES              |                             |
|  |                  |            |                        |                             |

| OTIFICATION OF DANGEROUS GOODS ON PREMISES FORM   | FDG01                            |
|---|----------------------------------|
| CONTACT FOR NOTIFICATION INQUIRIES  |                                  |
| Title: Mr / Miss / Miss / Other (please specify) Family name  | herne.                           |
| Siven name 102/1 Other names  | -                                |
| Business phone O7 C1419041 Business fax number CBusiness email address Took Southerne & Melker H. 1 | 130.901.au.                      |
|   | 7                                |
| Previous Licence Number or Acknowledgeme nt Number (if known)                                       |                                  |
| 351027366   |                                  |
| Previous Occupier (if known)  |                                  |
|   |                                  |
| lite on which dangerous goods are to be kept  |                                  |
| Number Street   |                                  |
| Marquis St  |                                  |
| Suburb/Town/Loca lity   | Postcode                         |
| Chinedah  | 2350                             |
| learest cross Street  |                                  |
| Reservier St  |                                  |
| ot and DP if no street number   |                                  |
| 12-13 08792209  |                                  |
| s the site staffed? If yes state number of employees  |                                  |
| site staffing. Hours per day 24 Days per week 7   |                                  |
| lite Emergency Contact  |                                  |
| Phone number Name   |                                  |
| 10429002768 Todd Douthorne  |                                  |
| lature of site (eg petrol station, warehouse etc)   |                                  |
| Hospital  |                                  |
| lature of primary business activity   |                                  |
| Health  |                                  |
| BN Number (if any) Website details (if any)   |                                  |
| 29500342605   |                                  |
| What is the ANSZIC code most applicable to your business? (see guide for list of codes              | and further information)         |
| ode Description   |                                  |
| 961 Hospital  |                                  |
| Nttach a site sketch(s) of the premises. Refer to the Guide GDG01 for information on taketch.       | the requirements for the site    |
| Attach a legible photocopy page from a local Street Directory or other map showing th               | e locality of the premises. Mark |
| he location of the premises with an X.  |                                  |

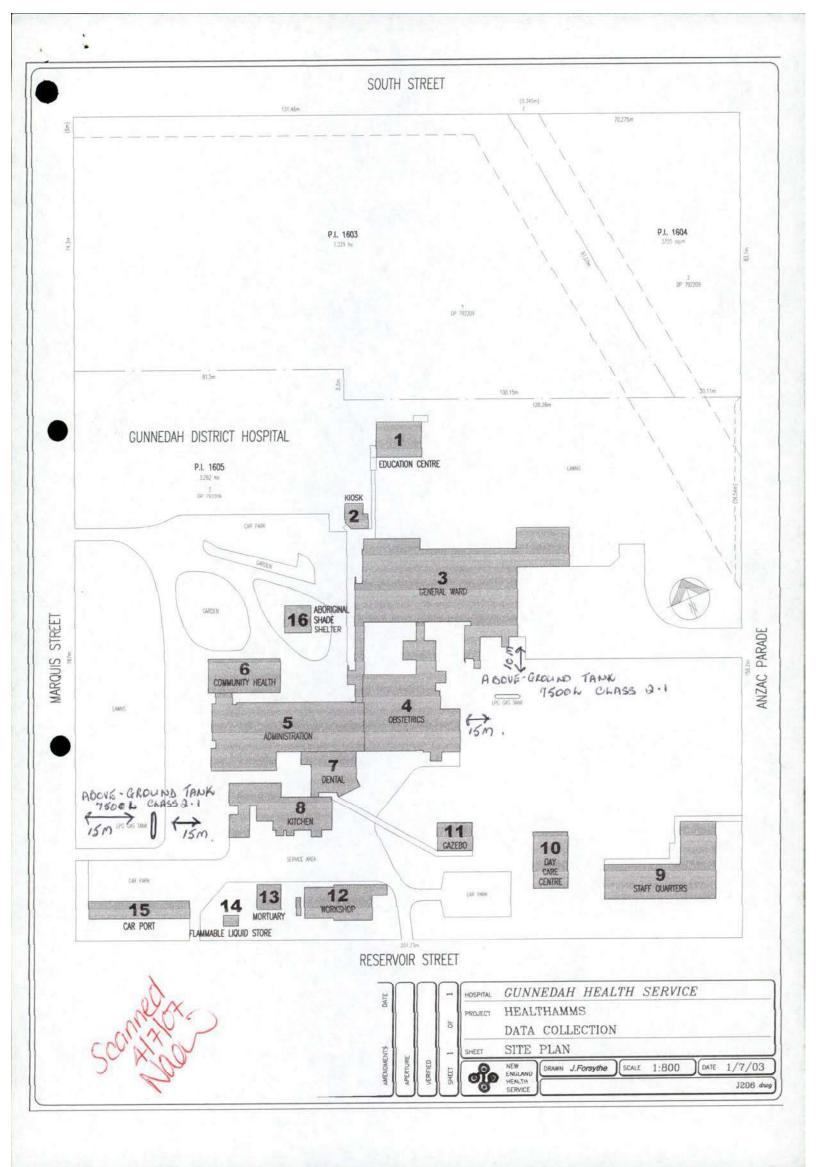
NOTIFICATION OF DANGEROUS GOODS ON PREMISES FORM

FDG01

List the dangerous goods that will be stored and/or processed on these premises (refer to Guide GDG01). Copy this page

and attach additional sheets if there is insufficient space. Maximum Storage Capacity (L, kg) Type of storage location, or process Above governd Jank HazChem Typical Code Qty Unit eg L, kg UN Number  $\mbox{ Proper Shipping Name } \mbox{ Class } \mbox{ PG}_{\{I,\;II,\;III\}} \mbox{ Product or Common Name}$ Liquid Paterlan 2.11 MA 200 Type of storage location or process

Above glowny Tonk HazChern Typical Unit Code Oty eg L UN Number Proper Shipping Name Class PG (I, II, III) Product or Common Name eg L, kg 21 A/A Type of storage location or process Class Maximum Storage Capacity (L, kg) Depot No PG (I, II, III) Product or Common Name UN Number Proper Shipping Name Code eg L, kg Maximum Storage Capacity (L, kg) Type of storage location or process Class PG (I, II, III) Product or Common Name UN Number Proper Shipping Name Maximum Storage Capacity (L, kg) Type of storage location or process UN Number Proper Shipping Name Class PG (I, II, III) Product or Common Name HazChem Typical Unit Qty eg L, kg



|  |  |                   |  | 10  |                      |
|--|--|-------------------|--|---|----------------------|
|  |  |                   | 1  | EX LX   |                      |
| OTIFICATION OF DANG  | EROUS GOODS C  | N PREMISE         | S FORM   | 12 01/10  | FDG01                |
|  |  | 1                 | tan ves  | W. Colo   | 1) 206               |
| SITE OCCUPIER INFO   | RMATION  | 1/10              | 100° 6   | " NK  | A LAA                |
| Name of Occupier   |  | 1                 | Ke Clo   | 1   | The same of          |
| MUNTER NEN   | ENGLAND 1  | FEALTH.           |  |   |                      |
| Postal Address of Occupier   | - Joopen - J   | /                 | Suburb/Town  |   | Postcode             |
| P.D BOX 243  | /  |                   | GUNG   | FIROSE  | 2380                 |
| rading Name if different   |  |                   |  |   |                      |
|  | HOTRICA HE   | ALTIX .           | SERVICE  |   |                      |
| Type of business entity  |  |                   |  |   |                      |
| Company Sale Trade   | er Partnershi  | ip 🗌 c            | Other of please  | specify: HEAT                                     | JH DERVICE           |
| DETAILS OF PERSON  |  |                   |  |   |                      |
| Title: Mr / Miss / Ms / Mrs) Given name <u>CAROL</u> Relationship to occupier (eg  | Other (please specify)   | 1                 | Family name  | YOUNG   |                      |
| Given name CAROL   | K  | Other na          | mes  | NN.   |                      |
| Relationship to occupier (eg   | director, employee et  | c) HF             | CANTH S  | ERVICE M  | ANAGEN               |
| DECLARATION  |  |                   |  |   |                      |
| /print your name in BLOCK  | LETTERS CAL  | 016               | 1 punca  | Phone number                                      | 02 67418e            |
| (print your name in BLOCK<br>f (print your home address)   | IN EWIN  | G ST              | GUNNI  | EDAY Postco                                       | te 2320              |
| ereby declare that:  | 17   |                   | 91 011   |   |                      |
| lam 18 years of age, or  | over   |                   |  |   |                      |
| The information contained  | in this notification is  | true and corn     | ect in every particu   | lar   |                      |
| I am authorised to comple  |  |                   |  |   |                      |
| I am aware that it is an o   | ffence under clause 3  | 56 of the Occ     | upational Health a   | nd Safety Regulation                              | n 2001 to provide    |
| any information or produc  | ce any documentation   | in a notification | on that I know is fa   | lse or misleading in                              | a material           |
| particular.  |  | 0                 |  | /   | , ,                  |
| Signature of person making t   | this declaration   | bu                | purg   | Date  | 14.6.00              |
|  |  | /                 | 1  |   |                      |
| PAYMENT OF NOTIFIC   |  | tion (do not o    | and cash) nav aus  | the counter by ca                                 | sh cheque or credit  |
|  |  | alon (do not s    | 100.   | the counter by on                                 | ar, crioque or cream |
| Enclose a cheque or money  | details below for the  | e amount of 5     |  |   |                      |
| ard, or fill in the credit card  | didetalls below for the  |                   | 14   |   |                      |
| ard, or <b>fill in the credit card</b><br>Please charge my   | d details below for the<br>sankcard Maste  | arCard            | Visa   |   |                      |
| ard, or <b>fill in the credit card</b><br>Rease charge my  | didetails below for the  | arCard            | Card expiry date: _  |   |                      |
| ard, or fill in the credit card<br>Rease charge my Bard No:  | didetails below for the  | arCard            |  |   |                      |
| ard, or fill in the credit card Rease charge my B  Bard No: Cardholders name:  | didetails below for the  | er Card           | Card expiry date: _  |   | page for taxation    |
| ard, or fill in the credit card Please charge my B and No.  Cardholder's name:  This document is a tax invol   | didetails below for the  | er Card           | Card expiry date: _<br>olders signature: _<br>is effected - RET.         | AIN A COPY of this                                | page for taxation    |
| ard, or fill in the credit card Please charge my B Dard No. Dardholder's name: This document is a tax invol  | didetails below for the  | card Cardho       | Card expiry date: _  | AIN A COPY of this                                | page for taxation    |
| ard, or fill in the credit card Please charge my B and No.  Bardholder's name:  This document is a tax involumposes.   | d details below for the sankcard Master Mast | card Cardho       | Card expiry date: _<br>olders signature: _<br>is effected - RET.         | AIN A COPY of this                                |                      |
| Please charge my Board No.  Card No.  Cardholders name:  Chris document is a tax involumposes.   | d details below for the sankcard Master Mast | card Cardho       | Card expiry date: _<br>olders signature: _<br>is effected - RET.         | AN A COPY of this                                 |                      |
| Please charge my Board No.  Card No.  Cardholder's name:  Chris document is a tax involumposes.  | d details below for the sankcard Masterian Masterian Masterian Masterian Masterian Masterian Masterian Masterian Masterian Masterian Masterian Masterian Masterian Masterian Masterian Masterian Masterian Masterian Masteria  | crCard Cardho     | Card expiry date _ Iders signature: _ Is effected - RET.  ABN 77 682 74  | AN A COPY of this                                 |                      |
| Please charge my Board No:  Card No:  Cardholder's name:  Cardhold | d details below for the lankcard Maste   | crcard Cardho     | Card expiry date: _ Iders signature: _ Is effected - RET.  ABN 77 682 74 | AN A COPY of this<br>2 966<br>Date of payment     |                      |
| Pared, or fill in the credit card Please charge my B Pard No: Cardholder's name: Cardhold | details below for the lankcard Masterian Maste | crcard Cardho     | Card expiry date: _ iders signature: _ is effected - RET.  ABN 77 682 74 | AN A COPY of this 2 966 Date of payment Amount \$ |                      |
| ard, or fill in the credit card Please charge my B  Bard No: Cardholder's name: Chis document is a tax involutionates.  Payment details: Amount Pa  OFFICE USE ONLY  Receipt Number  Name of Australia Post Onec   | didetalls below for the sankcard Master Mast | card Cardho       | Card expiry date _ Iders signature: Is effected - RET.  ABN 77 682 74    | AN A COPY of this 2 966 Date of payment Amount \$ |                      |
| Card No: Cardholder's name: This document is a tax involutional purposes.  Payment details: Amount Payment detail              | didetalls below for the sankcard Master Mast | card Cardho       | Card expiry date _ Iders signature: Is effected - RET.  ABN 77 682 74    | AN A COPY of this 2 966 Date of payment Amount \$ |                      |

Payment stamp on seperate form. 4/7/07.

# NOTIFICATION

OF DANGEROUS GOODS ON PREMISES FORM

#### EXPLANATORY NOTES AND FORM CHECKLIST

This form is used to notify WorkCover of dangerous goods stored on premises. This form is to be completed in conjunction with the Guide - Notification of Dangerous Goods on Premises (GDG01). Notification is a requirement of the Occupational Health and Safety Regulation 2001.

Persons who wish to handle explosives or security sensitive dangerous substances need to obtain a licence under the Explosives Regulation 2005. See the WorkCover website www.workcover.nsw.gov.au or call 13 10 50 for information about explosives licensing.

#### LODGMENT INSTRUCTIONS

- 1. You must complete all sections of this form.
- 2. You may lodge your notification with Australia Post or with Workcover NSW at Locked Bag 2906 Lisarow NSW 2252.
- 3. You must sign and date this notification by completing the declaration on the last page.
- 4. Payment of the notification fee must accompany this form.

Note: No proof of identity check is required for this notification.



#### NOTIFICATION CHECKLIST

| Please tick the appropriate box to ensure that your notification is complete a | nd secure prior to submission to Australia |
|--|--|
| Post or WorkCover  | Notifer Use Only                           |
| Notification Form (this form) Completed and Signed                             |  |
| Site Statebia) only AA size is accontable.                                     |  |

Site Sketch(s) – only A4 size is acceptable

· Photocopy from street directory or map showing locality

Non-refundable fee \$100

#### PRIVACY COMPLIANCE STATEMENT

This information is collected by WorkCover New South Wales ('WorkCover') for the purposes of undertaking an evaluation, assessment and processing a notification of dangerous goods on premises as required by the Occupational Health and Safety Act 2000 and the Occupational Health and Safety Regulation 2001.

This information may also be used by WorkCover for the purposes of confirming applicant details in the event replacement acknowledgements are applied for, and may also be used to establish and maintain a database and to assist the WorkCover inspectorate with their work generally. Information is also made available to local councils and emergency services assist with emergency response and planning.

Except for the purposes of prosecution and unless such disclosure is otherwise required by law, the information will not be accessed by any third parties in a way that would identify the individual without the consent of that individual.

You may also apply to WorkCover to access and correct any information WorkCover holds if that information is inaccurate, incomplete, not relevant or out of date. Applications should be made in writing to:

Privacy Contact Officer, WorkCover NSW Head Office Locked Bag 2906 Lisarow NSW 2252

| Given name                          | er (please specify) Family name Other names  |
|-------------------------------------|--|
|                                     | Business fax number  |
|                                     |  |
|                                     |  |
| Previous Licence Number or Ack      | nowledgement Number (if known)   |
| 35/                                 |  |
| Provious Occupies (if Impum)        | \$ 100.00  |
| Previous Occupier (if known)        | \$ 100.00<br>Date 18-6-0<br>Rec No 50322   |
|                                     | Rec № 50322  |
| Site on which dangerous goods a     | are to be kept   |
| Number Street                       |  |
|                                     |  |
| 1.17                                |  |
| Suburb/Town/Locality                | Postcode   |
|                                     |  |
| Nearest cross Street                |  |
|                                     |  |
|                                     |  |
| ot and DP if no street number       |  |
|                                     |  |
| s the site staffed? If was state no | umber of employees   |
|                                     |  |
| Site staffing: Hours per day        | Days per week  |
| Site Emergency Contact              |  |
| Phone number                        | Name   |
| ( )                                 |  |
|                                     |  |
| Nature of site (eg petrol station,  | warehouse etc)   |
|                                     |  |
| Nature of primary business activi   | itv  |
|                                     |  |
|                                     |  |
| ABN Number (if any)                 | Website details (if any)   |
|                                     |  |
|                                     |  |
| AULT - IL ANIOZIO                   |  |
|                                     | applicable to your business? (see guide for list of codes and further information) |
|                                     |  |
|                                     |  |
| Code Descript                       | tion   |
| Code Descript                       |  |

List the dangerous goods that will be stored and/or processed on these premises (refer to Guide GDG01). Copy this page and attach additional sheets if there is insufficient space.

| Depot No         | Type of storage location | or pro   | cess C             | lass       | Maximum Stora    | ge Capacity     | (L, kg)        |                  |
|------------------|--------------------------|----------|--------------------|------------|------------------|-----------------|----------------|------------------|
|                  |                          |          |                    |            |                  |                 |                |                  |
| UN Number        | Proper Shipping Name     | Class    | PG<br>(I, II, III) | Product or | Common Name      | HazChem<br>Code | Typical<br>Qty | Unit<br>eg L, kg |
|                  |                          |          |                    |            |                  |                 |                |                  |
|                  |                          |          |                    |            |                  | 2               |                |                  |
|                  |                          |          |                    |            |                  |                 |                |                  |
|                  |                          |          |                    |            |                  |                 |                |                  |
|                  |                          |          |                    |            |                  |                 |                |                  |
| Depot No         | Type of storage location | or pro   | 2201               | lass       | Maximum Stora    | ge Canacity     | (I kg)         |                  |
| Depot No         | Type of storage location | i oi pio | 0033               | 1033       | Waxiiiaiii Stora | ge capacity     | (L, N6)        |                  |
|                  |                          |          |                    |            |                  |                 |                |                  |
| UN Number        | Proper Shipping Name     | Class    | PG<br>(I, II, III) | Product or | Common Name      | HazChem<br>Code | Typical<br>Qty | Unit<br>eg L, kg |
|                  |                          |          |                    |            |                  |                 |                | 25.6             |
|                  |                          |          |                    |            |                  |                 |                |                  |
|                  |                          |          |                    |            |                  |                 |                |                  |
|                  |                          |          |                    |            |                  |                 |                |                  |
|                  |                          |          |                    |            |                  |                 |                |                  |
| Depot No         | Type of storage location | or pro   | cess C             | lass       | Maximum Stora    | ge Capacity     | (L, kg)        |                  |
|                  |                          |          |                    |            |                  |                 |                |                  |
|                  |                          |          |                    | ,          |                  |                 |                |                  |
| UN Number        | Proper Shipping Name     | Class    | PG<br>(I, II, III) | Product or | Common Name      | HazChem<br>Code | Typical<br>Qty | Unit<br>eg L, kg |
|                  |                          |          |                    |            |                  | 76              |                |                  |
|                  |                          |          |                    |            |                  |                 |                |                  |
|                  |                          |          |                    |            |                  |                 |                |                  |
|                  |                          |          |                    |            |                  |                 |                |                  |
|                  |                          |          |                    |            |                  |                 |                |                  |
| Depot No         | Type of storage location | or pro   | cess C             | lass       | Maximum Stora    | ge Capacity     | (L, kg)        |                  |
|                  |                          |          |                    |            |                  |                 |                |                  |
| UN Number        | Proper Shipping Name     | Class    | PG<br>(I, II, III) | Product or | Common Name      | HazChem<br>Code | Typical<br>Qty | Unit<br>eg L, kg |
|                  |                          |          | 65.11              |            |                  |                 |                |                  |
|                  |                          |          |                    |            |                  |                 |                |                  |
|                  |                          |          |                    |            |                  |                 |                |                  |
|                  |                          |          |                    |            |                  |                 |                |                  |
|                  |                          |          |                    |            |                  |                 |                |                  |
| Depot No         | Type of storage location | or pro   | cess C             | lass       | Maximum Stora    | ge Capacity     | (L, kg)        |                  |
| SC 4 157 8 157 8 |                          |          |                    |            |                  |                 |                |                  |
| UN Number        | Proper Shipping Name     | Class    | PG<br>(I, II, III) | Product or | Common Name      | HazChem<br>Code | Typical<br>Qty | Unit<br>eg L, kg |
|                  |                          |          | 74 534 554         |            |                  |                 |                |                  |
|                  |                          |          |                    |            |                  |                 |                |                  |
|                  |                          |          | The t              |            |                  |                 |                |                  |
|                  |                          |          |                    |            | I                |                 |                |                  |

# () POST

| SITE OCCUPIER INFORMATION   |   |  |
|---|---|--|
| Name of Occupier  |   |  |
| Postal Address of Occupier  | Suburb/Town                                     | Postcode   |
| Trading Name if different   |   |  |
| Type of business entity  Company Sole Trader Partr  | nership Other please spe                        | ecify:   |
| DETAILS OF PERSON MAKING NO   | TIFICATION                                      |  |
| Title: Mr / Miss / Ms / Mrs / Other (please sp<br>Given name<br>Relationship to occupier (eg director, employ   | Other names                                     |  |
| DECLARATION   |   |  |
| I (print your name in BLOCK LETTERS) of (print your home address)   |   |  |
| hereby declare that:  • I am 18 years of age, or over   |   |  |
| The information contained in this notificat   | Section 19 19 Television 20 At 19 20 Television |  |
| <ul> <li>I am authorised to complete this notificati</li> <li>I am aware that it is an offence under clarany information or produce any document particular.</li> </ul> | use 356 of the Occupational Health and          | Safety Regulation 2001 to provide  |
| Signature of person making this declaration _   | 3   | Date   |
| PAYMENT OF NOTIFICATION FEE  Enclose a cheque or money order with the not card, or fill in the credit card details below for the please charge my  Bankcard             | or the amount of \$100.                         | the counter by cash, cheque or credit  |
| Card No:  | Card expiry date:                               | //   |
| Cardholders name:   |   |  |
| This document is a tax invoice for GST purp purposes.  WorkCover I  |   |  |
| Payment details: Amount Paid: \$  | D:  | ate of payment//   |
| OFFICE USE ONLY   |   |  |
| Receipt Number  | / Date//  | Amount \$  |
| Name of Australia Post Checking Officer   | ghanning of the                                 | <u> </u>   |
| Signature   | Date  |  |
| Name of Post office/agency  |   |  |
| Australia Post Disclaimer  Australia Post is acting as an agent for WorkCover to ider you under the requirements set out by Occupational Heal and Safety Act 2000.      |   | All correspondence in respect of this notification must be addressed to WorkCover. |

Catalogue No. 896 WorkCover Publications Hotline 1300 799 003



# CLOSED FILE 2007

Occupier: GUNNEDAH DISTRICT HEALTH SERVICE

Site:

MARQUIS ST, GUNNEDAH 2380

WorkCover. Watching out for you.

WorkCover NSW ABN 77 682 742 966 92-100 Donnison Street Gosford NSW 2250 Locked Bag 2906 Lisarow NSW 2252 Telephone 02 4321 5000 Facsimile 02 4325 4145 WorkCover Assistance Service 13 10 50 DX 731 Sydney Website www.workcover.nsw.gov.au

| WORKCOVER<br>NEW SOUTH WALES                                  | 8+      |          |                                       | Notification Number: |
|---|---------|----------|---------------------------------------|----------------------|
| Site address: Margues  Cumpeclach                             | 101     | 380      |                                       | 35/027366            |
| 7 5/1/5   | . ~ ~ ( |          |                                       |                      |
| TYPE OF APPLICATION:  |         |          |                                       |                      |
| RE-NOTIFICATION   |         |          | FEE PAID                              | VERIFIE              |
| NEW   | AM      | IENDMAN  | T (NO FEE PAYABLE                     | ) _                  |
| TRANSFER  | EX      | PLOSIVES | (REFER TO HAZ ACT                     | r)                   |
| NOTIFICATION CHECKLIST  | YES     | NO       |                                       |                      |
| ASIC /ABN search done to confirm name                         |         |          |                                       |                      |
| SCID organisation fields updated                              |         |          |                                       |                      |
| Manifest provided   |         |          |                                       |                      |
| Depots Updated  |         |          | YES                                   | NOT REQ VERIFIE      |
| Sketch provided   |         |          | Scanned                               |                      |
| Locality map provided   |         |          | Mapped                                |                      |
| EXPIRY DATE RESET   | YES     | NO       |                                       |                      |
| Re-notification for additional 12 Months                      |         |          |                                       |                      |
| Reset due to Common Expiry Date in Use                        |         |          | Common Expiry Dat                     | e://                 |
| PERIOD OF NON NOTIFICATION                                    |         |          |                                       |                      |
| Old Exp Date:// Applicatio  (This notification was not curren |         |          | / New Exp I y to date of new applicat |                      |
| APPLICATION FINALISED   | YES     | NO       | LETTER SENT                           |                      |
| cknowledgment printed   |         |          |                                       | PROCESSED BY         |
| Closure (Declaration A)                                       | V       |          |                                       | D SMIT               |
| Notification not required (Below Manifest)                    |         |          |                                       | 7                    |
| More Info Required (See Notes below)                          |         |          |                                       | Date 2/4/07          |
|   |         |          |                                       |                      |

DGchecklist.DS 0207



#### Your completed declaration (where applicable) is to be returned to:

WorkCover NSW
Dangerous Goods Notification Team
LOCKED BAG 2906 LISAROW NSW 2252

OR FAXED TO 02 9287 5500

#### DECLARATION A

| To be completed where notifiable amounts of Dangerous Goods are not stored or handled.  |
|---|
| I CAROMA TOUNG (name), of MARQUIS ST, GUNNEDAH (address) declare that I do not store and handle Dangerous Goods at premises 35/027366, site MARQUIS ST, GUNNEDAH 2380 in quantities that exceed or are likely to exceed the manifest quantity in the Table to Schedule 5 of the Occupational Health and Safety Regulation 2001. |
| Signature  30.3.06. Date  |
| DECLARATION B   |
| declare that I only store and handle either Class 1 Dangerous Goods or Security Sensitive Dangerous Substances, or both, at premises 35/027366, at site MARQUIS ST, GUNNEDAH 2380 and there has been no change to the quantities stored or handled as previously notified to WorkCover.   |
| Signature   |
|   |

WorkCover. Watching out for you.

WorkCover NSW ABN 77 682 742 966 92-100 Donnison Street Gosford NSW 2250 Locked Bag 2906 Lisarow NSW 2252 Telephone 02 4321 5000 Facsimile 02 4325 4145 WorkCover Assistance Service 13 10 50 DX 731 Sydney Website www.workcover.nsw.gov.au



NSW Occupational Health and Safety Act 2000 • NSW Occupational Health and Safety Regulation 2001

ABN 77 682 742 966

FDG01 August 2005

# **NOTIFICATION**

OF DANGEROUS GOODS ON PREMISES FORM

#### **EXPLANATORY NOTES AND FORM CHECKLIST**

This form is used to notify WorkCover of dangerous goods stored on premises. This form is to be completed in conjunction with the Guide – Notification of Dangerous Goods on Premises. Notification is a requirement of the Occupational Health and Safety Regulation 2001.

Persons who wish to handle explosives or security sensitive dangerous substances need to obtain a licence under the Explosives Regulation. See the WorkCover website www.workcover.nsw.gov.au or call 13 10 50 for information about explosives licensing.

#### LODGMENT INSTRUCTIONS

- 1. You must complete all sections of this form.
- 2. You may lodge your application with Australia Post or with Workcover NSW
- 3. You must sign and date this application by completing the declarations on the last page
- 4. Payment of the prescribed fee must accompany this form.

RECEIVED SERVICE CENTRE

- 8 MAY 2006

NEW BERCHALL

#### APPLICATION CHECKLIST

Please tick the appropriate box to ensure that your application is complete and secure prior to submission to Australia Post or WorkCover

Applicant Use Only

- Application Form (this form) Completed and Signed
- · Site Sketch
- · Photocopy from street directory or map showing locality
- Non-refundable fee \$100

# NNN

#### PRIVACY COMPLIANCE STATEMENT

This information is collected by WorkCover New South Wales ("WorkCover") for the purposes of undertaking an evaluation, assessment and processing a notification of dangerous goods on premises as required by the Occupational Health and Safety Act 2001 and the Occupational Health and Safety Regulation 2001.

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Except for the purposes of prosecution and unless such disclosure is otherwise required by law, the information will not be accessed by any third parties in a way that would identify the individual without the consent of that individual.

You may also apply to WorkCover to access and correct any information WorkCover holds if that information is inaccurate, incomplete, not relevant or out of date. Applications should be made in writing to:

Privacy Contact Officer, WorkCover NSW Head Office, Locked Bag 2906, Lisarow NSW 2252

|                         | OR NOTIFICATION INQUIRIES  |
|-------------------------|--|
| Title: Mr / Miss        | / Ms //Mrs// Other (please specify) Family name Young  |
| Given name              | CAROLE Other names LYNN  |
| Gender Male ( f         | emale)(please circle) Date of birth 30/12/51 Place of birth STANMORE NSW   |
| Postal address          |  |
| Suburb                  | GUNNEDAU State NSW Postcode 2380   |
|                         | 02 67 N18000 Business fax number 67402881  |
| Business email          | address <u>canole</u> young@hnehealth.nsw.gov.au   |
|                         | 0 0  |
| Previous Licence        | e Number or Acknowledgement Number (if known)  |
| 35/02736                | 6  |
| Previous Occupi         | er (if known)  |
|                         | e. 9-5-  |
| NIA                     | Noc. No45.4  |
| Site on which d         | angerous goods are to be kept  |
| Number                  | Street 10 notwing  |
|                         | MARQUIS STREET Gunnedah. NSW 2380  |
|                         | THE TABLE  |
| Nearest cross St        | The Country of the Co |
| RESER                   | NOIR STREET GUNNEDALL NSW 2380   |
| Lot and DP if no        | o street number  |
| 2 £3 160                |  |
|                         |  |
| Is the site staffe      | rd? If yes state number of employees   |
| Site staffing: Ho       | ours per day 24 Days per week 7  |
| Site Emergency          | Contact  |
| Phone number            |  |
| ( ) CALGO               |  |
| OFCIC                   | OCTOD GOU TOWNOTTE   |
| Nature of site (e       | eg petrol station, warehouse etc)  |
| HOSPI                   | ITAL   |
|                         |  |
| 500                     | primary business activity  |
|                         |  |
|                         | H CARE- ACUTE & COMMUNITY  |
| HEALT                   |  |
| HEACT<br>ABN Number (if | f any) Website details (if any)  |
| HEACT<br>ABN Number (if | Website details (if any)  R42 605  |
| HEACT<br>ABN Number (if | f any) Website details (if any)  |
| ABN Number (if          | Website details (if any)  R42 605  |

Attach a site sketch(s) of the premises. Refer to the Guide for information on the requirements for the site sketch.

Attach a photocopy page from a local Street Directory or other map showing the locality of the premises. Mark the location of the premises with an X

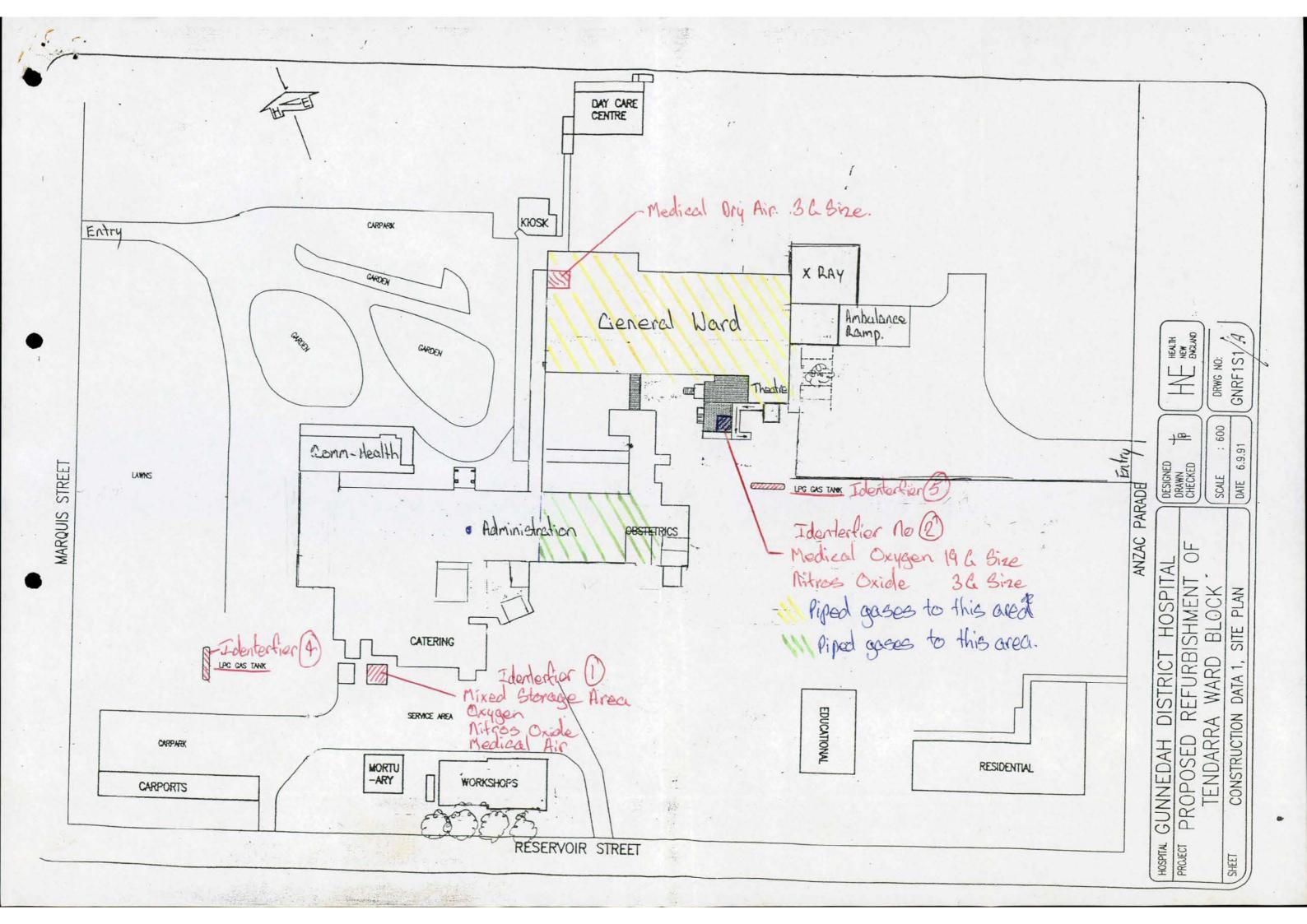
Pulalole.

| UN Number Proper Shipping Name Class PG (I, II, III) Product or Common Name Symbol Otyle eg L, kg, M' eg L, k | Identifier   | Type of storage location   | n or pro                | cess (                 | Class              | Maximum Stora  | ge Capacity   | (L, kg, N                                | $\Lambda^3$ )  | Seco   |
|--|--|--|-------------------------|------------------------|--------------------|--|---|--|--|--------|
| No Number   Proper Shipping Name   Class   (I, II, III)   Product or Common Name   Symbol   Oity   eg L, kg, M³   2100   Oity   eg L, kg, M³   2100   Oity   eg L, kg, M³   Oity   oit   | 1  | 0 11 0   | (                       | 100                    | 22:5.1             |  |   | 690                                      | 100L   | deca   |
| dentifier Type of storage location or process Class Maximum Storage Capacity (L, kg, M')    Number Proper Shipping Name Class PG (I, II, III) Product or Common Name Hazchem Typical Symbol On Process Class Maximum Storage Capacity (L, kg, M')    Number Proper Shipping Name Class PG (I, II, III) Product or Common Name Hazchem Typical Symbol On Process Class Maximum Storage Capacity (L, kg, M')    Number Proper Shipping Name Class PG (I, II, III) Product or Common Name Hazchem Typical Unit Symbol On Process Class Maximum Storage Capacity (L, kg, M')    Number Proper Shipping Name Class PG (I, II, III) Product or Common Name Hazchem Typical Unit Symbol On Process Class Maximum Storage Capacity (L, kg, M')    Number Proper Shipping Name Class PG (I, II, III) Product or Common Name Hazchem Typical Unit Symbol On On Process Class Maximum Storage Capacity (L, kg, M')    Number Proper Shipping Name Class PG (I, II, III) Product or Common Name Hazchem Typical Unit Symbol On On On On On On On On On On On On On   | JN Number  | Proper Shipping Name   | Class                   |                        | Product or         | Common Name  |   |  | Company of the Compan |        |
| dentifier Type of storage location or process  Class Maximum Storage Capacity (L, kg, M³)  Author Proper Shipping Name Class PG (I, II, III) Product or Common Name HazChem Typical Unit Symbol Class PG (I, II, III) Product or Common Name HazChem Typical Unit Symbol Class PG (I, II, III) Product or Common Name HazChem Typical Unit Symbol Class PG (I, II, III) Product or Common Name HazChem Typical Unit Symbol Class PG (I, II, III) Product or Common Name HazChem Typical Unit Symbol Class PG (I, II, III) Product or Common Name HazChem Typical Unit Symbol Class PG (I, II, III) Product or Common Name HazChem Typical Unit Symbol Class PG (I, II, III) Product or Common Name HazChem Typical Unit Symbol Class PG (I, II, III) Product or Common Name HazChem Typical Unit Symbol Class PG (I, II, III) Product or Common Name HazChem Typical Unit Symbol Class PG (I, II, III) Product or Common Name HazChem Typical Unit Symbol Class Population or process Class Maximum Storage Capacity (L, kg, M³)  Construction of the Symbol Class PG (I, II, III) Product or Common Name HazChem Typical Unit Symbol Class PG (I, II, III) Product or Common Name HazChem Typical Unit Symbol Class PG (I, II, III) Product or Common Name HazChem Typical Unit Symbol Class PG (I, II, III) Product or Common Name HazChem Typical Unit Symbol Class PG (I, II, III) Product or Common Name HazChem Typical Unit Symbol Class PG (I, II, III) Product or Common Name HazChem Typical Unit Class PG (I, II, III) Product or Common Name HazChem Typical Unit Class PG (I, II, III) Product or Common Name HazChem Typical Unit Class PG (I, II, III) Product or Common Name HazChem Typical Unit Class PG (I, II, III) Product or Common Name Proper Shipping Name Class PG (I, II, III) Product or Common Name Proper Shipping Name Class PG (I, II, III) Product or Common Name Proper Shipping Name Class PG (I, II, III) Product or Common Name Proper Shipping Name Class PG (I, II, III) Product or Common Name Proper Shipping Name Class PG (I, II, III) Product or Common Name Page Capacity (I, kg, | 1072   | Modical Oxygen   | 2251                    |                        | Medica             | Oxygen   | 25  | 6xe,0                                    | hxD, BxC   | 31,00  |
| dentifier Type of storage location or process  Class Maximum Storage Capacity (L, kg, M³)  Local Scott 1.1, III) Product or Common Name Hazchem Typical Unit Symbol Class PG (I, II, III) Product or Common Name Hazchem Typical Unit Symbol Class PG (I, II, III) Product or Common Name Hazchem Typical Unit Symbol Class PG (I, II, III) Product or Common Name Hazchem Typical Unit Symbol Class PG (I, II, III) Product or Common Name Hazchem Typical Unit Symbol Class PG (I, II, III) Product or Common Name Hazchem Typical Unit Symbol Class PG (I, II, III) Product or Common Name Hazchem Typical Unit Symbol Class PG (I, II, III) Product or Common Name Hazchem Typical Unit Symbol Class PG (I, II, III) Product or Common Name Hazchem Typical Unit Symbol Class PG (I, II, III) Product or Common Name Hazchem Typical Unit Symbol Class PG (I, II, III) Product or Common Name Hazchem Typical Unit Symbol Class PG (I, II, III) Product or Common Name Hazchem Typical Unit Symbol Class PG (I, II, III) Product or Common Name Hazchem Typical Unit Symbol Class PG (I, II, III) Product or Common Name Hazchem Typical Unit Symbol Class PG (I, II, III) Product or Common Name Hazchem Typical Unit Symbol Class PG (I, II, III) Product or Common Name Hazchem Typical Unit Symbol Class PG (I, II, III) Product or Common Name Hazchem Typical Unit Symbol Class PG (I, II, III) Product or Common Name Hazchem Typical Unit Symbol Class PG (I, II, III) Product or Common Name Hazchem Typical Unit Symbol Class PG (I, II, III) Product or Common Name Hazchem Typical Unit Class PG (I, II, III) Product or Common Name Hazchem Typical Unit Class PG (I, II, III) Product or Common Name Hazchem Typical Unit Class PG (I, II, III) Product or Common Name Hazchem Typical Unit Class PG (I, II, III) Product or Common Name Page Capacity (L, kg, M²)   | AND THE PROPERTY OF THE PARTY O |  |                         |                        | Nitros             | A 41 V   | 2R  |  | xDisal   | 17,00  |
| UN Number Proper Shipping Name Class PG (I, II, III) Product or Common Name Symbol Oty eg L, kg, M³ (III) Product or Common Name Symbol Oty eg L, kg, M³ (III) Product or Common Name Symbol Oty eg L, kg, M³ (III) Product or Common Name Symbol Oty eg L, kg, M³ (III) Product or Common Name Symbol Oty eg L, kg, M³ (III) Product or Common Name Symbol Oty eg L, kg, M³ (III) Product or Common Name Symbol Oty eg L, kg, M³ (III) Product or Common Name Symbol Oty eg L, kg, M³ (IIII) Product or Common Name Symbol Oty eg L, kg, M³ (IIII) Product or Common Name Symbol Oty eg L, kg, M³ (IIII) Product or Common Name Symbol Oty eg L, kg, M³ (IIIIII) Product or Common Name Symbol Oty eg L, kg, M³ (IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII  | 1002   | Medical Air  | 4.2                     |                        | Medie              | al Air   | 27  | 2xE                                      | 260Com L   | 10,000 |
| Number Proper Shipping Name   Class   PG   (I, II, III)   Product or Common Name   HazChem   Symbol   Qty   eg L, kg, M³   Volume   Class   Charge   Capacity   Cap   | 77   |  |                         |                        |                    |  |   |  | 1  | 1      |
| IN Number Proper Shipping Name Class PG (I, II, III) Product or Common Name Symbol Qty eg L, kg, M dentifier Type of storage location or process Class Maximum Storage Capacity (L, kg, M) IN Number Proper Shipping Name Class PG (I, II, III) Product or Common Name HazChem Symbol Qty eg L, kg, M dentifier Type of storage location or process Class Maximum Storage Capacity (L, kg, M) IN Number Proper Shipping Name Class PG (I, II, III) Product or Common Name HazChem Symbol Qty eg L, kg, M dentifier Type of storage location or process Class Maximum Storage Capacity (L, kg, M) IN Number Proper Shipping Name Class PG (I, II, III) Product or Common Name HazChem Symbol Qty eg L, kg, M dentifier Type of storage location or process Class Maximum Storage Capacity (L, kg, M) IN Number Proper Shipping Name Class PG (I, II, III) Product or Common Name HazChem Symbol Qty eg L, kg, M dentifier Type of storage location or process Class Maximum Storage Capacity (L, kg, M) IN Number Proper Shipping Name Class PG (I, II, III) Product or Common Name HazChem Symbol Qty eg L, kg, M dentifier Type of storage location or process Class Maximum Storage Capacity (L, kg, M) Unit Qty eg L, kg, M dentifier Type of storage location or process Class Maximum Storage Capacity (L, kg, M) Unit Qty eg L, kg, M dentifier Type of storage location or process Class Maximum Storage Capacity (L, kg, M) Unit Qty eg L, kg, M dentifier Type of storage location or process Class Maximum Storage Capacity (L, kg, M) Unit Qty eg L, kg, M dentifier Type of storage location or process Class Maximum Storage Capacity (L, kg, M) Unit Qty eg L, kg, M dentifier Type of storage location or process Class Maximum Storage Capacity (L, kg, M) Unit Qty eg L, kg, M dentifier Type of storage location or process Class Maximum Storage Capacity (L, kg, M) Unit Qty eg L, kg, M dentifier Type of storage location or process Class Maximum Storage Capacity (L, kg, M) Unit Qty eg L, kg, M dentifier Type of storage location or process Class Maximum Storage Capacity (L, kg, M) Unit Qty eg  |  | Type of storage location   | or pro                  |                        |                    |  |   | (L, kg, N                                | 13)  | 1      |
| dentifier Type of storage location or process    Class   Maximum Storage Capacity (L, kg, M³)    | 2  | looted 5   | ore                     | 1                      | 7,5.1              | 7140   | $\infty$  |  |  | dono   |
| dentifier Type of storage location or process  Class Maximum Storage Capacity (L, kg, M³)  JN Number Proper Shipping Name Class PG (I, II, III) Product or Common Name Symbol Qty eg L, kg, M³  JN Number Proper Shipping Name Class PG (I, II, III) Product or Common Name HazChem Typical Unit Symbol Qty eg L, kg, M³  JN Number Proper Shipping Name Class PG (I, II, III) Product or Common Name HazChem Typical Unit Symbol Qty eg L, kg, M³  JN Number Proper Shipping Name Class PG (I, II, III) Product or Common Name HazChem Typical Unit Symbol Qty eg L, kg, M³  JN Number Proper Shipping Name Class PG (I, II, III) Product or Common Name HazChem Typical Unit Symbol Qty eg L, kg, M³  JN Number Proper Shipping Name Class PG (I, II, III) Product or Common Name HazChem Typical Unit Symbol Qty eg L, kg, M³   | JN Number  | Proper Shipping Name   | Class                   | PG<br>(I, II, III)     | Product or         | Common Name  |   |  | eg L, kg, M <sup>3</sup>   |        |
| Identifier Type of storage location or process  Class Maximum Storage Capacity (L, kg, M³)  UN Number Proper Shipping Name Class PG (I, II, III) Product or Common Name Symbol Qty eg L, kg, M³  UN Number Proper Shipping Name Class PG (I, II, III) Product or Common Name HazChem Symbol Qty eg L, kg, M³  UN Number Proper Shipping Name Class PG (I, II, III) Product or Common Name HazChem Typical Unit Symbol Qty eg L, kg, M³  UN Number Proper Shipping Name Class PG (I, II, III) Product or Common Name HazChem Typical Unit Symbol Qty eg L, kg, M³  UN Number Proper Shipping Name Class PG (I, II, III) Product or Common Name HazChem Typical Unit Symbol Qty eg L, kg, M³  UN Number Proper Shipping Name Class PG (I, II, III) Product or Common Name HazChem Typical Unit Symbol Qty eg L, kg, M³   | 1072   | Medica Cxuax   | 225.                    |                        | Modiece            | Okragen  | 23  | J9x C                                    | 158,000L   |        |
| JN Number Proper Shipping Name Class PG (I, II, III) Product or Common Name Symbol Qty eg L, kg, M³    Company   Class   Common Name   | 1070   |  |                         |                        | Nitros             | Oxide  | 28  | 3xC                                      | The second secon | -      |
| UN Number Proper Shipping Name Class PG (I, II, III) Product or Common Name Symbol Gty eg L, kg, M³     Company  |  |  |                         |                        |                    |  | -   |  |  |        |
| JN Number Proper Shipping Name Class PG (I, II, III) Product or Common Name Symbol Qty eg L, kg, M³    Company   Class   Common Name   |  |  |                         |                        |                    | T VIII TO  |   | 76                                       |  |        |
| JN Number Proper Shipping Name Class PG (I, II, III) Product or Common Name Symbol Qty eg L, kg, M³    Company   Com | dentifier  | Type of storage location   | or pro                  | cess (                 | Class              | Maximum Stora  | ige Capacity  | (L. kg. N                                | 1 <sup>3</sup> )   | decory |
| IN Number Proper Shipping Name Class PG (I, II, III) Product or Common Name Symbol Qty eg L, kg, M³    Continued Air   Continu |  | A A  |                         |                        |                    | I Control of the Cont | 0 ,   |  | 24.50  |        |
| dentifier Type of storage location or process  Class Maximum Storage Capacity (L, kg, M³)  The Common Name Symbol Class Class Maximum Storage Capacity (L, kg, M³)  JN Number Proper Shipping Name Class (I, II, III) Product or Common Name Symbol Class Class Maximum Storage Capacity (L, kg, M³)  The Common Name Symbol Class Maximum Storage Capacity (L, kg, M³)  The Common Name Class Maximum Storage Capacity (L, kg, M³)  The Common Name Class Maximum Storage Capacity (L, kg, M³)  The Common Name Class Maximum Storage Capacity (L, kg, M³)  The Common Name Class Class Maximum Storage Capacity (L, kg, M³)  The Common Name Class Class Maximum Storage Capacity (L, kg, M³)  The Common Name Class Class Maximum Storage Capacity (L, kg, M³)  The Common Name Class Class Maximum Storage Capacity (L, kg, M³)  The Common Name Class Class Maximum Storage Capacity (L, kg, M³)  The Common Name Class Class Maximum Storage Capacity (L, kg, M³)  | .0   | Under the  | ^                       |                        | 2.2                | 20,00  | 06  |  |  | voluv  |
| dentifier Type of storage location or process  Class Maximum Storage Capacity (L, kg, M³)  The Control of Common Name Proper Shipping Name Class (I, II, III) Product or Common Name Symbol Qty eg L, kg, M³  Control of Common Name Symbol Qty eg L, kg, M³  Control of Common Name Symbol Qty eg L, kg, M³  Control of Common Name Symbol Qty eg L, kg, M³  Control of Common Name Symbol Qty eg L, kg, M³  Control of Common Name Symbol Qty eg L, kg, M³  Control of Common Name Symbol Qty eg L, kg, M³  Control of Common Name Symbol Qty eg L, kg, M³  Control of Common Name Symbol Qty eg L, kg, M³   |  |  |                         | PG                     |                    |  |   | Typical                                  | Unit   |        |
| UN Number Proper Shipping Name Class PG (I, II, III) Product or Common Name Symbol Qty eg L, kg, M³    Company   Company   Common Name   HazChem Typical Unit eg L, kg, M³   Company   Common Name   C |  |  |                         |                        |                    |  | HazChem   |  |  |        |
| UN Number Proper Shipping Name Class PG (I, II, III) Product or Common Name Symbol Qty eg L, kg, M³    Company   Company   Common Name   HazChem Typical Unit eg L, kg, M³   Company   Common Name   C | UN Number  | Proper Shipping Name   | Class                   |                        | Product or         | Common Name  | HazChem<br>Symbol   | Qty                                      | eg L, kg, M <sup>3</sup>   |        |
| UN Number Proper Shipping Name Class PG (I, II, III) Product or Common Name Symbol Qty eg L, kg, M³    Company   Company   Common Name   HazChem Typical Unit eg L, kg, M³   Company   Common Name   C | UN Number  | Proper Shipping Name   | Class                   |                        | Product or         | Common Name  | HazChem<br>Symbol   | Qty                                      | eg L, kg, M <sup>3</sup>   |        |
| UN Number Proper Shipping Name Class PG (I, II, III) Product or Common Name Symbol Qty eg L, kg, M³    Company   Company   Common Name   HazChem Typical Unit eg L, kg, M³   Company   Common Name   C | UN Number  | Proper Shipping Name   | Class                   |                        | Product or         | Common Name  | HazChem<br>Symbol   | Qty                                      | eg L, kg, M <sup>3</sup>   |        |
| JN Number Proper Shipping Name Class PG (I, II, III) Product or Common Name Symbol Qty eg L, kg, M³    Company   Company   Common Name   HazChem Typical Unit eg L, kg, M³   Company   Common Name   C | JN Number  | Proper Shipping Name   | Class                   |                        | Product or         | Common Name  | HazChem<br>Symbol   | Qty                                      | eg L, kg, M <sup>3</sup>   |        |
| JN Number Proper Shipping Name Class PG (I, II, III) Product or Common Name Symbol Qty eg L, kg, M³  LPC 2WE 1500  dentifier Type of storage location or process Class Maximum Storage Capacity (L, kg, M³)  Tank  JN Number Proper Shipping Name Class PG (I, II, III) Product or Common Name HazChem Typical Unit Symbol Qty eg L, kg, M³  Light Chem Typical Unit Symbol Qty eg L, kg, M³  Light Chem Typical Unit Symbol Qty eg L, kg, M³  | JN Number  | Proper Shipping Name  Medical Air  | Class                   | (1, 11, 111)           | Product or         | Common Name  | HazChem<br>Symbol   | aty<br>3xC                               | eg L, kg, M³   |        |
| Identifier Type of storage location or process Class Maximum Storage Capacity (L, kg, M³)  Tank  UN Number Proper Shipping Name Class PG (I, II, III) Product or Common Name Symbol Qty eg L, kg, M³  1075 Liquidical Petrosum 2-1 LPC 2UE 1500  | JN Number  | Proper Shipping Name  Medical Air  Type of storage location  | Class                   | (1, 11, 111)           | Product or         | Common Name  | HazChem<br>Symbol   | aty<br>3xC                               | eg L, kg, M³   |        |
| dentifier Type of storage location or process Class Maximum Storage Capacity (L, kg, M³)  Tonk  7. 7500 L  UN Number Proper Shipping Name Class PG (I, II, III) Product or Common Name Symbol Qty eg L, kg, M³  1075 Lieuthing Petrosum 2.1 LPC 2UE 1500   | JN Number  | Proper Shipping Name  Medical Air  Type of storage location  | Class                   | cess C                 | Product or Pradice | Common Name  A A A   | HazChem<br>Symbol   | Qty 3xC (L, kg, N                        | eg L, kg, M³   |        |
| Identifier Type of storage location or process Class Maximum Storage Capacity (L, kg, M³)  1000 L  UN Number Proper Shipping Name Class PG (I, II, III) Product or Common Name Symbol Qty eg L, kg, M³  1000 L   JN Number  | Proper Shipping Name  Type of storage location  Proper Shipping Name   | Class  Or pro           | cess C                 | Product or         | Common Name  A A A   | HazChem<br>Symbol   | Qty  3xC  (L, kg, M                      | eg L, kg, M³   |        |
| JN Number Proper Shipping Name Class PG (I, II, III) Product or Common Name HazChem Typical Unit Symbol Qty eg L, kg, M³   | JN Number  | Type of storage location  Proper Shipping Name  Proper Shipping Name   | Class  Or pro           | cess C                 | Product or         | Common Name  A A A   | HazChem<br>Symbol   | Qty  3xC  (L, kg, M                      | eg L, kg, M³   |        |
| UN Number Proper Shipping Name Class PG (I, II, III) Product or Common Name HazChem Typical Unit Symbol Qty eg L, kg, M³   | UN Number  | Type of storage location  Proper Shipping Name  Proper Shipping Name   | Class  Or pro           | cess C                 | Product or         | Common Name  A A A   | HazChem<br>Symbol   | Qty  3xC  (L, kg, M                      | eg L, kg, M³   |        |
| JN Number Proper Shipping Name Class PG (I, II, III) Product or Common Name HazChem Typical Unit Symbol Qty eg L, kg, M³   | JN Number  | Type of storage location  Proper Shipping Name  Proper Shipping Name   | Class  Or pro           | cess C                 | Product or         | Common Name  A A A   | HazChem<br>Symbol   | Qty  3xC  (L, kg, M                      | eg L, kg, M³   |        |
| JN Number Proper Shipping Name Class PG (I, II, III) Product or Common Name HazChem Typical Unit Symbol Qty eg L, kg, M <sup>3</sup> 1075 Lieutical Petrosum 21 LPC 2UE 1500   | JN Number  | Type of storage location  Proper Shipping Name  Proper Shipping Name   | Class  Or pro           | Cess (I, II, III)      | Product or Place   | Common Name  Air  Maximum Stora  7600  Common Name   | HazChem Symbol  George Capacity  HazChem Symbol  2 Like     | (L, kg, N<br>Typical<br>Qty              | eg L, kg, M³  Unit eg L, kg, M³  |        |
| UN Number Proper Shipping Name Class PG (I, II, III) Product or Common Name Symbol Qty eg L, kg, M <sup>3</sup>  | JN Number  dentifier  JN Number  | Type of storage location  Topic  Proper Shipping Name  Liquid Patrology  | Class  7.2  n or pro    | Cess (I, II, III)      | Product or Place   | Common Name  Maximum Stora  TECO  Common Name  | HazChem Symbol  HazChem Symbol  L  HazChem Symbol  Clube    | (L, kg, N<br>Typical<br>Qty              | eg L, kg, M³  Unit eg L, kg, M³  |        |
|  | JN Number  dentifier  JN Number  | Type of storage location  Topic  Proper Shipping Name  Liquid Patrology  | Class  7.2  n or pro    | Cess (I, II, III)      | Product or Place   | Common Name  Maximum Stora  TECO  Common Name  | HazChem Symbol  HazChem Symbol  L  HazChem Symbol  Clube    | (L, kg, N<br>Typical<br>Qty              | eg L, kg, M³  Unit eg L, kg, M³  |        |
|  | dentifier  JN Number  10-15  dentifier   | Type of storage location  Proper Shipping Name  Liquidical Petrology  Type of storage location  Type of storage location  Type of storage location | Class Class Class Class | cess C PG (I, II, III) | Product or LPC     | Maximum Stora  Common Name  Maximum Stora  7500  | HazChem Symbol  Ge Capacity  HazChem Symbol  2 LUE  HazChem | (L, kg, N<br>Typical<br>Qty<br>(L, kg, N | eg L, kg, M³  Unit eg L, kg, M³  Unit  |        |



#### OCCUPIER INFORMATION

| Name of Occupier   |   |
|--|---|
| GUNNEDAH DISTRICT HEALTH   | SERVICE   |
| Postal Address of Occupier   | Suburb/Town Postcode  |
| P.O BOX 243  | GUNNEDAH 2380   |
| Trading Name if different  |   |
| The state of the s | 2   |
| Type of business entity  Company Sole Trader Partnership   | Other please specify: HEANTH SERVICE  |
| DETAILS OF PERSON MAKING APPLICATION   |   |
| Title: Mr / Miss / Ms / Mrs / Other (please specify)  Given name Other   | Family name Young   |
| Given name CAROLE Other  | names LYNN.   |
| DECLARATION  |   |
|  | Vo. 22 5 10 10 10 10  |
| of (print your name in BLOCK LETTERS) CAROLE  Of (print your home address) 32 STEWART S  | Floring Phone number 02 674186  |
| hereby declare that:   | 4 4 10 10 20 14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1   |
| I am 18 years of age, or over;   |   |
| The information contained in this application is true and co   | prrect in every particular;   |
| · I am authorised to complete this application and make this   |   |
| <ul> <li>I am aware that it is an offence under section 356 of the C<br/>information or produce any documentation in an application</li> </ul>   | Occupational Health and Safety Act 2000 to provide any n that I know is false or misleading in a material particular. |
| Signature of person making this declaration  | axeina Date 6 4.06  |
|  | 00  |
| Proof of Identity – Australia Post use only  |   |
| NO PROOF OF IDENTITY CHECK IS REQUIRED FOR THIS TE   | RANSACTION  |
| Name of Australia Post Checking Officer  |   |
| Signature  | Date  |
| Name of Post office/agency   |   |
| Australia Post Disclaimer  |   |
| Australia Post is acting as an agent for Your application will be forw WorkCover to identify you under the WorkCover. requirements set out by Occupational Health and Safety Act 2000  | arded to All correspondence in respect of this notification must be addressed to WorkCover.                           |





Licence No. 35/027366



#### 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 35/027366 to 23/03/2004 . I confirm that all the licence details shown below are correct (amend if necessary).

(Signature)

for: GUNNEDAH DISTRICT HOSPITAL

(Date signed)

#### THIS SIGNED DECLARATION SHOULD BE RETURNED TO:

WorkCover New South Wales Dangerous Goods Licensing Section LOCKED BAG 2906 LISAROW NSW 2252

Enquiries:ph (02) 43215500 fax (02) 92875500

#### Details of licence on 24 February 2003

Licence Number 35/027366

Expiry Date 23/03/2003

Licensee

**GUNNEDAH DISTRICT HOSPITAL** 

Postal Address: BOX 243 P O GUNNEDAH NSW 2380

Licensee Contact TODD SOUTHORNE Ph. 02 6740 2855

Fax. 02 6740 2888

Premises Licensed to Keep Dangerous Goods **GUNNEDAH DISTRICT HOSPITAL** MARQUIS ST GUNNEDAH 2380

Nature of Site HOSPITALS (EXCEPT PSYCHIATRIC HOSPITALS)

Major Supplier of Dangerous Goods ELGAS

Emergency Contact for this Site TODD SOUTHORNE Ph. 02 6742 4371 OR 0429 002768

Site staffing 24 HRS 7 DAYS

**Details of Depots** 

Depot No. Depot Type Goods Stored in Depot

Qty

1 ABOVE-GROUND TANK Class 2.1 7500 L UN 1075 PETROLEUM GASES, LIQUEFIED 7500 L 2 ABOVE-GROUND TANK Class 2.1 7500 L UN 1075 PETROLEUM GASES, LIQUEFIED 7500 L

WORKCOVER

35/027366

OHS LICENSING UNIT

Dangerous Goods Licensing
ph. (02) 9370 5187 fax (02) 9370 6104
e-mail: scid@workcover.nsw.gov.au

Attn: WAL CARTER GUNNEDAH DISTRICT HOSPITAL BOX 243 P O GUNNEDAH NSW 2380



21 February 2002

Dear Licensee

# RE: RENEWAL OF LICENCE FOR THE KEEPING OF DANGEROUS GOODS PREMISES: MARQUIS ST, GUNNEDAH 2380

Our records indicate you hold licence no. 35/027366 for storage of dangerous goods at MARQUIS ST, GUNNEDAH 2380. This licence will expire on 23/03/2002. If you still keep licensable quantities of dangerous goods at this site, the licence will need to be renewed. You should be aware that it is an offence under Part 3, Division 1 of the Dangerous Goods Act 1975 to keep dangerous goods on unlicensed premises.

To renew the licence to 23/03/2003, please sign, date and return the enclosed declaration. If there are significant modifications to the depot details or extra depots need to be added to your licence please contact WorkCover New South Wales to obtain an application form DG1.

If the licence is not to be renewed, please provide WorkCover's OHS Licensing Unit with a signed statement giving the reason why the licence is no longer required eg site sold, lease ended or storage removed.

- Where the site has been sold or the lease ended, please inform WorkCover New South Wales, of the date you sold/vacated the premises and whether you removed the dangerous goods before leaving. Where possible, please supply the new owner's name and address.
- If the depot(s) has been removed from the site or is no longer used for storing dangerous goods, please advise the date the goods/depot(s) were removed and by whom. See specific information in guidance notes attached/overleaf for underground tanks.

If you have any further queries, please contact your local WorkCover office or Dangerous Goods Licensing staff (02) 9370 5187. Thank you for your assistance.

Yours faithfully

Kham Sirimanotham

Team Leader, Dangerous Goods



Licence No. 35/027366

#### 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 35/027366 to 23/03/2003. I confirm that all the licence details shown below are correct (amend if necessary).

(Signature)

for: GUNNEDAH DISTRICT HOSPITAL

(Please print name)

Enquiries: ph (02) 9370 5187

fax (02) 9370 6104

THIS SIGNED DECLARATION SHOULD BE RETURNED TO: (please do not fax)

WorkCover New South Wales

Dangerous Goods Licensing Section **GPO BOX 5364** 

SYDNEY 2001

Details of licence on 21 February 2002

Licence Number 35/027366

Expiry Date 23/03/2002

Licensee GUNNEDAH DISTRICT HOSPITAL

Postal Address: BOX 243 P O GUNNEDAH NSW 2380

Tado Southorne 6140138

Licensee Contact WAL CARTER Ph. 82 87420883

67402881

Fax. 02 67423003

Premises Licensed to Keep Dangerous Goods

**GUNNEDAH DISTRICT HOSPITAL** MARQUIS ST GUNNEDAH 2380

Nature of Site HOSPITALS (EXCEPT PSYCHIATRIC HOSPITALS)

67424371 or 0429002768.

Major Supplier of Dangerous Goods ELGAS Emergency Contact for this Site WA CARTER Ph. 02 07421754

Site staffing 24 HRS 7 DAYS

**Details of Depots** 

Depot No. **Depot Type Goods Stored in Depot** Qty

ABOVE-GROUND TANK 1 Class 2.1 UN 1075 PETROLEUM GASES, LIQUEFIED 2 ABOVE-GROUND TANK Class 2.1

UN 1075 PETROLEUM GASES, LIQUEFIED

7500 L 7500 L

7500 L

7500 L

0

Tratains Franksone 2-5-52 rad gruthome bridgess 67922881 1511 to CARGOCE 15311 or CARGOCE 2768.



262

vales, 400 Kent Street, Sydney 2000. Telephone 9370 5000 ALL MAIL TO G.P.O. POX 5364 SYDNEY 2000

SECTION

Licence No. 35/027366

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 35/027366 to 23/03/2001 . I confirm that all the licence details shown below are correct (amend if necessary).

(Signature)

(Please print name)

Enquiries: ph (02) 9370 5187

fax (02) 9370 6105

for: GUNNEDAH DISTRICT HOSPITAL

THIS SIGNED DECLARATION SHOULD BE RETURNED TO:

WorkCover New South Wales Dangerous Goods Licensing Section

**GPO BOX 5364** SYDNEY 2001

Details of licence on 21 February 2000

Licence Number 35/027366

Expiry Date 23/03/2000

**GUNNEDAH DISTRICT HOSPITAL** 

Postal Address: BOX 243 P O GUNNEDAH NSW 2380

Licensee Contact WAL CARTER Ph. 02 67420666 Fax. 02 67423003

Premises Licensed to Keep Dangerous Goods **GUNNEDAH DISTRICT HOSPITAL** 

MARQUIS ST GUNNEDAH 2380

Nature of Site HOSPITALS (EXCEPT PSYCHIATRIC HOSPITALS)

Major Supplier of Dangerous Goods BORAL ELGAS

Emergency Contact for this Site W A CARTER Ph. 02 67421754

Site staffing 24 HRS 7 DAYS

**Details of Depots** 

Depot No. **Depot Type** Goods Stored in Depot Qty

7500 L

1 ABOVE-GROUND TANK Class 2.1 UN 1075 PETROLEUM GASES, LIQUEFIED ABOVE-GROUND TANK 2 Class 2.1 UN 1075 PETROLEUM GASES, LIQUEFIED

7500 L 7500 L 7500 L

Form DG10

TRANSFER: A Licence to Keep Dangerous Goods is issued for a specified site. If control of a site is transferred (by way of sale or lease or otherwise), the person who held the licence immediately before the transfer must notify WorkCover's Scientific Services Franch. This notification must be submitted, in writing, within 7 days after the transfer and services the date the transfer was effected and include the name and address of the new occupier/owner.

AMENDMENT: If there is any change to the licence details or dangerous goods storage conditions at the site, the licensee must as soon as practicable notify WorkCover's Scientific Services Branch, in writing, of the change. The licensee must also apply for an appropriate amendment of the licence if, as a result of the change, the licence details are no longer appropriate or no longer correct.

RENEWAL: The licensee contact will be forwarded an Application to Renew the Dangerous Goods Licence six to eight weeks prior to the expiry date printed on the licence. If you do not receive the renewal application, please contact WorkCover's Dangerous Goods Licensing Section (02) 9370 5187 before the licence expires.

#### DESCRIPTION OF DANGEROUS GOODS CLASSES

- Class 1 Explosives (including detonators).
- Class 1.4S Safety cartridges.
- Class 2.1 Flammable gases (e.g. LP Gas, acetylene).
- Class 2.2 Non-flammable, non-toxic gases (e.g. oxygen, nitrogen).
- Class 2.3 Toxic gases (e.g. chlorine, anhydrous ammonia).
- Class 3 Flammable liquids (e.g. petrol, kerosene, paint thinners, methylated spirits).
- C1 & C2 Combustible liquids (e.g. diesel fuel, heating oil, vegetable oil).
- Class 4.1 Flammable solids (e.g. nitrocellulose, sodium metal, calcium carbide).
- Class 4.2 Substances liable to spontaneous combustion (e.g. sodium hydrosulfite).
- Class 4.3 Substances that in contact with water emit flammable gases (e.g. calcium carbide).
- Class 5.1 Oxidizing substances (e.g. dry pool chlorine, ammonium nitrate).
- Class 5.2 Organic peroxides (e.g. dibenzoyl peroxide, MEKP).
- Class 6.1 Toxic substances (e.g. sodium cyanide, some pesticides).
- Class 6.2 Infectious substances (e.g. bacteria: administered by NSW Health, EPA and WorkCover NSW).
- Class 7 Radioactive material (e.g. uranium hexafluoride: administered by the EPA).
- Class 8 Corrosive substances (e.g. hydrochloric acid, sulfuric acid, liquid pool chlorine).

## SOME DANGEROUS GOODS MAY BE KEPT WITHOUT A DANGEROUS GOODS KEEPING LICENCE. For example:

- Acetylene: 60 m³ or less per premises (i.e. up to and including 8 x "G" size cylinders).
- Diesel fuel, Heating oil: any amount if stored in packages (e.g. drums) OR in tanks with a capacity of 50,000 litres or less.
- Petrol and other dangerous goods of Class 3, Packing Group I or II: 100 litres or less per premises when stored aboveground.
- Kerosene and other dangerous goods of Class 3, Packing Group III: 1,000 litres or less per premises when stored aboveground.
- Class 6.1 Toxic substances: 10L/kg or less of Packing Group I, 100L/kg or less of Packing Group II, and 1000L/kg or less of Packing Group III.
- Class 8 Corrosive substances: 10L/kg or less of Packing Group I, 100L/kg or less of Packing Group II, and 1000L/kg or less of Packing Group III.

Please contact WorkCover's Dangerous Goods Licensing Section (02) 9370 5187, Information Centre Hotline 13 10 50, or your local WorkCover office for further information or assistance on licensing or storage of dangerous goods.

| WorkCover NSW offic  | es 🛣           |              | 2              |              | 2                 |
|----------------------|----------------|--------------|----------------|--------------|-------------------|
| Blacktown            | (02) 9671 8700 | Albury       | (02) 6021 5911 | Central Coas | t (02) 4353 2373  |
| Hurstville           | (02) 9598 3366 | Batemans Bay | (02) 4472 5544 | Grafton      | (02) 6642 0511    |
| Lindfield            | (02) 9936 3000 | Blackbutt    | (02) 4297 3796 | Lismore      | (02) 6622 0088    |
| Liverpool            | (02) 9827 8600 | Dubbo        | (02) 6884 2799 | Narrabri     | (02) 6792 4643    |
| Parramatta .         | (02) 9841 8550 | Goulburn     | (02) 4822 1243 | Newcastle    | (02) 4921 2900    |
| Sydney               | (02) 9370 5027 | Griffith     | (02) 6964 2027 | Port Macquai | rie(02) 6584 1188 |
| Metro East Region    | (02) 9370 5059 | Orange       | (02) 6361 7070 | Tamworth     | (02) 6786 2490    |
| Metro West Region    | (02) 9841 8550 | Wagga Wagga  | (02) 6921 8766 | Toronto      | (02) 4959 6366    |
| Country North Region | (02) 4921 2900 | Wollongong   | (02) 4222 7333 | Tweed Heads  | s (07) 5536 3262  |
| Country South Region | (02) 4222 7333 | - 1          |                |              |                   |

ollo



8TH OCTOBER 1997 SCIENTIFIC SERVICES BRANCH DANGEROUS GOODS LICENSING 8TH OCTOBER 1997 WORKCOVER NSW LOCKED BAG 10 PO CLARENCE ST SYDNEY 2000

DEAR MS MCLAREN

I would like to obtain a replacement Dangerous Goods Licence for our site.

The site address is MARQUIS STREET . GUNNEDAH 2380.

The licence number is 35/027366

The reason that we require a replacement is that we are unable to locate the original licence.

Yours Faithfully,

Wal Carter W. Cts

ENGINEER GUNNEDAH HEALTH SERVICE.

MARQUIS STREET GUNNEDAH 2380

NSW

10 OCT 1997
SCIENTIFIC SERVICES

dyphicale Greene usual sens Burdle

35/027366

Reference

Fax No: 02 674 2 3003

WorkCover New South Wales, 400 Kent Street. Sydney 2000. Tel: (02) 9370 5000 ALL MAIL TO LOCKED BAG 10. CLARENCE STREET, SYDNEY 2000

DX 13067, MARKET ST. SYDNEY

SCIENTIFIC SERVICES BRANCH **Dangerous Goods Licensing** ph 9370 5192 fax 9370 6105 Saturday, 4 October 1997

Mr Wal Carter **Gunnedah District Hospital** PO Box 243 **GUNNEDAH NSW 2380** 

Dear Mr Carter

LICENCE TO KEEP DANGEROUS GOODS

SITE: MARQUIS STREET, GUNNEDAH

NO: 35/027366

I refer to your fax requesting a replacement copy of the above-mentioned licence. To allow us to process this request, please send an original, signed letter to the Dangerous Goods Licensing section of WorkCover, quoting the site address and licence number, requesting replacement and explaining the reason for replacement.

Please send this letter to:

**Dangerous Goods Licensing** WorkCover NSW Locked Bag 10 PO CLARENCE ST SYDNEY 2000

If you have any queries, please phone Dangerous Goods Licensing staff on 9370 5187.

Yours faithfully

Angela McLaren

A/Senior Licensing Clerk, Dangerous Goods

P. 1

\* \* COMMUNICATION RESULT REPORT ( 4.OCT.1997 16:15 ) \* \* \*

FILE MODE

OPTION

ADDRESS (GROUP)

RESULT

TTI SCIENTIFIC SERVICES 93706105

PAGE

587 MEMORY TX

00267423003

OK

P. 1/1

REASON FOR ERROR E-1) HANG UP OR LINE FAIL E-3) NO ANSWER

E-2) BUSY E-4) NO FACSIMILE CONNECTION

FAX

Fax No: 02 674 2 3003

WorkCover New South Wates, 400 Kent Street. Sydney 2000. Tel: (02) 9370 5000 ALL MAIL TO LOCKED BAG 10. CLARENCE STREET, SYDNEY 2000

Reference

35/027366

DX 13067, MARKET ST. SYDNEY

SCIENTIFIC SERVICES BRANCH Dangerous Goods Licensing ph 9370 5192 fax 9370 6105 Saturday, 4 October 1997

ph 9370 5192 fa Saturday, 4 Octo Mr Wal Carter Gunnedah District Hospital PO Box 243

Dear Mr Carter

**GUNNEDAH NSW 2380** 

RE: LICENCE TO KEEP DANGEROUS GOODS

SITE: MARQUIS STREET, GUNNEDAH

NO: 35/027366

I refer to your fax requesting a replacement copy of the above-mentioned licence. To allow us to process this request, please send an original, signed letter to the Dangerous Goods Licensing section of WorkCover, quoting the site address and licence number, requesting replacement and explaining the reason for replacement.

Please send this letter to:



## GUNNEDAH HEALTH SERVICE

#### FACSIMILE TRANSMISSION

| PHONE: (067) 420 666 FAX: (                 | 067) 423 003        |
|---|---------------------|
| TO: SciENTIFIC SERVICES BRANCH              |                     |
| DANSEROUS GOODS LICENCING SECTION.          |                     |
| FROM: WAS CARAGE                            | RECEIVED            |
| ENGINEÉR,                                   | 5 AUG 1997          |
| DATE: 4-8-97                                | SCIENTIFIC SERVICES |
| RE: DANGEROUS GOODS LICENCE NO. 35/ 027 366 | Fol.                |
| CUNNEDAN HEALAN SKAVICE, UNADLE TO LOCA     | ME COUL 0           |
| YOU PLEASE SUPRY ME WITH A REPLANATION      | Copy                |
| W. laks                                     |                     |
| NO. OF PAGES:                               |                     |

THIS FACSIMILE CONTAINS CONFIDENTIAL INFORMATION
INTENDED FOR THE USE OF THE ADDRESSEE ABOVE. IF YOU
HAVE RECEIVED THIS FACSIMILE IN ERROR PLEASE NOTIFY
GUNNEDAH HEALTH SERVICE IMMEDIATELY ON THE ABOVE
TELEPHONE NUMBER AND RETURN IT TO THE ABOVE ADDRESS unnedah
Health Service

Any enquiries regarding this Fax please contact: WAL CARTER

ENGINEER.

PO Box 243 Gunnedah NSW 2380

> Tel 067 420 666 Fax 067 423 003

35/027366

Reference

WORKCOVER AUTHORITY
SCIENTIFIC SERVICES BRANCH

Dangerous Goods Licensing ph. (02) 370 5187 fax (02) 370 6105

GUNNEDAH DISTRICT HOSPITAL BOX 243 P O GUNNEDAH 2380

3 November 1994

Dear Licensee

RE: NON RENEWAL OF LICENCE FOR THE KEEPING OF DANGEROUS GOODS

Our records indicate you previously held a licence for storage of dangerous goods in NSW. This licence has expired.

If dangerous goods are still being kept at this site the licence will need to be renewed. To renew the licence to 1995, please sign, date and return the attached declaration. If there is significant modifications to the depot details or extra depots need to be added to your licence, please include a plan stamped by an accredited consultant for these depots.

If the licence is not to be renewed, please provide the Chief Inspector of Dangerous Goods, WorkCover Authority with a signed statement giving the reason why the licence is no longer required eg site sold, lease ended or storage removed.

- Where the site has been sold or the lease ended, please inform the WorkCover Authority, of the date you sold/vacated the premises and whether you removed the dangerous goods before leaving. Where possible, please supply the new owner's name and address.
- If the depot has been removed from the site or is no longer used for storing dangerous goods, please advise the date the goods/depots were removed and by whom see specific information in guidance notes for underground tanks.

If you have any queries, please contact dangerous goods licensing staff # (02) 370 5192. Thank you for your assistance.

Yours faithfully/

for Senior Licensing Clerk, Dangerous Goods

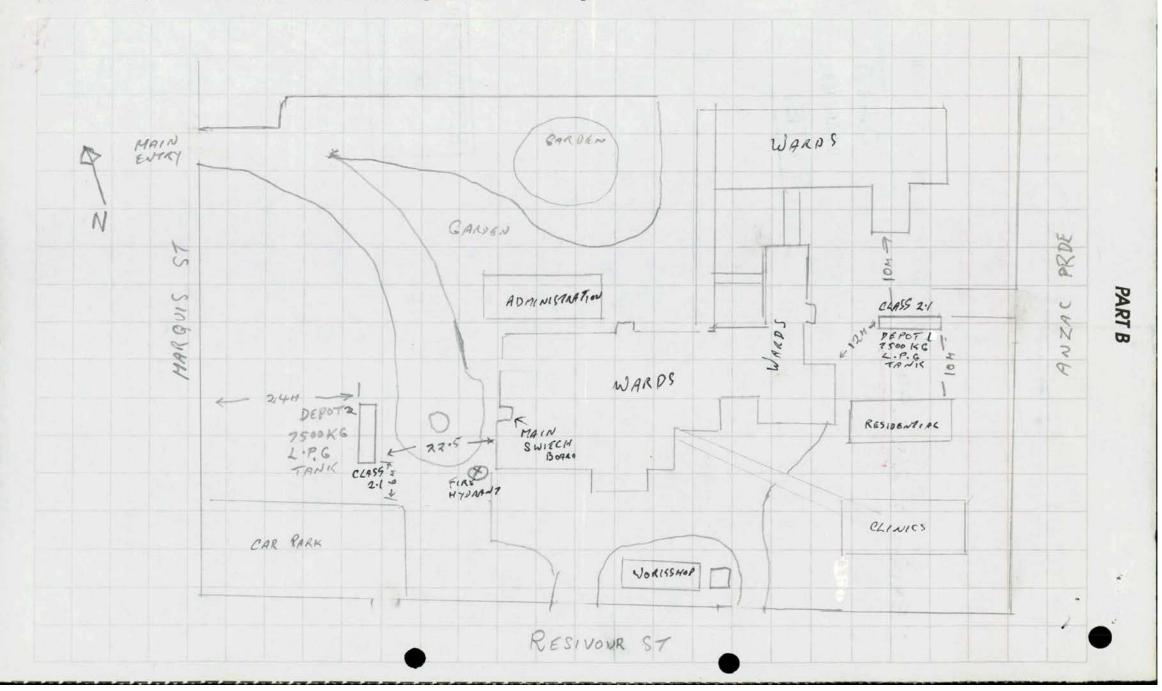
encs



## LICENCE TO KEEP DANGEROUS GOODS

(Dangerous Goods Act 1975)

| Name of a    | pplicant                     |                         |  | ADMATA SH  |
|--------------|------------------------------|-------------------------|--|--|
| C.           | GUNNEDAH                     | District                | HOSPITAL                                 | 0 7 APR 1992   |
| Site to be   |                              |                         | 1 1                                      | ENTERED  |
| No           | Street                       |                         | ,  | TOUR LAND  |
| Suburb/To    | MARQUIS                      | 81                      | Postcode                                 |  |
| Ouburb/ IV   | GUNNEDAH                     |                         |  | 380  |
|              | 302727111                    |                         |  |  |
| Previous I   | cence number (if know        | n) 35 0273              | 66                                       |  |
| Nature of    | site ABOVE                   | GROUND T.               | ANK (HOSPIT                              | 9K) X8141  |
| Emergeno     | y contact on site:           |                         | -  |  |
| Phone        | *                            | Name                    |  |  |
| X067         | 421754                       | X V. A.                 | CARTER                                   |  |
| Site staffir | g: Hours per day             | 1 X24                   | Days per week                            | × 7  |
| Major sup    | plier of dangerous goo       | ds × BOR                | AL GAS                                   | Ph. 000 - 00 - 100 |
| If new site  | or significant modifica      |                         |  | RECEIVED IN  |
| Plan stam    | ped by: Accre                | dited consultant's na   | ame:                                     | Date stamped MAR 1993  |
|              |                              |                         |  | RECORDS MANAGEMENT UN  |
| Number o     | f dangerous goods dep        | oots at site 2          |  |  |
| Trading na   | ame or occupier's name       | e                       |  |  |
| G            | UNNEDAH DIST                 | eict Hospit             | ns                                       | THE PROPERTY   |
| Postal add   | dress of applicant           |                         | Suburb/Town                              | Postcode   |
| p./          | ). Box 243                   |                         | GUNNEDAR                                 | 2380   |
|              |                              |                         | 0 10 10 10 10 10 10 10 10 10 10 10 10 10 |  |
| Phone Phone  | or licence enquiries:<br>Fax |                         | Name                                     | PARTIE   |
| 067          | 420666/ 4067                 | 423003                  |  |  |
|              |                              | d in this application ( |  |  |



Complete 1 section per depot

### If you have more depots than the space provided, photocopy sufficient sheets first.

|   | Depot<br>number | Type of depot                         |       | Class             | Licensed max storage capa |  |
|---|-----------------|---------------------------------------|-------|-------------------|---------------------------|--|
|   | NOI             | ABOVE CROUND LIP<br>REG NO 18605341   | G     | 2.1               | 7500 KHE                  | L /  |
|   | UN<br>number    | Shipping name                         | Class | Pkg.<br>Group EPG | Product or common name    | Typical Unit eg.<br>quantity L, kg, m <sup>3</sup> |
| > | (1075           | LPG                                   | 21    | N/A JAZ           | BORAL GAG                 | 7500 KG  |
|   |                 |                                       |       |                   |                           |  |
|   | Depot           |                                       |       |                   | Licensed max              | imum   |
|   | number          | Type of depot                         |       | Class             | storage capa              |  |
|   | Noz             | ABOVE BROWNS L.F<br>REG N.O. 18605342 | 7-6   | 211               | 7500KCL                   |  |
|   | UN<br>number    | Shipping name                         | Class | Pkg.<br>Group EPG | Product or common name    | Typical Uniteg.                                    |
| > | (1075           | LPG                                   | 2.1   | N/A 2AZ           | BORAL GAS                 | 7500 to  |
|   |                 |                                       |       |                   |                           |  |
|   | Depot           |                                       |       |                   | Licensed max              | imum   |
|   | number          | Type of depot                         |       | Class             | storage capa              | acity  |
|   | UN              |                                       |       | Pkg.              | Product or                | Typical Uniteg                                     |
|   | number          | Shipping name                         | Class | Group EPG         | common name               | quantity L,kg,m                                    |
|   |                 |                                       |       |                   |                           |  |
|   |                 |                                       |       |                   |                           |  |
|   | Depot           | Type of depot                         |       | Class             | Licensed max storage cap  |  |
|   |                 |                                       |       |                   |                           |  |
|   | UN<br>number    | Shipping name                         | Class | Pkg.<br>Group EPG | Product or common name    | Typical Uniteg                                     |
|   |                 |                                       |       |                   |                           |  |
|   |                 |                                       |       |                   |                           |  |

## If you have more depots than the space provided, photocopy sufficient sheets first.

| Depot<br>number | Type of depot |       |                   |                       | sed maximum<br>age capacity |                    |  |
|-----------------|---------------|-------|-------------------|-----------------------|-----------------------------|--------------------|--|
| UN<br>number    | Shipping name | Class | Pkg.<br>Group EPG | Product or common nam | Typical quantity            | Uniteg<br>L, kg, m |  |
|                 |               |       |                   |                       |                             |                    |  |
|                 |               |       |                   |                       |                             |                    |  |
|                 |               |       |                   |                       |                             |                    |  |
|                 |               |       |                   |                       |                             |                    |  |
|                 |               |       |                   |                       |                             |                    |  |

| Depot<br>number | Type of depot |         | Class             | Licensed maximum storage capacity |                  |                    |  |
|-----------------|---------------|---------|-------------------|-----------------------------------|------------------|--------------------|--|
| UN<br>number    | Shipping name | Class ( | Pkg.<br>Group EPG | Product or common name            | Typical quantity | Uniteg<br>L, kg, m |  |
|                 |               |         |                   |                                   |                  |                    |  |
|                 |               |         |                   |                                   |                  |                    |  |
|                 |               |         |                   |                                   |                  |                    |  |
|                 |               |         |                   |                                   |                  |                    |  |
|                 |               |         |                   |                                   |                  |                    |  |

### PLANS SUBMITTED FOR APPROVAL

| DETAILS OF FIRM SUBMITTING PLAN(S):   | DATE: 18/4/91        |
|---|----------------------|
| NAME: GUNNEDAH DISTRICT HO  | SPITAL               |
| ADDRESS: P 0 BOX 243  |                      |
| GUNNEDAH 1  | 2380                 |
| NAME CONTACT:   |                      |
| PHONE:  |                      |
| Plans to be Mailed ( ) Picked Up (  | ) (tick appropriate) |
| PLAN DETAILS:   | DRAWING NO.:         |
| NAME OF COMPANY:  |                      |
| ADDRESS OF LOCATION: MARQUIS  | 87                   |
| GUNNE   | DAH 2380             |
| TOWN OR CITY:   |                      |
| Approved ( ) Not A  | pproved ( )          |
| This form is to be kept with plan(s) unti records then is to be attached to file. | l it is returned to  |
| TYPE OF INSTALLATION APPROVED:  | CAPACITY:            |
| seen by Fom   |                      |
| 13/4/91   |                      |
| APPROVED 84:  | DATE                 |

NIA

Form DGI

# Department of Industrial Relations & Employment

LICENCE No.

DANGEROUS GOODS ACT, 1975

35-027366.4

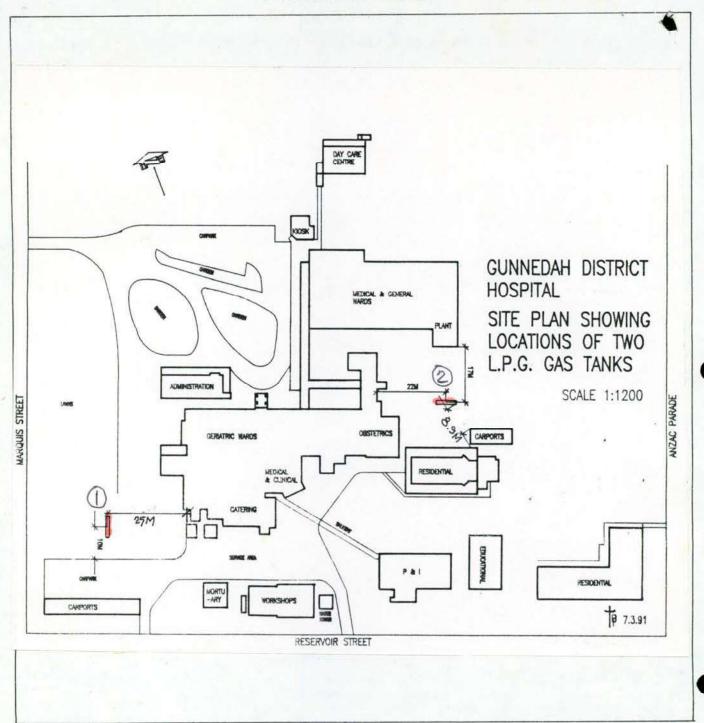
#### APPLICATION FOR LICENCE (or AMENDMENT or TRANSFER of LICENCE)\* FOR THE KEEPING OF DANGEROUS GOODS

(\* delete whichever is not required)

| FEE: | \$15.00 | per Depot for new | licence.  |
|------|---------|-------------------|-----------|
|      | \$15.00 | for amendment or  | transfer. |

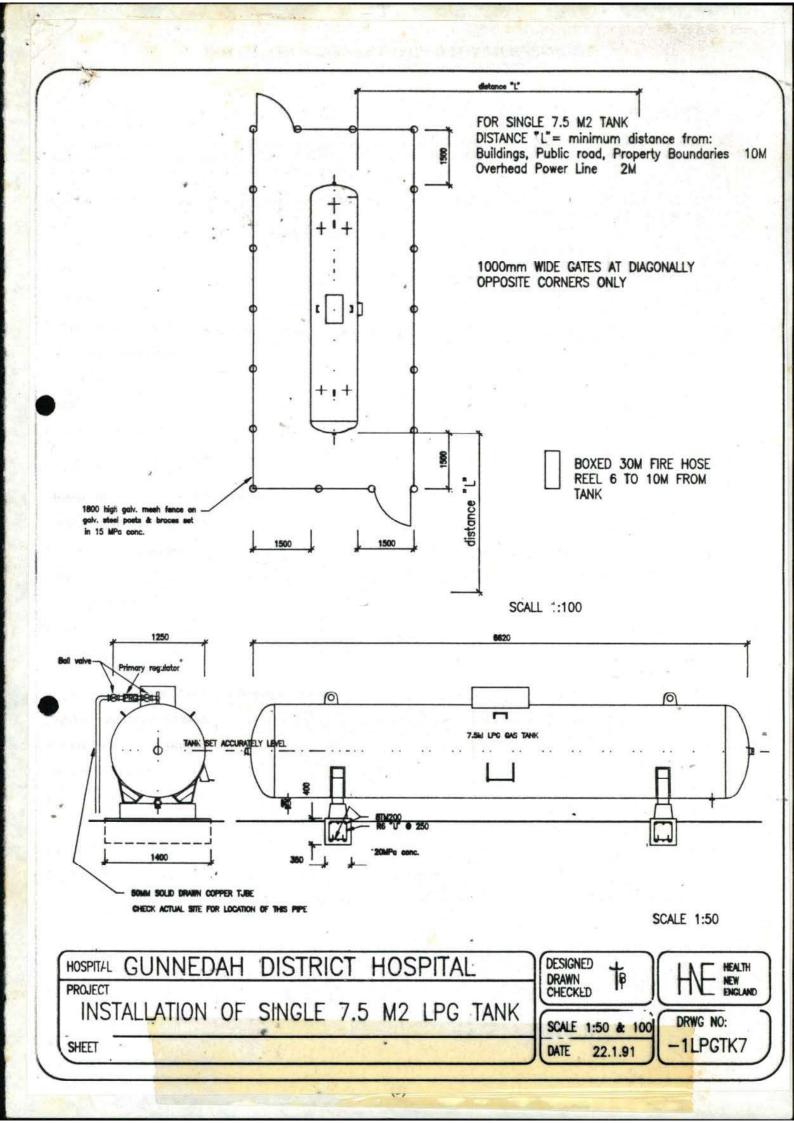
|                                 | ant in full (see Item<br>ry notes - page 4)  | ZUNNÉ        | DAH DIS                                      | trict Hospital  |                          |
|---------------------------------|--|--------------|--|---|--------------------------|
| Trading name o<br>name (if any) | r occupier's                                 | ABOVE        |  |   |                          |
| Postal Address                  | P  | .O. B        | ox 243,                                      | GUNNEDATI P   | ostcode 2380             |
| Address of the plicensed. (Inc  | oremises to be<br>luding Street No.)         | MARQ         | ouis st.                                     | GUNNEDAH P  | ostcode 2380             |
|                                 | ses (See Item 2 –<br>notes – page 4)         | HOSP         | 小  |   |                          |
| Telephone num                   | ber of applicant STD C                       | ode O        | 7 420666                                     | Number CONPACT: WAL   | CARTER                   |
| articulars of ty                | pe of depots and maximum qua                 | ntities of d | langerous goods to be                        | kept at any one time.   |                          |
|                                 | Type of depot                                |              |  | Dangerous goods   | 0.00                     |
| Depot<br>number                 | (See item 3 – Explanatory<br>notes – page 4) |              | Storage capacity                             | Product being stored  | C & C<br>Office use only |
| 1 .                             | ABOVE GROUND PA                              | NK           | 7,5 M2                                       | LPG GAS   | 1. 100,75x               |
| 2                               | n n  | n            | (3   | w W   | 1, 100.75x               |
| 3                               |  |              |  | Data (  |                          |
| 4                               |  |              |  | Data  | ntered                   |
| 5                               |  |              |  | 23 A  | pr 91                    |
| 6                               | Rolling                                      | Vap.         | Dul -  | 10/10   |                          |
| 7                               |  |              |  | 1   | 70//                     |
| 8                               |  |              |  |   |                          |
| 9                               |  |              |  | 111   |                          |
| 10                              |  |              |  | 10000 Jan 11  |                          |
| 11                              |  |              |  | SIGNATION POOPOOL   |                          |
| 12                              |  |              |  | DATE  |                          |
|                                 | een approved by the goods Branch?            | Yes_<br>No   | If yes, no plans red<br>If no, please attach | quired.  n site plan, or provide sketch plan overleaf.  |                          |
| Have premises                   | previously been licensed?                    | Yes<br>No    | If, yes, state name                          | of previous occupier, and licence No. (if k   | nown).                   |
| Name of oil co                  | mpany supplying flammable liq                | uid (if app  | licable).                                    |   |                          |
| For external ex                 | plosives magazine(s), please fill            |              | of applicant                                 | A/Chief Executive Office  | 18 March 1991            |
| FOR OFFICE                      | USE ONLY                                     | CE           | RTIFICATE OF INS                             | W   |                          |
| I,<br>do hereby certif          | y that the premises described abo            | ove do com   | ply with the requirem                        | being an Inspector under the Dang<br>ents of the Dangerous Goods Act, 1975, and<br>ingerous goods of the nature and in the qu | d the Dangerous Goods    |

#### SKETCH PLAN OF SITE



Show positions of Depot(s) with: -

- (1) distances from public places and protected works;
- (2) street names;(3) nature and details of adjacent properties.



### INFORMATION TO BE PROVIDED FOR LICENSING OF EXTERNAL EXPLOSIVE MAGAZINES

1. (a) Construction of

(i) Walls (ii) Roof (b) Internal dimensions (mm)

(iii) Shade roof

(iv) Door(s)

(v) Lock(s)

(vi) Lining

(vii) Lightning conductor

2. Special attention is directed to the necessity for filling in accurately the distances from each of the undermentioned places, irrespective of the quantity of Explosives intended to be kept. If any of the "Protected Places or Protected Works" specified below, are not within radius of 3 kms of the Magazine, place the word NIL against such place or works.

| PROTECTED PLACES or PROTECTED WORKS   |                    |   | es from magazine to<br>orks or place    |
|---|--------------------|---|---|
|   |                    | Not occupied or used by applicant       | Occupied or used by applicant           |
| Public place  |                    |   |   |
| Waterway used for navigation  |                    |   |   |
| Reservoir (public or private)   |                    | ud dies auberge mage                    | 304                                     |
| River or sea wall   |                    |   |   |
| idge  |                    |   |   |
| Dock, wharf, pier or jetty  |                    |   |   |
| Any furnace, kiln, forge or fire for manufacturing purposes or for the use boiler, engine, or machine | e of any           |   |   |
| Aboveground water main or water supply channel  |                    |   |   |
| Electrical power transmission line  |                    |   |   |
| Radio or television transmitter   | * * *              | w                                       |   |
| Shop  |                    | • | *************************************** |
| Store or warehouse  | W W W              | •                                       |   |
| Factory   |                    |   |   |
| Other building or timber yard in which any person is employed or engatrade, business or profession    | ged in any         | 1 |   |
| Magazine or premises licensed for the keeping of explosives   |                    | Na nose se garra                        |   |
| Depot for other dangerous goods   |                    |   |   |
| Railway, tramway or aerodrome   | 4                  |   |   |
| Any dwelling house  |                    |   |   |
| Any church, chapel, college, school or theatre  | 2 6 6 7            |   |   |
| Hospital  |                    |   |   |
| Government or public building   |                    |   |   |
| Any other building or structure in or about which persons are usually p                               | resent or          |   |   |
| from time to time assemble  | 5 0665 (0665 1066) | **********************                  |   |

### KEEPING LICENCE EXPLANATORY NOTES

Name of applicant in full: Full name(s) including given name(s) or holding company name (if any) must be supplied.

Nature of premises: State whether premises are a dwelling, service station, fuel storage depot, general store, farm, mine site, etc.

Type of depot: Describe depot as "aboveground tank", "underground tank", "magazine", "roofless package store", "roofled package store", "cylinder store" (or where not more than two LPG decanting cylinders of each of a capacity not exceeding 50 kg are kept) "decanting cylinders". For safety cartridges describe as "in original packages".

If space is insufficient for depot particulars, attach a separate list, showing the type of each depot (as per 3 above), and indicating contents and

capacities of each in litres, kilograms etc.

5. For each magazine, supply additional information as per page 3.

6. A site plan of the premises showing the position(s) of the depot(s) with distances from protected works and public places is to be attached.

Dangerous Goods have been divided into classes and an explanation of these classes is shown hereunder. Certain classes may be kept without a licence, provided the quantity of each does not exceed the amount specified below.

Licenses are issued on a yearly basis and may not be transferred without the approval of the Chief Inspector of Dangerous Goods.

The SIGNED form, together with the appropriate fee, is to be forwarded to The Accountant, Department of Industrial Relations, P.O. Box 847, Darlinghurst, 2010.

If transfer of a licence is required, this will be expedited if the new occupier can be handed the current pink licence to be forwarded to this Department with any change of details noted and transfer fee of \$15 included.

#### EXPLANATION OF DANGEROUS GOODS CLASSES

- Blasting explosives (including detonators). 1.1
- Fireworks and/or safety cartridges. 1.4
- Flammable gases (e.g. L.P.G. or acetylene). 2.1
- Poison and/or cryogenic gases (e.g. ammonia, chlorine, liquid 2.2
- 2.3 oxygen).
- Flammable Liquids (e.g. any or all of, petrol, kerosene, 3.1
- methylated spirits, solvents). 3.2 1
- Combustible liquids (e.g. distillate, diesel fuel, heating oil). 3.3
- Flammable solids (e.g. nitro cellulose). 4
- 5 Oxidising substances (e.g. Pool chlorine).

#### EXEMPTIONS FROM LICENCE

- L.P.G.: Two 50kg L.P.G. decanting cylinders or less on a premises 1. HAVING OTHER LICENSED DEPOTS.
- Acetylene: Storage of 60 cu.m or less of acetylene per premises (i.e. 2. up to and including 8 x "G" class cylinders, the most common size of acetylene cylinder).
- Distillate, Diesel Fuel, Heating Oil: Storage of 50,000 litres or less 3. of distillate, diesel fuel and heating oil per tank.
- Petrol: Storage of 100 litres or less of petrol per premises. 4.
- Kerosene: Storage of 1,000 litres or less of kerosene per premises, 5. when stored aboveground.

FOR FURTHER ENQUIRIES PLEASE RING

6239

Licence will be issued within four (4) weeks of receipt within Department of correct fee and completed application. FAILURE TO ANSWER ALL QUESTIONS WILL RESULT IN A DELAY IN THE ISSUE OF YOUR LICENCE.



(4)

(02) 287 6237



Chief Inspector of Boilers and Pressure Vessels Nauru House, 80 Collins Street, Melbourne, Vic. 3000 Phone 655 6444

### CERTIFICATE OF TEST

This is to certify that an Inspector has checked the materials and supervised the construction and testing of the Boiler/Pressure Vessel described hereunder:-

Boiler/Pressure Vessel

Manufacturer of RHEEM G. P. E. BUNNETT ST.,

SUNSHINE, VIC. 3020 7.5 KL. L.P.G. VESSEL

Description/Type ....

Test Pressure

Date 14-12-90

NOTE: Boilers and Pressure Vessels for use in Victoria must be registered with the Chief Inspector of Boilers and Pressure

Vessels by the owner.

T.S.B. 81

CERTIFIED CORRECT

Thenwood Inspector of Boilers and Pressure Vessels STAMPING

90-00411 W.P. 1750

> of Manufacturer or Agent

14-12-90 Date

4218(F4)



### GAS PLANT & EQUIPMENT

POSTAL ADDRESS: P.O. BOX 227, SUNSHINE, VICTORIA, 9020, AUSTRALIA.
TELEPHONE: 311 7411 TELEX: AA 39704

MCORPORATED IN VICTORIA

### MANUFACTURER'S DATA REPORT - PRESSURE VESSELS

| Manufactured by RHEEM - GASPLAN  | T & COUR  | ÆNT           |                           |            |             | 00411            |
|----------------------------------|-----------|---------------|---------------------------|------------|-------------|------------------|
| Manufactured for                 |           |               | NICLI                     | SERIAL No. | : V10       | 865              |
| TypeZ5KL(WC)L                    |           |               |                           |            |             |                  |
| Design Pressure                  |           |               |                           |            |             |                  |
| Corrosion Allowance:             |           |               |                           |            |             |                  |
| Code and Classification to which |           |               |                           |            |             |                  |
| Design Approval : Drawing No     | 76010     | /2            | greu :1                   | 144444     | V1226_      | 78               |
| SHELL: Dial., 229 Lengt          |           | 5840 TL       | Approvat                  | NO         | 1 AS15      | 48-7-460         |
|                                  |           |               |                           |            |             |                  |
| No. of Strakes                   |           |               |                           |            |             |                  |
| ENDS: Type:ELLIPSQIQ             |           |               |                           |            |             |                  |
| Thickness10                      | Material  |               | 49.Y. Att                 | achment    |             | .VF.V            |
| OPENINGS : (ATTACHED BY WELDING  | )         |               |                           |            |             |                  |
| SERVICE                          | No.       | SIZE          | LO                        | CATION     |             | TYPE             |
| MULTI VALVE                      | 1         | 3/4" NP       | TOP-S                     | HELL       | PAD         |                  |
| CONTENTS GAUGE                   | 1         | 42MM I.       |                           |            | • • •       |                  |
| FILLER VALVE                     | 1         | 11" NPT       |                           |            | •           |                  |
| TOP DRAIN                        | 1         | 14" NPT       | •                         | •          |             |                  |
| SPARE                            | 1         | 3/4" NP       |                           |            |             |                  |
| INSPECTION OPENING               | 2         | 2" NPT        | CENTE                     | RE-ENDS    | 3,000       | 1b.COUPLIN       |
| DRAIN                            | 1         | 11 " NPT      | UNDER                     | R-SHELL    |             |                  |
| LIQUID OUTLET                    | 1         | 2" NPT        |                           | н          |             |                  |
| PUMP BYPASS                      | 1         | 2" NPT        |                           | н          |             | 93               |
| VAPOUR RETURN                    | 1         | 3" NPT        | •                         | *          |             |                  |
| RELIEF VALVE                     | 2         | 14" NPT       | TOP-S                     | SHELL      |             |                  |
|                                  |           |               |                           |            |             |                  |
| Y                                |           |               |                           |            |             |                  |
|                                  |           |               |                           |            | 1           |                  |
| WELDING OPERATORS CERTIFICATION  | No.:      | 1             |                           |            |             |                  |
| 7473                             | 7439      | ,'            | 1222                      |            | 7           | 746              |
|                                  |           |               |                           |            |             |                  |
| HYDROSTATIC TEST PRESSURE :      | 2630      | kP.a          | STRESS RE                 | LIEF CHAR  | T No.:      |                  |
| VATERIAL TEST CERTIFICATE No.: . | 88.89     | 6.82 J. Rt    | 1925 83                   | C487       | 2/048       | 72/033           |
| WATERIAL TEST CERTIFICATE No.:   | 0-33      | 84ULT         | rasonic/ <del>radii</del> | RIA RIC RI | FPORT No.:  | VN90-488/32      |
| REMARKS :                        |           |               |                           |            |             |                  |
|                                  |           |               |                           |            |             |                  |
| Contifu the show data to be      | mmat      | d #bo# #bd= 1 | Donasium Va-              |            |             | undamenta at th  |
| I certify the above data to be o |           |               |                           | ser sacisf | ies une rec | jurrenents of th |
| Regulations under the Victorian  | borrers a | nu Pressure   | ressers ACT               | 20         |             | -                |
| Date 14 - 12 - 90.               |           |               |                           |            |             | (₽               |

AVERY ™ Tubeclip Code 44001-500 44009-100 44005-10







**Appendix C: Laboratory Results Summary Tables** 



#### ABBREVIATIONS AND EXPLANATIONS

#### Abbreviations used in the Tables:

ABC: **Ambient Background Concentration** PCBs: Polychlorinated Biphenyls

ACM: **Asbestos Containing Material** PCE: Perchloroethylene (Tetrachloroethylene or Teterachloroethene)

ADWG: Australian Drinking Water Guidelines pH<sub>KCL</sub>: pH of filtered 1:20, 1M KCL extract, shaken overnight AF: pH<sub>ox</sub>: pH of filtered 1:20 1M KCl after peroxide digestion Asbestos Fines

ANZG Australian and New Zealand Guidelines PQL: **Practical Quantitation Limit** 

B(a)P: Benzo(a)pyrene RS: Rinsate Sample

CEC: **Cation Exchange Capacity** RSL: **Regional Screening Levels** CRC: Cooperative Research Centre RSW: **Restricted Solid Waste** SAC: CT: Contaminant Threshold Site Assessment Criteria

EILs: **Ecological Investigation Levels** SCC: **Specific Contaminant Concentration** 

ESLs: **Ecological Screening Levels** S<sub>cr</sub>: Chromium reducible sulfur FA: Fibrous Asbestos  $S_{POS}$ : Peroxide oxidisable Sulfur GIL: **Groundwater Investigation Levels** SSA: Site Specific Assessment

GSW: General Solid Waste **SSHSLs:** Site Specific Health Screening Levels

HILs: **Health Investigation Levels** TAA: Total Actual Acidity in 1M KCL extract titrated to pH6.5

HSLs: TB: **Health Screening Levels** Trip Blank

TCA: 1,1,1 Trichloroethane (methyl chloroform) **HSL-SSA:** Health Screening Level-SiteSpecific Assessment kg/L kilograms per litre TCE: Trichloroethylene (Trichloroethene)

NA: Not Analysed **TCLP:** Toxicity Characteristics Leaching Procedure NC: Not Calculated TPA: Total Potential Acidity, 1M KCL peroxide digest

NEPM: National Environmental Protection Measure TS: Trip Spike

NHMRC: National Health and Medical Research Council TRH: Total Recoverable Hydrocarbons NL: **Not Limiting** TSA: Total Sulfide Acidity (TPA-TAA)

NSL: No Set Limit Upper Level Confidence Limit on Mean Value OCP: Organochlorine Pesticides **USEPA** United States Environmental Protection Agency

OPP: **VOCC:** Volatile Organic Chlorinated Compounds Organophosphorus Pesticides

PAHs: Polycyclic Aromatic Hydrocarbons WHO: World Health Organisation

%w/w: weight per weight ppm: Parts per million

#### **Table Specific Explanations:**

#### **HIL Tables:**

- The chromium results are for Total Chromium which includes Chromium III and VI. For initial screening purposes, we have assumed that the samples contain only Chromium VI unless demonstrated otherwise by additional analysis.
- Carcinogenic PAHs is a toxicity weighted sum of analyte concentrations for a specific list of PAH compounds relative to B(a)P. It is also referred to as the B(a)P Toxic Equivalence Quotient (TEQ).
- Statistical calculations are undertaken using ProUCL (USEPA). Statistical calculation is usually undertaken using data from fill samples.

#### **EIL/ESL Table:**

ABC Values for selected metals have been adopted from the published background concentrations presented in Olszowy et. al., (1995), Trace Element Concentrations in Soils from Rural and Urban New South Wales (the 25th percentile values for old suburbs with low traffic have been quoted).

#### **Waste Classification and TCLP Table:**

- Data assessed using the NSW EPA Waste Classification Guidelines, Part 1: Classifying Waste (2014).
- The assessment of Total Moderately Harmful pesticides includes: Dichlorovos, Dimethoate, Fenitrothion, Ethion, Malathion
- Assessment of Total Scheduled pesticides include: HBC, alpha-BHC, gamma-BHC, beta-BHC, Heptachlor, Aldrin,  $Heptachlor \ Epoxide, \ gamma-Chlordane, \ alpha-chlordane, \ pp-DDE, \ Dieldrin, \ Endrin, \ pp-DDD, \ pp-DDT, \ Endrin \ Aldehyde.$

#### QA/QC Table:

- Field blank, Inter and Intra laboratory duplicate results are reported in mg/kg.
- Trip spike results are reported as percentage recovery.
- Field rinsate results are reported in μg/L.



TABLE S1

SOIL LABORATORY RESULTS COMPARED TO NEPM 2013.

HIL-C: 'Public open space; secondary schools; and footpaths'

|                        |                 |                       |   |   |          | HEAVY N | METALS |           |        |       |       | PAHs         |  |  | ORGANOCHL  | ORINE PESTI | CIDES (OCPs)   |  |  | OP PESTICIDES (OPPs)   |                                      |                      |
|------------------------|-----------------|-----------------------|---|---|----------|---------|--------|-----------|--------|-------|-------|--------------|--|--|--|-------------|--|--|--|--|--------------------------------------|----------------------|
| All data in mg/kg unle | ess stated othe | erwise                | Arsenic   | Cadmium   | Chromium | Connor  | Lood   | Mercury   | Nickel | Zinc  | Total | Carcinogenic | НСВ  | Endosulfan   | Methoxychlor   | Aldrin &    | Chlordane  | DDT, DDD   | Heptachlor   | Chlorpyrifos   | TOTAL PCBs                           | ASBESTOS FIBRES      |
|                        |                 |                       | Arsenic   | Caumum  | Chromium | Copper  | Lead   | iviercury | Nickei | ZITIC | PAHs  | PAHs         |  |  |  | Dieldrin    |  | & DDE  |  |  |                                      |                      |
| PQL - Envirolab Servio | ces             |                       | 4   | 0.4   | 1        | 1       | 1      | 0.1       | 1      | 1     | -     | 0.5          | 0.1  | 0.1  | 0.1  | 0.1         | 0.1  | 0.1  | 0.1  | 0.1  | 0.1                                  | 100                  |
| Site Assessment Crite  | ria (SAC)       |                       | 300   | 90  | 300      | 17000   | 600    | 80        | 1200   | 30000 | 300   | 3            | 10   | 340  | 400  | 10          | 70   | 400  | 10   | 250  | 1                                    | Detected/Not Detecte |
| Sample Reference       | Sample<br>Depth | Sample Description    |   |   |          |         |        |           |        |       |       |              |  |  |  |             |  |  |  |  |                                      |                      |
| BH1                    | 0-0.1           | Fill: Silty Clay      | <4  | <0.4  | 25       | 25      | 22     | <0.1      | 29     | 78    | <0.05 | <0.5         | <0.1   | <0.1   | <0.1   | 1.1         | <0.1   | <0.1   | <0.1   | <0.1   | <0.1                                 | Not Detected         |
| BH1 (lab duplicate)    | 0-0.1           | Fill: Silty Clay      | <4  | <0.4  | 23       | 20      | 20     | <0.1      | 26     | 66    | <0.05 | <0.5         | <0.1   | <0.1   | <0.1   | 1.1         | <0.1   | <0.1   | <0.1   | <0.1   | <0.1                                 | NA                   |
| BH2                    | 0-0.1           | Fill: Sandy Clay      | <4  | <0.4  | 24       | 13      | 10     | <0.1      | 23     | 34    | <0.05 | <0.5         | <0.1   | <0.1   | <0.1   | <0.1        | <0.1   | <0.1   | <0.1   | <0.1   | <0.1                                 | Not Detected         |
| BH3                    | 0-0.1           | Fill: Sandy Clay      | <4  | <0.4  | 28       | 25      | 37     | 0.1       | 33     | 80    | 5.5   | 0.8          | <0.1   | <0.1   | <0.1   | <0.1        | <0.1   | <0.1   | <0.1   | <0.1   | <0.1                                 | Not Detected         |
| BH4                    | 0-0.1           | Fill: Silty Sand      | <4  | <0.4  | 22       | 18      | 29     | <0.1      | 28     | 57    | <0.05 | <0.5         | <0.1   | <0.1   | <0.1   | <0.1        | <0.1   | <0.1   | <0.1   | <0.1   | <0.1                                 | Not Detected         |
| BH5                    | 0-0.1           | Fill: Silty Sand      | <4  | <0.4  | 30       | 20      | 19     | 8.4       | 31     | 44    | <0.05 | <0.5         | <0.1   | <0.1   | <0.1   | <0.1        | <0.1   | <0.1   | <0.1   | <0.1   | <0.1                                 | Not Detected         |
| BH6                    | 0-0.1           | Fill: Silty Sand      | <4  | <0.4  | 32       | 20      | 29     | 0.3       | 30     | 50    | <0.05 | <0.5         | <0.1   | <0.1   | <0.1   | <0.1        | <0.1   | <0.1   | <0.1   | <0.1   | <0.1                                 | Not Detected         |
| BH7                    | 0.15-0.3        | Fill: Sandy Gravel    | <4  | <0.4  | 56       | 38      | 5      | <0.1      | 90     | 45    | <0.05 | <0.5         | <0.1   | <0.1   | <0.1   | <0.1        | <0.1   | <0.1   | <0.1   | <0.1   | <0.1                                 | Not Detected         |
| BH8                    | 0-0.1           | Fill: Sandy Clay      | <4  | <0.4  | 27       | 19      | 11     | <0.1      | 32     | 38    | <0.05 | <0.5         | <0.1   | <0.1   | <0.1   | <0.1        | <0.1   | <0.1   | <0.1   | <0.1   | <0.1                                 | Not Detected         |
| TP1                    | 0-0.1           | Fill: Silty Clay      | <4  | <0.4  | 25       | 19      | 11     | <0.1      | 24     | 74    | <0.05 | <0.5         | <0.1   | <0.1   | <0.1   | <0.1        | <0.1   | <0.1   | <0.1   | <0.1   | <0.1                                 | Not Detected         |
| TP2                    | 0-0.1           | Fill: Gravelly Clay   | <4  | <0.4  | 27       | 31      | 35     | 0.1       | 32     | 71    | <0.05 | <0.5         | <0.1   | <0.1   | <0.1   | <0.1        | <0.1   | <0.1   | <0.1   | <0.1   | <0.1                                 | NA                   |
| TP2 (lab duplicate)    | 0-0.1           | Fill: Gravelly Clay   | <4  | <0.4  | 28       | 32      | 35     | 0.2       | 35     | 75    | <0.05 | <0.5         | <0.1   | <0.1   | <0.1   | <0.1        | <0.1   | <0.1   | <0.1   | <0.1   | <0.1                                 | NA                   |
| TP3                    | 0-0.1           | Fill: Gravelly Clay   | <4  | <0.4  | 30       | 23      | 12     | <0.1      | 33     | 44    | <0.05 | <0.5         | <0.1   | <0.1   | <0.1   | <0.1        | <0.1   | <0.1   | <0.1   | <0.1   | <0.1                                 | Not Detected         |
| TP4                    | 0-0.1           | Fill: Sandy Clay      | <4  | <0.4  | 31       | 22      | 14     | 0.3       | 36     | 44    | <0.05 | <0.5         | <0.1   | <0.1   | <0.1   | <0.1        | <0.1   | <0.1   | <0.1   | <0.1   | <0.1                                 | Not Detected         |
| TP5                    | 0-0.1           | Fill: Gravelly Clay   | <4  | <0.4  | 25       | 20      | 20     | 0.2       | 29     | 51    | <0.05 | <0.5         | <0.1   | <0.1   | <0.1   | <0.1        | <0.1   | <0.1   | <0.1   | <0.1   | <0.1                                 | Not Detected         |
| TP6                    | 0-0.1           | Fill: Gravelly Clay   | <4  | <0.4  | 61       | 16      | 11     | <0.1      | 19     | 48    | <0.05 | <0.5         | <0.1   | <0.1   | <0.1   | <0.1        | <0.1   | <0.1   | <0.1   | <0.1   | <0.1                                 | NA                   |
| SDUP1                  | -               | Fill: Silty Clay      | <4  | <0.4  | 28       | 25      | 22     | <0.1      | 35     | 81    | <0.05 | <0.5         | <0.1   | <0.1   | <0.1   | 1.2         | <0.1   | <0.1   | <0.1   | <0.1   | <0.1                                 | NA                   |
| SDUP2                  | -               | Fill: Gravelly Clay   | <4  | <0.4  | 23       | 18      | 11     | <0.1      | 22     | 69    | <0.05 | <0.5         | <0.1   | <0.1   | <0.1   | <0.1        | <0.1   | <0.1   | <0.1   | <0.1   | <0.1                                 | NA                   |
| FCF1-TP2               | 0.1-0.3         | Fibre Cement Fragment | NA  | NA  | NA       | NA      | NA     | NA        | NA     | NA    | NA    | NA           | NA   | NA   | NA   | NA          | NA   | NA   | NA   | NA   | NA                                   | Detected             |
|                        |                 |                       |   |   |          |         |        |           |        |       |       |              |  |  |  |             |  |  |  |  |                                      |                      |
| Total Number of Sa     | mples           |                       | 18  | 18  | 18       | 18      | 18     | 18        | 18     | 18    | 18    | 18           | 18   | 18   | 18   | 18          | 18   | 18   | 18   | 18   | 18                                   | 13                   |
| Maximum Value          |                 |                       | <pql< td=""><td><pql< td=""><td>61</td><td>38</td><td>37</td><td>8.4</td><td>90</td><td>81</td><td>5.5</td><td>0.8</td><td><pql< td=""><td><pql< td=""><td><pql< td=""><td>1.2</td><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td>Detected</td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<> | <pql< td=""><td>61</td><td>38</td><td>37</td><td>8.4</td><td>90</td><td>81</td><td>5.5</td><td>0.8</td><td><pql< td=""><td><pql< td=""><td><pql< td=""><td>1.2</td><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td>Detected</td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<> | 61       | 38      | 37     | 8.4       | 90     | 81    | 5.5   | 0.8          | <pql< td=""><td><pql< td=""><td><pql< td=""><td>1.2</td><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td>Detected</td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<> | <pql< td=""><td><pql< td=""><td>1.2</td><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td>Detected</td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<> | <pql< td=""><td>1.2</td><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td>Detected</td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<> | 1.2         | <pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td>Detected</td></pql<></td></pql<></td></pql<></td></pql<></td></pql<> | <pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td>Detected</td></pql<></td></pql<></td></pql<></td></pql<> | <pql< td=""><td><pql< td=""><td><pql< td=""><td>Detected</td></pql<></td></pql<></td></pql<> | <pql< td=""><td><pql< td=""><td>Detected</td></pql<></td></pql<> | <pql< td=""><td>Detected</td></pql<> | Detected             |

Concentration above the SAC Asbestos Detected Concentration above the PQL VALUE Detected Bold



TABLE S2

SOIL LABORATORY RESULTS COMPARED TO HSLs

All data in mg/kg unless stated otherwise

|                         |                 |                     |                   |               | C <sub>6</sub> -C <sub>10</sub> (F1)  | >C <sub>10</sub> -C <sub>16</sub> (F2)  | Benzene   | Toluene   | Ethylbenzene  | Xylenes   | Naphthalene                                     | Field PID<br>Measurement |
|-------------------------|-----------------|---------------------|-------------------|---------------|---|---|---|---|---|---|---|--------------------------|
| QL - Envirolab Services |                 |                     |                   |               | 25  | 50  | 0.2   | 0.5   | 1   | 1   | 1   | ppm                      |
| IEPM 2013 HSL Land Us   | e Category      |                     |                   |               |   |   | HSL-A/B: LC   | W/HIGH DENSITY  | RESIDENTIAL   |   |   |                          |
| Sample Reference        | Sample<br>Depth | Sample Description  | Depth<br>Category | Soil Category |   |   |   |   |   |   |   |                          |
| BH1                     | 0-0.1           | Fill: Silty Clay    | 0m to <1m         | Sand          | <25   | <50   | <0.2  | <0.5  | <1  | <1  | <1  | 0                        |
| BH1 (lab duplicate)     | 0-0.1           | Fill: Silty Clay    | 0m to <1m         | Sand          | <25   | <50   | <0.2  | <0.5  | <1  | <1  | <1  | 0                        |
| BH1                     | 1.0-1.45        | Silty Clay          | 0m to <1m         | Sand          | <25   | <50   | <0.2  | <0.5  | <1  | <1  | <1  | 3.9                      |
| BH2                     | 0-0.1           | Fill: Sandy Clay    | 0m to <1m         | Sand          | <25   | <50   | <0.2  | <0.5  | <1  | <1  | <1  | 0                        |
| BH3                     | 0-0.1           | Fill: Sandy Clay    | 0m to <1m         | Sand          | <25   | <50   | <0.2  | <0.5  | <1  | <1  | <1  | 0                        |
| BH4                     | 0-0.1           | Fill: Silty Sand    | 0m to <1m         | Sand          | <25   | <50   | <0.2  | <0.5  | <1  | <1  | <1  | 0                        |
| BH5                     | 0-0.1           | Fill: Silty Sand    | 0m to <1m         | Sand          | <25   | <50   | <0.2  | <0.5  | <1  | <1  | <1  | 0                        |
| BH6                     | 0-0.1           | Fill: Silty Sand    | 0m to <1m         | Sand          | <25   | <50   | <0.2  | <0.5  | <1  | <1  | <1  | 0                        |
| BH7                     | 0.15-0.3        | Fill: Sandy Gravel  | 0m to <1m         | Sand          | <25   | <50   | <0.2  | <0.5  | <1  | <1  | <1  | 0                        |
| BH8                     | 0-0.1           | Fill: Sandy Clay    | 0m to <1m         | Sand          | <25   | <50   | <0.2  | <0.5  | <1  | <1  | <1  | 0.1                      |
| TP1                     | 0-0.1           | Fill: Silty Clay    | 0m to <1m         | Sand          | <25   | <50   | <0.2  | <0.5  | <1  | <1  | <1  | 0.1                      |
| TP2                     | 0-0.1           | Fill: Gravelly Clay | 0m to <1m         | Sand          | <25   | <50   | <0.2  | <0.5  | <1  | <1  | <1  | 0                        |
| TP2 (lab duplicate)     | 0-0.1           | Fill: Gravelly Clay | 0m to <1m         | Sand          | <25   | <50   | <0.2  | <0.5  | <1  | <1  | <1  | 0                        |
| TP3                     | 0-0.1           | Fill: Gravelly Clay | 0m to <1m         | Sand          | <25   | <50   | <0.2  | <0.5  | <1  | <1  | <1  | 0                        |
| TP4                     | 0-0.1           | Fill: Sandy Clay    | 0m to <1m         | Sand          | <25   | <50   | <0.2  | <0.5  | <1  | <1  | <1  | 0                        |
| TP5                     | 0-0.1           | Fill: Gravelly Clay | 0m to <1m         | Sand          | <25   | <50   | <0.2  | <0.5  | <1  | <1  | <1  | 0                        |
| TP6                     | 0-0.1           | Fill: Gravelly Clay | 0m to <1m         | Sand          | <25   | <50   | <0.2  | <0.5  | <1  | <1  | <1  | 0                        |
| SDUP1                   | -               | Fill: Silty Clay    | 0m to <1m         | Sand          | <25   | <50   | <0.2  | <0.5  | <1  | <1  | <1  | 0                        |
| SDUP2                   | -               | Fill: Gravelly Clay | 0m to <1m         | Sand          | <25   | <50   | <0.2  | <0.5  | <1  | <1  | <1  | 0                        |
| Total Number of Samp    | ples            |                     |                   |               | 19  | 19  | 19  | 19  | 19  | 19  | 19  | 19                       |
| Maximum Value           |                 |                     |                   |               | <pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<> | <pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<> | <pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<> | <pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""></pql<></td></pql<></td></pql<></td></pql<></td></pql<> | <pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""></pql<></td></pql<></td></pql<></td></pql<> | <pql< td=""><td><pql< td=""><td><pql< td=""></pql<></td></pql<></td></pql<> | <pql< td=""><td><pql< td=""></pql<></td></pql<> | <pql< td=""></pql<>      |

Concentration above the SAC

Concentration above the PQL

The guideline corresponding to the concentration above the SAC is highlighted in grey in the Site Assessment Criteria Table below

|                     |                 |                     |                   | HSL SOIL ASSES | SMENT CRITERIA                       |  |         |         |              |         |             |
|---------------------|-----------------|---------------------|-------------------|----------------|--------------------------------------|--|---------|---------|--------------|---------|-------------|
| Sample Reference    | Sample<br>Depth | Sample Description  | Depth<br>Category | Soil Category  | C <sub>6</sub> -C <sub>10</sub> (F1) | >C <sub>10</sub> -C <sub>16</sub> (F2) | Benzene | Toluene | Ethylbenzene | Xylenes | Naphthalene |
| BH1                 | 0-0.1           | Fill: Silty Clay    | 0m to <1m         | Sand           | 45                                   | 110                                    | 0.5     | 160     | 55           | 40      | 3           |
| BH1 (lab duplicate) | 0-0.1           | Fill: Silty Clay    | 0m to <1m         | Sand           | 45                                   | 110                                    | 0.5     | 160     | 55           | 40      | 3           |
| BH1                 | 1.0-1.45        | Silty Clay          | 0m to <1m         | Sand           | 45                                   | 110                                    | 0.5     | 160     | 55           | 40      | 3           |
| BH2                 | 0-0.1           | Fill: Sandy Clay    | 0m to <1m         | Sand           | 45                                   | 110                                    | 0.5     | 160     | 55           | 40      | 3           |
| BH3                 | 0-0.1           | Fill: Sandy Clay    | 0m to <1m         | Sand           | 45                                   | 110                                    | 0.5     | 160     | 55           | 40      | 3           |
| BH4                 | 0-0.1           | Fill: Silty Sand    | 0m to <1m         | Sand           | 45                                   | 110                                    | 0.5     | 160     | 55           | 40      | 3           |
| BH5                 | 0-0.1           | Fill: Silty Sand    | 0m to <1m         | Sand           | 45                                   | 110                                    | 0.5     | 160     | 55           | 40      | 3           |
| BH6                 | 0-0.1           | Fill: Silty Sand    | 0m to <1m         | Sand           | 45                                   | 110                                    | 0.5     | 160     | 55           | 40      | 3           |
| BH7                 | 0.15-0.3        | Fill: Sandy Gravel  | 0m to <1m         | Sand           | 45                                   | 110                                    | 0.5     | 160     | 55           | 40      | 3           |
| BH8                 | 0-0.1           | Fill: Sandy Clay    | 0m to <1m         | Sand           | 45                                   | 110                                    | 0.5     | 160     | 55           | 40      | 3           |
| TP1                 | 0-0.1           | Fill: Silty Clay    | 0m to <1m         | Sand           | 45                                   | 110                                    | 0.5     | 160     | 55           | 40      | 3           |
| TP2                 | 0-0.1           | Fill: Gravelly Clay | 0m to <1m         | Sand           | 45                                   | 110                                    | 0.5     | 160     | 55           | 40      | 3           |
| TP2 (lab duplicate) | 0-0.1           | Fill: Gravelly Clay | 0m to <1m         | Sand           | 45                                   | 110                                    | 0.5     | 160     | 55           | 40      | 3           |
| TP3                 | 0-0.1           | Fill: Gravelly Clay | 0m to <1m         | Sand           | 45                                   | 110                                    | 0.5     | 160     | 55           | 40      | 3           |
| TP4                 | 0-0.1           | Fill: Sandy Clay    | 0m to <1m         | Sand           | 45                                   | 110                                    | 0.5     | 160     | 55           | 40      | 3           |
| TP5                 | 0-0.1           | Fill: Gravelly Clay | 0m to <1m         | Sand           | 45                                   | 110                                    | 0.5     | 160     | 55           | 40      | 3           |
| TP6                 | 0-0.1           | Fill: Gravelly Clay | 0m to <1m         | Sand           | 45                                   | 110                                    | 0.5     | 160     | 55           | 40      | 3           |
| SDUP1               | -               | Fill: Silty Clay    | 0m to <1m         | Sand           | 45                                   | 110                                    | 0.5     | 160     | 55           | 40      | 3           |
| SDUP2               | -               | Fill: Gravelly Clay | 0m to <1m         | Sand           | 45                                   | 110                                    | 0.5     | 160     | 55           | 40      | 3           |



# TABLE S3 SOIL LABORATORY RESULTS COMPARED TO MANAGEMENT LIMITS All data in mg/kg unless stated otherwise

|                     |              |              | C <sub>6</sub> -C <sub>10</sub> (F1) plus                               | >C <sub>10</sub> -C <sub>16</sub> (F2) plus | >C <sub>16</sub> -C <sub>34</sub> (F3)  | >C <sub>34</sub> -C <sub>40</sub> (F4) |
|---------------------|--------------|--------------|---|---|---|--|
|                     |              |              | BTEX  | napthalene                                  | -C <sub>16</sub> -C <sub>34</sub> (1 3) | 7C <sub>34</sub> -C <sub>40</sub> (F4) |
| PQL - Envirolab Sen | vices        | -            | 25  | 50  | 100                                     | 100                                    |
| NEPM 2013 Land U    | se Category  |              | RES   | SIDENTIAL, PARKLAND                         | & PUBLIC OPEN SP                        | ACE                                    |
| Sample Reference    | Sample Depth | Soil Texture |   |   |   |  |
| BH1                 | 0-0.1        | Coarse       | <25   | <50   | 100                                     | <100                                   |
| BH1 (lab replicate) | 0-0.1        | Coarse       | <25   | <50   | 130                                     | <100                                   |
| BH1                 | 1.0-1.45     | Coarse       | <25   | <50   | <100                                    | <100                                   |
| BH2                 | 0-0.1        | Coarse       | <25   | <50   | <100                                    | <100                                   |
| BH3                 | 0-0.1        | Coarse       | <25   | <50   | 100                                     | <100                                   |
| BH4                 | 0-0.1        | Coarse       | <25   | <50   | <100                                    | <100                                   |
| BH5                 | 0-0.1        | Coarse       | <25   | <50   | <100                                    | <100                                   |
| BH6                 | 0-0.1        | Coarse       | <25   | <50   | <100                                    | <100                                   |
| BH7                 | 0.15-0.3     | Coarse       | <25   | <50   | <100                                    | <100                                   |
| BH8                 | 0-0.1        | Coarse       | <25   | <50   | <100                                    | <100                                   |
| TP1                 | 0-0.1        | Coarse       | <25   | <50   | 140                                     | <100                                   |
| TP2                 | 0-0.1        | Coarse       | <25   | <50   | <100                                    | <100                                   |
| TP2 (lab replicate) | 0-0.1        | Coarse       | <25   | <50   | <100                                    | <100                                   |
| TP3                 | 0-0.1        | Coarse       | <25   | <50   | <100                                    | <100                                   |
| TP4                 | 0-0.1        | Coarse       | <25   | <50   | <100                                    | <100                                   |
| TP5                 | 0-0.1        | Coarse       | <25   | <50   | <100                                    | <100                                   |
| TP6                 | 0-0.1        | Coarse       | <25   | <50   | <100                                    | <100                                   |
| SDUP1               | -            | Coarse       | <25   | <50   | 100                                     | 110                                    |
| SDUP2               | -            | Coarse       | <25   | <50   | 170                                     | <100                                   |
| Total Number of Sa  | mples        |              | 19  | 19  | 19                                      | 19                                     |
| Maximum Value       |              |              | <pql< td=""><td><pql< td=""><td>170</td><td>110</td></pql<></td></pql<> | <pql< td=""><td>170</td><td>110</td></pql<> | 170                                     | 110                                    |

Concentration above the SAC

Concentration above the PQL

Bold

|                     |              |              | MANAGEMENT LIN                                    | IIT ASSESSMENT CRITI                                      | ERIA                                   |  |
|---------------------|--------------|--------------|---|---|--|--|
| Sample Reference    | Sample Depth | Soil Texture | C <sub>6</sub> -C <sub>10</sub> (F1) plus<br>BTEX | >C <sub>10</sub> -C <sub>16</sub> (F2) plus<br>napthalene | >C <sub>16</sub> -C <sub>34</sub> (F3) | >C <sub>34</sub> -C <sub>40</sub> (F4) |
| BH1                 | 0-0.1        | Coarse       | 700   | 1000  | 2500                                   | 10000                                  |
| BH1 (lab replicate) | 0-0.1        | Coarse       | 700   | 1000  | 2500                                   | 10000                                  |
| BH1                 | 1.0-1.45     | Coarse       | 700   | 1000  | 2500                                   | 10000                                  |
| BH2                 | 0-0.1        | Coarse       | 700   | 1000  | 2500                                   | 10000                                  |
| BH3                 | 0-0.1        | Coarse       | 700   | 1000  | 2500                                   | 10000                                  |
| BH4                 | 0-0.1        | Coarse       | 700   | 1000  | 2500                                   | 10000                                  |
| BH5                 | 0-0.1        | Coarse       | 700   | 1000  | 2500                                   | 10000                                  |
| BH6                 | 0-0.1        | Coarse       | 700   | 1000  | 2500                                   | 10000                                  |
| BH7                 | 0.15-0.3     | Coarse       | 700   | 1000  | 2500                                   | 10000                                  |
| BH8                 | 0-0.1        | Coarse       | 700   | 1000  | 2500                                   | 10000                                  |
| TP1                 | 0-0.1        | Coarse       | 700   | 1000  | 2500                                   | 10000                                  |
| TP2                 | 0-0.1        | Coarse       | 700   | 1000  | 2500                                   | 10000                                  |
| TP2 (lab replicate) | 0-0.1        | Coarse       | 700   | 1000  | 2500                                   | 10000                                  |
| TP3                 | 0-0.1        | Coarse       | 700   | 1000  | 2500                                   | 10000                                  |
| TP4                 | 0-0.1        | Coarse       | 700   | 1000  | 2500                                   | 10000                                  |
| TP5                 | 0-0.1        | Coarse       | 700   | 1000  | 2500                                   | 10000                                  |
| TP6                 | 0-0.1        | Coarse       | 700   | 1000  | 2500                                   | 10000                                  |
| SDUP1               | -            | Coarse       | 700   | 1000  | 2500                                   | 10000                                  |
| SDUP2               | -            | Coarse       | 700   | 1000  | 2500                                   | 10000                                  |



TABLE S4
SOIL LABORATORY RESULTS COMPARED TO DIRECT CONTACT CRITERIA
All data in mg/kg unless stated otherwise

| Analyte                  |              | C <sub>6</sub> -C <sub>10</sub>   | >C <sub>10</sub> -C <sub>16</sub>   | >C <sub>16</sub> -C <sub>34</sub> | >C <sub>34</sub> -C <sub>40</sub> | Benzene   | Toluene   | Ethylbenzene  | Xylenes   | Naphthalene                       | PID   |
|--------------------------|--------------|---|---|-----------------------------------|-----------------------------------|---|---|---|---|-----------------------------------|-------|
| PQL - Envirolab Services |              | 25  | 50  | 100                               | 100                               | 0.2   | 0.5   | 1   | 1   | 1                                 |       |
| CRC 2011 -Direct contac  | t Criteria   | 5,100   | 3,800   | 5,300                             | 7,400                             | 120   | 18,000  | 5,300   | 15,000  | 1,900                             |       |
| Site Use                 |              |   |   |                                   | RECREATIO                         | NAL - DIRECT SC   | OIL CONTACT   |   |   |                                   |       |
| Sample Reference         | Sample Depth |   |   |                                   |                                   |   |   |   |   |                                   |       |
| BH1                      | 0-0.1        | <25   | <50   | 100                               | <100                              | <0.2  | <0.5  | <1  | <1  | <1                                | 0     |
| BH1 (lab duplicate)      | 0-0.1        | <25   | <50   | 130                               | <100                              | <0.2  | <0.5  | <1  | <1  | <1                                | 0     |
| BH1                      | 1.0-1.45     | <25   | <50   | <100                              | <100                              | <0.2  | <0.5  | <1  | <1  | <1                                | 3.9   |
| BH2                      | 0-0.1        | <25   | <50   | <100                              | <100                              | <0.2  | <0.5  | <1  | <1  | <1                                | 0     |
| BH3                      | 0-0.1        | <25   | <50   | 100                               | <100                              | <0.2  | <0.5  | <1  | <1  | <1                                | 0     |
| BH4                      | 0-0.1        | <25   | <50   | <100                              | <100                              | <0.2  | <0.5  | <1  | <1  | <1                                | 0     |
| BH5                      | 0-0.1        | <25   | <50   | <100                              | <100                              | <0.2  | <0.5  | <1  | <1  | <1                                | 0     |
| BH6                      | 0-0.1        | <25   | <50   | <100                              | <100                              | <0.2  | <0.5  | <1  | <1  | <1                                | 0     |
| BH7                      | 0.15-0.3     | <25   | <50   | <100                              | <100                              | <0.2  | <0.5  | <1  | <1  | <1                                | 0     |
| BH8                      | 0-0.1        | <25   | <50   | <100                              | <100                              | <0.2  | <0.5  | <1  | <1  | <1                                | 0.1   |
| TP1                      | 0-0.1        | <25   | <50   | 140                               | <100                              | <0.2  | <0.5  | <1  | <1  | <1                                | 0.1   |
| TP2                      | 0-0.1        | <25   | <50   | <100                              | <100                              | <0.2  | <0.5  | <1  | <1  | <1                                | 0     |
| TP2 (lab duplicate)      | 0-0.1        | <25   | <50   | <100                              | <100                              | <0.2  | <0.5  | <1  | <1  | <1                                | 0     |
| TP3                      | 0-0.1        | <25   | <50   | <100                              | <100                              | <0.2  | <0.5  | <1  | <1  | <1                                | 0     |
| TP4                      | 0-0.1        | <25   | <50   | <100                              | <100                              | <0.2  | <0.5  | <1  | <1  | <1                                | 0     |
| TP5                      | 0-0.1        | <25   | <50   | <100                              | <100                              | <0.2  | <0.5  | <1  | <1  | <1                                | 0     |
| TP6                      | 0-0.1        | <25   | <50   | <100                              | <100                              | <0.2  | <0.5  | <1  | <1  | <1                                | 0     |
| SDUP1                    | -            | <25   | <50   | 100                               | 110                               | <0.2  | <0.5  | <1  | <1  | <1                                | 0     |
| SDUP2                    | -            | <25   | <50   | 170                               | <100                              | <0.2  | <0.5  | <1  | <1  | <1                                | 0     |
| Total Number of Sample   | 96           | 19  | 19  | 19                                | 19                                | 19  | 19  | 19  | 19  | 19                                | 19    |
| Maximum Value            |              | <pql< td=""><td><pql< td=""><td>170</td><td>110</td><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td>NA NA</td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<> | <pql< td=""><td>170</td><td>110</td><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td>NA NA</td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<> | 170                               | 110                               | <pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td>NA NA</td></pql<></td></pql<></td></pql<></td></pql<></td></pql<> | <pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td>NA NA</td></pql<></td></pql<></td></pql<></td></pql<> | <pql< td=""><td><pql< td=""><td><pql< td=""><td>NA NA</td></pql<></td></pql<></td></pql<> | <pql< td=""><td><pql< td=""><td>NA NA</td></pql<></td></pql<> | <pql< td=""><td>NA NA</td></pql<> | NA NA |

Concentration above the SAC Concentration above the PQL

VALUE Bold



TABLE S5
ASBESTOS QUANTIFICATION - FIELD OBSERVATIONS AND LABORATORY RESULTS
HSL-C:Public open space; secondary schools; and footpaths

|              |                     |                 |                                   |         |                     |                 | F      | IELD DATA |                      |  |  |                |                               |  |                         |                       |                 |                    | LABORATO  | DRY DATA             |                             |                              |                                  |                                |                                     |                                    |
|--------------|---------------------|-----------------|-----------------------------------|---------|---------------------|-----------------|--------|-----------|----------------------|--|--|----------------|-------------------------------|--|-------------------------|-----------------------|-----------------|--------------------|---|----------------------|-----------------------------|------------------------------|----------------------------------|--------------------------------|-------------------------------------|------------------------------------|
| Date Sampled | Sample<br>reference | Sample<br>Depth | Visible<br>ACM in<br>top<br>100mm | of Soil | Soil<br>Mass<br>(g) | Mass ACM (g)    | Mass   | [Asbestos | Mass ACM <7mm (g)    | Mass<br>Asbestos in<br>ACM <7mm<br>(g) | [Asbestos<br>from ACM<br><7mm in<br>soil] (%w/w) |                | Mass<br>Asbestos<br>in FA (g) | [Asbestos<br>from FA in<br>soil]<br>(%w/w) | Lab<br>Report<br>Number | Sample<br>refeference | Sample<br>Depth | Sample<br>Mass (g) | Asbestos ID in soil (AS4964) >0.1g/kg                                       | Trace Analysis       | Total<br>Asbestos<br>(g/kg) | Asbestos ID in soil <0.1g/kg | ACM<br>>7mm<br>Estimation<br>(g) | FA and AF<br>Estimation<br>(g) | ACM<br>>7mm<br>Estimation<br>%(w/w) | FA and AF<br>Estimatio<br>n %(w/w) |
| SAC          |                     |                 | No                                |         |                     |                 |        | 0.02      |                      |  | 0.001  |                |                               | 0.001                                      |                         |                       |                 |                    |   |                      |                             |                              |                                  |                                | 0.02                                | 0.001                              |
| 1/06/2022    | BH1                 | 0-0.1           | No                                | 10      | 10,700              | No ACM observed |        |           | No ACM <7mm observed |  |  | No FA observed |                               |  | 297823                  | BH1                   | 0-0.1           | 630.91             | No asbestos detected at reporting limit of 0.1g/kg: Organic fibres detected | No asbestos detected | <0.1                        | No visible asbestos detected |                                  |                                | <0.01                               | <0.001                             |
| 1/06/2022    | BH1                 | 0.1-0.6         | NA                                | 10      | 10,650              | No ACM observed |        |           | No ACM <7mm observed |  |  | No FA observed |                               |  |                         |                       |                 |                    |   |                      |                             |                              |                                  |                                |                                     |                                    |
| 1/06/2022    | BH2                 | 0-0.1           | No                                | 10      | 10,000              | No ACM observed |        |           | No ACM <7mm observed |  |  | No FA observed |                               |  | 297823                  | BH2                   | 0-0.1           | 691.17             | No asbestos detected at reporting limit of 0.1g/kg: Organic fibres detected | No asbestos detected | <0.1                        | No visible asbestos detected |                                  |                                | <0.01                               | <0.001                             |
| 1/06/2022    | BH2                 | 0.1-0.8         | NA                                | NA      | 4,180               | No ACM observed |        |           | No ACM <7mm observed |  |  | No FA observed |                               |  |                         |                       |                 |                    |   |                      |                             |                              |                                  |                                |                                     |                                    |
| 1/06/2022    | вн3                 | 0-0.1           | No                                | 10      | 10,070              | No ACM observed |        |           | No ACM <7mm observed |  |  | No FA observed |                               |  | 297823                  | BH3                   | 0-0.1           | 642.9              | No asbestos detected at reporting limit of 0.1g/kg: Organic fibres detected | No asbestos detected | <0.1                        | No visible asbestos detected |                                  |                                | <0.01                               | <0.001                             |
| 1/06/2022    | вн3                 | 0.1-0.8         | NA                                | NA      | 4,750               | No ACM observed |        |           | No ACM <7mm observed |  |  | No FA observed |                               |  |                         |                       |                 |                    |   |                      |                             |                              |                                  |                                |                                     |                                    |
| 2/06/2022    | BH4                 | 0-0.1           | No                                | 10      | 10,690              | No ACM observed |        |           | No ACM <7mm observed |  |  | No FA observed |                               |  | 297823                  | BH4                   | 0-0.1           | 749.46             | No asbestos detected at reporting limit of 0.1g/kg: Organic fibres detected | No asbestos detected | <0.1                        | No visible asbestos detected |                                  |                                | <0.01                               | <0.001                             |
| 2/06/2022    | BH4                 | 0.1-1.0         | NA                                | NA      | NA                  | No ACM observed |        |           | No ACM <7mm observed |  |  | No FA observed |                               |  |                         |                       |                 |                    |   |                      |                             |                              |                                  |                                |                                     |                                    |
| 2/06/2022    | BH4                 | 1.0-1.6         | NA                                | NA      | 4,070               | No ACM observed |        |           | No ACM <7mm observed |  |  | No FA observed |                               |  |                         |                       |                 |                    |   |                      |                             |                              |                                  |                                |                                     |                                    |
| 2/06/2022    | BH5                 | 0-0.1           | No                                | NA      | 9,870               | No ACM observed |        |           | No ACM <7mm observed |  |  | No FA observed |                               |  | 297823                  | BH5                   | 0-0.1           | 702.75             | No asbestos detected at reporting limit of 0.1g/kg: Organic fibres detected | No asbestos detected | <0.1                        | No visible asbestos detected |                                  |                                | <0.01                               | <0.001                             |
| 2/06/2022    | BH5                 | 0.1-0.8         | NA                                | NA      | 2,020               | No ACM observed |        |           | No ACM <7mm observed |  |  | No FA observed |                               |  |                         |                       |                 |                    |   |                      |                             |                              |                                  |                                |                                     |                                    |
| 2/06/2022    | вн6                 | 0-0.1           | No                                | 10      | 11,020              | No ACM observed |        |           | No ACM <7mm observed |  |  | No FA observed |                               |  | 297823                  | вн6                   | 0-0.1           | 544.19             | No asbestos detected at reporting limit of 0.1g/kg: Organic fibres detected | No asbestos detected | <0.1                        | No visible asbestos detected |                                  |                                | <0.01                               | <0.001                             |
| 3/06/2022    | BH7                 | 0.15-0.3        | NA                                | NA      | 2,770               | No ACM observed |        |           | No ACM <7mm observed |  |  | No FA observed |                               |  | 297823                  | BH7                   | 0.15-0.3        | 831.26             | No asbestos detected at reporting limit of 0.1g/kg: Organic fibres detected | No asbestos detected | <0.1                        | No visible asbestos detected |                                  |                                | <0.01                               | <0.001                             |
| 3/06/2022    | BH7                 | 0.3-0.7         | NA                                | NA      | 9,500               | No ACM observed |        |           | No ACM <7mm observed |  |  | No FA observed |                               |  |                         |                       |                 |                    |   |                      |                             |                              |                                  |                                |                                     |                                    |
| 3/06/2022    | BH8                 | 0-0.1           | No                                | 10      | 10,850              | No ACM observed |        |           | No ACM <7mm observed |  |  | No FA observed |                               |  | 297823                  | BH8                   | 0-0.1           | 744.64             | No asbestos detected at reporting limit of 0.1g/kg: Organic fibres detected | No asbestos detected | <0.1                        | No visible asbestos detected |                                  |                                | <0.01                               | <0.001                             |
| 3/06/2022    | BH8                 | 0.1-0.9         | NA                                | NA      | 8,630               | No ACM observed |        |           | No ACM <7mm observed |  |  | No FA observed |                               |  |                         |                       |                 |                    |   |                      |                             |                              |                                  |                                |                                     |                                    |
| 1/06/2022    | TP1                 | 0-0.1           | No                                | 10      | 10,100              | No ACM observed |        |           | No ACM <7mm observed |  |  | No FA observed |                               |  | 297823                  | TP1                   | 0-0.1           | 616.78             | No asbestos detected at reporting limit of 0.1g/kg: Organic fibres detected | No asbestos detected | <0.1                        | No visible asbestos detected |                                  |                                | <0.01                               | <0.001                             |
| 1/06/2022    | TP1                 | 0.1-0.2         | NA                                | 10      | 10,200              | No ACM observed |        |           | No ACM <7mm observed |  |  | No FA observed |                               |  |                         |                       |                 |                    |   |                      |                             |                              |                                  |                                |                                     |                                    |
| 1/06/2022    | TP1                 | 0.2-0.6         | NA                                | 10      | 10,910              | No ACM observed |        |           | No ACM <7mm observed |  |  | No FA observed |                               |  |                         |                       |                 |                    |   |                      |                             |                              |                                  |                                |                                     |                                    |
| 1/06/2022    | TP1                 | 0.6-1.0         | NA                                | 10      | 10,710              | No ACM observed |        |           | No ACM <7mm observed |  |  | No FA observed |                               |  |                         |                       |                 |                    |   |                      |                             |                              |                                  |                                |                                     |                                    |
| 1/06/2022    | TP2                 | 0-0.1           | No                                | 10      | 11,710              | No ACM observed |        |           | No ACM <7mm observed |  |  | No FA observed |                               |  |                         |                       |                 |                    |   |                      |                             |                              |                                  |                                |                                     |                                    |
| 1/06/2022    | TP2                 | 0.1-0.3         | NA                                | 10      | 10,050              | 12.3            | 1.8465 | 0.0184    | No ACM <7mm observed |  |  | No FA observed |                               |  | 297823                  | TP2                   | 0.1-0.3         | 745.43             | No asbestos detected at reporting limit of 0.1g/kg: Organic fibres detected | No asbestos detected | <0.1                        | No visible asbestos detected |                                  |                                | <0.01                               | <0.001                             |
| 1/06/2022    | TP3                 | 0-0.1           | No                                | 10      | 11,700              | No ACM observed |        |           | No ACM <7mm observed |  |  | No FA observed |                               |  | 297823                  | TP3                   | 0-0.1           | 709.63             | No asbestos detected at reporting limit of 0.1g/kg: Organic fibres detected | No asbestos detected | <0.1                        | No visible asbestos detected |                                  |                                | <0.01                               | <0.001                             |
| 1/06/2022    | TP3                 | 0.1-0.2m        | NA                                | 10      | 11,110              | No ACM observed |        |           | No ACM <7mm observed |  |  | No FA observed |                               |  |                         |                       |                 |                    |   |                      |                             |                              |                                  |                                |                                     |                                    |
| 1/06/2022    | TP3                 | 0.2-1.0         | NA                                | 10      | 10,700              | No ACM observed |        |           | No ACM <7mm observed |  |  | No FA observed |                               |  |                         |                       |                 |                    |   |                      |                             |                              |                                  |                                |                                     |                                    |
| 1/06/2022    | TP4                 | 0-0.1           | No                                | 10      | 10,410              | No ACM observed |        |           | No ACM <7mm observed |  |  | No FA observed |                               |  | 297823                  | TP4                   | 0-0.1           | 673.26             | No asbestos detected at reporting limit of 0.1g/kg: Organic fibres detected | No asbestos detected | <0.1                        | No visible asbestos detected |                                  |                                | <0.01                               | <0.001                             |
| 1/06/2022    | TP4                 | 0.1-0.7         | NA                                | 10      | 10,100              | No ACM observed |        |           | No ACM <7mm observed |  |  | No FA observed |                               |  |                         |                       |                 |                    |   |                      |                             |                              |                                  |                                |                                     |                                    |
| 1/06/2022    | TP5                 | 0-0.1           | No                                | 10      | 10,190              | No ACM observed |        |           | No ACM <7mm observed |  |  | No FA observed |                               |  | 297823                  | TP5                   | 0-0.1           | 795.56             | No asbestos detected at reporting limit of 0.1g/kg: Organic fibres detected | No asbestos detected | <0.1                        | No visible asbestos detected |                                  |                                | <0.01                               | <0.001                             |
| 1/06/2022    | TP5                 | 0.25-0.5        | NA                                | 10      | 11,030              | No ACM observed |        |           | No ACM <7mm observed |  |  | No FA observed |                               |  |                         |                       |                 |                    |   |                      |                             |                              |                                  |                                |                                     |                                    |
| 1/06/2022    | TP5                 | 0.5-0.9         | NA                                | 10      | 10,010              | No ACM observed |        |           | No ACM <7mm observed |  |  | No FA observed |                               |  |                         |                       |                 |                    | -   |                      |                             |                              |                                  |                                |                                     |                                    |
| 1/06/2022    | TP6                 | 0-0.1           | No                                | 10      | 10,760              | No ACM observed |        |           | No ACM <7mm observed |  |  | No FA observed |                               |  | 297823                  | TP6                   | 0-0.1           | 40                 | No asbestos detected at reporting limit of 0.1g/kg: Organic fibres detected | No asbestos detected | <0.1                        | No visible asbestos detected | NA                               | NA                             | NA                                  | NA                                 |
| 1/06/2022    | TP6                 | 0.1-0.3         | NA                                | 10      | 10,570              | No ACM observed |        |           | No ACM <7mm observed |  |  | No FA observed |                               |  |                         |                       |                 |                    | -   |                      |                             |                              |                                  |                                |                                     |                                    |
| 1/06/2022    | TP6                 | 0.3-0.5         | NA                                | 10      | 10,450              | No ACM observed |        |           | No ACM <7mm observed |  |  | No FA observed |                               |  |                         |                       |                 |                    |   |                      |                             |                              |                                  |                                |                                     |                                    |

Concentration above the SAC VALUE



TABLE S6

SOIL LABORATORY RESULTS COMPARED TO NEPM 2013 EILs AND ESLS

All data in mg/kg unless stated otherwise

|  |                 |                     |              |     |                   |                          |   |          |           |               |          | ONDAN NESID | ENTIAL AND PUBI  | LIC OI LIV 31 A   |  |   |  |  |  |   |  |   |            |
|--|-----------------|---------------------|--------------|-----|-------------------|--------------------------|---|----------|-----------|---------------|----------|-------------|--|---|--|---|--|--|--|---|--|---|------------|
|  |                 |                     |              |     |                   |                          |   |          | AGED HEAV | Y METALS-EILs |          |             | EI   | Ls  |  |   |  |  | ESLs   |   |  |   |            |
|  |                 |                     |              | pН  | CEC<br>(cmolc/kg) | Clay Content<br>(% clay) | Arsenic   | Chromium | Copper    | Lead          | Nickel   | Zinc        | Naphthalene  | DDT   | C <sub>6</sub> -C <sub>10</sub> (F1)   | >C <sub>10</sub> -C <sub>16</sub> (F2)  | >C <sub>16</sub> -C <sub>34</sub> (F3) | >C <sub>34</sub> -C <sub>40</sub> (F4) | Benzene  | Toluene   | Ethylbenzene   | Total Xylenes                                 | B(a)P      |
| QL - Envirolab Services                |                 |                     |              | -   | 1                 | -                        | 4   | 1        | 1         | 1             | 1        | 1           | 1  | 0.1   | 25   | 50  | 100                                    | 100                                    | 0.2  | 0.5   | 1  | 1   | 0.05       |
| mbient Background Con                  | ncentration (A  | BC)                 |              | -   | -                 | -                        | NSL   | 8        | 18        | 104           | 5        | 77          | NSL  | NSL   | NSL  | NSL   | NSL                                    | NSL                                    | NSL  | NSL   | NSL  | NSL   | NSL        |
| Sample Reference                       | Sample<br>Depth | Sample Description  | Soil Texture |     |                   |                          |   |          |           |               |          |             |  |   |  |   |  |  |  |   |  |   |            |
| BH1                                    | 0-0.1           | Fill: Silty Clay    | Coarse       | NA  | NA                | NA                       | <4  | 25       | 25        | 22            | 29       | 78          | <1   | <0.1  | <25  | <50   | 100                                    | <100                                   | <0.2   | <0.5  | <1   | <1  | <0.05      |
| BH1 (lab duplicate)                    | 0-0.1           | Fill: Silty Clay    | Coarse       | NA  | NA                | NA                       | <4  | 23       | 20        | 20            | 26       | 66          | <1   | <0.1  | <25  | <50   | 130                                    | <100                                   | <0.2   | <0.5  | <1   | <1  | <0.05      |
| BH1                                    | 1.0-1.45        | Silty Clay          | Coarse       | NA  | NA                | NA                       | NA  | NA       | NA        | NA            | NA       | NA          | <1   | NA  | <25  | <50   | <100                                   | <100                                   | <0.2   | <0.5  | <1   | <1  | NA         |
| BH2                                    | 0-0.1           | Fill: Sandy Clay    | Coarse       | NA  | NA                | NA                       | <4  | 24       | 13        | 10            | 23       | 34          | <1   | <0.1  | <25  | <50   | <100                                   | <100                                   | <0.2   | <0.5  | <1   | <1  | <0.05      |
| BH3                                    | 0-0.1           | Fill: Sandy Clay    | Coarse       | NA  | NA                | NA                       | <4  | 28       | 25        | 37            | 33       | 80          | <1   | <0.1  | <25  | <50   | 100                                    | <100                                   | <0.2   | <0.5  | <1   | <1  | 0.55       |
| BH4                                    | 0-0.1           | Fill: Silty Sand    | Coarse       | NA  | NA                | NA                       | <4  | 22       | 18        | 29            | 28       | 57          | <1   | <0.1  | <25  | <50   | <100                                   | <100                                   | <0.2   | <0.5  | <1   | <1  | <0.05      |
| BH5                                    | 0-0.1           | Fill: Silty Sand    | Coarse       | NA  | NA                | NA                       | <4  | 30       | 20        | 19            | 31       | 44          | <1   | <0.1  | <25  | <50   | <100                                   | <100                                   | <0.2   | <0.5  | <1   | <1  | <0.05      |
| BH6                                    | 0-0.1           | Fill: Silty Sand    | Coarse       | NA  | NA                | NA                       | <4  | 32       | 20        | 29            | 30       | 50          | <1   | <0.1  | <25  | <50   | <100                                   | <100                                   | <0.2   | <0.5  | <1   | <1  | <0.05      |
| BH7                                    | 0.15-0.3        | Fill: Sandy Gravel  | Coarse       | 8.6 | 18                | 10                       | <4  | 56       | 38        | 5             | 90       | 45          | <1   | <0.1  | <25  | <50   | <100                                   | <100                                   | <0.2   | <0.5  | <1   | <1  | <0.05      |
| BH8                                    | 0-0.1           | Fill: Sandy Clay    | Coarse       | NA  | NA                | NA                       | <4  | 27       | 19        | 11            | 32       | 38          | <1   | <0.1  | <25  | <50   | <100                                   | <100                                   | <0.2   | <0.5  | <1   | <1  | <0.05      |
| TP1                                    | 0-0.1           | Fill: Silty Clay    | Coarse       | NA  | NA                | NA                       | <4  | 25       | 19        | 11            | 24       | 74          | <1   | <0.1  | <25  | <50   | 140                                    | <100                                   | <0.2   | <0.5  | <1   | <1  | <0.05      |
| TP2                                    | 0-0.1           | Fill: Gravelly Clay | Coarse       | NA  | NA                | NA                       | <4  | 27       | 31        | 35            | 32       | 71          | <1   | <0.1  | <25  | <50   | <100                                   | <100                                   | <0.2   | <0.5  | <1   | <1  | <0.05      |
| TP2 (lab duplicate)                    | 0-0.1           | Fill: Gravelly Clay | Coarse       | NA  | NA                | NA                       | <4  | 28       | 32        | 35            | 35       | 75          | <1   | <0.1  | <25  | <50   | <100                                   | <100                                   | <0.2   | <0.5  | <1   | <1  | <0.05      |
| TP3                                    | 0-0.1           | Fill: Gravelly Clay | Coarse       | NA  | NA                | NA                       | <4  | 30       | 23        | 12            | 33       | 44          | <1   | <0.1  | <25  | <50   | <100                                   | <100                                   | <0.2   | <0.5  | <1   | <1  | <0.05      |
| TP4                                    | 0-0.1           | Fill: Sandy Clay    | Coarse       | NA  | NA                | NA                       | <4  | 31       | 22        | 14            | 36       | 44          | <1   | <0.1  | <25  | <50   | <100                                   | <100                                   | <0.2   | <0.5  | <1   | <1  | <0.05      |
| TP5                                    | 0-0.1           | Fill: Gravelly Clay | Coarse       | NA  | NA                | NA                       | <4  | 25       | 20        | 20            | 29       | 51          | <1   | <0.1  | <25  | <50   | <100                                   | <100                                   | <0.2   | <0.5  | <1   | <1  | <0.05      |
| TP6                                    | 0-0.1           | Fill: Gravelly Clay | Coarse       | NA  | NA                | NA                       | <4  | 61       | 16        | 11            | 19       | 48          | <1   | <0.1  | <25  | <50   | <100                                   | <100                                   | <0.2   | <0.5  | <1   | <1  | <0.05      |
| SDUP1                                  | -               | Fill: Silty Clay    | Coarse       | NA  | NA                | NA                       | <4  | 28       | 25        | 22            | 35       | 81          | <1   | <0.1  | <25  | <50   | 100                                    | 110                                    | <0.2   | <0.5  | <1   | <1  | <0.05      |
| SDUP2                                  | -               | Fill: Gravelly Clay | Coarse       | NA  | NA                | NA                       | <4  | 23       | 18        | 11            | 22       | 69          | <1   | <0.1  | <25  | <50   | 170                                    | <100                                   | <0.2   | <0.5  | <1   | <1  | <0.05      |
|  |                 |                     |              |     | 1                 |                          | 10  | 10       | 10        | 10            | 10       | 10          | 10   | 10  | 10   | 10  | 10                                     | 10                                     | 10   | 10  | 10   | 10  | 10         |
| otal Number of Sample<br>Naximum Value | 25              |                     |              | 8.6 | 18                | 10                       | 18<br><pql< td=""><td>18<br/>61</td><td>18<br/>38</td><td>18<br/>37</td><td>18<br/>90</td><td>18<br/>81</td><td>19<br/><pql< td=""><td>18<br/><pql< td=""><td>19<br/><pql< td=""><td>19<br/><pql< td=""><td>19<br/>170</td><td>19<br/>110</td><td>19<br/><pql< td=""><td>19<br/><pql< td=""><td>19<br/><pql< td=""><td>19<br/><pql< td=""><td>18<br/>0.55</td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<> | 18<br>61 | 18<br>38  | 18<br>37      | 18<br>90 | 18<br>81    | 19<br><pql< td=""><td>18<br/><pql< td=""><td>19<br/><pql< td=""><td>19<br/><pql< td=""><td>19<br/>170</td><td>19<br/>110</td><td>19<br/><pql< td=""><td>19<br/><pql< td=""><td>19<br/><pql< td=""><td>19<br/><pql< td=""><td>18<br/>0.55</td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<> | 18<br><pql< td=""><td>19<br/><pql< td=""><td>19<br/><pql< td=""><td>19<br/>170</td><td>19<br/>110</td><td>19<br/><pql< td=""><td>19<br/><pql< td=""><td>19<br/><pql< td=""><td>19<br/><pql< td=""><td>18<br/>0.55</td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<> | 19<br><pql< td=""><td>19<br/><pql< td=""><td>19<br/>170</td><td>19<br/>110</td><td>19<br/><pql< td=""><td>19<br/><pql< td=""><td>19<br/><pql< td=""><td>19<br/><pql< td=""><td>18<br/>0.55</td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<> | 19<br><pql< td=""><td>19<br/>170</td><td>19<br/>110</td><td>19<br/><pql< td=""><td>19<br/><pql< td=""><td>19<br/><pql< td=""><td>19<br/><pql< td=""><td>18<br/>0.55</td></pql<></td></pql<></td></pql<></td></pql<></td></pql<> | 19<br>170                              | 19<br>110                              | 19<br><pql< td=""><td>19<br/><pql< td=""><td>19<br/><pql< td=""><td>19<br/><pql< td=""><td>18<br/>0.55</td></pql<></td></pql<></td></pql<></td></pql<> | 19<br><pql< td=""><td>19<br/><pql< td=""><td>19<br/><pql< td=""><td>18<br/>0.55</td></pql<></td></pql<></td></pql<> | 19<br><pql< td=""><td>19<br/><pql< td=""><td>18<br/>0.55</td></pql<></td></pql<> | 19<br><pql< td=""><td>18<br/>0.55</td></pql<> | 18<br>0.55 |

Concentration above the SAC

Bold

Concentration above the PQL

The guideline corresponding to the elevated value is highlighted in grey in the EIL and ESL Assessment Criteria Table below

|                     |                 |                     |              |     |                   |                          |         |          | EIL AND ESL AS | SESSMENT CRI | TERIA  |      |             |     |                                      |  |  |  |         |         |              |               |       |
|---------------------|-----------------|---------------------|--------------|-----|-------------------|--------------------------|---------|----------|----------------|--------------|--------|------|-------------|-----|--------------------------------------|--|--|--|---------|---------|--------------|---------------|-------|
| Sample Reference    | Sample<br>Depth | Sample Description  | Soil Texture | рН  | CEC<br>(cmolc/kg) | Clay Content<br>(% clay) | Arsenic | Chromium | Copper         | Lead         | Nickel | Zinc | Naphthalene | DDT | C <sub>6</sub> -C <sub>10</sub> (F1) | >C <sub>10</sub> -C <sub>16</sub> (F2) | >C <sub>16</sub> -C <sub>34</sub> (F3) | >C <sub>34</sub> -C <sub>40</sub> (F4) | Benzene | Toluene | Ethylbenzene | Total Xylenes | B(a)P |
| BH1                 | 0-0.1           | Fill: Silty Clay    | Coarse       | NA  | NA                | NA                       | 100     | 200      | 80             | 1200         | 35     | 150  | 170         | 180 | 180                                  | 120                                    | 300                                    | 2800                                   | 50      | 85      | 70           | 105           | 20    |
| BH1 (lab duplicate) | 0-0.1           | Fill: Silty Clay    | Coarse       | NA  | NA                | NA                       | 100     | 200      | 80             | 1200         | 35     | 150  | 170         | 180 | 180                                  | 120                                    | 300                                    | 2800                                   | 50      | 85      | 70           | 105           | 20    |
| BH1                 | 1.0-1.45        | Silty Clay          | Coarse       | NA  | NA                | NA                       |         |          |                |              |        |      | 170         |     | 180                                  | 120                                    | 300                                    | 2800                                   | 50      | 85      | 70           | 105           |       |
| BH2                 | 0-0.1           | Fill: Sandy Clay    | Coarse       | NA  | NA                | NA                       | 100     | 200      | 80             | 1200         | 35     | 150  | 170         | 180 | 180                                  | 120                                    | 300                                    | 2800                                   | 50      | 85      | 70           | 105           | 20    |
| BH3                 | 0-0.1           | Fill: Sandy Clay    | Coarse       | NA  | NA                | NA                       | 100     | 200      | 80             | 1200         | 35     | 150  | 170         | 180 | 180                                  | 120                                    | 300                                    | 2800                                   | 50      | 85      | 70           | 105           | 20    |
| BH4                 | 0-0.1           | Fill: Silty Sand    | Coarse       | NA  | NA                | NA                       | 100     | 200      | 80             | 1200         | 35     | 150  | 170         | 180 | 180                                  | 120                                    | 300                                    | 2800                                   | 50      | 85      | 70           | 105           | 20    |
| BH5                 | 0-0.1           | Fill: Silty Sand    | Coarse       | NA  | NA                | NA                       | 100     | 200      | 80             | 1200         | 35     | 150  | 170         | 180 | 180                                  | 120                                    | 300                                    | 2800                                   | 50      | 85      | 70           | 105           | 20    |
| BH6                 | 0-0.1           | Fill: Silty Sand    | Coarse       | NA  | NA                | NA                       | 100     | 200      | 80             | 1200         | 35     | 150  | 170         | 180 | 180                                  | 120                                    | 300                                    | 2800                                   | 50      | 85      | 70           | 105           | 20    |
| BH7                 | 0.15-0.3        | Fill: Sandy Gravel  | Coarse       | 8.6 | 18                | 10                       | 100     | 410      | 230            | 1200         | 280    | 780  | 170         | 180 | 180                                  | 120                                    | 300                                    | 2800                                   | 50      | 85      | 70           | 105           | 20    |
| BH8                 | 0-0.1           | Fill: Sandy Clay    | Coarse       | NA  | NA                | NA                       | 100     | 200      | 80             | 1200         | 35     | 150  | 170         | 180 | 180                                  | 120                                    | 300                                    | 2800                                   | 50      | 85      | 70           | 105           | 20    |
| TP1                 | 0-0.1           | Fill: Silty Clay    | Coarse       | NA  | NA                | NA                       | 100     | 200      | 80             | 1200         | 35     | 150  | 170         | 180 | 180                                  | 120                                    | 300                                    | 2800                                   | 50      | 85      | 70           | 105           | 20    |
| TP2                 | 0-0.1           | Fill: Gravelly Clay | Coarse       | NA  | NA                | NA                       | 100     | 200      | 80             | 1200         | 35     | 150  | 170         | 180 | 180                                  | 120                                    | 300                                    | 2800                                   | 50      | 85      | 70           | 105           | 20    |
| TP2 (lab duplicate) | 0-0.1           | Fill: Gravelly Clay | Coarse       | NA  | NA                | NA                       | 100     | 200      | 80             | 1200         | 35     | 150  | 170         | 180 | 180                                  | 120                                    | 300                                    | 2800                                   | 50      | 85      | 70           | 105           | 20    |
| TP3                 | 0-0.1           | Fill: Gravelly Clay | Coarse       | NA  | NA                | NA                       | 100     | 200      | 80             | 1200         | 35     | 150  | 170         | 180 | 180                                  | 120                                    | 300                                    | 2800                                   | 50      | 85      | 70           | 105           | 20    |
| TP4                 | 0-0.1           | Fill: Sandy Clay    | Coarse       | NA  | NA                | NA                       | 100     | 200      | 80             | 1200         | 35     | 150  | 170         | 180 | 180                                  | 120                                    | 300                                    | 2800                                   | 50      | 85      | 70           | 105           | 20    |
| TP5                 | 0-0.1           | Fill: Gravelly Clay | Coarse       | NA  | NA                | NA                       | 100     | 200      | 80             | 1200         | 35     | 150  | 170         | 180 | 180                                  | 120                                    | 300                                    | 2800                                   | 50      | 85      | 70           | 105           | 20    |
| TP6                 | 0-0.1           | Fill: Gravelly Clay | Coarse       | NA  | NA                | NA                       | 100     | 200      | 80             | 1200         | 35     | 150  | 170         | 180 | 180                                  | 120                                    | 300                                    | 2800                                   | 50      | 85      | 70           | 105           | 20    |
| SDUP1               | -               | Fill: Silty Clay    | Coarse       | NA  | NA                | NA                       | 100     | 200      | 80             | 1200         | 35     | 150  | 170         | 180 | 180                                  | 120                                    | 300                                    | 2800                                   | 50      | 85      | 70           | 105           | 20    |
| SDUP2               | -               | Fill: Gravelly Clay | Coarse       | NA  | NA                | NA                       | 100     | 200      | 80             | 1200         | 35     | 150  | 170         | 180 | 180                                  | 120                                    | 300                                    | 2800                                   | 50      | 85      | 70           | 105           | 20    |



TABLE S7
SOIL LABORATORY RESULTS COMPARED TO WASTE CLASSIFICATION GUIDELINES
All data in mg/kg unless stated otherwise

|                      |                 |                       |  |  |          | HEAVY  | METALS |           |        |       | P.A   | AHs   |  | OC/OP  | PESTICIDES   |           | Total  |  |  | TRH  |                                  |                                  |  | BTEX CON   | MPOUNDS  |  |                 |
|----------------------|-----------------|-----------------------|--|--|----------|--------|--------|-----------|--------|-------|-------|-------|--|--|--|-----------|--|--|--|--|----------------------------------|----------------------------------|--|--|--|--|-----------------|
|                      |                 |                       | Arconia  | Codmium  | Chromium | Connor | Lead   | Mercury   | Nickel | Zinc  | Total | B(a)P | Total  | Chloropyrifos  | Total Moderately   | Total     | PCBs   | C <sub>6</sub> -C <sub>9</sub>   | C <sub>10</sub> -C <sub>14</sub>   | C <sub>15</sub> -C <sub>28</sub>   | C <sub>29</sub> -C <sub>36</sub> | Total                            | Benzene  | Toluene  | Ethyl  | Total                                    | ASBESTOS FIBRES |
|                      |                 |                       | Arsenic  | Caumium  | Chromium | Copper | Leau   | iviercury | MICKEI | ZITIC | PAHs  |       | Endosulfans  |  | Harmful  | Scheduled |  |  |  |  |                                  | C <sub>10</sub> -C <sub>36</sub> |  |  | benzene  | Xylenes                                  |                 |
| PQL - Envirolab Serv | vices           |                       | 4  | 0.4  | 1        | 1      | 1      | 0.1       | 1      | 1     | -     | 0.05  | 0.1  | 0.1  | 0.1  | 0.1       | 0.1  | 25   | 50   | 100  | 100                              | 50                               | 0.2  | 0.5  | 1  | 1  | 100             |
| General Solid Wast   | e CT1           |                       | 100  | 20   | 100      | NSL    | 100    | 4         | 40     | NSL   | 200   | 0.8   | 60   | 4  | 250  | 50        | 50   | 650  |  | NSL  |                                  | 10,000                           | 10   | 288  | 600  | 1,000                                    | -               |
| General Solid Wast   | e SCC1          |                       | 500  | 100  | 1900     | NSL    | 1500   | 50        | 1050   | NSL   | 200   | 10    | 108  | 7.5  | 250  | 50        | 50   | 650  |  | NSL  |                                  | 10.000                           | 18   | 518  | 1,080  | 1,800                                    | -               |
| Restricted Solid Wa  | iste CT2        |                       | 400  | 80   | 400      | NSL    | 400    | 16        | 160    | NSL   | 800   | 3.2   | 240  | 16   | 1000   | 50        | 50   | 2600   |  | NSL  |                                  | 40,000                           | 40   | 1,152  | 2,400  | 4,000                                    | -               |
| Restricted Solid Wa  |                 |                       | 2000   | 400  | 7600     | NSL    | 6000   | 200       | 4200   | NSL   | 800   | 23    | 432  | 30   | 1000   | 50        | 50   | 2600   |  | NSL  |                                  | 40.000                           | 72   | 2,073  | 4,320  | 7,200                                    | _               |
|                      |                 |                       | 2000   | 400  | 7000     | IVSE   | 0000   | 200       | 4200   | IVJE  | 000   | 23    | 432  | 30   | 1000   | 30        | 30   | 2000   |  | INJL   |                                  | 40,000                           | 72   | 2,073  | 4,320  | 7,200                                    |                 |
| Sample<br>Reference  | Sample<br>Depth | Sample Description    |  |  |          |        |        |           |        |       |       |       |  |  |  |           |  |  |  |  |                                  |                                  |  |  |  |  |                 |
| BH1                  | 0-0.1           | Fill: Silty Clay      | <4   | <0.4   | 25       | 25     | 22     | <0.1      | 29     | 78    | <0.05 | <0.05 | <0.1   | <0.1   | <0.1   | 1.1       | <0.1   | <25  | <50  | <100   | <100                             | <50                              | <0.2   | <0.5   | <1   | <1                                       | Not Detected    |
| BH1 (lab duplicate   | 0-0.1           | Fill: Silty Clay      | <4   | <0.4   | 23       | 20     | 20     | <0.1      | 26     | 66    | <0.05 | <0.05 | <0.1   | <0.1   | <0.1   | 1.1       | <0.1   | <25  | <50  | <100   | <100                             | <50                              | <0.2   | <0.5   | <1   | <1                                       | NA              |
| BH1                  | 1.0-1.45        | Silty Clay            | NA   | NA   | NA       | NA     | NA     | NA        | NA     | NA    | NA    | NA    | NA   | NA   | NA   | NA        | NA   | <25  | <50  | <100   | <100                             | <50                              | <0.2   | <0.5   | <1   | <1                                       | NA              |
| BH2                  | 0-0.1           | Fill: Sandy Clay      | <4   | <0.4   | 24       | 13     | 10     | <0.1      | 23     | 34    | <0.05 | <0.05 | <0.1   | <0.1   | <0.1   | <0.1      | <0.1   | <25  | <50  | <100   | <100                             | <50                              | <0.2   | <0.5   | <1   | <1                                       | Not Detected    |
| BH3                  | 0-0.1           | Fill: Sandy Clay      | <4   | <0.4   | 28       | 25     | 37     | 0.1       | 33     | 80    | 5.5   | 0.55  | <0.1   | <0.1   | <0.1   | <0.1      | <0.1   | <25  | <50  | <100   | <100                             | <50                              | <0.2   | <0.5   | <1   | <1                                       | Not Detected    |
| BH4                  | 0-0.1           | Fill: Silty Sand      | <4   | <0.4   | 22       | 18     | 29     | <0.1      | 28     | 57    | <0.05 | <0.05 | <0.1   | <0.1   | <0.1   | <0.1      | <0.1   | <25  | <50  | <100   | <100                             | <50                              | <0.2   | <0.5   | <1   | <1                                       | Not Detected    |
| BH5                  | 0-0.1           | Fill: Silty Sand      | <4   | <0.4   | 30       | 20     | 19     | 8.4       | 31     | 44    | <0.05 | <0.05 | <0.1   | <0.1   | <0.1   | <0.1      | <0.1   | <25  | <50  | <100   | <100                             | <50                              | <0.2   | <0.5   | <1   | <1                                       | Not Detected    |
| BH6                  | 0-0.1           | Fill: Silty Sand      | <4   | <0.4   | 32       | 20     | 29     | 0.3       | 30     | 50    | <0.05 | <0.05 | <0.1   | <0.1   | <0.1   | <0.1      | <0.1   | <25  | <50  | <100   | <100                             | <50                              | <0.2   | <0.5   | <1   | <1                                       | Not Detected    |
| BH7                  | 0.15-0.3        | Fill: Sandy Gravel    | <4   | <0.4   | 56       | 38     | 5      | <0.1      | 90     | 45    | <0.05 | <0.05 | <0.1   | <0.1   | <0.1   | <0.1      | <0.1   | <25  | <50  | <100   | <100                             | <50                              | <0.2   | <0.5   | <1   | <1                                       | Not Detected    |
| BH8                  | 0-0.1           | Fill: Sandy Clay      | <4   | <0.4   | 27       | 19     | 11     | <0.1      | 32     | 38    | <0.05 | <0.05 | <0.1   | <0.1   | <0.1   | <0.1      | <0.1   | <25  | <50  | <100   | <100                             | <50                              | <0.2   | <0.5   | <1   | <1                                       | Not Detected    |
| TP1                  | 0-0.1           | Fill: Silty Clay      | <4   | <0.4   | 25       | 19     | 11     | <0.1      | 24     | 74    | <0.05 | <0.05 | <0.1   | <0.1   | <0.1   | <0.1      | <0.1   | <25  | <50  | <100   | 120                              | 120                              | <0.2   | <0.5   | <1   | <1                                       | Not Detected    |
| TP2                  | 0-0.1           | Fill: Gravelly Clay   | <4   | <0.4   | 27       | 31     | 35     | 0.1       | 32     | 71    | <0.05 | <0.05 | <0.1   | <0.1   | <0.1   | <0.1      | <0.1   | <25  | <50  | <100   | <100                             | <50                              | <0.2   | <0.5   | <1   | <1                                       | NA              |
| TP2 (lab duplicate)  | 0-0.1           | Fill: Gravelly Clay   | <4   | <0.4   | 28       | 32     | 35     | 0.2       | 35     | 75    | <0.05 | <0.05 | <0.1   | <0.1   | <0.1   | <0.1      | <0.1   | <25  | <50  | <100   | <100                             | <50                              | <0.2   | <0.5   | <1   | <1                                       | NA              |
| TP3                  | 0-0.1           | Fill: Gravelly Clay   | <4   | <0.4   | 30       | 23     | 12     | <0.1      | 33     | 44    | <0.05 | <0.05 | <0.1   | <0.1   | <0.1   | <0.1      | <0.1   | <25  | <50  | <100   | <100                             | <50                              | <0.2   | <0.5   | <1   | <1                                       | Not Detected    |
| TP4                  | 0-0.1           | Fill: Sandy Clay      | <4   | <0.4   | 31       | 22     | 14     | 0.3       | 36     | 44    | <0.05 | <0.05 | <0.1   | <0.1   | <0.1   | <0.1      | <0.1   | <25  | <50  | <100   | <100                             | <50                              | <0.2   | <0.5   | <1   | <1                                       | Not Detected    |
| TP5                  | 0-0.1           | Fill: Gravelly Clay   | <4   | <0.4   | 25       | 20     | 20     | 0.2       | 29     | 51    | <0.05 | <0.05 | <0.1   | <0.1   | <0.1   | <0.1      | <0.1   | <25  | <50  | <100   | <100                             | <50                              | <0.2   | <0.5   | <1   | <1                                       | Not Detected    |
| TP6                  | 0-0.1           | Fill: Gravelly Clay   | <4   | <0.4   | 61       | 16     | 11     | <0.1      | 19     | 48    | <0.05 | <0.05 | <0.1   | <0.1   | <0.1   | <0.1      | <0.1   | <25  | <50  | <100   | <100                             | <50                              | <0.2   | <0.5   | <1   | <1                                       | NA              |
| SDUP1                | -               | Fill: Silty Clay      | <4   | <0.4   | 28       | 25     | 22     | <0.1      | 35     | 81    | <0.05 | <0.05 | <0.1   | <0.1   | <0.1   | 1.2       | <0.1   | <25  | <50  | <100   | 130                              | 130                              | <0.2   | <0.5   | <1   | <1                                       | NA              |
| SDUP2                | -               | Fill: Gravelly Clay   | <4   | <0.4   | 23       | 18     | 11     | <0.1      | 22     | 69    | <0.05 | <0.05 | <0.1   | <0.1   | <0.1   | <0.1      | <0.1   | <25  | <50  | <100   | 190                              | 190                              | <0.2   | <0.5   | <1   | <1                                       | NA              |
| FCF1-TP2             | 0.1-0.3         | Fibre Cement Fragment | NA   | NA   | NA       | NA     | NA     | NA        | NA     | NA    | NA    | NA    | NA   | NA   | NA   | NA        | NA   | NA   | NA   | NA   | NA                               | NA                               | NA   | NA   | NA   | NA                                       | Detected        |
|                      |                 |                       | 10   | 10   | 10       | 10     | 10     | 10        | 10     | 10    | 10    | 10    | 10   | 10   | 10   | 10        | 10   | 10   | 10   | 10   | 10                               | 10                               | 10   | 10   | 10   | 10                                       | 12              |
| Total Number of      | Samples         |                       | 18   | 18   | 18       | 18     | 18     | 18        | 18     | 18    | 18    | 18    | 18   | 18   | 18   | 18        | 18   | 19   | 19   | 19   | 19                               | 19                               | 19   | 19   | 19   | 19                                       | 13              |
| Maximum Value        |                 |                       | <pql< td=""><td><pql< td=""><td>61</td><td>38</td><td>37</td><td>8.4</td><td>90</td><td>81</td><td>5.5</td><td>0.55</td><td><pql< td=""><td><pql< td=""><td><pql< td=""><td>1.2</td><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td>190</td><td>190</td><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td>Not Detected</td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<> | <pql< td=""><td>61</td><td>38</td><td>37</td><td>8.4</td><td>90</td><td>81</td><td>5.5</td><td>0.55</td><td><pql< td=""><td><pql< td=""><td><pql< td=""><td>1.2</td><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td>190</td><td>190</td><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td>Not Detected</td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<> | 61       | 38     | 37     | 8.4       | 90     | 81    | 5.5   | 0.55  | <pql< td=""><td><pql< td=""><td><pql< td=""><td>1.2</td><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td>190</td><td>190</td><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td>Not Detected</td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<> | <pql< td=""><td><pql< td=""><td>1.2</td><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td>190</td><td>190</td><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td>Not Detected</td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<> | <pql< td=""><td>1.2</td><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td>190</td><td>190</td><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td>Not Detected</td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<> | 1.2       | <pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td>190</td><td>190</td><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td>Not Detected</td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<> | <pql< td=""><td><pql< td=""><td><pql< td=""><td>190</td><td>190</td><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td>Not Detected</td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<> | <pql< td=""><td><pql< td=""><td>190</td><td>190</td><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td>Not Detected</td></pql<></td></pql<></td></pql<></td></pql<></td></pql<></td></pql<> | <pql< td=""><td>190</td><td>190</td><td><pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td>Not Detected</td></pql<></td></pql<></td></pql<></td></pql<></td></pql<> | 190                              | 190                              | <pql< td=""><td><pql< td=""><td><pql< td=""><td><pql< td=""><td>Not Detected</td></pql<></td></pql<></td></pql<></td></pql<> | <pql< td=""><td><pql< td=""><td><pql< td=""><td>Not Detected</td></pql<></td></pql<></td></pql<> | <pql< td=""><td><pql< td=""><td>Not Detected</td></pql<></td></pql<> | <pql< td=""><td>Not Detected</td></pql<> | Not Detected    |

Concentration above the CT1 Concentration above SCC1 Concentration above the SCC2 Concentration above PQL





# TABLE S8 SOIL LABORATORY TCLP RESULTS All data in mg/L unless stated otherwise

|                     |                 |                    | Mercury | Nickel |
|---------------------|-----------------|--------------------|---------|--------|
| PQL - Envirola      | ab Services     |                    | 0.01    | 0.02   |
| TCLP1 - Gene        | ral Solid Waste |                    | 0.2     | 2      |
| TCLP2 - Restr       | icted Solid Was | te                 | 0.8     | 8      |
| TCLP3 - Hazaı       | dous Waste      |                    | >0.8    | >8     |
| Sample<br>Reference | Sample<br>Depth | Sample Description |         |        |
| вн5                 | 0-0.1           | Fill: Silty Sand   | <0.0005 | NA     |
| ВН7                 | 0.15-0.3        | Fill: Sandy Gravel | NA      | 0.1    |
|                     | or of complex   |                    | 1       | 1      |
| Total Numb          | er or samples   |                    | 1       | 1      |

General Solid Waste Restricted Solid Waste Hazardous Waste Concentration above PQL VALUE
VALUE
VALUE
Bold

Prelimianry (Stage 1) Site Investigation Gunnedah Hospital, Marquis Street, Gunnedah, NSW E35091UPD



| TABLE 9<br>SOIL QA/QC S | JMMARY          |              |               |              |              |          |              |            |                         |                |               |          |              |            |         |                    |          |                          |                |                         |                      |       |            |            |           |   |            |                    |                  |                  |              |         |          |        |         |                          |                 |                     |              |                           |                 |                      |          |            |            |        |              |           |           |            |         |         |          |        |      |         |                |
|-------------------------|-----------------|--------------|---------------|--------------|--------------|----------|--------------|------------|-------------------------|----------------|---------------|----------|--------------|------------|---------|--------------------|----------|--------------------------|----------------|-------------------------|----------------------|-------|------------|------------|-----------|---|------------|--------------------|------------------|------------------|--------------|---------|----------|--------|---------|--------------------------|-----------------|---------------------|--------------|---------------------------|-----------------|----------------------|----------|------------|------------|--------|--------------|-----------|-----------|------------|---------|---------|----------|--------|------|---------|----------------|
|                         |                 | TRH C6 - C10 | TRH > C10-C16 | TRH >C16-C34 | TRH >C34-C40 | Denzene  | Ethylbenzene | m+p-xylene | o-Xylene<br>Naphthalene | Acenaphthylene | Acenaph-thene | Fluorene | Phenanthrene | Anthracene | Pyrene  | Benzo(a)anthracene | Chrysene | Benzo(b,j+k)fluoranthene | Benzo(a)pyrene | Indeno(1,2,3-c,d)pyrene | Benzo(g,h,i)perylene | HCB   | alpha- BHC | gamma- BHC | beta- BHC | Heptachlor  | delta- BHC | Hebtachlor Eboxide | Gamma- Chlordane | alpha- chlordane | Endosulfan I | pp- DDE | Dieldrin | Endrin | DDD -dd | Endosulfan II<br>DD- DDT | Endrin Aldehyde | Endosulfan Sulphate | Methoxychlor | Azinphos-methyl (Guthion) | Bromophos-ethyl | Chlorpyriphos-methyl | Diazinon | Dichlorvos | Dimethoate | Ethion | Fenitrothion | Malathion | Parathion | Total PCBS | Arsenic | Cadmium | Chromium | Copper | Lead | Mercury | Nickel<br>Zinc |
|                         | L Envirolab SY  |              | 5 50          | 100          | 100 0        | .2 0.5   | 1            | 2          |                         |                |               | 0.1      | 0.1          | 0.1 0.     | 1 0.1   |                    |          |                          |                |                         |                      |       |            |            | 0.1 0     | J.1 0.  | 0.1 0.1    | .1 0.1             | 1 0.1            | 0.1              | 0.1          |         |          |        |         |                          |                 |                     |              |                           | 0.1 0.          | 1 0.1                | 0.1      | 0.1        |            |        |              |           |           |            |         |         |          |        |      |         | 1 1            |
| PC                      | L Envirolab VIO | 25           | 5 50          | 100          | 100 0        | .2 0.5   | 1            | 2 .        | 1 0.1                   | . 0.1          | 0.1           | 0.1      | 0.1          | 0.1 0.     | 1 0.1   | 0.1                | 0.1      | 0.2                      | 0.1 0          | 0.1 0.                  | 1 0.1                | 0.1   | 0.1        | 0.1        | 0.1 0     | 1.1 0.  | 1.1 0.1    | .1 0.1             | 1 0.1            | 0.1              | 0.1          | 0.1     | 0.1      | 0.1    | 0.1 0   | 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 (        | ).1 0     | 0.1 0.    | 1 0.:      | 1 4.0   | 0.4     | 1.0      | 1.0    | 1.0  | 0.1     | 1.0 1.0        |
| Intra BH                |                 | <2           | 5 <50         | 100          | <100 <0      | 0.2 <0.5 | <1           | <2 <       | <1 <0.                  | 1 <0.1         | <0.1          | <0.1     | <0.1         | <0.1 <0    | .1 <0.1 | <0.1               | <0.1     | <0.2                     | 0.05 <         | 0.1 <0                  | 1 <0.1               | <0.1  | <0.1       | <0.1       | 0.1 <     | .0.1 <r< th=""><th>.0.1 &lt;0</th><th>0.1 &lt;0.</th><th>.1 &lt;0.1</th><th>1 &lt;0.1</th><th>&lt;0.1</th><th>&lt;0.1</th><th>1.1</th><th>&lt;0.1</th><th>&lt;0.1 &lt;</th><th>0.1 &lt;0.</th><th>1 &lt;0.1</th><th>&lt;0.1</th><th>&lt;0.1</th><th>&lt;0.1</th><th>0.1 &lt;0</th><th>.1 &lt;0.1</th><th>&lt;0.1</th><th>&lt;0.1</th><th>&lt;0.1</th><th>&lt;0.1</th><th>&lt;0.1 &lt;</th><th>&lt;0.1 &lt;0</th><th>0.1 &lt;0</th><th>.1 &lt;0.</th><th>.1 &lt;4</th><th>&lt;0.4</th><th>25</th><th>25</th><th>22</th><th>&lt;0.1</th><th>29 78</th></r<> | .0.1 <0    | 0.1 <0.            | .1 <0.1          | 1 <0.1           | <0.1         | <0.1    | 1.1      | <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 <       | <0.1 <0   | 0.1 <0    | .1 <0.     | .1 <4   | <0.4    | 25       | 25     | 22   | <0.1    | 29 78          |
| laboratory SD           | JP1 -           | <2           | 5 <50         | 100          | 110 <0       | 0.2 <0.5 | <1           | <2 <       | <1 <0.                  | 1 <0.1         | <0.1          | <0.1     | <0.1         | <0.1 <0    | .1 <0.1 | <0.1               | <0.1     | <0.2                     | 0.05 <         | 0.1 <0                  | 1 <0.1               | < 0.1 | < 0.1      | <0.1 <     | 0.1 <     | .0.1 <0   | .0.1 <0    | 0.1 <0.            | .1 <0.1          | 1 <0.1           | <0.1         | <0.1    | 1.2      | <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 <       | 0.1 <     | 0.1 <0    | .1 <0.     | .1 <4   | <0.4    | 28       | 25     | 22   | <0.1    | 35 81          |
| duplicate ME            | AN              | no           | c nc          | 100          | 80 r         | nc nc    | nc           | nc r       | nc no                   | nc             | nc            | nc       | nc           | nc n       | c nc    | nc                 | nc       | nc                       | nc i           | nc n                    | nc                   | nc    | nc         | nc         | nc i      | nc r  | nc nr      | ic no              | e nc             | nc               | nc           | nc      | 1.15     | nc     | nc r    | nc no                    | nc              | nc                  | nc           | nc                        | nc n            | c nc                 | nc       | nc         | nc         | nc     | nc           | nc /      | nc n      | c no       | no      | nc      | 26.5     | 25     | 22   | nc      | 32 79.5        |
| RP                      | ) %             | no           | c nc          | 0%           | 75% r        | ic nc    | nc           | nc r       | nc no                   | nc             | nc            | nc       | nc           | nc n       | c nc    | nc                 | nc       | nc                       | nc i           | nc n                    | nc                   | nc    | nc         | nc         | nc i      | nc r  | nc nr      | ic no              | nc               | nc               | nc           | nc      | 9%       | nc     | nc r    | nc no                    | nc              | nc                  | nc           | nc                        | nc n            | c nc                 | nc       | nc         | nc         | nc     | nc           | nc        | nc n      | c no       | no      | nc      | 11%      | 0%     | 0%   | nc      | 19% 4%         |
|                         |                 |              |               |              |              |          |              |            |                         |                |               |          |              |            |         |                    |          |                          |                |                         |                      |       |            |            |           |   |            |                    |                  |                  |              |         |          |        |         |                          |                 |                     |              |                           |                 |                      |          |            |            |        |              |           |           |            |         |         |          |        |      |         |                |
| Inter TP:               | 0-0.1           | <2           | 5 <50         | <100         | <100 <0      | 0.2 <0.5 | <1           | <2 <       | <1 <0.                  | 1 <0.1         | <0.1          | <0.1     | <0.1         | <0.1 <0    | .1 <0.1 | <0.1               | <0.1     | <0.2                     | 0.05 <         | 0.1 <0                  | 1 <0.1               | <0.1  | <0.1       | <0.1 <     | :0.1 <    | .0.1 <ſ   | .0.1 <0    | 0.1 <0.            | .1 <0.1          | 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     | <0.1       | <0.1       | <0.1   | <0.1 <       | <0.1 <0   | 0.1 <0    | .1 <0.     | .1 <4   | <0.4    | 27       | 31     | 35   | 0.1     | 32 71          |
| laboratory SD           | JP2 -           | <2           | 5 <50         | 170          | <100 <0      | 0.2 <0.5 | <1           | <2 <       | <1 <0.                  | 1 <0.1         | <0.1          | <0.1     | <0.1         | <0.1 <0    | .1 <0.1 | <0.1               | <0.1     | <0.2                     | 0.05 <         | 0.1 <0                  | 1 <0.1               | <0.1  | <0.1       | <0.1 <     | 0.1 <     | :0.1 <ſ   | .0.1 <0    | 0.1 <0.            | .1 <0.1          | 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     | <0.1       | <0.1       | <0.1   | <0.1 <       | :0.1 <    | 0.1 <0    | .1 <0.     | .1 <4   | <0.4    | 23       | 18     | 11   | <0.1    | 22 69          |
| duplicate ME            | AN              | no           | c nc          | 110          | nc r         | ic nc    | nc           | nc r       | nc no                   | nc             | nc            | nc       | nc           | nc n       | c nc    | nc                 | nc       | nc                       | nc i           | nc n                    | nc                   | nc    | nc         | nc         | nc i      | nc r  | nc n       | ic no              | nc               | nc               | nc           | nc      | nc       | nc     | nc r    | nc no                    | nc              | nc                  | nc           | nc                        | nc n            | c nc                 | nc       | nc         | nc         | nc     | nc           | nc        | nc n      | c no       | no      | nc      | 25       | 24.5   | 23   | 0.075   | 27 70          |
| RP                      | 9 %             | no           | c nc          | 109%         | nc r         | ic nc    | nc           | nc r       | nc no                   | nc             | nc            | nc       | nc           | nc n       | c nc    | nc                 | nc       | nc                       | nc i           | nc n                    | nc                   | nc    | nc         | nc         | nc i      | nc r  | nc n       | ic no              | nc               | nc               | nc           | nc      | nc       | nc     | nc r    | nc no                    | nc              | nc                  | nc           | nc                        | nc n            | c nc                 | nc       | nc         | nc         | nc     | nc           | nc        | nc n      | c no       | no      | nc      | 16%      | 53%    | 104% | 67%     | 37% 3%         |
|                         |                 |              |               |              |              |          |              |            |                         |                |               |          |              |            |         |                    |          |                          |                |                         |                      |       |            |            |           |   |            |                    |                  |                  |              |         |          |        |         |                          |                 |                     |              |                           |                 |                      |          |            |            |        |              |           |           |            |         |         |          |        |      |         |                |
| Field TB                | S1 mg/kg        | g NA         | A NA          | NA           | NA <         | 0.2 <0.5 | <1           | <2 <       | <1 N/                   | NA NA          | NA            | NA       | NA           | NA N       | A NA    | NA                 | NA       | NA                       | NA I           | NA N                    | A NA                 | NA    | NA         | NA         | NA I      | NA N  | NA NA      | IA NA              | A NA             | NA               | NA           | NA      | NA       | NA     | NA N    | NA NA                    | NA.             | NA                  | NA           | NA                        | NA N            | A NA                 | NA       | NA         | NA         | NA     | NA I         | NA N      | NA N      | A NA       | A NA    | NA NA   | NA       | NA     | NA   | NA      | NA NA          |
| Blank 1/0               | 6/22            |              |               |              |              |          |              |            |                         |                |               |          |              |            |         |                    |          |                          |                |                         |                      |       |            |            |           |   |            |                    |                  |                  |              |         |          |        |         |                          |                 |                     |              |                           |                 |                      |          |            |            |        |              |           |           |            |         |         |          |        |      |         |                |
|                         |                 |              |               |              |              |          |              |            |                         |                |               |          |              |            |         |                    |          |                          |                |                         |                      |       |            |            |           |   |            |                    |                  |                  |              |         |          |        |         |                          |                 |                     |              |                           |                 |                      |          |            |            |        |              | $\neg$    |           |            |         |         | _        |        |      |         |                |
| Field FR-               | S1-SPT μg/L     | N/           | A NA          | NA           | NA <         | 1 <1     | <1           | <2 <       | <1 N/                   | NA NA          | NA            | NA       | NA           | NA N       | A NA    | NA                 | NA       | NA                       | NA I           | NA N                    | A NA                 | NA    | NA         | NA         | NA I      | NA N  | NA N       | IA NA              | A NA             | NA               | NA           | NA      | NA       | NA     | NA N    | NA NA                    | NA.             | NA                  | NA           | NA                        | NA N            | A NA                 | NA       | NA         | NA         | NA     | NA I         | NA N      | NA N      | A NA       | A N/    | NA.     | NA       | NA     | NA   | NA      | NA NA          |
|                         | 6/22            |              |               |              |              |          |              |            |                         |                |               |          |              |            |         |                    |          |                          |                |                         |                      |       |            |            |           |   |            |                    |                  |                  |              |         |          |        |         |                          |                 |                     |              |                           |                 |                      |          |            |            |        |              |           |           |            |         |         |          |        | -    |         |                |
|                         |                 |              |               |              |              |          |              |            |                         |                |               |          |              |            |         |                    |          |                          |                |                         |                      |       |            |            |           |   |            |                    |                  |                  |              |         |          |        |         |                          |                 |                     |              |                           |                 |                      |          |            |            |        |              | $\neg$    |           |            |         |         | _        |        |      |         |                |
| Trip TS-                | 51              | -            | -             | -            | - 89         | 96%      | 100%         | 98% 10     | 00% -                   | -              | -             | -        | -            |            |         | -                  | -        | -                        | -              |                         | -                    | -     | -          | -          | -         | -   |            |                    | -                | -                | -            | -       | -        | -      | -       |                          | -               | -                   | -            | -                         |                 | -                    | -        | -          | -          | -      | -            | -         |           |            | -       | -       | -        | -      | - 1  | -       |                |
|                         | 6/22            |              |               |              |              |          |              |            |                         |                |               |          |              |            |         |                    |          |                          |                |                         |                      |       |            |            |           |   |            |                    |                  |                  |              |         |          |        |         |                          |                 |                     |              |                           |                 |                      |          |            |            |        |              |           |           |            |         |         |          |        | -    |         |                |
| , ,                     |                 |              |               |              |              |          |              |            |                         |                |               |          |              |            |         |                    |          |                          |                |                         |                      |       |            |            |           |   |            |                    |                  |                  |              |         |          |        |         |                          |                 |                     |              |                           |                 |                      |          |            |            |        |              |           |           |            |         |         |          |        |      |         |                |
|                         |                 |              |               |              |              |          |              |            |                         |                |               |          |              |            |         |                    |          |                          |                |                         |                      |       |            |            |           |   |            |                    |                  |                  |              |         |          |        |         |                          |                 |                     |              |                           |                 |                      |          |            |            |        |              |           |           |            |         |         |          |        |      |         |                |

Result outside of QA/QC acceptance criteria



**Appendix D: Borehole and Test pit Logs** 



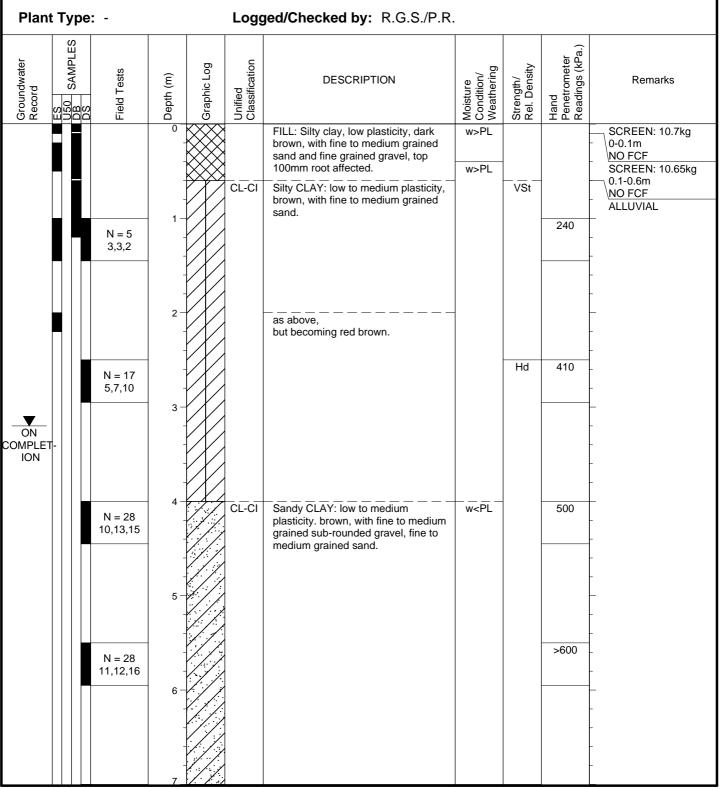
Client: HEALTH INFRASTRUCTURE

Project: PROPOSED ALTERATIONS AND ADDITIONS

Location: MARQUIS STREET, GUNNEDAH, NSW

Job No.: 35091UR Method: SPIRAL AUGER R.L. Surface: ≈ 280.55m

Datum: AHD





Client: HEALTH INFRASTRUCTURE

**Project:** PROPOSED ALTERATIONS AND ADDITIONS

Location: MARQUIS STREET, GUNNEDAH, NSW

Job No.: 35091UR Method: SPIRAL AUGER R.L. Surface: ≈ 280.55m

Datum: AHD

|                       | e: 1/6               |          |                                |        |             |                |   |  | ט                         | atum:                                   | AHD              |
|-----------------------|----------------------|----------|--------------------------------|--------|-------------|----------------|---|--|---------------------------|---|------------------|
| Plar                  | nt Typ               | oe: -    |                                |        |             | Logg           | ed/Checked by: R.G.S./P.R.  |  |                           |   |                  |
| Groundwater<br>Record | ES<br>U50<br>SAMPLES |          | Field Tests                    |        | Graphic Log | Classification | DESCRIPTION   | Moisture<br>Condition/<br>Weathering             | Strength/<br>Rel. Density | Hand<br>Penetrometer<br>Readings (kPa.) | Remarks          |
|                       |                      | N<br>10, | = 33<br>14,19<br>= 41<br>18,23 | 8-22   |             | CL-CI          | Sandy CLAY: low to medium plasticity. brown, with fine to medium grained sub-rounded gravel, fine to medium grained sand. | w <pl< td=""><td>Hd</td><td></td><td></td></pl<> | Hd                        |   |                  |
|                       |                      | N<br>15, | = 41<br>19,22                  | 10 - / |             |                |   |  |                           |   | -                |
|                       |                      |          |                                | 11 -   |             |                | END OF BOREHOLE AT 10.45m   |  |                           |   | -<br>-<br>-      |
|                       |                      |          |                                | 12 -   |             |                |   |  |                           |   | -<br>-<br>-<br>- |
|                       |                      |          |                                | 13 —   |             |                |   |  |                           |   | -                |

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Client: HEALTH INFRASTRUCTURE

**Project:** PROPOSED ALTERATIONS AND ADDITIONS

Location: MARQUIS STREET, GUNNEDAH, NSW

Job No.: 35091UR Method: SPIRAL AUGER R.L. Surface: ≈ 280.1m

Datum: AHD

| Plan                  | t Type                           | : -   |           |             | Logg                      | ged/Checked by: R.G.S./P.R.   |  |                           |   |  |
|-----------------------|----------------------------------|---|-----------|-------------|---------------------------|---|--|---------------------------|---|--|
| Groundwater<br>Record | ES<br>U50<br>DB<br>DS<br>SAMPLES | Field Tests   | Depth (m) | Graphic Log | Unified<br>Classification | DESCRIPTION   | Moisture<br>Condition/<br>Weathering   | Strength/<br>Rel. Density | Hand<br>Penetrometer<br>Readings (kPa.) | Remarks  |
| ON COMPLE             |                                  | N = 10<br>3,4,6<br>N = 7<br>3,3,4                           | 0         |             | CI T                      | FILL: Sandy clay, low plasticity, dark brown, fine to medium grained sand, with fine to medium grained gravel, top 100mm root affected  Silty CLAY: medium plasticity, brown, with fine to medium grained sand. | w>PL   | VSt                       | 300                                     | SCREEN: 10.0kg - 0-0.1m NO FCF SCREEN: 4.18kg - 0.1-0.8m NO FCF ALLUVIAL |
|                       |                                  | N > 25<br>8,10,<br>15/60mm<br>REFUSAL<br>N = 38<br>17,17,21 | 4 5       |             |                           | as above, but with fine to medium grained gravel and layers of coarse grained gravel.   | w <pl< td=""><td>(Hd)</td><td></td><td>NO SPT SAMPLE RECOVERY  NO SPT SAMPLE RECOVERY</td></pl<> | (Hd)                      |   | NO SPT SAMPLE RECOVERY  NO SPT SAMPLE RECOVERY                           |



Client: HEALTH INFRASTRUCTURE

**Project:** PROPOSED ALTERATIONS AND ADDITIONS

Location: MARQUIS STREET, GUNNEDAH, NSW

Job No.: 35091UR Method: SPIRAL AUGER R.L. Surface: ≈ 280.1m

Date: 1/6/22 Datum: AHD

| <b>Date</b> : 1/6/2                  | 22                           |                         |             |                           |   |  | D                         | atum:                                   | AHD  |
|--------------------------------------|------------------------------|-------------------------|-------------|---------------------------|---|--|---------------------------|---|--|
| Plant Type                           | <b>):</b> -                  |                         |             | Logg                      | ged/Checked by: R.G.S./P.R  |  |                           |   |  |
| Groundwater Record ES U50 DB SAMPLES | Field Tests                  | Depth (m)               | Graphic Log | Unified<br>Classification | DESCRIPTION   | Moisture<br>Condition/<br>Weathering   | Strength/<br>Rel. Density | Hand<br>Penetrometer<br>Readings (kPa.) | Remarks  |
|                                      | N = 36<br>22,18,18           | -<br>-<br>-<br>8 –<br>- |             | Cl                        | Sandy CLAY: medium plasticity, brown, with fine to coarse grained sub-rounded gravel. | w <pl< td=""><td>Hd</td><td></td><td>NO SPT SAMPLE RECOVERY  NO SPT SAMPLE  NO SPT SAMPLE</td></pl<> | Hd                        |   | NO SPT SAMPLE RECOVERY  NO SPT SAMPLE  NO SPT SAMPLE |
|                                      | 17,22,<br>10/20mm<br>REFUSAL |                         |             |                           | END OF BOREHOLE AT 8.85m  |  |                           |   | RECOVERY   |
|                                      |                              | 9                       |             |                           |   |  |                           |   |  |

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Client: HEALTH INFRASTRUCTURE

**Project:** PROPOSED ALTERATIONS AND ADDITIONS

Location: MARQUIS STREET, GUNNEDAH, NSW

Job No.: 35091UR Method: SPIRAL AUGER R.L. Surface: ≈ 278.9m

Datum: AHD

| <b>Date:</b> 1/6/                 |  |   |             |                           |   |                                      | ט                         | atum: A                                 | AHD   |
|-----------------------------------|--|---|-------------|---------------------------|---|--------------------------------------|---------------------------|---|---|
| Plant Type                        | 9: -                                   |   |             | Logg                      | ged/Checked by: R.G.S./P.R.   |                                      |                           |   |   |
| Groundwater Record ES U50 SAMPLES | Field Tests                            | Depth (m)                               | Graphic Log | Unified<br>Classification | DESCRIPTION   | Moisture<br>Condition/<br>Weathering | Strength/<br>Rel. Density | Hand<br>Penetrometer<br>Readings (kPa.) | Remarks   |
| ON COMPLETION                     | N = 9<br>2,4,5<br>N = 14<br>5,6,8      | 0 × × × × × × × × × × × × × × × × × × × |             | CI                        | FILL: Sandy clay, medium plasticity, dark brown, fine to medium grained sand, with fine to medium grained gravel, top 100mm root affected.  Silty CLAY: medium plasticity, brown, with fine to medium grained sand. | w>PL                                 | VSt                       | 350                                     | SCREEN: 10.07kg 0-0.1m NO FCF SCREEN: 4.75kg 0.1-0.8m NO FCF ALLUVIAL |
|                                   | N = 31<br>9,13,18<br>N = 27<br>8,13,14 | 5-                                      |             |                           | as above, but with fine to medium grained subrounded gravel.  END OF BOREHOLE AT 6.0m   |                                      | Tiu                       | >600 -                                  | RECOVERY  |
|                                   |  | -<br>-<br>-<br>-<br>7                   |             |                           | END OF BOREHOLE AT 6.0m   |                                      |                           | -<br>-<br>-                             |   |

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Client: HEALTH INFRASTRUCTURE

**Project:** PROPOSED ALTERATIONS AND ADDITIONS

Location: MARQUIS STREET, GUNNEDAH, NSW

Job No.:35091URMethod:SPIRAL AUGERR.L. Surface:≈ 280.3m

Date: 2/6/22 Datum: AHD

| 1                     | :e:                              |                    |                       |             | I                         | and IChanked by DOO IDD  |  | U                         | atum:                                   | AUD   |
|-----------------------|----------------------------------|--------------------|-----------------------|-------------|---------------------------|--|--|---------------------------|---|---|
| Pia                   | nt Type                          | : -                |                       |             | Logg                      | ged/Checked by: R.G.S./P.R.  |  |                           | 1                                       |   |
| Groundwater<br>Record | ES<br>U50<br>DB<br>DS<br>SAMPLES | Field Tests        | Depth (m)             | Graphic Log | Unified<br>Classification | DESCRIPTION  | Moisture<br>Condition/<br>Weathering                   | Strength/<br>Rel. Density | Hand<br>Penetrometer<br>Readings (kPa.) | Remarks   |
|                       |                                  |                    | 0<br>-<br>-<br>-<br>1 |             |                           | FILL: Silty sand, fine to medium grained, brown and grey, with fine to coarse grained gravel, top 100mm root affected. | M<br>D   |                           |   | SCREEN: 10.69kg - 0-0.1m NO FCF APPEARS POORLY - COMPACTED  SCREEN: NOT ENOUGH RETURN |
|                       |                                  | N = 4<br>2,2,2     | -                     |             |                           | as above,<br>but with clay nodules.  |  |                           |   | \0.1-1.0m<br>\NO FCF<br>- SCREEN: 4.07kg<br>1.0-1.6m                                  |
|                       |                                  |                    | 2 <del>-</del><br>-   |             | CI CI                     | Silty CLAY: medium plasticity, brown, with fine to medium grained sand.  | w>PL   | VSt                       |   | NO FCF - ALLUVIAL -   |
| •                     |                                  | N = 13<br>4,6,7    | 3 <del>-</del><br>-   |             |                           |  |  |                           | 250                                     | -<br>-<br>-<br>-  |
| ON<br>COMPL<br>ION    | ET-                              | N = 23             | -<br>-<br>4           |             |                           | as above, but with fine to medium grained sub-   | <br>w <pl< td=""><td></td><td>550</td><td>-</td></pl<> |                           | 550                                     | -   |
|                       |                                  | 7,10,13            | -<br>-<br>5 —<br>-    |             |                           | rounded gravel.  |  |                           |   | -   |
|                       |                                  | N = 31<br>11,13,18 | -<br>6 —<br>-<br>-    |             | CL-CI                     | Sandy CLAY: low to medium plasticity, brown and orange brown, with fine to coarse grained subrounded gravel.           |  |                           |   | -<br>-<br>-<br>-  |
|                       |                                  |                    | 7_                    |             |                           |  |  |                           |   | -   |



Client: HEALTH INFRASTRUCTURE

**Project:** PROPOSED ALTERATIONS AND ADDITIONS

Location: MARQUIS STREET, GUNNEDAH, NSW

Job No.:35091URMethod:SPIRAL AUGERR.L. Surface:≈ 280.3m

| Date:                       | 2/6/2           | 22                |                |             |                           |  |  | D                         | atum:                                   | AHD     |
|-----------------------------|-----------------|-------------------|----------------|-------------|---------------------------|--|--|---------------------------|---|---------|
| Plant <sup>-</sup>          | Type            | : -               |                |             | Logg                      | ged/Checked by: R.G.S./P.R   |  |                           |   |         |
| Groundwater<br>Record<br>FS | U50<br>DB<br>DS | Field Tests       | Depth (m)      | Graphic Log | Unified<br>Classification | DESCRIPTION  | Moisture<br>Condition/<br>Weathering                     | Strength/<br>Rel. Density | Hand<br>Penetrometer<br>Readings (kPa.) | Remarks |
|                             |                 | N = 41<br>9,18,23 | -              |             |                           | Sandy CLAY: low to medium plasticity, brown and orange brown, with fine to coarse grained sub- | w <pl< td=""><td>Hd</td><td>&gt;600</td><td>-</td></pl<> | Hd                        | >600                                    | -       |
|                             |                 |                   | 8 8 9 10 11 12 |             |                           | END OF BOREHOLE AT 7.45m   |  |                           |   |         |
|                             |                 |                   | -<br>14 _      |             |                           |  |  |                           |   | _       |

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Client: HEALTH INFRASTRUCTURE

**Project:** PROPOSED ALTERATIONS AND ADDITIONS

Location: MARQUIS STREET, GUNNEDAH, NSW

Job No.: 35091UR Method: SPIRAL AUGER R.L. Surface: ≈ 278.6m

Datum: AHD

|    |                       | . 2/6/2<br>_                     |                    |                               |             |                           |   |   | U                         | atum:                                   | AND  |
|----|-----------------------|----------------------------------|--------------------|-------------------------------|-------------|---------------------------|---|---|---------------------------|---|--|
| L  | Plant                 | Туре                             | : -                |                               |             | Logg                      | ged/Checked by: R.G.S./P.R  | •   |                           |   |  |
| -  | Groundwater<br>Record | ES<br>U50<br>DB<br>SAMPLES<br>DS | Field Tests        | Depth (m)                     | Graphic Log | Unified<br>Classification | DESCRIPTION   | Moisture<br>Condition/<br>Weathering                      | Strength/<br>Rel. Density | Hand<br>Penetrometer<br>Readings (kPa.) | Remarks  |
|    |                       |                                  |                    | -                             |             |                           | FILL: Silty sand, fine to medium grained, brown, with fine to coarse grained gravel.                        | M   |                           |   | SCREEN: 9.87kg<br>- 0-0.1m<br>NO FCF<br>SCREEN: 2.02kg<br>- 0.1-0.8m<br>NO FCF |
|    |                       |                                  | N = 5<br>1,2,3     | 1 —<br>-<br>-                 |             | CI                        | Sandy CLAY: medium plasticity, brown, fine to medium grained sand, with fine to medium grained sand lenses. | w>PL  | St                        | 110                                     | ALLUVIAL<br>-<br>-<br>-<br>-   |
|    |                       |                                  |                    | 2 —<br>-<br>-                 |             |                           |   |   | 30                        | 000                                     | -<br>-<br>-  |
|    |                       |                                  | N = 13<br>5,6,7    | 3 -                           |             |                           |   |   | VSt                       | 220                                     | -  |
| CO | ON<br>MPLET<br>ION    | _                                | N = 29<br>7,13,16  | -<br>-<br>4 –                 |             |                           | as above, but with fine to coarse grained subrounded gravel.  | w <pl< td=""><td><br/>Hd</td><td>520</td><td>-</td></pl<> | <br>Hd                    | 520                                     | -  |
|    |                       |                                  |                    | -<br>-<br>5 <del>-</del><br>- |             |                           | <i>g</i>  |   |                           |   | -<br>-<br>-  |
|    |                       |                                  | N = 27<br>10,12,15 | -<br>-<br>-<br>6 —            |             |                           |   |   |                           | >600                                    | -<br>-<br>-  |
|    |                       |                                  |                    | -<br>-<br>-<br>-<br>7         |             |                           |   |   |                           |   |  |



Client: HEALTH INFRASTRUCTURE

**Project:** PROPOSED ALTERATIONS AND ADDITIONS

Location: MARQUIS STREET, GUNNEDAH, NSW

Job No.: 35091UR Method: SPIRAL AUGER R.L. Surface: ≈ 278.6m

| Date                  | e: 2/6/2                         | 22                |                   |             |                           |   |  | D                         | atum:                                   | AHD     |
|-----------------------|----------------------------------|-------------------|-------------------|-------------|---------------------------|---|--|---------------------------|---|---------|
| Plar                  | nt Type                          | : -               |                   |             | Logg                      | ged/Checked by: R.G.S./P.R.   |  |                           |   |         |
| Groundwater<br>Record | ES<br>U50<br>DB<br>DS<br>SAMPLES | Field Tests       | Depth (m)         | Graphic Log | Unified<br>Classification | DESCRIPTION   | Moisture<br>Condition/<br>Weathering                 | Strength/<br>Rel. Density | Hand<br>Penetrometer<br>Readings (kPa.) | Remarks |
|                       |                                  | N = 29<br>9,13,16 | -                 |             |                           | Sandy CLAY: medium plasticity,<br>brown, fine to medium grained sand,<br>with fine to medium grained sand | w <pl< th=""><th>Hd</th><th>580</th><th>-</th></pl<> | Hd                        | 580                                     | -       |
|                       |                                  |                   | 8 8 9 10 11 12 13 |             |                           | lenses and fine to coarse grained sub-<br>rounded gravel. END OF BOREHOLE AT 7.45m                        |  |                           |   |         |
|                       |                                  |                   | 14_               |             |                           |   |  |                           |   |         |

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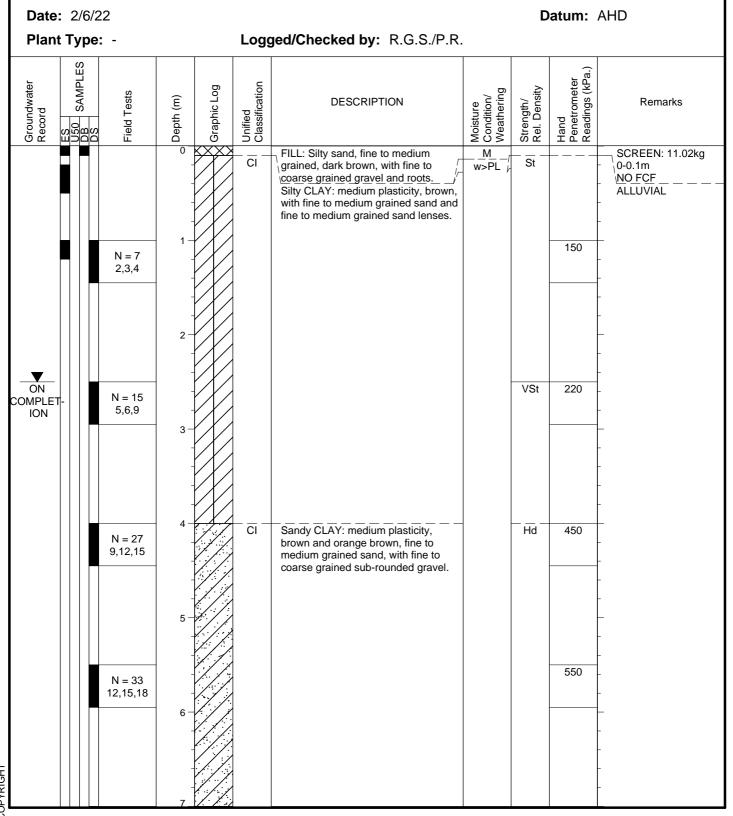


Client: HEALTH INFRASTRUCTURE

Project: PROPOSED ALTERATIONS AND ADDITIONS

Location: MARQUIS STREET, GUNNEDAH, NSW

Job No.: 35091UR Method: SPIRAL AUGER R.L. Surface: ≈ 278.1m





Client: HEALTH INFRASTRUCTURE

Project: PROPOSED ALTERATIONS AND ADDITIONS

Location: MARQUIS STREET, GUNNEDAH, NSW

Method: SPIRAL AUGER **Job No.:** 35091UR **R.L. Surface:**  $\approx$  278.1m

| Date: 2/6/2                              | 22                 |                     |             |                           |  |                                      | D                         | atum:                                   | AHD         |
|--|--------------------|---------------------|-------------|---------------------------|--|--------------------------------------|---------------------------|---|-------------|
| Plant Type                               | : -                |                     |             | Logo                      | ged/Checked by: R.G.S./P.R   | •                                    |                           |   |             |
| Groundwater Record ES U50 U50 DS SAMPLES | Field Tests        | Depth (m)           | Graphic Log | Unified<br>Classification | DESCRIPTION  | Moisture<br>Condition/<br>Weathering | Strength/<br>Rel. Density | Hand<br>Penetrometer<br>Readings (kPa.) | Remarks     |
|  | N = 35<br>10,17,18 | -                   |             |                           | Sandy CLAY: medium plasticity,<br>brown and orange brown, fine to<br>medium grained sand, with fine to<br>coarse grained sub-rounded gravel. | w>PL                                 | Hd                        | 550                                     | -           |
|  |                    | -                   |             |                           | END OF BOREHOLE AT 7.45m   |                                      |                           |   | _           |
|  |                    | 8 <del>-</del><br>- |             |                           |  |                                      |                           |   | _<br>_<br>- |
|  |                    | -<br>9 —            |             |                           |  |                                      |                           |   | -           |
|  |                    | -<br>-<br>-         |             |                           |  |                                      |                           |   | -           |
|  |                    | 10 —<br>-<br>-      |             |                           |  |                                      |                           |   |             |
|  |                    | -<br>11 –<br>-      |             |                           |  |                                      |                           |   | -<br>-<br>- |
|  |                    | -<br>-<br>12 –      |             |                           |  |                                      |                           |   | -           |
|  |                    | -<br>-<br>-         |             |                           |  |                                      |                           |   | -<br>-<br>- |
|  |                    | 13<br>-<br>-        |             |                           |  |                                      |                           |   | -           |
|  |                    | -<br>14 _           |             |                           |  |                                      |                           |   | -           |



Client: HEALTH INFRASTRUCTURE

Project: PROPOSED ALTERATIONS AND ADDITIONS

Location: MARQUIS STREET, GUNNEDAH, NSW

Method: SPIRAL AUGER **Job No.:** 35091UR **R.L. Surface:**  $\approx$  279.7m

| <b>Date:</b> 3/6/22                      |   |             |   |                                      | D                         | atum:                                   | AHD   |
|--|---|-------------|---|--------------------------------------|---------------------------|---|---|
| Plant Type: -                            |   | Logg        | jed/Checked by: R.G.S./P.R.   |                                      |                           |   |   |
| Groundwater Record ES DS DS DS DS RECORD |   | Graphic Log | DESCRIPTION   | Moisture<br>Condition/<br>Weathering | Strength/<br>Rel. Density | Hand<br>Penetrometer<br>Readings (kPa.) | Remarks   |
| N = 4,6  ON COMPLET- ION  N = 7,1        | = 4<br>2,2<br>= 14<br>6,8<br>3 -<br>= 27<br>1,16<br>= 33<br>4,19<br>6 - | a           | FILL: Sandy gravel, fine to medium grained, grey, fine to coarse grained sand.  FILL: Clayey sand, fine to coarse grained, brown, with fine to medium grained gravel.  Sandy CLAY: medium plasticity, brown, fine to medium grained sand, with fine to medium grained sand lenses  as above, but with fine to coarse grained subrounded gravel. | W>PL                                 | VSt Hd                    | 280<br>500                              | 100mm TOP COVER SCREEN: 2.77kg 0.15-0.3m NO FCF SCREEN: 9.50kg 0.3-0.7m NO FCF ALLUVIAL |



Client: HEALTH INFRASTRUCTURE

**Project:** PROPOSED ALTERATIONS AND ADDITIONS

Location: MARQUIS STREET, GUNNEDAH, NSW

Job No.: 35091UR Method: SPIRAL AUGER R.L. Surface: ≈ 279.7m

| Date                  | <b>Date:</b> 3/6/22 |                           |                   |                          |             | Datum: AHD                     |  |                                      |                           |   |                          |
|-----------------------|---------------------|---------------------------|-------------------|--------------------------|-------------|--------------------------------|--|--------------------------------------|---------------------------|---|--------------------------|
| Plai                  | Plant Type: -       |                           |                   |                          |             | Logged/Checked by: R.G.S./P.R. |  |                                      |                           |   |                          |
| Groundwater<br>Record |                     | USU SAMPLES<br>DB SAMPLES | Field Tests       | Depth (m)                | Graphic Log | Unified<br>Classification      | DESCRIPTION  | Moisture<br>Condition/<br>Weathering | Strength/<br>Rel. Density | Hand<br>Penetrometer<br>Readings (kPa.) | Remarks                  |
|                       |                     |                           | N = 35<br>9,17,18 | -<br>-<br>-<br>8-        |             | CI                             | Sandy CLAY: medium plasticity, brown, fine to medium grained sand, with fine to medium grained sand lenses and fine to coarse grained subrounded gravel.  END OF BOREHOLE AT 7.45m | w>PL                                 | Hd                        |   | NO SPT SAMPLE RECOVERY - |
|                       |                     |                           |                   | -<br>-<br>-<br>9 –       | -           |                                |  |                                      |                           |   | -<br>-<br>-              |
|                       |                     |                           |                   | -<br>-<br>10 –           | _           |                                |  |                                      |                           |   | -<br>-<br>-              |
|                       |                     |                           |                   | -<br>-<br>-              | -           |                                |  |                                      |                           |   | -                        |
|                       |                     |                           |                   | 11 -<br>-<br>-<br>-      |             |                                |  |                                      |                           |   | -                        |
|                       |                     |                           |                   | 12 -<br>-<br>-<br>-<br>- |             |                                |  |                                      |                           |   | -                        |
|                       |                     |                           |                   | 13 -<br>-<br>-<br>-      |             |                                |  |                                      |                           |   | -                        |
|                       |                     |                           |                   | 14_                      |             |                                |  |                                      |                           |   |                          |

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Client: HEALTH INFRASTRUCTURE

Project: PROPOSED ALTERATIONS AND ADDITIONS

Location: MARQUIS STREET, GUNNEDAH, NSW

Method: SPIRAL AUGER **Job No.:** 35091UR R.L. Surface:  $\approx 277.8 m$ 

| Date:                    | <b>Date:</b> 3/6/22              |                                   |                              |             | Datum: AHD                     |   |  |                           |   |                                |
|--------------------------|----------------------------------|-----------------------------------|------------------------------|-------------|--------------------------------|---|--|---------------------------|---|--------------------------------|
| Plant Type: -            |                                  |                                   |                              |             | Logged/Checked by: R.G.S./P.R. |   |  |                           |   |                                |
| Groundwater<br>Record    | ES<br>U50<br>DB<br>SAMPLES<br>DS | Field Tests                       | Depth (m)                    | Graphic Log | Unified<br>Classification      | DESCRIPTION   | Moisture<br>Condition/<br>Weathering                               | Strength/<br>Rel. Density | Hand<br>Penetrometer<br>Readings (kPa.) | Remarks                        |
| DRY ON<br>COMPLET<br>ION |                                  |                                   | 0<br>-<br>-<br>-             |             |                                | FILL: Sandy clay, low plasticity, dark brown, with fine to coarse grained gravel, top 100mm root affected.                          | w <pl< td=""><td></td><td></td><td>SCREEN: 10.85kg<br/></td></pl<> |                           |   | SCREEN: 10.85kg<br>            |
|                          |                                  | N = 14<br>9,7,7                   | 1 2                          |             | - CI                           | Sandy CLAY: medium plasticity, brown, fine to medium grained sand.  | w <pl< td=""><td>VSt</td><td>300</td><td>- ALLUVIAL</td></pl<>     | VSt                       | 300                                     | - ALLUVIAL                     |
|                          |                                  | N = 32<br>10,14,18                | -<br>3 -<br>-<br>-<br>-<br>- |             |                                | Sandy CLAY: medium plasticity, brown and orange brown, fine to medium grained sand, with fine to coarse grained sub-rounded gravel. |  | Hd                        | >600                                    | -<br>-<br>-<br>-<br>-          |
|                          |                                  | N = SPT<br> 30/140mm <br> REFUSAL | 5 —                          | V V V       | -                              | Extremely Weathered basalt: clayey GRAVEL, fine to coarse grained, grey and brown, iron staining.  END OF BOREHOLE AT 4.15m         | XW   | Hd                        |   | WERRIE BASALT  TC' BIT REFUSAL |



### **ENVIRONMENTAL LOGS EXPLANATION NOTES**

#### INTRODUCTION

These notes have been provided to amplify the environmental report in regard to classification methods, field procedures and certain matters relating to the logging of soil and rock. Not all notes are necessarily relevant to all reports.

Where geotechnical borehole logs are utilised for environmental purpose, reference should also be made to the explanatory notes included in the geotechnical report. Environmental logs are not suitable for geotechnical purposes.

The ground is a product of continuing natural and man-made processes and therefore exhibits a variety of characteristics and properties which vary from place to place and can change with time. Environmental studies include gathering and assimilating limited facts about these characteristics and properties in order to understand or predict the behaviour of the ground on a particular site under certain conditions. This report may contain such facts obtained by inspection, excavation, probing, sampling, testing or other means of investigation. If so, they are directly relevant only to the ground at the place where and time when the investigation was carried out.

#### **DESCRIPTION AND CLASSIFICATION METHODS**

The methods of description and classification of soils and rocks used in this report are based on Australian Standard 1726:2017 *'Geotechnical Site Investigations'*. In general, descriptions cover the following properties—soil or rock type, colour, structure, strength or density, and inclusions. Identification and classification of soil and rock involves judgement and the Company infers accuracy only to the extent that is common in current geoenvironmental practice.

Soil types are described according to the predominating particle size and behaviour as set out in the attached soil classification table qualified by the grading of other particles present (eg. sandy clay) as set out below:

| Soil Classification | Particle Size    |
|---------------------|------------------|
| Clay                | < 0.002mm        |
| Silt                | 0.002 to 0.075mm |
| Sand                | 0.075 to 2.36mm  |
| Gravel              | 2.36 to 63mm     |
| Cobbles             | 63 to 200mm      |
| Boulders            | > 200mm          |

Non-cohesive soils are classified on the basis of relative density, generally from the results of Standard Penetration Test (SPT) as below:

| Relative Density  | SPT 'N' Value<br>(blows/300mm) |
|-------------------|--------------------------------|
| Very loose (VL)   | <4                             |
| Loose (L)         | 4 to 10                        |
| Medium dense (MD) | 10 to 30                       |
| Dense (D)         | 30 to 50                       |
| Very Dense (VD)   | >50                            |

Cohesive soils are classified on the basis of strength (consistency) either by use of a hand penetrometer, vane shear, laboratory testing and/or tactile engineering examination. The strength terms are defined as follows.

| Classification   | Unconfined<br>Compressive<br>Strength (kPa) | Indicative Undrained<br>Shear Strength (kPa) |  |  |
|------------------|---|--|--|--|
| Very Soft (VS)   | ≤25   | ≤ 12   |  |  |
| Soft (S)         | > 25 and ≤ 50                               | > 12 and ≤ 25                                |  |  |
| Firm (F)         | > 50 and ≤ 100                              | > 25 and ≤ 50                                |  |  |
| Stiff (St)       | > 100 and ≤ 200                             | > 50 and ≤ 100                               |  |  |
| Very Stiff (VSt) | > 200 and ≤ 400                             | > 100 and ≤ 200                              |  |  |
| Hard (Hd)        | > 400                                       | > 200  |  |  |
| Friable (Fr)     | Strength not attainable – soil crumbles     |  |  |  |

Rock types are classified by their geological names, together with descriptive terms regarding weathering, strength, defects, etc. Where relevant, further information regarding rock classification is given in the text of the report. In the Sydney Basin, 'shale' is used to describe fissile mudstone, with a weakness parallel to bedding. Rocks with alternating inter-laminations of different grain size (eg. siltstone/claystone and siltstone/fine grained sandstone) are referred to as 'laminite'.

### **INVESTIGATION METHODS**

1

The following is a brief summary of investigation methods currently adopted by the Company and some comments on their use and application. All methods except test pits, hand auger drilling and portable Dynamic Cone Penetrometers require the use of a mechanical rig which is commonly mounted on a truck chassis or track base.

**Test Pits:** These are normally excavated with a backhoe or a tracked excavator, allowing close examination of the insitu soils and 'weaker' bedrock if it is safe to descend into the pit. The depth of penetration is limited to about 3m for a backhoe and up to 6m for a large excavator. Limitations of test pits are the problems associated with disturbance and difficulty of reinstatement and the consequent effects on close-by structures. Care must be taken if construction is to be carried out near test pit locations to either properly recompact the backfill during construction or to design and construct the





structure so as not to be adversely affected by poorly compacted backfill at the test pit location.

**Hand Auger Drilling:** A borehole of 50mm to 100mm diameter is advanced by manually operated equipment. Refusal of the hand auger can occur on a variety of materials such as obstructions within any fill, tree roots, hard clay, gravel or ironstone, cobbles and boulders, and does not necessarily indicate rock level.

Continuous Spiral Flight Augers: The borehole is advanced using 75mm to 115mm diameter continuous spiral flight augers, which are withdrawn at intervals to allow sampling and insitu testing. This is a relatively economical means of drilling in clays and in sands above the water table. Samples are returned to the surface by the flights or may be collected after withdrawal of the auger flights, but they can be very disturbed and layers may become mixed. Information from the auger sampling (as distinct from specific sampling by SPTs or undisturbed samples) is of limited reliability due to mixing or softening of samples by groundwater, or uncertainties as to the original depth of the samples. Augering below the groundwater table is of even lesser reliability than augering above the water table.

**Rock Augering:** Use can be made of a Tungsten Carbide (TC) bit for auger drilling into rock to indicate rock quality and continuity by variation in drilling resistance and from examination of recovered rock cuttings. This method of investigation is quick and relatively inexpensive but provides only an indication of the likely rock strength and predicted values may be in error by a strength order. Where rock strengths may have a significant impact on construction feasibility or costs, then further investigation by means of cored boreholes may be warranted.

**Wash Boring:** The borehole is usually advanced by a rotary bit, with water being pumped down the drill rods and returned up the annulus, carrying the drill cuttings. Only major changes in stratification can be assessed from the cuttings, together with some information from "feel" and rate of penetration.

**Mud Stabilised Drilling:** Either Wash Boring or Continuous Core Drilling can use drilling mud as a circulating fluid to stabilise the borehole. The term 'mud' encompasses a range of products ranging from bentonite to polymers. The mud tends to mask the cuttings and reliable identification is only possible from intermittent intact sampling (eg. from SPT and U50 samples) or from rock coring, etc.

**Continuous Core Drilling:** A continuous core sample is obtained using a diamond tipped core barrel. Provided full core recovery is achieved (which is not always possible in very low strength rocks and granular soils), this technique provides a very reliable (but relatively expensive) method of investigation. In rocks, NMLC or HQ triple tube core barrels, which give a core of about 50mm and 61mm diameter, respectively, is usually used with water flush. The length of core recovered is compared to the length drilled and any length not recovered is shown as NO CORE. The location of NO CORE recovery is determined on site by the supervising engineer; where the location is uncertain, the loss is placed at the bottom of the drill run.

**Standard Penetration Tests:** Standard Penetration Tests (SPT) are used mainly in non-cohesive soils, but can also be used in cohesive soils, as a means of indicating density or strength and also of obtaining a relatively undisturbed sample. The test procedure is

described in Australian Standard 1289.6.3.1–2004 (R2016) 'Methods of Testing Soils for Engineering Purposes, Soil Strength and Consolidation Tests – Determination of the Penetration Resistance of a Soil – Standard Penetration Test (SPT)'.

The test is carried out in a borehole by driving a 50mm diameter split sample tube with a tapered shoe, under the impact of a 63.5kg hammer with a free fall of 760mm. It is normal for the tube to be driven in three successive 150mm increments and the 'N' value is taken as the number of blows for the last 300mm. In dense sands, very hard clays or weak rock, the full 450mm penetration may not be practicable and the test is discontinued.

The test results are reported in the following form:

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

> N = 13 4, 6, 7

 In a case where the test is discontinued short of full penetration, say after 15 blows for the first 150mm and 30 blows for the next 40mm, as

> N > 30 15, 30/40mm

The results of the test can be related empirically to the engineering properties of the soil.

A modification to the SPT is where the same driving system is used with a solid  $60^{\circ}$  tipped steel cone of the same diameter as the SPT hollow sampler. The solid cone can be continuously driven for some distance in soft clays or loose sands, or may be used where damage would otherwise occur to the SPT. The results of this Solid Cone Penetration Test (SCPT) are shown as 'Nc' on the borehole logs, together with the number of blows per 150mm penetration.

#### LOGS

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

The terms and symbols used in preparation of the logs are defined in the following pages.

Interpretation of the information shown on the logs, and its application to design and construction, should therefore take into account the spacing of boreholes or test pits, the method of drilling or excavation, the frequency of sampling and testing and the possibility of other than 'straight line' variations between the boreholes or test pits. Subsurface conditions between boreholes or test pits may vary significantly from conditions encountered at the borehole or test pit locations.





#### **GROUNDWATER**

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

- Although groundwater may be present, in low permeability soils it may enter the hole slowly or perhaps not at all during the time it is left open.
- A localised perched water table may lead to an erroneous indication of the true water table.
- Water table levels will vary from time to time with seasons or recent weather changes and may not be the same at the time of construction.
- The use of water or mud as a drilling fluid will mask any groundwater inflow. Water has to be blown out of the hole and drilling mud must be washed out of the hole or 'reverted' chemically if reliable water observations are to be made.

More reliable measurements can be made by installing standpipes which are read after the groundwater level has stabilised at intervals ranging from several days to perhaps weeks for low permeability soils. Piezometers, sealed in a particular stratum, may be advisable in low permeability soils or where there may be interference from perched water tables or surface water.

#### FILL

The presence of fill materials can often be determined only by the inclusion of foreign objects (eg. bricks, steel, etc) or by distinctly unusual colour, texture or fabric. Identification of the extent of fill materials will also depend on investigation methods and frequency. Where natural soils similar to those at the site are used for fill, it may be difficult with limited testing and sampling to reliably assess the extent of the fill.

The presence of fill materials is usually regarded with caution as the possible variation in density and material type is much greater than with natural soil deposits. Consequently, there is an increased risk of adverse environmental characteristics or behaviour. If the volume and nature of fill is of importance to a project, then frequent test pit excavations are preferable to boreholes.

#### LABORATORY TESTING

3

Laboratory testing has not been undertaken to confirm the soil classification and rock strengths indicated on the environmental logs unless noted in the report.





### **SYMBOL LEGENDS**

### **SOIL ROCK** FILL CONGLOMERATE TOPSOIL SANDSTONE CLAY (CL, CI, CH) SHALE/MUDSTONE SILT (ML, MH) SILTSTONE SAND (SP, SW) CLAYSTONE GRAVEL (GP, GW) COAL SANDY CLAY (CL, CI, CH) LAMINITE SILTY CLAY (CL, CI, CH) LIMESTONE CLAYEY SAND (SC) PHYLLITE, SCHIST SILTY SAND (SM) TUFF GRAVELLY CLAY (CL, CI, CH) GRANITE, GABBRO CLAYEY GRAVEL (GC) DOLERITE, DIORITE SANDY SILT (ML, MH) BASALT, ANDESITE 77 77 77 7 77 77 77 77 77 QUARTZITE PEAT AND HIGHLY ORGANIC SOILS (Pt)

### **OTHER MATERIALS**









#### **CLASSIFICATION OF COARSE AND FINE GRAINED SOILS**

| М  | Major Divisions                                |    | Typical Names   | Field Classification of Sand and Gravel  | Laboratory Cl                 | assification               |
|--|--|----|---|--|-------------------------------|----------------------------|
| ionis  | GRAVEL (more<br>than half                      | GW | Gravel and gravel-sand mixtures, little or no fines                     | Wide range in grain size and substantial amounts of all intermediate sizes, not enough fines to bind coarse grains, no dry strength    | ≤ 5% fines                    | $C_u > 4$<br>1 < $C_c < 3$ |
| Carse grained soil (more than 65% of soil excluding oversize fraction is greater than 0,075mm) | of coarse<br>fraction is larger<br>than 2.36mm | GP | Gravel and gravel-sand mixtures,<br>little or no fines, uniform gravels | Predominantly one size or range of sizes with some intermediate sizes missing, not enough fines to bind coarse grains, no dry strength | ≤ 5% fines                    | Fails to comply with above |
| uding ove  | SAND (more                                     | GM | Gravel-silt mixtures and gravel-<br>sand-silt mixtures                  | 'Dirty' materials with excess of non-plastic fines, zero to medium dry strength  | ≥ 12% fines, fines are silty  | Fines behave as silt       |
| ofsailexdu   |  | GC | Gravel-clay mixtures and gravel-<br>sand-clay mixtures                  | 'Dirty' materials with excess of plastic fines, medium to high dry strength  | ≥ 12% fines, fines are clayey | Fines behave as clay       |
| rethan 65%c<br>greaterthan   |  | SW | Sand and gravel-sand mixtures, little or no fines                       | Wide range in grain size and substantial amounts of all intermediate sizes, not enough fines to bind coarse grains, no dry strength    | ≤ 5% fines                    | $C_u > 6$<br>1 < $C_c < 3$ |
| oil (more:   | of coarse<br>fraction<br>is smaller than       | SP | Sand and gravel-sand mixtures, little or no fines                       | Predominantly one size or range of sizes with some intermediate sizes missing, not enough fines to bind coarse grains, no dry strength | ≤ 5% fines                    | Fails to comply with above |
| graineds   | 2.36mm)  | SM | Sand-silt mixtures  | 'Dirty' materials with excess of non-plastic fines, zero to medium dry strength  | ≥ 12% fines, fines are silty  |                            |
| Coarse   |  | SC | Sand-clay mixtures  | 'Dirty' materials with excess of plastic fines, medium to high dry strength  | ≥ 12% fines, fines are clayey | N/A                        |

|   |                                 | Group  |  |                   | Field Classification of<br>Silt and Clay |               | Laboratory<br>Classification   |
|---|---------------------------------|--------|--|-------------------|--|---------------|--|
| Majo  | or Divisions                    | Symbol | Typical Names  | Dry Strength      | Dilatancy                                | Toughness     | % < 0.075mm  |
| exduding<br>mm)   | SILT and CLAY<br>(low to medium | ML     | Inorganic silt and very fine sand, rock flour, silty or clayey fine sand or silt with low plasticity | None to low       | Slow to rapid                            | Low           | Below A line   |
| ainedsoils (more than 35% of soil exdu<br>oxasize fraction is less than 0.075 mm) | plasticity)                     | CL, CI | Inorganic clay of low to medium plasticity, gravelly clay, sandy clay                                | Medium to high    | None to slow                             | Medium        | Classification % < 0.075mm   |
| in 35% of soil<br>ss than 0.075   |                                 | OL     | Organic silt   | Low to medium     | Slow                                     | Low           |  |
| onisle  | SILT and CLAY                   | МН     | Inorganic silt   | Low to medium     | None to slow                             | Low to medium | Below A line   |
| xoils (m<br>e fracti  | (high plasticity)               | СН     | Inorganic clay of high plasticity  | High to very high | None                                     | High          | Below A line  Above A line  Below A line  Below A line  Above A line |
| iregrainedsoils (more than<br>oversize fraction is less                           |                                 | ОН     | Organic clay of medium to high plasticity, organic silt  | Medium to high    | None to very slow                        | Low to medium | Below A line   |
| .=  | Highly organic soil             | Pt     | Peat, highly organic soil  | -                 | -  | -             | -  |

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#### **Laboratory Classification Criteria**

A well graded coarse grained soil is one for which the coefficient of uniformity Cu > 4 and the coefficient of curvature  $1 < C_c < 3$ . Otherwise, the soil is poorly graded. These coefficients are given by:

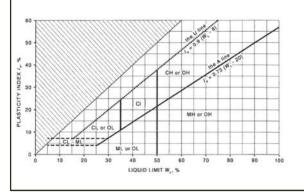
$$C_U = \frac{D_{60}}{D_{10}}$$
 and  $C_C = \frac{(D_{30})^2}{D_{10} D_{60}}$ 

Where  $D_{10}$ ,  $D_{30}$  and  $D_{60}$  are those grain sizes for which 10%, 30% and 60% of the soil grains, respectively, are smaller.

#### NOTES

- 1 For a coarse grained soil with a fines content between 5% and 12%, the soil is given a dual classification comprising the two group symbols separated by a dash; for example, for a poorly graded gravel with between 5% and 12% silt fines, the classification is GP-GM.
- Where the grading is determined from laboratory tests, it is defined by coefficients of curvature (C<sub>c</sub>) and uniformity (C<sub>u</sub>) derived from the particle size distribution curve.
- 3 Clay soils with liquid limits > 35% and ≤ 50% may be classified as being of medium plasticity.
- The U line on the Modified Casagrande Chart is an approximate upper bound for most natural soils.

# Modified Casagrande Chart for Classifying Silts and Clays according to their Behaviour





# **LOG SYMBOLS**

| Log Column   | Symbol   | De    | finition  |   |   |  |  |  |
|--|--|-------|---|---|---|--|--|--|
| Groundwater Record   |  | — Sta | anding water level.   | Time delay following compl  | etion of drilling/excavation may be shown.  |  |  |  |
|  | —с   | Ext   | ent of borehole/te  | est pit collapse shortly after o  | drilling/excavation.  |  |  |  |
| <b>—</b>   |  | — Gr  | Groundwater seepage into borehole or test pit noted during drilling or excavation.  |   |   |  |  |  |
| Samples  | ES<br>U50<br>DB<br>DS<br>ASB<br>ASS            |       | disturbed 50mm d<br>lk disturbed sampl<br>nall disturbed bag s<br>il sample taken ove<br>il sample taken ove  | epth indicated, for environm<br>iameter tube sample taken<br>e taken over depth indicated<br>ample taken over depth ind<br>er depth indicated, for asbes<br>er depth indicated, for acid s<br>er depth indicated, for salinit | over depth indicated.<br>d.<br>icated.<br>tos analysis.<br>ulfate soil analysis.  |  |  |  |
| Field Tests  | N = 17<br>4, 7, 10                             | fig   | ures show blows pe  |   | tween depths indicated by lines. Individual usal' refers to apparent hammer refusal within                                  |  |  |  |
|  |  | 7 fig | ures show blows pe  | er 150mm penetration for 60   | netween depths indicated by lines. Individual D° solid cone driven by SPT hammer. 'R' refers and ing 150mm depth increment. |  |  |  |
|  | VNS = 25<br>PID = 100                          |       | Vane shear reading in kPa of undrained shear strength. Photoionisation detector reading in ppm (soil sample headspace test).  |   |   |  |  |  |
| Moisture Condition<br>(Fine Grained Soils)  (Coarse Grained Soils) | w > PL<br>w ≈ PL<br>w < PL<br>w ≈ LL<br>w > LL |       | Moisture content estimated to be greater than plastic limit.  Moisture content estimated to be approximately equal to plastic limit.  Moisture content estimated to be less than plastic limit.  Moisture content estimated to be near liquid limit.  Moisture content estimated to be wet of liquid limit.  DRY — runs freely through fingers.   |   |   |  |  |  |
|  | M<br>W   |       | <ul><li>MOIST – does not run freely but no free water visible on soil surface.</li><li>WET – free water visible on soil surface.</li></ul>  |   |   |  |  |  |
| Strength (Consistency)<br>Cohesive Soils                           | VS S F St VSt Hd Fr ( )                        |       | VERY SOFT — unconfined compressive strength ≤ 25kPa.  SOFT — unconfined compressive strength > 25kPa and ≤ 50kPa.  FIRM — unconfined compressive strength > 50kPa and ≤ 100kPa.  STIFF — unconfined compressive strength > 100kPa and ≤ 200kPa.  VERY STIFF — unconfined compressive strength > 200kPa and ≤ 400kPa.  HARD — unconfined compressive strength > 400kPa.  FRIABLE — strength not attainable, soil crumbles.  Bracketed symbol indicates estimated consistency based on tactile examination or other assessment. |   |   |  |  |  |
| Density Index/ Relative Density                                    |  |       |   | Density Index (I <sub>D</sub> )<br>Range (%)  | SPT 'N' Value Range<br>(Blows/300mm)  |  |  |  |
| (Cohesionless Soils)   | VL<br>L  |       | RY LOOSE  | ≤15   | 0-4   |  |  |  |
|  | MD   |       | ose<br>Edium dense  | > 15 and ≤ 35<br>> 35 and ≤ 65  | 4 – 10<br>10 – 30   |  |  |  |
|  | D  |       | NSE   | > 65 and ≤ 85   | 30 – 50   |  |  |  |
|  | VD   |       | RY DENSE  | > 85  | > 50<br>> 50  |  |  |  |
|  | ( )  |       |   |   | sed on ease of drilling or other assessment.  |  |  |  |
| Hand Penetrometer<br>Readings                                      | 300<br>250                                     | Me    | easures reading in l  |   | ive strength. Numbers indicate individual   |  |  |  |



| Log Column | Symbol                 | Definition                         |   |
|------------|------------------------|------------------------------------|---|
| Remarks    | 'V' bit                | Hardened steel "                   | V' shaped bit.  |
|            | 'TC' bit               | Twin pronged tu                    | ngsten carbide bit.   |
|            | <b>T</b> <sub>60</sub> | Penetration of au without rotation | uger string in mm under static load of rig applied by drill head hydraulics of augers.  |
|            | Soil Origin            | The geological or                  | rigin of the soil can generally be described as:  |
|            |                        | RESIDUAL                           | <ul> <li>soil formed directly from insitu weathering of the underlying rock.</li> <li>No visible structure or fabric of the parent rock.</li> </ul>   |
|            |                        | EXTREMELY<br>WEATHERED             | <ul> <li>soil formed directly from insitu weathering of the underlying rock.</li> <li>Material is of soil strength but retains the structure and/or fabric of the parent rock.</li> </ul>   |
|            |                        | ALLUVIAL                           | – soil deposited by creeks and rivers.  |
|            |                        | ESTUARINE                          | <ul> <li>soil deposited in coastal estuaries, including sediments caused by<br/>inflowing creeks and rivers, and tidal currents.</li> </ul>   |
|            |                        | MARINE                             | – soil deposited in a marine environment.   |
|            |                        | AEOLIAN                            | <ul> <li>soil carried and deposited by wind.</li> </ul>   |
|            |                        | COLLUVIAL                          | <ul> <li>soil and rock debris transported downslope by gravity, with or without<br/>the assistance of flowing water. Colluvium is usually a thick deposit<br/>formed from a landslide. The description 'slopewash' is used for thinner<br/>surficial deposits.</li> </ul> |
|            |                        | LITTORAL                           | – beach deposited soil.   |



# **Classification of Material Weathering**

| Term                 |                         | Abbre | viation | Definition  |  |  |
|----------------------|-------------------------|-------|---------|---|--|--|
| Residual Soil        | ual Soil                |       | S       | Material is weathered to such an extent that it has soil properties. Mass structure and material texture and fabric of original rock are no longer visible, but the soil has not been significantly transported.  |  |  |
| Extremely Weathered  |                         | X     | W       | Material is weathered to such an extent that it has soil properties. Mass structure and material texture and fabric of original rock are still visible.   |  |  |
| Highly Weathered     | Distinctly<br>Weathered | HW    | DW      | The whole of the rock material is discoloured, usually by iron staining or bleaching to the extent that the colour of the original rock is not recognisable. Rock strength is significantly changed by weathering. Some primary minerals have weathered to clay minerals. Porosity may be increased by leaching, or may be decreased due to deposition of weathering products in pores. |  |  |
| Moderately Weathered | (Note 1)                | MW    |         | The whole of the rock material is discoloured, usually by iron staining bleaching to the extent that the colour of the original rock is not recognish but shows little or no change of strength from fresh rock.  |  |  |
| Slightly Weathered   |                         | SW    |         | Rock is partially discoloured with staining or bleaching along joints but show little or no change of strength from fresh rock.   |  |  |
| Fresh                |                         | F     | R       | Rock shows no sign of decomposition of individual minerals or colour changes.   |  |  |

**NOTE 1:** The term 'Distinctly Weathered' is used where it is not practicable to distinguish between 'Highly Weathered' and 'Moderately Weathered' rock. 'Distinctly Weathered' is defined as follows: 'Rock strength usually changed by weathering. The rock may be highly discoloured, usually by iron staining. Porosity may be increased by leaching, or may be decreased due to deposition of weathering products in pores'. There is some change in rock strength.

# **Rock Material Strength Classification**

|                            |              |   | Guide to Strength  |   |  |  |  |
|----------------------------|--------------|---|--|---|--|--|--|
| Term                       | Abbreviation | Uniaxial<br>Compressive<br>Strength (MPa) | Point Load<br>Strength Index<br>Is <sub>(50)</sub> (MPa) | Field Assessment  |  |  |  |
| Very Low<br>Strength       | VL           | 0.6 to 2                                  | 0.03 to 0.1  | Material crumbles under firm blows with sharp end of pick; can be peeled with knife; too hard to cut a triaxial sample by hand. Pieces up to 30mm thick can be broken by finger pressure.   |  |  |  |
| Low Strength               | L            | 2 to 6                                    | 0.1 to 0.3   | Easily scored with a knife; indentations 1mm to 3mm show in the specimen with firm blows of the pick point; has dull sound under hammer. A piece of core 150mm long by 50mm diameter may be broken by hand. Sharp edges of core may be friable and break during handling. |  |  |  |
| Medium<br>Strength         | М            | 6 to 20                                   | 0.3 to 1   | Scored with a knife; a piece of core 150mm long by 50mm diameter can be broken by hand with difficulty.   |  |  |  |
| High Strength              | н            | 20 to 60                                  | 1 to 3   | A piece of core 150mm long by 50mm diameter cannot be broken by hand but can be broken by a pick with a single firm blow; rock rings under hammer.  |  |  |  |
| Very High<br>Strength      | VH           | 60 to 200                                 | 3 to 10  | Hand specimen breaks with pick after more than one blow; rock rings under hammer.   |  |  |  |
| Extremely<br>High Strength | EH           | > 200                                     | >10  | Specimen requires many blows with geological pick to break through intact material; rock rings under hammer.  |  |  |  |



**Appendix E: Laboratory Report(s) & COC Documents** 



Envirolab Services Pty Ltd

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#### **CERTIFICATE OF ANALYSIS 297823**

| Client Details |                                      |
|----------------|--------------------------------------|
| Client         | JK Environments                      |
| Attention      | Mitchell Delaney                     |
| Address        | PO Box 976, North Ryde BC, NSW, 1670 |

| Sample Details                       |                              |
|--------------------------------------|------------------------------|
| Your Reference                       | E35091UPD, Gunnedah          |
| Number of Samples                    | 54 Soil, 1 Material, 1 Water |
| Date samples received                | 14/06/2022                   |
| Date completed instructions received | 10/06/2022                   |

#### **Analysis Details**

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

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

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

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

| Report Details   |            |  |  |  |  |
|--|------------|--|--|--|--|
| Date results requested by  | 21/06/2022 |  |  |  |  |
| Date of Issue  | 21/06/2022 |  |  |  |  |
| NATA Accreditation Number 2901. This document shall not be reproduced except in full.                |            |  |  |  |  |
| Accredited for compliance with ISO/IEC 17025 - Testing. Tests not covered by NATA are denoted with * |            |  |  |  |  |

#### **Asbestos Approved By**

Analysed by Asbestos Approved Analyst: Wonnie Condos, Nyovan Moonean

Authorised by Asbestos Approved Signatory: Matt Mansfield

#### **Results Approved By**

Dragana Tomas, Senior Chemist Josh Williams, Organics and LC Supervisor Kyle Gavrily, Senior Chemist Loren Bardwell, Development Chemist Matt Mansfield, QHSE manager Steven Luong, Senior Chemist **Authorised By** 

Nancy Zhang, Laboratory Manager



| vTRH(C6-C10)/BTEXN in Soil                           |       |            |            |            |            |            |  |  |
|--|-------|------------|------------|------------|------------|------------|--|--|
| Our Reference  |       | 297823-1   | 297823-3   | 297823-5   | 297823-8   | 297823-12  |  |  |
| Your Reference                                       | UNITS | BH1        | BH1        | BH2        | ВН3        | BH4        |  |  |
| Depth  |       | 0-0.1      | 1.0-1.45   | 0-0.1      | 0-0.1      | 0-0.1      |  |  |
| Date Sampled   |       | 01/06/2022 | 01/06/2022 | 01/06/2022 | 01/06/2022 | 02/06/2022 |  |  |
| Type of sample                                       |       | Soil       | Soil       | Soil       | Soil       | Soil       |  |  |
| Date extracted                                       | -     | 15/06/2022 | 15/06/2022 | 15/06/2022 | 15/06/2022 | 15/06/2022 |  |  |
| Date analysed  | -     | 18/06/2022 | 18/06/2022 | 18/06/2022 | 18/06/2022 | 18/06/2022 |  |  |
| TRH C <sub>6</sub> - C <sub>9</sub>                  | mg/kg | <25        | <25        | <25        | <25        | <25        |  |  |
| TRH C <sub>6</sub> - C <sub>10</sub>                 | mg/kg | <25        | <25        | <25        | <25        | <25        |  |  |
| vTPH C <sub>6</sub> - C <sub>10</sub> less BTEX (F1) | mg/kg | <25        | <25        | <25        | <25        | <25        |  |  |
| Benzene  | mg/kg | <0.2       | <0.2       | <0.2       | <0.2       | <0.2       |  |  |
| Toluene  | mg/kg | <0.5       | <0.5       | <0.5       | <0.5       | <0.5       |  |  |
| Ethylbenzene   | mg/kg | <1         | <1         | <1         | <1         | <1         |  |  |
| m+p-xylene   | mg/kg | <2         | <2         | <2         | <2         | <2         |  |  |
| o-Xylene   | mg/kg | <1         | <1         | <1         | <1         | <1         |  |  |
| Naphthalene  | mg/kg | <1         | <1         | <1         | <1         | <1         |  |  |
| Total +ve Xylenes                                    | mg/kg | <1         | <1         | <1         | <1         | <1         |  |  |
| Surrogate aaa-Trifluorotoluene                       | %     | 94         | 101        | 101        | 102        | 104        |  |  |

| vTRH(C6-C10)/BTEXN in Soil                           |       |            |            |            |            |            |
|--|-------|------------|------------|------------|------------|------------|
| Our Reference  |       | 297823-16  | 297823-20  | 297823-23  | 297823-27  | 297823-31  |
| Your Reference                                       | UNITS | BH5        | BH6        | BH7        | BH8        | TP1        |
| Depth  |       | 0-0.1      | 0-0.1      | 0.15-0.3   | 0-0.1      | 0-0.1      |
| Date Sampled   |       | 02/06/2022 | 02/06/2022 | 03/06/2022 | 03/06/2022 | 01/06/2022 |
| Type of sample                                       |       | Soil       | Soil       | Soil       | Soil       | Soil       |
| Date extracted                                       | -     | 15/06/2022 | 15/06/2022 | 15/06/2022 | 15/06/2022 | 15/06/2022 |
| Date analysed  | -     | 18/06/2022 | 18/06/2022 | 18/06/2022 | 18/06/2022 | 18/06/2022 |
| TRH C6 - C9  | mg/kg | <25        | <25        | <25        | <25        | <25        |
| TRH C <sub>6</sub> - C <sub>10</sub>                 | mg/kg | <25        | <25        | <25        | <25        | <25        |
| vTPH C <sub>6</sub> - C <sub>10</sub> less BTEX (F1) | mg/kg | <25        | <25        | <25        | <25        | <25        |
| Benzene  | mg/kg | <0.2       | <0.2       | <0.2       | <0.2       | <0.2       |
| Toluene  | mg/kg | <0.5       | <0.5       | <0.5       | <0.5       | <0.5       |
| Ethylbenzene   | mg/kg | <1         | <1         | <1         | <1         | <1         |
| m+p-xylene   | mg/kg | <2         | <2         | <2         | <2         | <2         |
| o-Xylene   | mg/kg | <1         | <1         | <1         | <1         | <1         |
| Naphthalene  | mg/kg | <1         | <1         | <1         | <1         | <1         |
| Total +ve Xylenes                                    | mg/kg | <1         | <1         | <1         | <1         | <1         |
| Surrogate aaa-Trifluorotoluene                       | %     | 104        | 100        | 101        | 108        | 87         |

Envirolab Reference: 297823 Revision No: R00

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| vTRH(C6-C10)/BTEXN in Soil                           |       |            |            |            |            |            |
|--|-------|------------|------------|------------|------------|------------|
| Our Reference  |       | 297823-34  | 297823-36  | 297823-39  | 297823-42  | 297823-45  |
| Your Reference                                       | UNITS | TP2        | TP3        | TP4        | TP5        | TP6        |
| Depth  |       | 0-0.1      | 0-0.1      | 0-0.1      | 0-0.1      | 0-0.1      |
| Date Sampled   |       | 01/06/2022 | 01/06/2022 | 01/06/2022 | 01/06/2022 | 01/06/2022 |
| Type of sample                                       |       | Soil       | Soil       | Soil       | Soil       | Soil       |
| Date extracted                                       | -     | 15/06/2022 | 15/06/2022 | 15/06/2022 | 15/06/2022 | 15/06/2022 |
| Date analysed  | -     | 18/06/2022 | 18/06/2022 | 18/06/2022 | 18/06/2022 | 18/06/2022 |
| TRH C <sub>6</sub> - C <sub>9</sub>                  | mg/kg | <25        | <25        | <25        | <25        | <25        |
| TRH C <sub>6</sub> - C <sub>10</sub>                 | mg/kg | <25        | <25        | <25        | <25        | <25        |
| vTPH C <sub>6</sub> - C <sub>10</sub> less BTEX (F1) | mg/kg | <25        | <25        | <25        | <25        | <25        |
| Benzene  | mg/kg | <0.2       | <0.2       | <0.2       | <0.2       | <0.2       |
| Toluene  | mg/kg | <0.5       | <0.5       | <0.5       | <0.5       | <0.5       |
| Ethylbenzene   | mg/kg | <1         | <1         | <1         | <1         | <1         |
| m+p-xylene   | mg/kg | <2         | <2         | <2         | <2         | <2         |
| o-Xylene   | mg/kg | <1         | <1         | <1         | <1         | <1         |
| Naphthalene  | mg/kg | <1         | <1         | <1         | <1         | <1         |
| Total +ve Xylenes                                    | mg/kg | <1         | <1         | <1         | <1         | <1         |
| Surrogate aaa-Trifluorotoluene                       | %     | 90         | 109        | 104        | 90         | 107        |

| vTRH(C6-C10)/BTEXN in Soil                           |       |            |            |            |
|--|-------|------------|------------|------------|
| Our Reference  |       | 297823-49  | 297823-54  | 297823-55  |
| Your Reference                                       | UNITS | SDUP1      | TB-S1      | TS-S1      |
| Depth  |       | -          | -          | -          |
| Date Sampled   |       | 01/06/2022 | 01/06/2022 | 01/06/2022 |
| Type of sample                                       |       | Soil       | Soil       | Soil       |
| Date extracted                                       | -     | 15/06/2022 | 15/06/2022 | [NA]       |
| Date analysed  | -     | 18/06/2022 | 18/06/2022 | [NA]       |
| TRH C6 - C9  | mg/kg | <25        | [NA]       | [NA]       |
| TRH C <sub>6</sub> - C <sub>10</sub>                 | mg/kg | <25        | [NA]       | [NA]       |
| vTPH C <sub>6</sub> - C <sub>10</sub> less BTEX (F1) | mg/kg | <25        | [NA]       | [NA]       |
| Benzene  | mg/kg | <0.2       | <0.2       | 89%        |
| Toluene  | mg/kg | <0.5       | <0.5       | 96%        |
| Ethylbenzene   | mg/kg | <1         | <1         | 100%       |
| m+p-xylene   | mg/kg | <2         | <2         | 98%        |
| o-Xylene   | mg/kg | <1         | <1         | 100%       |
| Naphthalene  | mg/kg | <1         | <1         | [NT]       |
| Total +ve Xylenes                                    | mg/kg | <1         | <1         | [NT]       |
| Surrogate aaa-Trifluorotoluene                       | %     | 104        | 94         | 107        |

| svTRH (C10-C40) in Soil                                      |       |            |            |            |            |            |
|--|-------|------------|------------|------------|------------|------------|
| Our Reference  |       | 297823-1   | 297823-3   | 297823-5   | 297823-8   | 297823-12  |
| Your Reference   | UNITS | BH1        | BH1        | BH2        | ВН3        | BH4        |
| Depth  |       | 0-0.1      | 1.0-1.45   | 0-0.1      | 0-0.1      | 0-0.1      |
| Date Sampled   |       | 01/06/2022 | 01/06/2022 | 01/06/2022 | 01/06/2022 | 02/06/2022 |
| Type of sample   |       | Soil       | Soil       | Soil       | Soil       | Soil       |
| Date extracted   | -     | 15/06/2022 | 15/06/2022 | 15/06/2022 | 15/06/2022 | 15/06/2022 |
| Date analysed  | -     | 18/06/2022 | 18/06/2022 | 18/06/2022 | 18/06/2022 | 18/06/2022 |
| TRH C <sub>10</sub> - C <sub>14</sub>                        | mg/kg | <50        | <50        | <50        | <50        | <50        |
| TRH C <sub>15</sub> - C <sub>28</sub>                        | mg/kg | <100       | <100       | <100       | <100       | <100       |
| TRH C <sub>29</sub> - C <sub>36</sub>                        | mg/kg | <100       | <100       | <100       | <100       | <100       |
| Total +ve TRH (C10-C36)                                      | mg/kg | <50        | <50        | <50        | <50        | <50        |
| TRH >C <sub>10</sub> -C <sub>16</sub>                        | mg/kg | <50        | <50        | <50        | <50        | <50        |
| TRH >C <sub>10</sub> - C <sub>16</sub> less Naphthalene (F2) | mg/kg | <50        | <50        | <50        | <50        | <50        |
| TRH >C <sub>16</sub> -C <sub>34</sub>                        | mg/kg | 100        | <100       | <100       | 100        | <100       |
| TRH >C <sub>34</sub> -C <sub>40</sub>                        | mg/kg | <100       | <100       | <100       | <100       | <100       |
| Total +ve TRH (>C10-C40)                                     | mg/kg | 100        | <50        | <50        | 100        | <50        |
| Surrogate o-Terphenyl  | %     | 91         | 85         | 85         | 87         | 86         |

| svTRH (C10-C40) in Soil                                      |       |            |            |            |            |            |
|--|-------|------------|------------|------------|------------|------------|
| Our Reference  |       | 297823-16  | 297823-20  | 297823-23  | 297823-27  | 297823-31  |
| Your Reference   | UNITS | BH5        | BH6        | BH7        | BH8        | TP1        |
| Depth  |       | 0-0.1      | 0-0.1      | 0.15-0.3   | 0-0.1      | 0-0.1      |
| Date Sampled   |       | 02/06/2022 | 02/06/2022 | 03/06/2022 | 03/06/2022 | 01/06/2022 |
| Type of sample   |       | Soil       | Soil       | Soil       | Soil       | Soil       |
| Date extracted   | -     | 15/06/2022 | 15/06/2022 | 15/06/2022 | 15/06/2022 | 15/06/2022 |
| Date analysed  | -     | 18/06/2022 | 18/06/2022 | 18/06/2022 | 18/06/2022 | 18/06/2022 |
| TRH C <sub>10</sub> - C <sub>14</sub>                        | mg/kg | <50        | <50        | <50        | <50        | <50        |
| TRH C <sub>15</sub> - C <sub>28</sub>                        | mg/kg | <100       | <100       | <100       | <100       | <100       |
| TRH C <sub>29</sub> - C <sub>36</sub>                        | mg/kg | <100       | <100       | <100       | <100       | 120        |
| Total +ve TRH (C10-C36)                                      | mg/kg | <50        | <50        | <50        | <50        | 120        |
| TRH >C <sub>10</sub> -C <sub>16</sub>                        | mg/kg | <50        | <50        | <50        | <50        | <50        |
| TRH >C <sub>10</sub> - C <sub>16</sub> less Naphthalene (F2) | mg/kg | <50        | <50        | <50        | <50        | <50        |
| TRH >C <sub>16</sub> -C <sub>34</sub>                        | mg/kg | <100       | <100       | <100       | <100       | 140        |
| TRH >C <sub>34</sub> -C <sub>40</sub>                        | mg/kg | <100       | <100       | <100       | <100       | <100       |
| Total +ve TRH (>C10-C40)                                     | mg/kg | <50        | <50        | <50        | <50        | 140        |
| Surrogate o-Terphenyl  | %     | 85         | 87         | 83         | 85         | 93         |

| svTRH (C10-C40) in Soil                                      |       |            |            |            |            |            |
|--|-------|------------|------------|------------|------------|------------|
| Our Reference  |       | 297823-34  | 297823-36  | 297823-39  | 297823-42  | 297823-45  |
| Your Reference   | UNITS | TP2        | TP3        | TP4        | TP5        | TP6        |
| Depth  |       | 0-0.1      | 0-0.1      | 0-0.1      | 0-0.1      | 0-0.1      |
| Date Sampled   |       | 01/06/2022 | 01/06/2022 | 01/06/2022 | 01/06/2022 | 01/06/2022 |
| Type of sample   |       | Soil       | Soil       | Soil       | Soil       | Soil       |
| Date extracted   | -     | 15/06/2022 | 15/06/2022 | 15/06/2022 | 15/06/2022 | 15/06/2022 |
| Date analysed  | -     | 18/06/2022 | 18/06/2022 | 18/06/2022 | 18/06/2022 | 18/06/2022 |
| TRH C <sub>10</sub> - C <sub>14</sub>                        | mg/kg | <50        | <50        | <50        | <50        | <50        |
| TRH C <sub>15</sub> - C <sub>28</sub>                        | mg/kg | <100       | <100       | <100       | <100       | <100       |
| TRH C <sub>29</sub> - C <sub>36</sub>                        | mg/kg | <100       | <100       | <100       | <100       | <100       |
| Total +ve TRH (C10-C36)                                      | mg/kg | <50        | <50        | <50        | <50        | <50        |
| TRH >C <sub>10</sub> -C <sub>16</sub>                        | mg/kg | <50        | <50        | <50        | <50        | <50        |
| TRH >C <sub>10</sub> - C <sub>16</sub> less Naphthalene (F2) | mg/kg | <50        | <50        | <50        | <50        | <50        |
| TRH >C16 -C34  | mg/kg | <100       | <100       | <100       | <100       | <100       |
| TRH >C <sub>34</sub> -C <sub>40</sub>                        | mg/kg | <100       | <100       | <100       | <100       | <100       |
| Total +ve TRH (>C10-C40)                                     | mg/kg | <50        | <50        | <50        | <50        | <50        |
| Surrogate o-Terphenyl  | %     | 88         | 83         | 80         | 84         | 82         |

| svTRH (C10-C40) in Soil                                      |       |            |
|--|-------|------------|
| Our Reference  |       | 297823-49  |
| Your Reference   | UNITS | SDUP1      |
| Depth  |       | -          |
| Date Sampled   |       | 01/06/2022 |
| Type of sample   |       | Soil       |
| Date extracted   | -     | 15/06/2022 |
| Date analysed  | -     | 18/06/2022 |
| TRH C <sub>10</sub> - C <sub>14</sub>                        | mg/kg | <50        |
| TRH C <sub>15</sub> - C <sub>28</sub>                        | mg/kg | <100       |
| TRH C <sub>29</sub> - C <sub>36</sub>                        | mg/kg | 130        |
| Total +ve TRH (C10-C36)                                      | mg/kg | 130        |
| TRH >C <sub>10</sub> -C <sub>16</sub>                        | mg/kg | <50        |
| TRH >C <sub>10</sub> - C <sub>16</sub> less Naphthalene (F2) | mg/kg | <50        |
| TRH >C16 -C34  | mg/kg | 100        |
| TRH >C <sub>34</sub> -C <sub>40</sub>                        | mg/kg | 110        |
| Total +ve TRH (>C10-C40)                                     | mg/kg | 210        |
| Surrogate o-Terphenyl  | %     | 90         |

| PAHs in Soil                   |       |            |            |            |            |            |
|--------------------------------|-------|------------|------------|------------|------------|------------|
| Our Reference                  |       | 297823-1   | 297823-5   | 297823-8   | 297823-12  | 297823-16  |
| Your Reference                 | UNITS | BH1        | BH2        | ВН3        | BH4        | BH5        |
| Depth                          |       | 0-0.1      | 0-0.1      | 0-0.1      | 0-0.1      | 0-0.1      |
| Date Sampled                   |       | 01/06/2022 | 01/06/2022 | 01/06/2022 | 02/06/2022 | 02/06/2022 |
| Type of sample                 |       | Soil       | Soil       | Soil       | Soil       | Soil       |
| Date extracted                 | -     | 15/06/2022 | 15/06/2022 | 15/06/2022 | 15/06/2022 | 15/06/2022 |
| Date analysed                  | -     | 17/06/2022 | 17/06/2022 | 17/06/2022 | 17/06/2022 | 17/06/2022 |
| Naphthalene                    | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Acenaphthylene                 | mg/kg | <0.1       | <0.1       | 0.5        | <0.1       | <0.1       |
| Acenaphthene                   | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Fluorene                       | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Phenanthrene                   | mg/kg | <0.1       | <0.1       | 0.3        | <0.1       | <0.1       |
| Anthracene                     | mg/kg | <0.1       | <0.1       | 0.2        | <0.1       | <0.1       |
| Fluoranthene                   | mg/kg | <0.1       | <0.1       | 0.4        | <0.1       | <0.1       |
| Pyrene                         | mg/kg | <0.1       | <0.1       | 1.2        | <0.1       | <0.1       |
| Benzo(a)anthracene             | mg/kg | <0.1       | <0.1       | 0.4        | <0.1       | <0.1       |
| Chrysene                       | mg/kg | <0.1       | <0.1       | 0.4        | <0.1       | <0.1       |
| Benzo(b,j+k)fluoranthene       | mg/kg | <0.2       | <0.2       | 0.6        | <0.2       | <0.2       |
| Benzo(a)pyrene                 | mg/kg | <0.05      | <0.05      | 0.55       | <0.05      | <0.05      |
| Indeno(1,2,3-c,d)pyrene        | mg/kg | <0.1       | <0.1       | 0.3        | <0.1       | <0.1       |
| Dibenzo(a,h)anthracene         | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Benzo(g,h,i)perylene           | mg/kg | <0.1       | <0.1       | 0.6        | <0.1       | <0.1       |
| Total +ve PAH's                | mg/kg | <0.05      | <0.05      | 5.5        | <0.05      | <0.05      |
| Benzo(a)pyrene TEQ calc (zero) | mg/kg | <0.5       | <0.5       | 0.7        | <0.5       | <0.5       |
| Benzo(a)pyrene TEQ calc(half)  | mg/kg | <0.5       | <0.5       | 0.7        | <0.5       | <0.5       |
| Benzo(a)pyrene TEQ calc(PQL)   | mg/kg | <0.5       | <0.5       | 0.8        | <0.5       | <0.5       |
| Surrogate p-Terphenyl-d14      | %     | 116        | 109        | 105        | 98         | 110        |

| PAHs in Soil                   |       |            |            |            |            |            |
|--------------------------------|-------|------------|------------|------------|------------|------------|
| Our Reference                  |       | 297823-20  | 297823-23  | 297823-27  | 297823-31  | 297823-34  |
| Your Reference                 | UNITS | BH6        | BH7        | BH8        | TP1        | TP2        |
| Depth                          |       | 0-0.1      | 0.15-0.3   | 0-0.1      | 0-0.1      | 0-0.1      |
| Date Sampled                   |       | 02/06/2022 | 03/06/2022 | 03/06/2022 | 01/06/2022 | 01/06/2022 |
| Type of sample                 |       | Soil       | Soil       | Soil       | Soil       | Soil       |
| Date extracted                 | -     | 15/06/2022 | 17/06/2022 | 15/06/2022 | 15/06/2022 | 15/06/2022 |
| Date analysed                  | -     | 17/06/2022 | 17/06/2022 | 17/06/2022 | 17/06/2022 | 17/06/2022 |
| Naphthalene                    | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Acenaphthylene                 | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Acenaphthene                   | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Fluorene                       | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Phenanthrene                   | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Anthracene                     | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Fluoranthene                   | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Pyrene                         | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Benzo(a)anthracene             | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Chrysene                       | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Benzo(b,j+k)fluoranthene       | mg/kg | <0.2       | <0.2       | <0.2       | <0.2       | <0.2       |
| Benzo(a)pyrene                 | mg/kg | <0.05      | <0.05      | <0.05      | <0.05      | <0.05      |
| Indeno(1,2,3-c,d)pyrene        | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Dibenzo(a,h)anthracene         | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Benzo(g,h,i)perylene           | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Total +ve PAH's                | mg/kg | <0.05      | <0.05      | <0.05      | <0.05      | <0.05      |
| Benzo(a)pyrene TEQ calc (zero) | mg/kg | <0.5       | <0.5       | <0.5       | <0.5       | <0.5       |
| Benzo(a)pyrene TEQ calc(half)  | mg/kg | <0.5       | <0.5       | <0.5       | <0.5       | <0.5       |
| Benzo(a)pyrene TEQ calc(PQL)   | mg/kg | <0.5       | <0.5       | <0.5       | <0.5       | <0.5       |
| Surrogate p-Terphenyl-d14      | %     | 113        | 110        | 106        | 108        | 108        |

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| PAHs in Soil                   |       |            |            |            |            |            |
|--------------------------------|-------|------------|------------|------------|------------|------------|
| Our Reference                  |       | 297823-36  | 297823-39  | 297823-42  | 297823-45  | 297823-49  |
| Your Reference                 | UNITS | TP3        | TP4        | TP5        | TP6        | SDUP1      |
| Depth                          |       | 0-0.1      | 0-0.1      | 0-0.1      | 0-0.1      | -          |
| Date Sampled                   |       | 01/06/2022 | 01/06/2022 | 01/06/2022 | 01/06/2022 | 01/06/2022 |
| Type of sample                 |       | Soil       | Soil       | Soil       | Soil       | Soil       |
| Date extracted                 | -     | 15/06/2022 | 15/06/2022 | 15/06/2022 | 15/06/2022 | 15/06/2022 |
| Date analysed                  | -     | 17/06/2022 | 17/06/2022 | 17/06/2022 | 17/06/2022 | 17/06/2022 |
| Naphthalene                    | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Acenaphthylene                 | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Acenaphthene                   | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Fluorene                       | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Phenanthrene                   | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Anthracene                     | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Fluoranthene                   | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Pyrene                         | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Benzo(a)anthracene             | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Chrysene                       | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Benzo(b,j+k)fluoranthene       | mg/kg | <0.2       | <0.2       | <0.2       | <0.2       | <0.2       |
| Benzo(a)pyrene                 | mg/kg | <0.05      | <0.05      | <0.05      | <0.05      | <0.05      |
| Indeno(1,2,3-c,d)pyrene        | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Dibenzo(a,h)anthracene         | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Benzo(g,h,i)perylene           | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Total +ve PAH's                | mg/kg | <0.05      | <0.05      | <0.05      | <0.05      | <0.05      |
| Benzo(a)pyrene TEQ calc (zero) | mg/kg | <0.5       | <0.5       | <0.5       | <0.5       | <0.5       |
| Benzo(a)pyrene TEQ calc(half)  | mg/kg | <0.5       | <0.5       | <0.5       | <0.5       | <0.5       |
| Benzo(a)pyrene TEQ calc(PQL)   | mg/kg | <0.5       | <0.5       | <0.5       | <0.5       | <0.5       |
| Surrogate p-Terphenyl-d14      | %     | 102        | 102        | 99         | 99         | 111        |

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| Organochlorine Pesticides in soil |       |            |            |            |            |            |
|-----------------------------------|-------|------------|------------|------------|------------|------------|
| Our Reference                     |       | 297823-1   | 297823-5   | 297823-8   | 297823-12  | 297823-16  |
| Your Reference                    | UNITS | BH1        | BH2        | ВН3        | BH4        | BH5        |
| Depth                             |       | 0-0.1      | 0-0.1      | 0-0.1      | 0-0.1      | 0-0.1      |
| Date Sampled                      |       | 01/06/2022 | 01/06/2022 | 01/06/2022 | 02/06/2022 | 02/06/2022 |
| Type of sample                    |       | Soil       | Soil       | Soil       | Soil       | Soil       |
| Date extracted                    | -     | 15/06/2022 | 15/06/2022 | 15/06/2022 | 15/06/2022 | 15/06/2022 |
| Date analysed                     | -     | 17/06/2022 | 17/06/2022 | 17/06/2022 | 17/06/2022 | 17/06/2022 |
| alpha-BHC                         | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| нсв                               | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| beta-BHC                          | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| gamma-BHC                         | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Heptachlor                        | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| delta-BHC                         | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Aldrin                            | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Heptachlor Epoxide                | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| gamma-Chlordane                   | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| alpha-chlordane                   | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Endosulfan I                      | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| pp-DDE                            | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Dieldrin                          | mg/kg | 1.1        | <0.1       | <0.1       | <0.1       | <0.1       |
| Endrin                            | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Endosulfan II                     | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| pp-DDD                            | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Endrin Aldehyde                   | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| pp-DDT                            | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Endosulfan Sulphate               | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Methoxychlor                      | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Total +ve DDT+DDD+DDE             | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Surrogate TCMX                    | %     | 106        | 100        | 95         | 92         | 100        |

| Organochlorine Pesticides in soil |       |            |            |            |            |            |
|-----------------------------------|-------|------------|------------|------------|------------|------------|
| Our Reference                     |       | 297823-20  | 297823-23  | 297823-27  | 297823-31  | 297823-34  |
| Your Reference                    | UNITS | BH6        | BH7        | BH8        | TP1        | TP2        |
| Depth                             |       | 0-0.1      | 0.15-0.3   | 0-0.1      | 0-0.1      | 0-0.1      |
| Date Sampled                      |       | 02/06/2022 | 03/06/2022 | 03/06/2022 | 01/06/2022 | 01/06/2022 |
| Type of sample                    |       | Soil       | Soil       | Soil       | Soil       | Soil       |
| Date extracted                    | -     | 15/06/2022 | 17/06/2022 | 15/06/2022 | 15/06/2022 | 15/06/2022 |
| Date analysed                     | -     | 17/06/2022 | 17/06/2022 | 17/06/2022 | 17/06/2022 | 17/06/2022 |
| alpha-BHC                         | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| НСВ                               | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| beta-BHC                          | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| gamma-BHC                         | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Heptachlor                        | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| delta-BHC                         | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Aldrin                            | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Heptachlor Epoxide                | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| gamma-Chlordane                   | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| alpha-chlordane                   | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Endosulfan I                      | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| pp-DDE                            | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Dieldrin                          | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Endrin                            | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Endosulfan II                     | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| pp-DDD                            | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Endrin Aldehyde                   | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| pp-DDT                            | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Endosulfan Sulphate               | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Methoxychlor                      | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Total +ve DDT+DDD+DDE             | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Surrogate TCMX                    | %     | 103        | 102        | 99         | 100        | 97         |

| Organochlorine Pesticides in soil |       |            |            |            |            |            |
|-----------------------------------|-------|------------|------------|------------|------------|------------|
| Our Reference                     |       | 297823-36  | 297823-39  | 297823-42  | 297823-45  | 297823-49  |
| Your Reference                    | UNITS | TP3        | TP4        | TP5        | TP6        | SDUP1      |
| Depth                             |       | 0-0.1      | 0-0.1      | 0-0.1      | 0-0.1      | -          |
| Date Sampled                      |       | 01/06/2022 | 01/06/2022 | 01/06/2022 | 01/06/2022 | 01/06/2022 |
| Type of sample                    |       | Soil       | Soil       | Soil       | Soil       | Soil       |
| Date extracted                    | -     | 15/06/2022 | 15/06/2022 | 15/06/2022 | 15/06/2022 | 15/06/2022 |
| Date analysed                     | -     | 17/06/2022 | 17/06/2022 | 17/06/2022 | 17/06/2022 | 17/06/2022 |
| alpha-BHC                         | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| НСВ                               | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| beta-BHC                          | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| gamma-BHC                         | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Heptachlor                        | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| delta-BHC                         | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Aldrin                            | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Heptachlor Epoxide                | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| gamma-Chlordane                   | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| alpha-chlordane                   | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Endosulfan I                      | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| pp-DDE                            | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Dieldrin                          | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | 1.2        |
| Endrin                            | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Endosulfan II                     | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| pp-DDD                            | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Endrin Aldehyde                   | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| pp-DDT                            | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Endosulfan Sulphate               | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Methoxychlor                      | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Total +ve DDT+DDD+DDE             | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Surrogate TCMX                    | %     | 95         | 95         | 92         | 90         | 103        |

| Organophosphorus Pesticides in Soil |       |            |            |            |            |            |
|-------------------------------------|-------|------------|------------|------------|------------|------------|
| Our Reference                       |       | 297823-1   | 297823-5   | 297823-8   | 297823-12  | 297823-16  |
| Your Reference                      | UNITS | BH1        | BH2        | ВН3        | BH4        | BH5        |
| Depth                               |       | 0-0.1      | 0-0.1      | 0-0.1      | 0-0.1      | 0-0.1      |
| Date Sampled                        |       | 01/06/2022 | 01/06/2022 | 01/06/2022 | 02/06/2022 | 02/06/2022 |
| Type of sample                      |       | Soil       | Soil       | Soil       | Soil       | Soil       |
| Date extracted                      | -     | 15/06/2022 | 15/06/2022 | 15/06/2022 | 15/06/2022 | 15/06/2022 |
| Date analysed                       | -     | 17/06/2022 | 17/06/2022 | 17/06/2022 | 17/06/2022 | 17/06/2022 |
| Dichlorvos                          | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Dimethoate                          | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Diazinon                            | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Chlorpyriphos-methyl                | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Ronnel                              | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Fenitrothion                        | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Malathion                           | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Chlorpyriphos                       | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Parathion                           | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Bromophos-ethyl                     | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Ethion                              | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Azinphos-methyl (Guthion)           | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Surrogate TCMX                      | %     | 106        | 100        | 95         | 92         | 100        |

| Organophosphorus Pesticides in Soil |       |            |            |            |            |            |
|-------------------------------------|-------|------------|------------|------------|------------|------------|
| Our Reference                       |       | 297823-20  | 297823-23  | 297823-27  | 297823-31  | 297823-34  |
| Your Reference                      | UNITS | BH6        | BH7        | ВН8        | TP1        | TP2        |
| Depth                               |       | 0-0.1      | 0.15-0.3   | 0-0.1      | 0-0.1      | 0-0.1      |
| Date Sampled                        |       | 02/06/2022 | 03/06/2022 | 03/06/2022 | 01/06/2022 | 01/06/2022 |
| Type of sample                      |       | Soil       | Soil       | Soil       | Soil       | Soil       |
| Date extracted                      | -     | 15/06/2022 | 17/06/2022 | 15/06/2022 | 15/06/2022 | 15/06/2022 |
| Date analysed                       | -     | 17/06/2022 | 17/06/2022 | 17/06/2022 | 17/06/2022 | 17/06/2022 |
| Dichlorvos                          | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Dimethoate                          | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Diazinon                            | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Chlorpyriphos-methyl                | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Ronnel                              | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Fenitrothion                        | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Malathion                           | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Chlorpyriphos                       | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Parathion                           | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Bromophos-ethyl                     | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Ethion                              | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Azinphos-methyl (Guthion)           | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Surrogate TCMX                      | %     | 103        | 102        | 99         | 100        | 97         |

Envirolab Reference: 297823

Revision No: R00

| Organophosphorus Pesticides in Soil |       |            |            |            |            |            |
|-------------------------------------|-------|------------|------------|------------|------------|------------|
| Our Reference                       |       | 297823-36  | 297823-39  | 297823-42  | 297823-45  | 297823-49  |
| Your Reference                      | UNITS | TP3        | TP4        | TP5        | TP6        | SDUP1      |
| Depth                               |       | 0-0.1      | 0-0.1      | 0-0.1      | 0-0.1      | -          |
| Date Sampled                        |       | 01/06/2022 | 01/06/2022 | 01/06/2022 | 01/06/2022 | 01/06/2022 |
| Type of sample                      |       | Soil       | Soil       | Soil       | Soil       | Soil       |
| Date extracted                      | -     | 15/06/2022 | 15/06/2022 | 15/06/2022 | 15/06/2022 | 15/06/2022 |
| Date analysed                       | -     | 17/06/2022 | 17/06/2022 | 17/06/2022 | 17/06/2022 | 17/06/2022 |
| Dichlorvos                          | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Dimethoate                          | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Diazinon                            | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Chlorpyriphos-methyl                | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Ronnel                              | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Fenitrothion                        | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Malathion                           | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Chlorpyriphos                       | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Parathion                           | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Bromophos-ethyl                     | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Ethion                              | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Azinphos-methyl (Guthion)           | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Surrogate TCMX                      | %     | 95         | 95         | 92         | 90         | 103        |

| PCBs in Soil               |       |            |            |            |            |            |
|----------------------------|-------|------------|------------|------------|------------|------------|
| Our Reference              |       | 297823-1   | 297823-5   | 297823-8   | 297823-12  | 297823-16  |
| Your Reference             | UNITS | BH1        | BH2        | ВН3        | BH4        | BH5        |
| Depth                      |       | 0-0.1      | 0-0.1      | 0-0.1      | 0-0.1      | 0-0.1      |
| Date Sampled               |       | 01/06/2022 | 01/06/2022 | 01/06/2022 | 02/06/2022 | 02/06/2022 |
| Type of sample             |       | Soil       | Soil       | Soil       | Soil       | Soil       |
| Date extracted             | -     | 15/06/2022 | 15/06/2022 | 15/06/2022 | 15/06/2022 | 15/06/2022 |
| Date analysed              | -     | 17/06/2022 | 17/06/2022 | 17/06/2022 | 17/06/2022 | 17/06/2022 |
| Aroclor 1016               | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Aroclor 1221               | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Aroclor 1232               | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Aroclor 1242               | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Aroclor 1248               | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Aroclor 1254               | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Aroclor 1260               | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Total +ve PCBs (1016-1260) | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Surrogate TCMX             | %     | 106        | 100        | 95         | 92         | 100        |

| PCBs in Soil               |       |            |            |            |            |            |
|----------------------------|-------|------------|------------|------------|------------|------------|
| Our Reference              |       | 297823-20  | 297823-23  | 297823-27  | 297823-31  | 297823-34  |
| Your Reference             | UNITS | BH6        | BH7        | BH8        | TP1        | TP2        |
| Depth                      |       | 0-0.1      | 0.15-0.3   | 0-0.1      | 0-0.1      | 0-0.1      |
| Date Sampled               |       | 02/06/2022 | 03/06/2022 | 03/06/2022 | 01/06/2022 | 01/06/2022 |
| Type of sample             |       | Soil       | Soil       | Soil       | Soil       | Soil       |
| Date extracted             | -     | 15/06/2022 | 17/06/2022 | 15/06/2022 | 15/06/2022 | 15/06/2022 |
| Date analysed              | -     | 17/06/2022 | 17/06/2022 | 17/06/2022 | 17/06/2022 | 17/06/2022 |
| Aroclor 1016               | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Aroclor 1221               | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Aroclor 1232               | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Aroclor 1242               | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Aroclor 1248               | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Aroclor 1254               | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Aroclor 1260               | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Total +ve PCBs (1016-1260) | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Surrogate TCMX             | %     | 103        | 102        | 99         | 100        | 97         |

| PCBs in Soil               |       |            |            |            |            |            |
|----------------------------|-------|------------|------------|------------|------------|------------|
| Our Reference              |       | 297823-36  | 297823-39  | 297823-42  | 297823-45  | 297823-49  |
| Your Reference             | UNITS | TP3        | TP4        | TP5        | TP6        | SDUP1      |
| Depth                      |       | 0-0.1      | 0-0.1      | 0-0.1      | 0-0.1      | -          |
| Date Sampled               |       | 01/06/2022 | 01/06/2022 | 01/06/2022 | 01/06/2022 | 01/06/2022 |
| Type of sample             |       | Soil       | Soil       | Soil       | Soil       | Soil       |
| Date extracted             | -     | 15/06/2022 | 15/06/2022 | 15/06/2022 | 15/06/2022 | 15/06/2022 |
| Date analysed              | -     | 17/06/2022 | 17/06/2022 | 17/06/2022 | 17/06/2022 | 17/06/2022 |
| Aroclor 1016               | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Aroclor 1221               | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Aroclor 1232               | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Aroclor 1242               | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Aroclor 1248               | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Aroclor 1254               | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Aroclor 1260               | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Total +ve PCBs (1016-1260) | mg/kg | <0.1       | <0.1       | <0.1       | <0.1       | <0.1       |
| Surrogate TCMX             | %     | 95         | 95         | 92         | 90         | 103        |

| Acid Extractable metals in soil |       |            |            |            |            |            |
|---------------------------------|-------|------------|------------|------------|------------|------------|
| Our Reference                   |       | 297823-1   | 297823-5   | 297823-8   | 297823-12  | 297823-16  |
| Your Reference                  | UNITS | BH1        | BH2        | вн3        | BH4        | BH5        |
| Depth                           |       | 0-0.1      | 0-0.1      | 0-0.1      | 0-0.1      | 0-0.1      |
| Date Sampled                    |       | 01/06/2022 | 01/06/2022 | 01/06/2022 | 02/06/2022 | 02/06/2022 |
| Type of sample                  |       | Soil       | Soil       | Soil       | Soil       | Soil       |
| Date prepared                   | -     | 15/06/2022 | 15/06/2022 | 15/06/2022 | 15/06/2022 | 15/06/2022 |
| Date analysed                   | -     | 16/06/2022 | 16/06/2022 | 16/06/2022 | 16/06/2022 | 16/06/2022 |
| Arsenic                         | mg/kg | <4         | <4         | <4         | <4         | <4         |
| Cadmium                         | mg/kg | <0.4       | <0.4       | <0.4       | <0.4       | <0.4       |
| Chromium                        | mg/kg | 25         | 24         | 28         | 22         | 30         |
| Copper                          | mg/kg | 25         | 13         | 25         | 18         | 20         |
| Lead                            | mg/kg | 22         | 10         | 37         | 29         | 19         |
| Mercury                         | mg/kg | <0.1       | <0.1       | 0.1        | <0.1       | 8.4        |
| Nickel                          | mg/kg | 29         | 23         | 33         | 28         | 31         |
| Zinc                            | mg/kg | 78         | 34         | 80         | 57         | 44         |

| Acid Extractable metals in soil |       |            |            |            |            |            |
|---------------------------------|-------|------------|------------|------------|------------|------------|
| Our Reference                   |       | 297823-20  | 297823-23  | 297823-27  | 297823-31  | 297823-34  |
| Your Reference                  | UNITS | BH6        | BH7        | BH8        | TP1        | TP2        |
| Depth                           |       | 0-0.1      | 0.15-0.3   | 0-0.1      | 0-0.1      | 0-0.1      |
| Date Sampled                    |       | 02/06/2022 | 03/06/2022 | 03/06/2022 | 01/06/2022 | 01/06/2022 |
| Type of sample                  |       | Soil       | Soil       | Soil       | Soil       | Soil       |
| Date prepared                   | -     | 15/06/2022 | 15/06/2022 | 15/06/2022 | 15/06/2022 | 15/06/2022 |
| Date analysed                   | -     | 16/06/2022 | 16/06/2022 | 16/06/2022 | 16/06/2022 | 16/06/2022 |
| Arsenic                         | mg/kg | <4         | <4         | <4         | <4         | <4         |
| Cadmium                         | mg/kg | <0.4       | <0.4       | <0.4       | <0.4       | <0.4       |
| Chromium                        | mg/kg | 32         | 56         | 27         | 25         | 27         |
| Copper                          | mg/kg | 20         | 38         | 19         | 19         | 31         |
| Lead                            | mg/kg | 29         | 5          | 11         | 11         | 35         |
| Mercury                         | mg/kg | 0.3        | <0.1       | <0.1       | <0.1       | 0.1        |
| Nickel                          | mg/kg | 30         | 90         | 32         | 24         | 32         |
| Zinc                            | mg/kg | 50         | 45         | 38         | 74         | 71         |

| Acid Extractable metals in soil |       |            |            |            |            |            |
|---------------------------------|-------|------------|------------|------------|------------|------------|
| Our Reference                   |       | 297823-36  | 297823-39  | 297823-42  | 297823-45  | 297823-49  |
| Your Reference                  | UNITS | TP3        | TP4        | TP5        | TP6        | SDUP1      |
| Depth                           |       | 0-0.1      | 0-0.1      | 0-0.1      | 0-0.1      | -          |
| Date Sampled                    |       | 01/06/2022 | 01/06/2022 | 01/06/2022 | 01/06/2022 | 01/06/2022 |
| Type of sample                  |       | Soil       | Soil       | Soil       | Soil       | Soil       |
| Date prepared                   | -     | 15/06/2022 | 15/06/2022 | 15/06/2022 | 15/06/2022 | 15/06/2022 |
| Date analysed                   | -     | 16/06/2022 | 16/06/2022 | 16/06/2022 | 16/06/2022 | 16/06/2022 |
| Arsenic                         | mg/kg | <4         | <4         | <4         | <4         | <4         |
| Cadmium                         | mg/kg | <0.4       | <0.4       | <0.4       | <0.4       | <0.4       |
| Chromium                        | mg/kg | 30         | 31         | 25         | 61         | 28         |
| Copper                          | mg/kg | 23         | 22         | 20         | 16         | 25         |
| Lead                            | mg/kg | 12         | 14         | 20         | 11         | 22         |
| Mercury                         | mg/kg | <0.1       | 0.3        | 0.2        | <0.1       | <0.1       |
| Nickel                          | mg/kg | 33         | 36         | 29         | 19         | 35         |
| Zinc                            | mg/kg | 44         | 44         | 51         | 48         | 81         |

| Moisture       |       |            |            |            |            |            |
|----------------|-------|------------|------------|------------|------------|------------|
| Our Reference  |       | 297823-1   | 297823-3   | 297823-5   | 297823-8   | 297823-12  |
| Your Reference | UNITS | BH1        | BH1        | BH2        | ВН3        | BH4        |
| Depth          |       | 0-0.1      | 1.0-1.45   | 0-0.1      | 0-0.1      | 0-0.1      |
| Date Sampled   |       | 01/06/2022 | 01/06/2022 | 01/06/2022 | 01/06/2022 | 02/06/2022 |
| Type of sample |       | Soil       | Soil       | Soil       | Soil       | Soil       |
| Date prepared  | -     | 15/06/2022 | 15/06/2022 | 15/06/2022 | 15/06/2022 | 15/06/2022 |
| Date analysed  | -     | 16/06/2022 | 16/06/2022 | 16/06/2022 | 16/06/2022 | 16/06/2022 |
| Moisture       | %     | 19         | 15         | 11         | 16         | 12         |

| Moisture       |       |            |            |            |            |            |
|----------------|-------|------------|------------|------------|------------|------------|
| Our Reference  |       | 297823-16  | 297823-20  | 297823-23  | 297823-27  | 297823-31  |
| Your Reference | UNITS | BH5        | ВН6        | BH7        | ВН8        | TP1        |
| Depth          |       | 0-0.1      | 0-0.1      | 0.15-0.3   | 0-0.1      | 0-0.1      |
| Date Sampled   |       | 02/06/2022 | 02/06/2022 | 03/06/2022 | 03/06/2022 | 01/06/2022 |
| Type of sample |       | Soil       | Soil       | Soil       | Soil       | Soil       |
| Date prepared  | -     | 15/06/2022 | 15/06/2022 | 15/06/2022 | 15/06/2022 | 15/06/2022 |
| Date analysed  | -     | 16/06/2022 | 16/06/2022 | 16/06/2022 | 16/06/2022 | 16/06/2022 |
| Moisture       | %     | 19         | 18         | 20         | 15         | 20         |

| Moisture       |       |            |            |            |            |            |
|----------------|-------|------------|------------|------------|------------|------------|
| Our Reference  |       | 297823-34  | 297823-36  | 297823-39  | 297823-42  | 297823-45  |
| Your Reference | UNITS | TP2        | TP3        | TP4        | TP5        | TP6        |
| Depth          |       | 0-0.1      | 0-0.1      | 0-0.1      | 0-0.1      | 0-0.1      |
| Date Sampled   |       | 01/06/2022 | 01/06/2022 | 01/06/2022 | 01/06/2022 | 01/06/2022 |
| Type of sample |       | Soil       | Soil       | Soil       | Soil       | Soil       |
| Date prepared  | -     | 15/06/2022 | 15/06/2022 | 15/06/2022 | 15/06/2022 | 15/06/2022 |
| Date analysed  | -     | 16/06/2022 | 16/06/2022 | 16/06/2022 | 16/06/2022 | 16/06/2022 |
| Moisture       | %     | 19         | 19         | 20         | 16         | 11         |

| Moisture       |       |            |
|----------------|-------|------------|
| Our Reference  |       | 297823-49  |
| Your Reference | UNITS | SDUP1      |
| Depth          |       | -          |
| Date Sampled   |       | 01/06/2022 |
| Type of sample |       | Soil       |
| Date prepared  | -     | 15/06/2022 |
| Date analysed  | -     | 16/06/2022 |
| Moisture       | %     | 19         |

| Asbestos ID - soils NEPM - ASB-001    |        |   |   |   |   |   |
|---------------------------------------|--------|---|---|---|---|---|
| Our Reference                         |        | 297823-1  | 297823-5  | 297823-8  | 297823-12   | 297823-16   |
| Your Reference                        | UNITS  | BH1   | BH2   | ВН3   | BH4   | BH5   |
| Depth                                 |        | 0-0.1   | 0-0.1   | 0-0.1   | 0-0.1   | 0-0.1   |
| Date Sampled                          |        | 01/06/2022  | 01/06/2022  | 01/06/2022  | 02/06/2022  | 02/06/2022  |
| Type of sample                        |        | Soil  | Soil  | Soil  | Soil  | Soil  |
| Date analysed                         | -      | 21/06/2022  | 21/06/2022  | 21/06/2022  | 21/06/2022  | 21/06/2022  |
| Sample mass tested                    | g      | 630.91  | 691.17  | 642.9   | 749.46  | 702.75  |
| Sample Description                    | -      | Brown coarse-<br>grained soil &<br>rocks                                      |
| Asbestos ID in soil (AS4964) >0.1g/kg | -      | No asbestos<br>detected at<br>reporting limit of<br>0.1g/kg<br>Organic fibres | No asbestos<br>detected at<br>reporting limit of<br>0.1g/kg<br>Organic fibres | No asbestos<br>detected at<br>reporting limit of<br>0.1g/kg<br>Organic fibres | No asbestos<br>detected at<br>reporting limit of<br>0.1g/kg<br>Organic fibres | No asbestos<br>detected at<br>reporting limit of<br>0.1g/kg<br>Organic fibres |
|                                       |        | detected  | detected  | detected  | detected  | detected  |
| Trace Analysis                        | -      | No asbestos detected  | No asbestos detected  | No asbestos detected  | No asbestos<br>detected   | No asbestos detected  |
| Total Asbestos <sup>#1</sup>          | g/kg   | <0.1  | <0.1  | <0.1  | <0.1  | <0.1  |
| Asbestos ID in soil <0.1g/kg*         | -      | No visible asbestos detected  | No visible asbesto<br>detected  |
| ACM >7mm Estimation*                  | g      | _   | _   | _   | _   | _   |
| FA and AF Estimation*                 | g      | _   | _   | _   | -   | _   |
| ACM >7mm Estimation*                  | %(w/w) | <0.01   | <0.01   | <0.01   | <0.01   | <0.01   |
| FA and AF Estimation*#2               | %(w/w) | <0.001  | <0.001  | <0.001  | <0.001  | <0.001  |

Envirolab Reference: 297823

Revision No: R00

| Asbestos ID - soils NEPM - ASB-001    |        |   |   |   |   |   |
|---------------------------------------|--------|---|---|---|---|---|
| Our Reference                         |        | 297823-20   | 297823-23   | 297823-27   | 297823-31   | 297823-35   |
| Your Reference                        | UNITS  | BH6   | BH7   | BH8   | TP1   | TP2   |
| Depth                                 |        | 0-0.1   | 0.15-0.3  | 0-0.1   | 0-0.1   | 0.1-0.3   |
| Date Sampled                          |        | 02/06/2022  | 03/06/2022  | 03/06/2022  | 01/06/2022  | 01/06/2022  |
| Type of sample                        |        | Soil  | Soil  | Soil  | Soil  | Soil  |
| Date analysed                         | -      | 21/06/2022  | 21/06/2022  | 21/06/2022  | 21/06/2022  | 21/06/2022  |
| Sample mass tested                    | g      | 544.19  | 831.26  | 744.64  | 616.78  | 745.43  |
| Sample Description                    | -      | Brown coarse-<br>grained soil &<br>rocks                    |
| Asbestos ID in soil (AS4964) >0.1g/kg | -      | No asbestos<br>detected at<br>reporting limit of<br>0.1g/kg | No asbestos<br>detected at<br>reporting limit of<br>0.1g/kg | No asbestos<br>detected at<br>reporting limit of<br>0.1g/kg | No asbestos<br>detected at<br>reporting limit of<br>0.1g/kg | No asbestos<br>detected at<br>reporting limit of<br>0.1g/kg |
|                                       |        | Organic fibres detected                                     | Organic fibres detected                                     | Organic fibres<br>detected                                  | Organic fibres<br>detected                                  | Organic fibres detected                                     |
| Trace Analysis                        | -      | No asbestos<br>detected                                     |
| Total Asbestos#1                      | g/kg   | <0.1  | <0.1  | <0.1  | <0.1  | <0.1  |
| Asbestos ID in soil <0.1g/kg*         | -      | No visible asbestos detected                                |
| ACM >7mm Estimation*                  | g      | _   | _   | -   | -   | _   |
| FA and AF Estimation*                 | g      | _   | _   | -   | -   | _   |
| ACM >7mm Estimation*                  | %(w/w) | <0.01   | <0.01   | <0.01   | <0.01   | <0.01   |
| FA and AF Estimation*#2               | %(w/w) | <0.001  | <0.001  | <0.001  | <0.001  | <0.001  |

| Asbestos ID - soils NEPM - ASB-001    |        |   |   |   |
|---------------------------------------|--------|---|---|---|
| Our Reference                         |        | 297823-36   | 297823-39   | 297823-42   |
| Your Reference                        | UNITS  | TP3   | TP4   | TP5   |
| Depth                                 |        | 0-0.1   | 0-0.1   | 0-0.1   |
| Date Sampled                          |        | 01/06/2022  | 01/06/2022  | 01/06/2022  |
| Type of sample                        |        | Soil  | Soil  | Soil  |
| Date analysed                         | -      | 21/06/2022  | 21/06/2022  | 21/06/2022  |
| Sample mass tested                    | g      | 709.63  | 673.26  | 795.56  |
| Sample Description                    | -      | Brown coarse-<br>grained soil &<br>rocks                    | Brown coarse-<br>grained soil &<br>rocks                    | Brown coarse-<br>grained soil &<br>rocks                    |
| Asbestos ID in soil (AS4964) >0.1g/kg | -      | No asbestos<br>detected at<br>reporting limit of<br>0.1g/kg | No asbestos<br>detected at<br>reporting limit of<br>0.1g/kg | No asbestos<br>detected at<br>reporting limit of<br>0.1g/kg |
|                                       |        | Organic fibres detected                                     | Organic fibres detected                                     | Organic fibres detected                                     |
| Trace Analysis                        | -      | No asbestos<br>detected                                     | No asbestos<br>detected                                     | No asbestos<br>detected                                     |
| Total Asbestos#1                      | g/kg   | <0.1  | <0.1  | <0.1  |
| Asbestos ID in soil <0.1g/kg*         | -      | No visible asbestos detected                                | No visible asbestos detected                                | No visible asbestos detected                                |
| ACM >7mm Estimation*                  | g      | _   | _   | -   |
| FA and AF Estimation*                 | g      | _   | _   | _   |
| ACM >7mm Estimation*                  | %(w/w) | <0.01   | <0.01   | <0.01   |
| FA and AF Estimation*#2               | %(w/w) | <0.001  | <0.001  | <0.001  |

| Asbestos ID - soils |       |   |
|---------------------|-------|---|
| Our Reference       |       | 297823-45   |
| Your Reference      | UNITS | TP6   |
| Depth               |       | 0-0.1   |
| Date Sampled        |       | 01/06/2022  |
| Type of sample      |       | Soil  |
| Date analysed       | -     | 20/06/2022  |
| Sample mass tested  | g     | Approx. 40g   |
| Sample Description  | -     | Brown coarse-<br>grained soil &<br>rocks                    |
| Asbestos ID in soil | -     | No asbestos<br>detected at<br>reporting limit of<br>0.1g/kg |
|                     |       | Organic fibres detected                                     |
| Trace Analysis      | -     | No asbestos<br>detected                                     |

| Asbestos ID - materials    |       |                              |
|----------------------------|-------|------------------------------|
| Our Reference              |       | 297823-53                    |
| Your Reference             | UNITS | FCF1-TP2                     |
| Depth                      |       | 0.1-0.3                      |
| Date Sampled               |       | 01/06/2022                   |
| Type of sample             |       | Material                     |
| Date analysed              | -     | 15/06/2022                   |
| Mass / Dimension of Sample | -     | 40x40x4mm                    |
| Sample Description         | -     | Grey fibre cement material   |
| Asbestos ID in materials   | -     | Chrysotile asbestos detected |
|                            |       | Amosite asbestos detected    |
| Trace Analysis             | -     | [NT]                         |

| BTEX in Water                  |       |            |
|--------------------------------|-------|------------|
| Our Reference                  |       | 297823-56  |
| Your Reference                 | UNITS | FR-S1-SPT  |
| Depth                          |       | -          |
| Date Sampled                   |       | 03/06/2022 |
| Type of sample                 |       | Water      |
| Date extracted                 | -     | 16/06/2022 |
| Date analysed                  | -     | 17/06/2022 |
| Benzene                        | μg/L  | <1         |
| Toluene                        | μg/L  | <1         |
| Ethylbenzene                   | μg/L  | <1         |
| m+p-xylene                     | μg/L  | <2         |
| o-xylene                       | μg/L  | <1         |
| Surrogate Dibromofluoromethane | %     | 97         |
| Surrogate toluene-d8           | %     | 100        |
| Surrogate 4-BFB                | %     | 101        |

| Method ID  | Methodology Summary   |
|------------|---|
| ASB-001    | Asbestos ID - Qualitative identification of asbestos in bulk samples using Polarised Light Microscopy and Dispersion Staining Techniques including Synthetic Mineral Fibre and Organic Fibre as per Australian Standard 4964-2004.  |
| ASB-001    | Asbestos ID - Identification of asbestos in soil samples using Polarised Light Microscopy and Dispersion Staining Techniques. Minimum 500mL soil sample was analysed as recommended by "National Environment Protection (Assessment of site contamination) Measure, Schedule B1 and "The Guidelines from the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009" with a reporting limit of 0.1g/kg (0.01% w/w) as per Australian Standard AS4964-2004.  Results reported denoted with * are outside our scope of NATA accreditation. |
|            | NOTE #1 Total Asbestos g/kg was analysed and reported as per Australian Standard AS4964 (This is the sum of ACM >7mm, <7mm and FA/AF)   |
|            | <b>NOTE</b> #2 The screening level of 0.001% w/w asbestos in soil for FA and AF only applies where the FA and AF are able to be quantified by gravimetric procedures. This screening level is not applicable to free fibres.  |
|            | Estimation = Estimated asbestos weight  |
|            | Results reported with "" is equivalent to no visible asbestos identified using Polarised Light microscopy and Dispersion Staining Techniques.   |
| Inorg-008  | Moisture content determined by heating at 105+/-5 °C for a minimum of 12 hours.   |
| Metals-020 | Determination of various metals by ICP-AES.   |
| Metals-021 | Determination of Mercury by Cold Vapour AAS.  |
| Org-020    | Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.  |
| Org-020    | Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID.   |
|            | F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.  |
|            | Note, the Total +ve TRH PQL is reflective of the lowest individual PQL and is therefore "Total +ve TRH" is simply a sum of the positive individual TRH fractions (>C10-C40).  |
| Org-021    | Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD.   |

| Method ID   | Methodology Summary  |
|-------------|--|
| Org-021     | Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD.  Note, the Total +ve PCBs PQL is reflective of the lowest individual PQL and is therefore" Total +ve PCBs" is simply a sum of the positive individual PCBs.  |
| Org-022     | Determination of VOCs sampled onto coconut shell charcoal sorbent tubes, that can be desorbed using carbon disulphide, and analysed by GC-MS.  |
| Org-022/025 | Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS.   |
| Org-022/025 | Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-MS/GC-MSMS.   |
|             | Note, the Total +ve reported DDD+DDE+DDT PQL is reflective of the lowest individual PQL and is therefore simply a sum of the positive individually report DDD+DDE+DDT.   |
| Org-022/025 | Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS and/or GC-MS/MS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013. For soil results:-  1. 'EQ PQL'values are assuming all contributing PAHs reported as <pql "total="" 'eq="" +ve="" 2.="" 3.="" <pql="" a="" above.="" actually="" all="" and="" approach="" approaches="" are="" as="" assuming="" at="" be="" below="" between="" but="" calculation="" can="" conservative="" contribute="" contributing="" false="" give="" given="" half="" hence="" individual="" is="" least="" lowest="" may="" mid-point="" more="" most="" negative="" not="" note,="" of="" pahs="" pahs"="" pahs.<="" positive="" pql="" pql'values="" pql.="" present="" present.="" reflective="" reported="" simply="" stipulated="" sum="" susceptible="" td="" teq="" teqs="" that="" the="" therefore="" this="" to="" total="" when="" zero'values="" zero.=""></pql> |
| Org-023     | Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.   |
| Org-023     | Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.  |
| Org-023     | Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.  Note, the Total +ve Xylene PQL is reflective of the lowest individual PQL and is therefore "Total +ve Xylenes" is simply a sum of the positive individual Xylenes.  |

| QUALITY CONT                         |       | Duplicate |         |            |   |            | Spike Recovery % |     |            |            |
|--------------------------------------|-------|-----------|---------|------------|---|------------|------------------|-----|------------|------------|
| Test Description                     | Units | PQL       | Method  | Blank      | # | Base       | Dup.             | RPD | LCS-13     | 297823-5   |
| Date extracted                       | -     |           |         | 15/06/2022 | 1 | 15/06/2022 | 15/06/2022       |     | 15/06/2022 | 15/06/2022 |
| Date analysed                        | -     |           |         | 18/06/2022 | 1 | 18/06/2022 | 18/06/2022       |     | 18/06/2022 | 18/06/2022 |
| TRH C <sub>6</sub> - C <sub>9</sub>  | mg/kg | 25        | Org-023 | <25        | 1 | <25        | <25              | 0   | 99         | 97         |
| TRH C <sub>6</sub> - C <sub>10</sub> | mg/kg | 25        | Org-023 | <25        | 1 | <25        | <25              | 0   | 99         | 97         |
| Benzene                              | mg/kg | 0.2       | Org-023 | <0.2       | 1 | <0.2       | <0.2             | 0   | 113        | 108        |
| Toluene                              | mg/kg | 0.5       | Org-023 | <0.5       | 1 | <0.5       | <0.5             | 0   | 104        | 101        |
| Ethylbenzene                         | mg/kg | 1         | Org-023 | <1         | 1 | <1         | <1               | 0   | 94         | 92         |
| m+p-xylene                           | mg/kg | 2         | Org-023 | <2         | 1 | <2         | <2               | 0   | 93         | 91         |
| o-Xylene                             | mg/kg | 1         | Org-023 | <1         | 1 | <1         | <1               | 0   | 114        | 112        |
| Naphthalene                          | mg/kg | 1         | Org-023 | <1         | 1 | <1         | <1               | 0   | [NT]       | [NT]       |
| Surrogate aaa-Trifluorotoluene       | %     |           | Org-023 | 114        | 1 | 94         | 97               | 3   | 111        | 105        |

| QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil |  |  |  |   |   | Duplicate  |   |   |  |  |
|---|--|--|--|---|---|--|---|---|--|--|
| Units                                       | PQL  | Method   | Blank  | #   | Base  | Dup.   | RPD   | [NT]  | [NT]   |  |
| -   |  |  | [NT]   | 34  | 15/06/2022  | 15/06/2022   |   |   | [NT]   |  |
| -   |  |  | [NT]   | 34  | 18/06/2022  | 18/06/2022   |   |   | [NT]   |  |
| mg/kg                                       | 25   | Org-023  | [NT]   | 34  | <25   | <25  | 0   |   | [NT]   |  |
| mg/kg                                       | 25   | Org-023  | [NT]   | 34  | <25   | <25  | 0   |   | [NT]   |  |
| mg/kg                                       | 0.2  | Org-023  | [NT]   | 34  | <0.2  | <0.2   | 0   |   | [NT]   |  |
| mg/kg                                       | 0.5  | Org-023  | [NT]   | 34  | <0.5  | <0.5   | 0   |   | [NT]   |  |
| mg/kg                                       | 1  | Org-023  | [NT]   | 34  | <1  | <1   | 0   |   | [NT]   |  |
| mg/kg                                       | 2  | Org-023  | [NT]   | 34  | <2  | <2   | 0   |   | [NT]   |  |
| mg/kg                                       | 1  | Org-023  | [NT]   | 34  | <1  | <1   | 0   |   | [NT]   |  |
| mg/kg                                       | 1  | Org-023  | [NT]   | 34  | <1  | <1   | 0   |   | [NT]   |  |
| %   |  | Org-023  | [NT]   | 34  | 90  | 97   | 7   |   | [NT]   |  |
|   | Units  - mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg | Units PQL  mg/kg 25 mg/kg 25 mg/kg 0.2 mg/kg 0.5 mg/kg 1 mg/kg 2 mg/kg 1 mg/kg 1 mg/kg 1 | Units         PQL         Method           -         -           mg/kg         25         Org-023           mg/kg         25         Org-023           mg/kg         0.2         Org-023           mg/kg         0.5         Org-023           mg/kg         1         Org-023           mg/kg         2         Org-023           mg/kg         1         Org-023           mg/kg         1         Org-023           mg/kg         1         Org-023 | Units         PQL         Method         Blank           -         [NT]           -         [NT]           mg/kg         25         Org-023         [NT]           mg/kg         0.2         Org-023         [NT]           mg/kg         0.5         Org-023         [NT]           mg/kg         1         Org-023         [NT]           mg/kg         2         Org-023         [NT]           mg/kg         1         Org-023         [NT]           mg/kg         1         Org-023         [NT]           mg/kg         1         Org-023         [NT] | Units         PQL         Method         Blank         #           -         [NT]         34           -         [NT]         34           mg/kg         25         Org-023         [NT]         34           mg/kg         0.2         Org-023         [NT]         34           mg/kg         0.5         Org-023         [NT]         34           mg/kg         1         Org-023         [NT]         34           mg/kg         2         Org-023         [NT]         34           mg/kg         1         Org-023         [NT]         34           mg/kg         1         Org-023         [NT]         34           mg/kg         1         Org-023         [NT]         34 | Units         PQL         Method         Blank         #         Base           -         [NT]         34         15/06/2022           -         [NT]         34         18/06/2022           mg/kg         25         Org-023         [NT]         34         <25 | Units         PQL         Method         Blank         #         Base         Dup.           -         [NT]         34         15/06/2022         15/06/2022           -         [NT]         34         18/06/2022         18/06/2022           mg/kg         25         Org-023         [NT]         34         <25 | Units         PQL         Method         Blank         #         Base         Dup.         RPD           -         [NT]         34         15/06/2022         15/06/2022         -           -         [NT]         34         18/06/2022         18/06/2022         -           mg/kg         25         Org-023         [NT]         34         <25 | Units         PQL         Method         Blank         #         Base         Dup.         RPD         [NT]           -         [NT]         34         15/06/2022         15/06/2022         [NT]           -         [NT]         34         18/06/2022         18/06/2022         [NT]           mg/kg         25         Org-023         [NT]         34         <25 |  |

| QUALITY CO                            | QUALITY CONTROL: svTRH (C10-C40) in Soil |     |         |            |   |            |            |     | Spike Re   | Spike Recovery % |  |
|---------------------------------------|--|-----|---------|------------|---|------------|------------|-----|------------|------------------|--|
| Test Description                      | Units                                    | PQL | Method  | Blank      | # | Base       | Dup.       | RPD | LCS-13     | 297823-5         |  |
| Date extracted                        | -  |     |         | 15/06/2022 | 1 | 15/06/2022 | 15/06/2022 |     | 15/06/2022 | 15/06/2022       |  |
| Date analysed                         | -  |     |         | 18/06/2022 | 1 | 18/06/2022 | 18/06/2022 |     | 18/06/2022 | 18/06/2022       |  |
| TRH C <sub>10</sub> - C <sub>14</sub> | mg/kg                                    | 50  | Org-020 | <50        | 1 | <50        | <50        | 0   | 129        | 129              |  |
| TRH C <sub>15</sub> - C <sub>28</sub> | mg/kg                                    | 100 | Org-020 | <100       | 1 | <100       | <100       | 0   | 97         | 98               |  |
| TRH C <sub>29</sub> - C <sub>36</sub> | mg/kg                                    | 100 | Org-020 | <100       | 1 | <100       | <100       | 0   | 100        | 98               |  |
| TRH >C <sub>10</sub> -C <sub>16</sub> | mg/kg                                    | 50  | Org-020 | <50        | 1 | <50        | <50        | 0   | 129        | 129              |  |
| TRH >C <sub>16</sub> -C <sub>34</sub> | mg/kg                                    | 100 | Org-020 | <100       | 1 | 100        | 130        | 26  | 97         | 98               |  |
| TRH >C <sub>34</sub> -C <sub>40</sub> | mg/kg                                    | 100 | Org-020 | <100       | 1 | <100       | <100       | 0   | 100        | 98               |  |
| Surrogate o-Terphenyl                 | %  |     | Org-020 | 84         | 1 | 91         | 90         | 1   | 128        | 129              |  |

| QUALITY CO                            | QUALITY CONTROL: svTRH (C10-C40) in Soil |     |         |       |    |            |            |     | Spike Recovery % |      |
|---------------------------------------|--|-----|---------|-------|----|------------|------------|-----|------------------|------|
| Test Description                      | Units                                    | PQL | Method  | Blank | #  | Base       | Dup.       | RPD | [NT]             | [NT] |
| Date extracted                        | -  |     |         | [NT]  | 34 | 15/06/2022 | 15/06/2022 |     | [NT]             |      |
| Date analysed                         | -  |     |         | [NT]  | 34 | 18/06/2022 | 18/06/2022 |     | [NT]             |      |
| TRH C <sub>10</sub> - C <sub>14</sub> | mg/kg                                    | 50  | Org-020 | [NT]  | 34 | <50        | <50        | 0   | [NT]             |      |
| TRH C <sub>15</sub> - C <sub>28</sub> | mg/kg                                    | 100 | Org-020 | [NT]  | 34 | <100       | <100       | 0   | [NT]             |      |
| TRH C <sub>29</sub> - C <sub>36</sub> | mg/kg                                    | 100 | Org-020 | [NT]  | 34 | <100       | <100       | 0   | [NT]             |      |
| TRH >C <sub>10</sub> -C <sub>16</sub> | mg/kg                                    | 50  | Org-020 | [NT]  | 34 | <50        | <50        | 0   | [NT]             |      |
| TRH >C <sub>16</sub> -C <sub>34</sub> | mg/kg                                    | 100 | Org-020 | [NT]  | 34 | <100       | <100       | 0   | [NT]             |      |
| TRH >C <sub>34</sub> -C <sub>40</sub> | mg/kg                                    | 100 | Org-020 | [NT]  | 34 | <100       | <100       | 0   | [NT]             |      |
| Surrogate o-Terphenyl                 | %  |     | Org-020 | [NT]  | 34 | 88         | 88         | 0   | [NT]             |      |

| QUALITY CONTROL: PAHs in Soil |       |      |             |            |   | Du         | plicate    | Spike Recovery % |            |            |  |
|-------------------------------|-------|------|-------------|------------|---|------------|------------|------------------|------------|------------|--|
| Test Description              | Units | PQL  | Method      | Blank      | # | Base       | Dup.       | RPD              | LCS-13     | 297823-5   |  |
| Date extracted                | -     |      |             | 15/06/2022 | 1 | 15/06/2022 | 15/06/2022 |                  | 15/06/2022 | 15/06/2022 |  |
| Date analysed                 | -     |      |             | 17/06/2022 | 1 | 17/06/2022 | 17/06/2022 |                  | 17/06/2022 | 17/06/2022 |  |
| Naphthalene                   | mg/kg | 0.1  | Org-022/025 | <0.1       | 1 | <0.1       | <0.1       | 0                | 113        | 113        |  |
| Acenaphthylene                | mg/kg | 0.1  | Org-022/025 | <0.1       | 1 | <0.1       | <0.1       | 0                | [NT]       | [NT]       |  |
| Acenaphthene                  | mg/kg | 0.1  | Org-022/025 | <0.1       | 1 | <0.1       | <0.1       | 0                | 111        | 111        |  |
| Fluorene                      | mg/kg | 0.1  | Org-022/025 | <0.1       | 1 | <0.1       | <0.1       | 0                | 114        | 114        |  |
| Phenanthrene                  | mg/kg | 0.1  | Org-022/025 | <0.1       | 1 | <0.1       | <0.1       | 0                | 124        | 120        |  |
| Anthracene                    | mg/kg | 0.1  | Org-022/025 | <0.1       | 1 | <0.1       | <0.1       | 0                | [NT]       | [NT]       |  |
| Fluoranthene                  | mg/kg | 0.1  | Org-022/025 | <0.1       | 1 | <0.1       | <0.1       | 0                | 123        | 120        |  |
| Pyrene                        | mg/kg | 0.1  | Org-022/025 | <0.1       | 1 | <0.1       | <0.1       | 0                | 129        | 129        |  |
| Benzo(a)anthracene            | mg/kg | 0.1  | Org-022/025 | <0.1       | 1 | <0.1       | <0.1       | 0                | [NT]       | [NT]       |  |
| Chrysene                      | mg/kg | 0.1  | Org-022/025 | <0.1       | 1 | <0.1       | <0.1       | 0                | 101        | 95         |  |
| Benzo(b,j+k)fluoranthene      | mg/kg | 0.2  | Org-022/025 | <0.2       | 1 | <0.2       | <0.2       | 0                | [NT]       | [NT]       |  |
| Benzo(a)pyrene                | mg/kg | 0.05 | Org-022/025 | <0.05      | 1 | <0.05      | <0.05      | 0                | 112        | 116        |  |
| Indeno(1,2,3-c,d)pyrene       | mg/kg | 0.1  | Org-022/025 | <0.1       | 1 | <0.1       | <0.1       | 0                | [NT]       | [NT]       |  |
| Dibenzo(a,h)anthracene        | mg/kg | 0.1  | Org-022/025 | <0.1       | 1 | <0.1       | <0.1       | 0                | [NT]       | [NT]       |  |
| Benzo(g,h,i)perylene          | mg/kg | 0.1  | Org-022/025 | <0.1       | 1 | <0.1       | <0.1       | 0                | [NT]       | [NT]       |  |
| Surrogate p-Terphenyl-d14     | %     |      | Org-022/025 | 108        | 1 | 116        | 112        | 4                | 139        | 140        |  |

| QUALITY CONTROL: PAHs in Soil |       |      |             |       |    | Du         |            | Spike Recovery % |      |      |
|-------------------------------|-------|------|-------------|-------|----|------------|------------|------------------|------|------|
| Test Description              | Units | PQL  | Method      | Blank | #  | Base       | Dup.       | RPD              | [NT] | [NT] |
| Date extracted                | -     |      |             | [NT]  | 34 | 15/06/2022 | 15/06/2022 |                  |      | [NT] |
| Date analysed                 | -     |      |             | [NT]  | 34 | 17/06/2022 | 17/06/2022 |                  |      | [NT] |
| Naphthalene                   | mg/kg | 0.1  | Org-022/025 | [NT]  | 34 | <0.1       | <0.1       | 0                |      | [NT] |
| Acenaphthylene                | mg/kg | 0.1  | Org-022/025 | [NT]  | 34 | <0.1       | <0.1       | 0                |      | [NT] |
| Acenaphthene                  | mg/kg | 0.1  | Org-022/025 | [NT]  | 34 | <0.1       | <0.1       | 0                |      | [NT] |
| Fluorene                      | mg/kg | 0.1  | Org-022/025 | [NT]  | 34 | <0.1       | <0.1       | 0                |      | [NT] |
| Phenanthrene                  | mg/kg | 0.1  | Org-022/025 | [NT]  | 34 | <0.1       | <0.1       | 0                |      | [NT] |
| Anthracene                    | mg/kg | 0.1  | Org-022/025 | [NT]  | 34 | <0.1       | <0.1       | 0                |      | [NT] |
| Fluoranthene                  | mg/kg | 0.1  | Org-022/025 | [NT]  | 34 | <0.1       | <0.1       | 0                |      | [NT] |
| Pyrene                        | mg/kg | 0.1  | Org-022/025 | [NT]  | 34 | <0.1       | <0.1       | 0                |      | [NT] |
| Benzo(a)anthracene            | mg/kg | 0.1  | Org-022/025 | [NT]  | 34 | <0.1       | <0.1       | 0                |      | [NT] |
| Chrysene                      | mg/kg | 0.1  | Org-022/025 | [NT]  | 34 | <0.1       | <0.1       | 0                |      | [NT] |
| Benzo(b,j+k)fluoranthene      | mg/kg | 0.2  | Org-022/025 | [NT]  | 34 | <0.2       | <0.2       | 0                |      | [NT] |
| Benzo(a)pyrene                | mg/kg | 0.05 | Org-022/025 | [NT]  | 34 | <0.05      | <0.05      | 0                |      | [NT] |
| Indeno(1,2,3-c,d)pyrene       | mg/kg | 0.1  | Org-022/025 | [NT]  | 34 | <0.1       | <0.1       | 0                |      | [NT] |
| Dibenzo(a,h)anthracene        | mg/kg | 0.1  | Org-022/025 | [NT]  | 34 | <0.1       | <0.1       | 0                |      | [NT] |
| Benzo(g,h,i)perylene          | mg/kg | 0.1  | Org-022/025 | [NT]  | 34 | <0.1       | <0.1       | 0                |      | [NT] |
| Surrogate p-Terphenyl-d14     | %     |      | Org-022/025 | [NT]  | 34 | 108        | 109        | 1                |      | [NT] |

| QUALITY CONTROL: Organochlorine Pesticides in soil |       |     |             |            |   | Duplicate  |            |     | Spike Recovery % |            |  |
|--|-------|-----|-------------|------------|---|------------|------------|-----|------------------|------------|--|
| Test Description                                   | Units | PQL | Method      | Blank      | # | Base       | Dup.       | RPD | LCS-13           | 297823-5   |  |
| Date extracted                                     | -     |     |             | 15/06/2022 | 1 | 15/06/2022 | 15/06/2022 |     | 15/06/2022       | 15/06/2022 |  |
| Date analysed                                      | -     |     |             | 17/06/2022 | 1 | 17/06/2022 | 17/06/2022 |     | 17/06/2022       | 17/06/2022 |  |
| alpha-BHC  | mg/kg | 0.1 | Org-022/025 | <0.1       | 1 | <0.1       | <0.1       | 0   | 108              | 108        |  |
| НСВ  | mg/kg | 0.1 | Org-022/025 | <0.1       | 1 | <0.1       | <0.1       | 0   | [NT]             | [NT]       |  |
| beta-BHC   | mg/kg | 0.1 | Org-022/025 | <0.1       | 1 | <0.1       | <0.1       | 0   | 121              | 114        |  |
| gamma-BHC  | mg/kg | 0.1 | Org-022/025 | <0.1       | 1 | <0.1       | <0.1       | 0   | [NT]             | [NT]       |  |
| Heptachlor   | mg/kg | 0.1 | Org-022/025 | <0.1       | 1 | <0.1       | <0.1       | 0   | 109              | 111        |  |
| delta-BHC  | mg/kg | 0.1 | Org-022/025 | <0.1       | 1 | <0.1       | <0.1       | 0   | [NT]             | [NT]       |  |
| Aldrin   | mg/kg | 0.1 | Org-022/025 | <0.1       | 1 | <0.1       | <0.1       | 0   | 116              | 120        |  |
| Heptachlor Epoxide                                 | mg/kg | 0.1 | Org-022/025 | <0.1       | 1 | <0.1       | <0.1       | 0   | 108              | 111        |  |
| gamma-Chlordane                                    | mg/kg | 0.1 | Org-022/025 | <0.1       | 1 | <0.1       | <0.1       | 0   | [NT]             | [NT]       |  |
| alpha-chlordane                                    | mg/kg | 0.1 | Org-022/025 | <0.1       | 1 | <0.1       | <0.1       | 0   | [NT]             | [NT]       |  |
| Endosulfan I                                       | mg/kg | 0.1 | Org-022/025 | <0.1       | 1 | <0.1       | <0.1       | 0   | [NT]             | [NT]       |  |
| pp-DDE   | mg/kg | 0.1 | Org-022/025 | <0.1       | 1 | <0.1       | <0.1       | 0   | 117              | 117        |  |
| Dieldrin   | mg/kg | 0.1 | Org-022/025 | <0.1       | 1 | 1.1        | 1.1        | 0   | 122              | 120        |  |
| Endrin   | mg/kg | 0.1 | Org-022/025 | <0.1       | 1 | <0.1       | <0.1       | 0   | 107              | 114        |  |
| Endosulfan II                                      | mg/kg | 0.1 | Org-022/025 | <0.1       | 1 | <0.1       | <0.1       | 0   | [NT]             | [NT]       |  |
| pp-DDD   | mg/kg | 0.1 | Org-022/025 | <0.1       | 1 | <0.1       | <0.1       | 0   | 108              | 114        |  |
| Endrin Aldehyde                                    | mg/kg | 0.1 | Org-022/025 | <0.1       | 1 | <0.1       | <0.1       | 0   | [NT]             | [NT]       |  |
| pp-DDT   | mg/kg | 0.1 | Org-022/025 | <0.1       | 1 | <0.1       | <0.1       | 0   | [NT]             | [NT]       |  |
| Endosulfan Sulphate                                | mg/kg | 0.1 | Org-022/025 | <0.1       | 1 | <0.1       | <0.1       | 0   | 106              | 99         |  |
| Methoxychlor                                       | mg/kg | 0.1 | Org-022/025 | <0.1       | 1 | <0.1       | <0.1       | 0   | [NT]             | [NT]       |  |
| Surrogate TCMX                                     | %     |     | Org-022/025 | 99         | 1 | 106        | 100        | 6   | 130              | 136        |  |

| QUALITY C           | ONTROL: Organo | chlorine F | Pesticides in soil |       |    | Du         | plicate    | Spike Recovery % |      |      |
|---------------------|----------------|------------|--------------------|-------|----|------------|------------|------------------|------|------|
| Test Description    | Units          | PQL        | Method             | Blank | #  | Base       | Dup.       | RPD              | [NT] | [NT] |
| Date extracted      | -              |            |                    | [NT]  | 34 | 15/06/2022 | 15/06/2022 |                  |      | [NT] |
| Date analysed       | -              |            |                    | [NT]  | 34 | 17/06/2022 | 17/06/2022 |                  |      | [NT] |
| alpha-BHC           | mg/kg          | 0.1        | Org-022/025        | [NT]  | 34 | <0.1       | <0.1       | 0                |      | [NT] |
| HCB                 | mg/kg          | 0.1        | Org-022/025        | [NT]  | 34 | <0.1       | <0.1       | 0                |      | [NT] |
| beta-BHC            | mg/kg          | 0.1        | Org-022/025        | [NT]  | 34 | <0.1       | <0.1       | 0                |      | [NT] |
| gamma-BHC           | mg/kg          | 0.1        | Org-022/025        | [NT]  | 34 | <0.1       | <0.1       | 0                |      | [NT] |
| Heptachlor          | mg/kg          | 0.1        | Org-022/025        | [NT]  | 34 | <0.1       | <0.1       | 0                |      | [NT] |
| delta-BHC           | mg/kg          | 0.1        | Org-022/025        | [NT]  | 34 | <0.1       | <0.1       | 0                |      | [NT] |
| Aldrin              | mg/kg          | 0.1        | Org-022/025        | [NT]  | 34 | <0.1       | <0.1       | 0                |      | [NT] |
| Heptachlor Epoxide  | mg/kg          | 0.1        | Org-022/025        | [NT]  | 34 | <0.1       | <0.1       | 0                |      | [NT] |
| gamma-Chlordane     | mg/kg          | 0.1        | Org-022/025        | [NT]  | 34 | <0.1       | <0.1       | 0                |      | [NT] |
| alpha-chlordane     | mg/kg          | 0.1        | Org-022/025        | [NT]  | 34 | <0.1       | <0.1       | 0                |      | [NT] |
| Endosulfan I        | mg/kg          | 0.1        | Org-022/025        | [NT]  | 34 | <0.1       | <0.1       | 0                |      | [NT] |
| pp-DDE              | mg/kg          | 0.1        | Org-022/025        | [NT]  | 34 | <0.1       | <0.1       | 0                |      | [NT] |
| Dieldrin            | mg/kg          | 0.1        | Org-022/025        | [NT]  | 34 | <0.1       | <0.1       | 0                |      | [NT] |
| Endrin              | mg/kg          | 0.1        | Org-022/025        | [NT]  | 34 | <0.1       | <0.1       | 0                |      | [NT] |
| Endosulfan II       | mg/kg          | 0.1        | Org-022/025        | [NT]  | 34 | <0.1       | <0.1       | 0                |      | [NT] |
| pp-DDD              | mg/kg          | 0.1        | Org-022/025        | [NT]  | 34 | <0.1       | <0.1       | 0                |      | [NT] |
| Endrin Aldehyde     | mg/kg          | 0.1        | Org-022/025        | [NT]  | 34 | <0.1       | <0.1       | 0                |      | [NT] |
| pp-DDT              | mg/kg          | 0.1        | Org-022/025        | [NT]  | 34 | <0.1       | <0.1       | 0                |      | [NT] |
| Endosulfan Sulphate | mg/kg          | 0.1        | Org-022/025        | [NT]  | 34 | <0.1       | <0.1       | 0                |      | [NT] |
| Methoxychlor        | mg/kg          | 0.1        | Org-022/025        | [NT]  | 34 | <0.1       | <0.1       | 0                |      | [NT] |
| Surrogate TCMX      | %              |            | Org-022/025        | [NT]  | 34 | 97         | 101        | 4                |      | [NT] |

| QUALITY CONTRO            | L: Organoph | Pesticides in Soil |             |            | Du | plicate    | Spike Recovery % |     |            |            |
|---------------------------|-------------|--------------------|-------------|------------|----|------------|------------------|-----|------------|------------|
| Test Description          | Units       | PQL                | Method      | Blank      | #  | Base       | Dup.             | RPD | LCS-13     | 297823-5   |
| Date extracted            | -           |                    |             | 15/06/2022 | 1  | 15/06/2022 | 15/06/2022       |     | 15/06/2022 | 15/06/2022 |
| Date analysed             | -           |                    |             | 17/06/2022 | 1  | 17/06/2022 | 17/06/2022       |     | 17/06/2022 | 17/06/2022 |
| Dichlorvos                | mg/kg       | 0.1                | Org-022/025 | <0.1       | 1  | <0.1       | <0.1             | 0   | 93         | 95         |
| Dimethoate                | mg/kg       | 0.1                | Org-022/025 | <0.1       | 1  | <0.1       | <0.1             | 0   | [NT]       |            |
| Diazinon                  | mg/kg       | 0.1                | Org-022/025 | <0.1       | 1  | <0.1       | <0.1             | 0   | [NT]       |            |
| Chlorpyriphos-methyl      | mg/kg       | 0.1                | Org-022/025 | <0.1       | 1  | <0.1       | <0.1             | 0   | [NT]       |            |
| Ronnel                    | mg/kg       | 0.1                | Org-022/025 | <0.1       | 1  | <0.1       | <0.1             | 0   | 104        | 107        |
| Fenitrothion              | mg/kg       | 0.1                | Org-022/025 | <0.1       | 1  | <0.1       | <0.1             | 0   | 107        | 113        |
| Malathion                 | mg/kg       | 0.1                | Org-022/025 | <0.1       | 1  | <0.1       | <0.1             | 0   | 100        | 103        |
| Chlorpyriphos             | mg/kg       | 0.1                | Org-022/025 | <0.1       | 1  | <0.1       | <0.1             | 0   | 118        | 122        |
| Parathion                 | mg/kg       | 0.1                | Org-022/025 | <0.1       | 1  | <0.1       | <0.1             | 0   | 101        | 105        |
| Bromophos-ethyl           | mg/kg       | 0.1                | Org-022     | <0.1       | 1  | <0.1       | <0.1             | 0   | [NT]       |            |
| Ethion                    | mg/kg       | 0.1                | Org-022/025 | <0.1       | 1  | <0.1       | <0.1             | 0   | 111        | 121        |
| Azinphos-methyl (Guthion) | mg/kg       | 0.1                | Org-022/025 | <0.1       | 1  | <0.1       | <0.1             | 0   | [NT]       |            |
| Surrogate TCMX            | %           |                    | Org-022/025 | 99         | 1  | 106        | 100              | 6   | 130        | 136        |

| QUALITY CONTRO            | L: Organoph | osphorus | s Pesticides in Soil |       |    | Du         | plicate    |     | Spike Recovery % |      |  |
|---------------------------|-------------|----------|----------------------|-------|----|------------|------------|-----|------------------|------|--|
| Test Description          | Units       | PQL      | Method               | Blank | #  | Base       | Dup.       | RPD | [NT]             | [NT] |  |
| Date extracted            | -           |          |                      | [NT]  | 34 | 15/06/2022 | 15/06/2022 |     |                  | [NT] |  |
| Date analysed             | -           |          |                      | [NT]  | 34 | 17/06/2022 | 17/06/2022 |     |                  | [NT] |  |
| Dichlorvos                | mg/kg       | 0.1      | Org-022/025          | [NT]  | 34 | <0.1       | <0.1       | 0   |                  | [NT] |  |
| Dimethoate                | mg/kg       | 0.1      | Org-022/025          | [NT]  | 34 | <0.1       | <0.1       | 0   |                  | [NT] |  |
| Diazinon                  | mg/kg       | 0.1      | Org-022/025          | [NT]  | 34 | <0.1       | <0.1       | 0   |                  | [NT] |  |
| Chlorpyriphos-methyl      | mg/kg       | 0.1      | Org-022/025          | [NT]  | 34 | <0.1       | <0.1       | 0   |                  | [NT] |  |
| Ronnel                    | mg/kg       | 0.1      | Org-022/025          | [NT]  | 34 | <0.1       | <0.1       | 0   |                  | [NT] |  |
| Fenitrothion              | mg/kg       | 0.1      | Org-022/025          | [NT]  | 34 | <0.1       | <0.1       | 0   |                  | [NT] |  |
| Malathion                 | mg/kg       | 0.1      | Org-022/025          | [NT]  | 34 | <0.1       | <0.1       | 0   |                  | [NT] |  |
| Chlorpyriphos             | mg/kg       | 0.1      | Org-022/025          | [NT]  | 34 | <0.1       | <0.1       | 0   |                  | [NT] |  |
| Parathion                 | mg/kg       | 0.1      | Org-022/025          | [NT]  | 34 | <0.1       | <0.1       | 0   |                  | [NT] |  |
| Bromophos-ethyl           | mg/kg       | 0.1      | Org-022              | [NT]  | 34 | <0.1       | <0.1       | 0   |                  | [NT] |  |
| Ethion                    | mg/kg       | 0.1      | Org-022/025          | [NT]  | 34 | <0.1       | <0.1       | 0   |                  | [NT] |  |
| Azinphos-methyl (Guthion) | mg/kg       | 0.1      | Org-022/025          | [NT]  | 34 | <0.1       | <0.1       | 0   |                  | [NT] |  |
| Surrogate TCMX            | %           |          | Org-022/025          | [NT]  | 34 | 97         | 101        | 4   |                  | [NT] |  |

| QUALIT           | Y CONTRO | L: PCBs | in Soil |            |   | Du         | plicate    |     | Spike Recovery % |            |
|------------------|----------|---------|---------|------------|---|------------|------------|-----|------------------|------------|
| Test Description | Units    | PQL     | Method  | Blank      | # | Base       | Dup.       | RPD | LCS-13           | 297823-5   |
| Date extracted   | -        |         |         | 15/06/2022 | 1 | 15/06/2022 | 15/06/2022 |     | 15/06/2022       | 15/06/2022 |
| Date analysed    | -        |         |         | 17/06/2022 | 1 | 17/06/2022 | 17/06/2022 |     | 17/06/2022       | 17/06/2022 |
| Aroclor 1016     | mg/kg    | 0.1     | Org-021 | <0.1       | 1 | <0.1       | <0.1       | 0   | [NT]             | [NT]       |
| Aroclor 1221     | mg/kg    | 0.1     | Org-021 | <0.1       | 1 | <0.1       | <0.1       | 0   | [NT]             | [NT]       |
| Aroclor 1232     | mg/kg    | 0.1     | Org-021 | <0.1       | 1 | <0.1       | <0.1       | 0   | [NT]             | [NT]       |
| Aroclor 1242     | mg/kg    | 0.1     | Org-021 | <0.1       | 1 | <0.1       | <0.1       | 0   | [NT]             | [NT]       |
| Aroclor 1248     | mg/kg    | 0.1     | Org-021 | <0.1       | 1 | <0.1       | <0.1       | 0   | [NT]             | [NT]       |
| Aroclor 1254     | mg/kg    | 0.1     | Org-021 | <0.1       | 1 | <0.1       | <0.1       | 0   | 114              | 100        |
| Aroclor 1260     | mg/kg    | 0.1     | Org-021 | <0.1       | 1 | <0.1       | <0.1       | 0   | [NT]             | [NT]       |
| Surrogate TCMX   | %        |         | Org-021 | 99         | 1 | 106        | 100        | 6   | 130              | 136        |

| QUALIT           | Y CONTRO | L: PCBs | in Soil |       |    | Du         |            | Spike Recovery % |      |      |
|------------------|----------|---------|---------|-------|----|------------|------------|------------------|------|------|
| Test Description | Units    | PQL     | Method  | Blank | #  | Base       | Dup.       | RPD              | [NT] | [NT] |
| Date extracted   | -        |         |         | [NT]  | 34 | 15/06/2022 | 15/06/2022 |                  |      | [NT] |
| Date analysed    | -        |         |         | [NT]  | 34 | 17/06/2022 | 17/06/2022 |                  |      | [NT] |
| Aroclor 1016     | mg/kg    | 0.1     | Org-021 | [NT]  | 34 | <0.1       | <0.1       | 0                |      | [NT] |
| Aroclor 1221     | mg/kg    | 0.1     | Org-021 | [NT]  | 34 | <0.1       | <0.1       | 0                |      | [NT] |
| Aroclor 1232     | mg/kg    | 0.1     | Org-021 | [NT]  | 34 | <0.1       | <0.1       | 0                |      | [NT] |
| Aroclor 1242     | mg/kg    | 0.1     | Org-021 | [NT]  | 34 | <0.1       | <0.1       | 0                |      | [NT] |
| Aroclor 1248     | mg/kg    | 0.1     | Org-021 | [NT]  | 34 | <0.1       | <0.1       | 0                |      | [NT] |
| Aroclor 1254     | mg/kg    | 0.1     | Org-021 | [NT]  | 34 | <0.1       | <0.1       | 0                |      | [NT] |
| Aroclor 1260     | mg/kg    | 0.1     | Org-021 | [NT]  | 34 | <0.1       | <0.1       | 0                |      | [NT] |
| Surrogate TCMX   | %        |         | Org-021 | [NT]  | 34 | 97         | 101        | 4                |      | [NT] |

| QUALITY CONT     | ROL: Acid E | xtractable | e metals in soil |            |   | Du         | plicate    |     | Spike Recovery % |            |
|------------------|-------------|------------|------------------|------------|---|------------|------------|-----|------------------|------------|
| Test Description | Units       | PQL        | Method           | Blank      | # | Base       | Dup.       | RPD | LCS-13           | 297823-5   |
| Date prepared    | -           |            |                  | 15/06/2022 | 1 | 15/06/2022 | 15/06/2022 |     | 15/06/2022       | 15/06/2022 |
| Date analysed    | -           |            |                  | 16/06/2022 | 1 | 16/06/2022 | 16/06/2022 |     | 16/06/2022       | 16/06/2022 |
| Arsenic          | mg/kg       | 4          | Metals-020       | <4         | 1 | <4         | <4         | 0   | 100              | 83         |
| Cadmium          | mg/kg       | 0.4        | Metals-020       | <0.4       | 1 | <0.4       | <0.4       | 0   | 100              | 82         |
| Chromium         | mg/kg       | 1          | Metals-020       | <1         | 1 | 25         | 23         | 8   | 103              | 97         |
| Copper           | mg/kg       | 1          | Metals-020       | <1         | 1 | 25         | 20         | 22  | 101              | 105        |
| Lead             | mg/kg       | 1          | Metals-020       | <1         | 1 | 22         | 20         | 10  | 100              | 84         |
| Mercury          | mg/kg       | 0.1        | Metals-021       | <0.1       | 1 | <0.1       | <0.1       | 0   | 115              | 117        |
| Nickel           | mg/kg       | 1          | Metals-020       | <1         | 1 | 29         | 26         | 11  | 101              | 91         |
| Zinc             | mg/kg       | 1          | Metals-020       | <1         | 1 | 78         | 66         | 17  | 106              | 88         |

| QUALITY CONT     | QUALITY CONTROL: Acid Extractable metals in soil |     |            |       |    |            |            |     | Spike Recovery % |      |
|------------------|--|-----|------------|-------|----|------------|------------|-----|------------------|------|
| Test Description | Units  | PQL | Method     | Blank | #  | Base       | Dup.       | RPD | [NT]             | [NT] |
| Date prepared    | -  |     |            | [NT]  | 34 | 15/06/2022 | 15/06/2022 |     |                  | [NT] |
| Date analysed    | -  |     |            | [NT]  | 34 | 16/06/2022 | 16/06/2022 |     |                  | [NT] |
| Arsenic          | mg/kg  | 4   | Metals-020 | [NT]  | 34 | <4         | <4         | 0   |                  | [NT] |
| Cadmium          | mg/kg  | 0.4 | Metals-020 | [NT]  | 34 | <0.4       | <0.4       | 0   |                  | [NT] |
| Chromium         | mg/kg  | 1   | Metals-020 | [NT]  | 34 | 27         | 28         | 4   |                  | [NT] |
| Copper           | mg/kg  | 1   | Metals-020 | [NT]  | 34 | 31         | 32         | 3   |                  | [NT] |
| Lead             | mg/kg  | 1   | Metals-020 | [NT]  | 34 | 35         | 35         | 0   |                  | [NT] |
| Mercury          | mg/kg  | 0.1 | Metals-021 | [NT]  | 34 | 0.1        | 0.2        | 67  |                  | [NT] |
| Nickel           | mg/kg  | 1   | Metals-020 | [NT]  | 34 | 32         | 35         | 9   |                  | [NT] |
| Zinc             | mg/kg  | 1   | Metals-020 | [NT]  | 34 | 71         | 75         | 5   |                  | [NT] |

| QUALIT                         | QUALITY CONTROL: BTEX in Water |     |         |            |      |      |      |      | Spike Recovery % |      |
|--------------------------------|--------------------------------|-----|---------|------------|------|------|------|------|------------------|------|
| Test Description               | Units                          | PQL | Method  | Blank      | #    | Base | Dup. | RPD  | LCS-W1           | [NT] |
| Date extracted                 | -                              |     |         | 16/06/2022 | [NT] |      | [NT] | [NT] | 16/06/2022       |      |
| Date analysed                  | -                              |     |         | 17/06/2022 | [NT] |      | [NT] | [NT] | 17/06/2022       |      |
| Benzene                        | μg/L                           | 1   | Org-023 | <1         | [NT] |      | [NT] | [NT] | 116              |      |
| Toluene                        | μg/L                           | 1   | Org-023 | <1         | [NT] |      | [NT] | [NT] | 111              |      |
| Ethylbenzene                   | μg/L                           | 1   | Org-023 | <1         | [NT] |      | [NT] | [NT] | 116              |      |
| m+p-xylene                     | μg/L                           | 2   | Org-023 | <2         | [NT] |      | [NT] | [NT] | 118              |      |
| o-xylene                       | μg/L                           | 1   | Org-023 | <1         | [NT] |      | [NT] | [NT] | 116              |      |
| Surrogate Dibromofluoromethane | %                              |     | Org-023 | 96         | [NT] |      | [NT] | [NT] | 102              |      |
| Surrogate toluene-d8           | %                              |     | Org-023 | 99         | [NT] |      | [NT] | [NT] | 99               |      |
| Surrogate 4-BFB                | %                              |     | Org-023 | 104        | [NT] |      | [NT] | [NT] | 99               |      |

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

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

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

The recommended maximums for analytes in urine are taken from "2018 TLVs and BEIs", as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016

Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2

#### **Laboratory Acceptance Criteria**

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

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

Spikes for Physical and Aggregate Tests are not applicable.

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

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

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

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

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

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

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# **Report Comments**

Asbestos: A portion of the supplied sample was sub-sampled for asbestos according to ASB-001 asbestos subsampling procedure. We cannot guarantee that this sub-sample is indicative of the entire sample. Envirolab/MPL recommends supplying 40-60g or 500ml of sample in its own container.

Note: Samples 297823-45 was sub-sampled from jar provided by the client.

Asbestos-ID in soil: NEPM

This report is consistent with the reporting recommendations in the National Environment Protection (Assessment of Site Contamination) Measure, Schedule B1, May 2013. This is reported outside our scope of NATA accreditation.

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Envirolab Services Pty Ltd
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12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
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# **SAMPLE RECEIPT ADVICE**

| Client Details |                  |
|----------------|------------------|
| Client         | JK Environments  |
| Attention      | Mitchell Delaney |

| Sample Login Details                 |                     |
|--------------------------------------|---------------------|
| Your reference                       | E35091UPD, Gunnedah |
| Envirolab Reference                  | 297823              |
| Date Sample Received                 | 14/06/2022          |
| Date Instructions Received           | 10/06/2022          |
| Date Results Expected to be Reported | 20/06/2022          |

| Sample Condition                                       |                              |
|--|------------------------------|
| Samples received in appropriate condition for analysis | Yes                          |
| No. of Samples Provided                                | 54 Soil, 1 Material, 1 Water |
| Turnaround Time Requested                              | Standard                     |
| Temperature on Receipt (°C)                            | 10                           |
| Cooling Method   | Ice Pack                     |
| Sampling Date Provided                                 | YES                          |

| Comments |  |
|----------|--|
| Nil      |  |

### Please direct any queries to:

| Aileen Hie                   | Jacinta Hurst                  |  |  |  |  |  |  |  |
|------------------------------|--------------------------------|--|--|--|--|--|--|--|
| Phone: 02 9910 6200          | Phone: 02 9910 6200            |  |  |  |  |  |  |  |
| Fax: 02 9910 6201            | Fax: 02 9910 6201              |  |  |  |  |  |  |  |
| Email: ahie@envirolab.com.au | Email: jhurst@envirolab.com.au |  |  |  |  |  |  |  |

Analysis Underway, details on the following page:



**Envirolab Services Pty Ltd** 

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| Sample ID    | vTRH(C6-C10)/BTEXN in Soil | svTRH (C10-C40) in Soil | PAHs in Soil | Organochlorine Pesticides in soil | Organophosphorus Pesticides in Soil | PCBs in Soil | Acid Extractable metalsin soil | Asbestos ID - soils NEPM - ASB-<br>001 | Asbestos ID - soils | Asbestos ID - materials | BTEX in Water | On Hold |
|--------------|----------------------------|-------------------------|--------------|-----------------------------------|-------------------------------------|--------------|--------------------------------|--|---------------------|-------------------------|---------------|---------|
| BH1-0-0.1    | ✓                          | ✓                       | ✓            | ✓                                 | ✓                                   | ✓            | ✓                              | ✓                                      |                     |                         |               |         |
| BH1-0.2-0.5  |                            |                         |              |                                   |                                     |              |                                |  |                     |                         |               | ✓       |
| BH1-1.0-1.45 | ✓                          | ✓                       |              |                                   |                                     |              |                                |  |                     |                         |               |         |
| BH1-2.0-2.2  |                            |                         |              |                                   |                                     |              |                                |  |                     |                         |               | ✓       |
| BH2-0-0.1    | ✓                          | ✓                       | ✓            | ✓                                 | ✓                                   | ✓            | ✓                              | ✓                                      |                     |                         |               |         |
| BH2-0.5-0.7  |                            |                         |              |                                   |                                     |              |                                |  |                     |                         |               | ✓       |
| BH2-1.0-1.4  |                            |                         |              |                                   |                                     |              |                                |  |                     |                         |               | ✓       |
| BH3-0-0.1    | ✓                          | ✓                       | ✓            | ✓                                 | ✓                                   | ✓            | ✓                              | ✓                                      |                     |                         |               |         |
| BH3-0.5-0.8  |                            |                         |              |                                   |                                     |              |                                |  |                     |                         |               | ✓       |
| BH3-1.0-1.4  |                            |                         |              |                                   |                                     |              |                                |  |                     |                         |               | ✓       |
| BH3-2.5-2.8  |                            |                         |              |                                   |                                     |              |                                |  |                     |                         |               | ✓       |
| BH4-0-0.1    | ✓                          | ✓                       | ✓            | ✓                                 | ✓                                   | ✓            | ✓                              | ✓                                      |                     |                         |               |         |
| BH4-0.5-0.7  |                            |                         |              |                                   |                                     |              |                                |  |                     |                         |               | ✓       |
| BH4-1.0-1.2  |                            |                         |              |                                   |                                     |              |                                |  |                     |                         |               | ✓       |
| BH4-2.5-2.8  |                            |                         |              |                                   |                                     |              |                                |  |                     |                         |               | ✓       |
| BH5-0-0.1    | ✓                          | ✓                       | ✓            | ✓                                 | ✓                                   | ✓            | ✓                              | ✓                                      |                     |                         |               |         |
| BH5-0.5-0.7  |                            |                         |              |                                   |                                     |              |                                |  |                     |                         |               | ✓       |
| BH5-1.0-1.2  |                            |                         |              |                                   |                                     |              |                                |  |                     |                         |               | ✓       |
| BH5-2.5-2.7  |                            |                         |              |                                   |                                     |              |                                |  |                     |                         |               | ✓       |
| BH6-0-0.1    | ✓                          | ✓                       | ✓            | ✓                                 | ✓                                   | ✓            | ✓                              | ✓                                      |                     |                         |               |         |
| BH6-0.2-0.5  |                            |                         |              |                                   |                                     |              |                                |  |                     |                         |               | ✓       |
| BH6-1.0-1.2  |                            |                         |              |                                   |                                     |              |                                |  |                     |                         |               | ✓       |
| BH7-0.15-0.3 | ✓                          | ✓                       | ✓            | ✓                                 | ✓                                   | ✓            | ✓                              | ✓                                      |                     |                         |               |         |
| BH7-0.5-0.7  |                            |                         |              |                                   |                                     |              |                                |  |                     |                         |               | ✓       |
| BH7-1.0-1.2  |                            |                         |              |                                   |                                     |              |                                |  |                     |                         |               | ✓       |
| BH7-2.5-2.7  |                            |                         |              |                                   |                                     |              |                                |  |                     |                         |               | ✓       |
| BH8-0-0.1    | ✓                          | ✓                       | ✓            | ✓                                 | ✓                                   | ✓            | ✓                              | ✓                                      |                     |                         |               |         |
| BH8-0.5-0.7  |                            |                         |              |                                   |                                     |              |                                |  |                     |                         |               | ✓       |
| BH8-1.0-1.2  |                            |                         |              |                                   |                                     |              |                                |  |                     |                         |               | ✓       |
| BH8-2.5-2.7  |                            |                         |              |                                   |                                     |              |                                |  |                     |                         |               | ✓       |
| TP1-0-0.1    | ✓                          | ✓                       | ✓            | ✓                                 | ✓                                   | ✓            | ✓                              | ✓                                      |                     |                         |               |         |
| TP1-0.1-0.2  |                            |                         |              |                                   |                                     |              |                                |  |                     |                         |               | ✓       |



**Envirolab Services Pty Ltd** 

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| Sample ID        | vTRH(C6-C10)/BTEXN in Soil | svTRH (C10-C40) in Soil | PAHs in Soil | Organochlorine Pesticides in soil | Organophosphorus Pesticides in Soil | PCBs in Soil | Acid Extractable metalsin soil | Asbestos ID - soils NEPM - ASB-<br>001 | Asbestos ID - soils | Asbestos ID - materials | BTEX in Water | On Hold |
|------------------|----------------------------|-------------------------|--------------|-----------------------------------|-------------------------------------|--------------|--------------------------------|--|---------------------|-------------------------|---------------|---------|
| TP1-0.5-0.7      |                            |                         |              |                                   |                                     |              |                                |  |                     |                         |               | ✓       |
| TP2-0-0.1        | ✓                          | ✓                       | ✓            | ✓                                 | ✓                                   | ✓            | ✓                              |  |                     |                         |               |         |
| TP2-0.1-0.3      |                            |                         |              |                                   |                                     |              |                                | ✓                                      |                     |                         |               |         |
| TP3-0-0.1        | ✓                          | ✓                       | ✓            | ✓                                 | ✓                                   | ✓            | ✓                              | ✓                                      |                     |                         |               |         |
| TP3-0.1-0.2      |                            |                         |              |                                   |                                     |              |                                |  |                     |                         |               | ✓       |
| TP3-0.5-0.7      |                            |                         |              |                                   |                                     |              |                                |  |                     |                         |               | ✓       |
| TP4-0-0.1        | ✓                          | ✓                       | ✓            | ✓                                 | ✓                                   | ✓            | ✓                              | ✓                                      |                     |                         |               |         |
| TP4-0.2-0.5      |                            |                         |              |                                   |                                     |              |                                |  |                     |                         |               | ✓       |
| TP4-0.7-1.0      |                            |                         |              |                                   |                                     |              |                                |  |                     |                         |               | ✓       |
| TP5-0-0.1        | ✓                          | ✓                       | ✓            | ✓                                 | ✓                                   | ✓            | ✓                              | ✓                                      |                     |                         |               |         |
| TP5-0.3-0.5      |                            |                         |              |                                   |                                     |              |                                |  |                     |                         |               | ✓       |
| TP5-0.7-0.9      |                            |                         |              |                                   |                                     |              |                                |  |                     |                         |               | ✓       |
| TP6-0-0.1        | ✓                          | ✓                       | ✓            | ✓                                 | ✓                                   | ✓            | ✓                              |  | ✓                   |                         |               |         |
| TP6-0.1-0.3      |                            |                         |              |                                   |                                     |              |                                |  |                     |                         |               | ✓       |
| TP6-0.5-0.7      |                            |                         |              |                                   |                                     |              |                                |  |                     |                         |               | ✓       |
| TP6-0.8-1.0      |                            |                         |              |                                   |                                     |              |                                |  |                     |                         |               | ✓       |
| SDUP1            | ✓                          | ✓                       | ✓            | ✓                                 | ✓                                   | ✓            | ✓                              |  |                     |                         |               |         |
| SDUP3            |                            |                         |              |                                   |                                     |              |                                |  |                     |                         |               | ✓       |
| SDUP4            |                            |                         |              |                                   |                                     |              |                                |  |                     |                         |               | ✓       |
| SDUP5            |                            |                         |              |                                   |                                     |              |                                |  |                     |                         |               | ✓       |
| FCF1-TP2-0.1-0.3 |                            |                         |              |                                   |                                     |              |                                |  |                     | ✓                       |               |         |
| TB-S1            | ✓                          |                         |              |                                   |                                     |              |                                |  |                     |                         |               |         |
| TS-S1            | ✓                          |                         |              |                                   |                                     |              |                                |  |                     |                         |               |         |
| FR-S1-SPT        |                            |                         |              |                                   |                                     |              |                                |  |                     |                         | ✓             |         |

The 'V' indicates the testing you have requested. THIS IS NOT A REPORT OF THE RESULTS.

#### **Additional Info**

Sample storage - Waters are routinely disposed of approximately 1 month and soils approximately 2 months from receipt.

Requests for longer term sample storage must be received in writing.

Please contact the laboratory immediately if observed settled sediment present in water samples is to be included in the extraction and/or analysis (exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS analysis where solids are included by default.

TAT for Micro is dependent on incubation. This varies from 3 to 6 days.

SAMPLE AND CHAIN OF CUSTODY FORM <u>TO:</u> FROM: E35091UPD ENVIROLAB SERVICES PTY LTD JKE Job 12 ASHLEY STREET Number: **JK**Environments CHATSWOOD NSW 2067 REAR OF 115 WICKS ROAD STANDARD P: (02) 99106200 Date Results MACQUARIE PARK, NSW 2113 Reavired: F: (02) 99106201 P: 02-9888 5000 F: 02-9888 5001
Attention: Mitch Delaney
mdelaney@ikenvironments.com.au 1 of 3 Attention: Aileen Page: Sample Preserved in Esky on Ice Location: Gunnedah **Tests Required** Sampler: Sample Description Combo 2 Combo 6 Sample Container Сотро За 8 Metals TRH/BTEX (500ml) Asbestos PAHS BTEX Lab Date Sample Depth (m) PID Sampled Ref: Number Х G, A F: Silty Clay Х 1/06/2022 8H1 0-0.1 G, A 0 F: Silty Clay 1/06/2022 8H1 0.2-0.5 х 3.9 Silty Clay G, A 1/06/2022 BH1 1.0-1.45 0 Silty Clay 4 G, A вн1 1/06/2022 2.0-2.2 X X 0 F: Sandy Clay G. A 1/06/2022 вн2 0-0.1 6 G, A 0 F: Sandy Clay BH2 0.5-0.7 1/06/2022 0,2 Silty Clay G. A 8H2 1/06/2022 1.0-1.4 0 F: Sandy Clay Х Х G, A внз 1/06/2022 0-0.1 F: Sandy Clay G, A 0.1 внз 1/06/2022 0.5-0.8 G, A 0.2 Silty Clay W 1/06/2022 внз 1.0-1.4 Silty Clay  $\mathbf{n}$ 1.1 G, A 1/06/2022 вна 2.5-2.8 G. A 0 F: Silty Sand X Х 12 2/06/2022 вн4 0-0,1 G, A 0 F: Silty Sand 2/06/2022 вн4 0.5-0.7 14 G, A 0 F: Silty Sand 2/06/2022 вн4 1.0-1.2 15 0.3 Silty Clay G, A 8H4 2.5-2.8 2/06/2022 G, A 0 F: Silty Sand Х X 15 ВН5 2/06/2022 0-0.1 F: Silty Sand G, A 17 2/06/2022 внѕ 0.5-0.7 18 G, A 0 Sandy Clay 2/06/2022 вн5 1.0-1.2 19 0 Sandy Clay G, A внѕ 2/06/2022 2.5-2.7 20 0 F: Silty Sand X X G, A 2/06/2022 вн6 0-0.1 0.1 Silty Clay 21 G, A 2/06/2022 вн6 0.2-0.5 22 G. A 0 Silty Clay 2/06/2022 вне 1.0-1.2 25 |<sub>BH7</sub> F: Sandy Gravel X G, A 0 3/05/2022 0.15-0.3 24 G, A 0.2 F: Clayey Sand 3/06/2022 ВН7 0.5-0.7 25 BH7 0.1 Sandy Clay G, A 3/06/2022 1.0-1.2 Remarks (comments/detection limits required): Sample Containers: G - 250mg Glass Jar Please weigh Fibre Cement Fragments A - Ziplock Asbestos Bag P - Plastic Bag Date: Relinquished By: MD Date: 10.6.22 Time: Received By: nvirolab Service 10-6-22 1600 els SYD AP ะเข็ลกเลิย 12 Ashley St

Ph: (02) 9910 6200

<u>Job No:</u>

297823

Date Received: 10 6 22
Time Received: 1600
Received by AP
Temp: Colling Ice/Icepack
Security: Intact/Broken/None

|   |             |                  |  | SAMPL                | E AND    | CHAIN OF CUST         | ODY                        | FOF      | RM             |                     |  |               |          |        |              |                 |        |       |  |
|---|-------------|------------------|--|----------------------|----------|-----------------------|----------------------------|----------|----------------|---------------------|--|---------------|----------|--------|--------------|-----------------|--------|-------|--|
| TO:<br>ENVIROLAB S<br>12 ASHLEY ST          | REET        |                  |  | JKE Job<br>Number:   |          | E35091UPD             |                            |          |                |                     | FRON   |               | K        | nv     | iro          | nn              | ner    | nts   |  |
| CHATSWOOL<br>P: (02) 99106<br>F: (02) 99106 | 200         | 2067             |  | Date Res<br>Required |          | STANDARD              |                            |          |                |                     | MAC  | OF 11<br>QUAR | 15 WIG   | CKS RO | DAD<br>W 21: | 13              |        |       |  |
| Attention: Ai                               | leen        |                  |  | Page:                |          | 2 of 3                |                            |          |                |                     |  |               | 5000     |        | Aitch (      | -9888<br>Delane | y      |       |  |
|   | G.:         | 4-6              | <u> </u>                               |                      |          |                       | 1                          |          |                | Sam                 | ole Pr   | eserve        |          |        |              | /ironm          | ents.c | om.a. |  |
| Location:<br>Sampler:                       | Gunne<br>HW | aan              | ·                                      |                      | <u> </u> |                       |                            |          |                | -                   | Sample Preserved in Esky on Ice Tests Required |               |          |        |              |                 |        |       |  |
| Date<br>Sampled                             | Lab<br>Ref: | Sample<br>Number | Depth (m)                              | Sample<br>Container  | PID      | Sample<br>Description | Сошро 2                    | Combo 3a | Combo 6        | Asbestos<br>(500ml) | 8 Metals                                       | PAHS          | ткн/втех | втех   | Asbestos     |                 |        |       |  |
| 3/06/2022                                   | 26          | BH7              | 2.5-2.7                                | G, A                 | 0.1      | Sandy Clay            |                            |          |                |                     |  |               |          |        |              |                 |        |       |  |
| 3/06/2022                                   | 27          | 8H8              | 0-0.1                                  | G, A                 | 0.1      | F: Sandy Clay         |                            |          | х              | х                   |  |               | <u></u>  |        |              | <u> </u>        |        |       |  |
| 3/06/2022                                   | 28          | BH8              | 0.5-0.7                                | G, A                 | 0        | F: Sandy Clay         |                            |          |                |                     |  |               |          |        |              |                 |        |       |  |
| 3/06/2022                                   | 29          | BH8              | 1.0-1.2                                | G, A                 | Ō        | Sandy Clay            |                            |          |                |                     |  |               | L        |        |              |                 |        |       |  |
| 3/06/2022                                   | 30          | ВН8              | 2.5-2.7                                | G, A                 | 0.1      | Sandy Clay            |                            |          |                |                     |  |               |          |        |              |                 |        |       |  |
| 1/06/2022                                   | 31          | TP1              | 0-0.1                                  | G, A                 | 0        | F: Silty Clay         |                            |          | ×              | х                   |  |               |          |        |              |                 |        |       |  |
| 1/06/2022                                   | 35          | TP1              | 0.1-0.2                                | G, A                 | 0        | F: Silty Clay         |                            |          |                |                     |  |               |          |        |              |                 |        |       |  |
| 1/06/2022                                   | 33          | TP1              | 0.5-0.7                                | G, A                 | 0        | F: Gravelly Clay      |                            |          |                |                     |  |               |          |        |              |                 |        |       |  |
| 1/06/2022                                   | 34          | TP2              | 0-0.1                                  | G, A                 | 0        | F: Gravelly Clay      |                            |          | х              |                     |  |               |          | ١.     |              |                 |        |       |  |
| 1/06/2022                                   | 35          | TP2              | 0.1-0.3                                | G, A                 | 0        | F: Gravelly Clay      |                            |          |                | х                   |  |               |          |        |              |                 |        |       |  |
| 1/06/2022                                   | 36          | TP3              | 0-0.1                                  | G, A                 | 0        | F: Gravelly Clay      |                            |          | х              | х                   |  |               |          |        | _            |                 | !      |       |  |
| 1/06/2022                                   | 37          | TP3              | 0.1-0.2                                | G, A                 | 0        | F: Sand               |                            |          |                |                     |  |               |          |        |              |                 |        |       |  |
| 1/06/2022                                   | 38          | TP3              | 0.5-0.7                                | G, A                 | 0        | F: Gravelly Clay      |                            |          |                |                     |  |               |          |        |              |                 |        |       |  |
| 1/06/2022                                   | 39          | TP4              | 0-0.1                                  | G, A                 | 0        | F: Sandy Clay         |                            |          | Х.             | х                   |  |               |          |        |              |                 |        |       |  |
| 1/06/2022                                   | 40          | TP4              | 0.2-0.5                                | G, A                 | 0        | F: Gravelly Clay      |                            |          |                |                     |  |               |          |        |              |                 |        |       |  |
| 1/06/2022                                   | 41          | ТР4              | 0.7-1.0                                | G, A                 | 0        | Sandy Clay            |                            |          |                |                     |  |               |          |        |              |                 |        |       |  |
| 1/06/2022                                   | 42          | TP5              | 0-0.1                                  | G, A                 | 0        | F: Gravelly Clay      |                            |          | ×              | х                   |  |               |          |        |              |                 |        |       |  |
| 1/06/2022                                   | 43          | TP5              | 0.3-0.5                                | G, A                 | 0        | F: Clayey Gravel      |                            |          |                |                     |  |               |          |        |              |                 |        |       |  |
| 1/06/2022                                   | 44          |                  | 0.7-0.9                                | G, A                 | 0        | F: Gravelly Clay      |                            |          |                |                     |  |               |          |        |              |                 |        |       |  |
| 1/06/2022                                   | 45          | TP6              | 0-0.1                                  | G, A                 | 0        | F: Gravelly Clay      |                            |          | ×              | х                   |  |               |          |        |              |                 |        |       |  |
| 1/06/2022                                   | 45          | †                | 0.1-0.3                                | G, A                 | 0        | F: Gravelly Clay      |                            |          |                |                     |  |               |          |        |              |                 |        |       |  |
| 1/06/2022                                   | 47          | TP6              | 0.5-0.7                                | G, A                 | 0        | F: Gravelly Clay      |                            |          |                |                     |  |               |          |        |              |                 |        |       |  |
| 1/06/2022                                   | 48          | TP6              | 0.8-1.0                                | G, A                 | 0        | Sandy Clay            |                            |          |                |                     |  |               |          |        |              |                 |        |       |  |
| 1/05/2022                                   | 49          | SDUP1            |  | G                    | NA       | Şoil                  |                            |          | х              |                     |  |               |          |        |              |                 |        |       |  |
| 1/06/2022                                   | 3           | SDUP2            |  | G                    | NA       | Sail                  |                            |          | ж              |                     | Pleas  | e sen         | d DUP    | to En  | virola       | b VIC           |        |       |  |
|   | mments      |                  | mits required):<br>ase weigh Fibre Cem |                      |          |                       | G - 2!<br>A - Zi<br>P - Pi | astic E  | Glass<br>Asbes |                     |  |               |          |        |              |                 |        |       |  |
| Relinquished                                | By: M       | •                |  | Date: 10             | .6.22    |                       | Time                       | :        |                |                     | Recei  | ived B<br>)   | y:       |        |              | Date:           |        |       |  |

SAMPLE AND CHAIN OF CUSTODY FORM FROM: <u>TO:</u> E35091UPD JKE Job ENVIROLAB SERVICES PTY LTD Number: 12 ASHLEY STREET **JK**Environments CHATSWOOD NSW 2067 STANDARD **REAR OF 115 WICKS ROAD** Date Results P: (02) 99106200 MACQUARIE PARK, NSW 2113 Required: F: (02) 99106201 F: 02-9888 5001 P: 02-9888 5000 3 of 3 Attention: Mitch Delaney\_\_\_\_ Page: Mitch Delaney mdelaney@ikenvironments.com.a Attention: Aileen Sample Preserved in Esky on Ice Location: Gunnedah **Tests Required** HW<sup>-</sup> Sampler: Sample Description Combo 3a Combo 6 Asbestos (500ml) Sample Container 8 Metals **IRH/BTEX** Combo 2 Asbestos Date Lab Sample PID Depth (m) Number Ref: Sampled 50 SDUP3 NΑ Soil 1/06/2022 G NA Soil 311 SDUP4 2/06/2022 G NΑ Soil 352 SDUPS 3/06/2022 Х FCF 53 FCF1-TP2 NA 0.1-0.3 1/06/2022 Х NA Soil blank TB-S1 1/06/2022 X NA Soil spike 1/06/2022 Х NA Water 56 3/06/2022 FR-S1-SPT CM 57 BH 4.  $\mathcal{C}_{M}$ 62 Sample Containers: Remarks (comments/detection limits required): G - 250mg Glass Jar Please weigh Fibre Cement Fragments A - Ziplock Asbestos Bag P - Plastic Bag Received By: Date: Time: Date: 10.6.22 Relinquished By: MD AP



Envirolab Services Pty Ltd

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

#### **CERTIFICATE OF ANALYSIS 297823-A**

| Client Details |                                      |
|----------------|--------------------------------------|
| Client         | JK Environments                      |
| Attention      | Mitchell Delaney                     |
| Address        | PO Box 976, North Ryde BC, NSW, 1670 |

| Sample Details                       |                     |
|--------------------------------------|---------------------|
| Your Reference                       | E35091UPD, Gunnedah |
| Number of Samples                    | additional analysis |
| Date samples received                | 14/06/2022          |
| Date completed instructions received | 23/06/2022          |

#### **Analysis Details**

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

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

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

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

| Report Details   |            |  |  |  |  |
|--|------------|--|--|--|--|
| Date results requested by  | 30/06/2022 |  |  |  |  |
| Date of Issue  | 30/06/2022 |  |  |  |  |
| NATA Accreditation Number 2901. This document shall not be reproduced except in full.                |            |  |  |  |  |
| Accredited for compliance with ISO/IEC 17025 - Testing. Tests not covered by NATA are denoted with * |            |  |  |  |  |

**Results Approved By** 

Diego Bigolin, Inorganics Supervisor Giovanni Agosti, Group Technical Manager Hannah Nguyen, Metals Supervisor Jenny He, Senior Chemist Authorised By

Nancy Zhang, Laboratory Manager



| Misc Inorg - Soil |          |             |
|-------------------|----------|-------------|
| Our Reference     |          | 297823-A-23 |
| Your Reference    | UNITS    | BH7         |
| Depth             |          | 0.15-0.3    |
| Date Sampled      |          | 03/06/2022  |
| Type of sample    |          | Soil        |
| Date prepared     | -        | 30/06/2022  |
| Date analysed     | -        | 30/06/2022  |
| pH 1:5 soil:water | pH Units | 8.6         |

| CEC                      |          |             |
|--------------------------|----------|-------------|
| Our Reference            |          | 297823-A-23 |
| Your Reference           | UNITS    | BH7         |
| Depth                    |          | 0.15-0.3    |
| Date Sampled             |          | 03/06/2022  |
| Type of sample           |          | Soil        |
| Date prepared            | -        | 30/06/2022  |
| Date analysed            | -        | 30/06/2022  |
| Exchangeable Ca          | meq/100g | 11          |
| Exchangeable K           | meq/100g | 0.4         |
| Exchangeable Mg          | meq/100g | 6.5         |
| Exchangeable Na          | meq/100g | 0.3         |
| Cation Exchange Capacity | meq/100g | 18          |

Envirolab Reference: 297823-A

| Clay 50-120g       |         |             |
|--------------------|---------|-------------|
| Our Reference      |         | 297823-A-23 |
| Your Reference     | UNITS   | BH7         |
| Depth              |         | 0.15-0.3    |
| Date Sampled       |         | 03/06/2022  |
| Type of sample     |         | Soil        |
| Date prepared      | -       | 28/06/2022  |
| Date analysed      | -       | 29/06/2022  |
| Clay in soils <2µm | % (w/w) | 10          |

Envirolab Reference: 297823-A

| Metals from Leaching Fluid pH 2.9 or 5 |          |             |             |
|--|----------|-------------|-------------|
| Our Reference                          |          | 297823-A-16 | 297823-A-23 |
| Your Reference                         | UNITS    | BH5         | BH7         |
| Depth                                  |          | 0-0.1       | 0.15-0.3    |
| Date Sampled                           |          | 02/06/2022  | 03/06/2022  |
| Type of sample                         |          | Soil        | Soil        |
| Date extracted                         | -        | 30/06/2022  | 30/06/2022  |
| Date analysed                          | -        | 30/06/2022  | 30/06/2022  |
| pH of soil for fluid# determ.          | pH units | 8.5         | 8.6         |
| pH of soil TCLP (after HCl)            | pH units | 1.7         | 1.7         |
| Extraction fluid used                  |          | 1           | 1           |
| pH of final Leachate                   | pH units | 5.2         | 5.0         |
| Mercury                                | mg/L     | <0.0005     | [NA]        |
| Nickel                                 | mg/L     | [NA]        | 0.1         |

Envirolab Reference: 297823-A

| Methodology Summary   |
|---|
| Particle Size Distribution using in house method INORG-107 by way of sieving and/or hydrometer sedimentation testing. Clay fraction at <2µm reported.   |
| pH - Measured using pH meter and electrode in accordance with APHA latest edition, 4500-H+. Please note that the results for water analyses are indicative only, as analysis outside of the APHA storage times. |
| Toxicity Characteristic Leaching Procedure (TCLP) using AS 4439 and USEPA 1311.   |
| Please note that the mass used may be scaled down from default based on sample mass available.  |
| Samples are stored at 2-6oC before and after leachate preparation.  |
| Determination of various metals by ICP-AES following buffer determination as per USEPA 1311 and hence AS 4439.3. Extraction Fluid 1 refers to the pH 5.0 buffer and Extraction Fluid 2 is the pH 2.9 buffer.    |
| Determination of exchangeable cations and cation exchange capacity in soils using 1M Ammonium Chloride exchange and ICP-OES analytical finish.  |
| Determination of Mercury by Cold Vapour AAS following buffer determination as per USEPA 1311 and hence AS 4439.3. Extraction Fluid 1 refers to the pH 5.0 buffer and Extraction Fluid 2 is the pH 2.9 buffer.   |
|   |

Envirolab Reference: 297823-A

| QUALITY CONTROL: Misc Inorg - Soil |          |     |           |            |      | Du   |      | Spike Recovery % |            |      |
|------------------------------------|----------|-----|-----------|------------|------|------|------|------------------|------------|------|
| Test Description                   | Units    | PQL | Method    | Blank      | #    | Base | Dup. | RPD              | LCS-1      | [NT] |
| Date prepared                      | -        |     |           | 30/06/2022 | [NT] |      | [NT] | [NT]             | 30/06/2022 |      |
| Date analysed                      | -        |     |           | 30/06/2022 | [NT] |      | [NT] | [NT]             | 30/06/2022 |      |
| pH 1:5 soil:water                  | pH Units |     | Inorg-001 | [NT]       | [NT] | [NT] | [NT] | [NT]             | 100        |      |

Envirolab Reference: 297823-A

| QUA              | ALITY CONT | ROL: CE | EC .       |            |      | Du   | Spike Recovery % |      |            |                 |
|------------------|------------|---------|------------|------------|------|------|------------------|------|------------|-----------------|
| Test Description | Units      | PQL     | Method     | Blank      | #    | Base | Dup.             | RPD  | LCS-W1     | 297823-A-<br>23 |
| Date prepared    | -          |         |            | 30/06/2022 | [NT] |      | [NT]             | [NT] | 30/06/2022 | 30/06/2022      |
| Date analysed    | -          |         |            | 30/06/2022 | [NT] |      | [NT]             | [NT] | 30/06/2022 | 30/06/2022      |
| Exchangeable Ca  | meq/100g   | 0.1     | Metals-020 | <0.1       | [NT] |      | [NT]             | [NT] | 127        | #               |
| Exchangeable K   | meq/100g   | 0.1     | Metals-020 | <0.1       | [NT] |      | [NT]             | [NT] | 129        | 117             |
| Exchangeable Mg  | meq/100g   | 0.1     | Metals-020 | <0.1       | [NT] |      | [NT]             | [NT] | 126        | #               |
| Exchangeable Na  | meq/100g   | 0.1     | Metals-020 | <0.1       | [NT] | [NT] | [NT]             | [NT] | 115        | #               |

Envirolab Reference: 297823-A

| QUALITY CONTROL: Metals from Leaching Fluid pH 2.9 or 5 |       |        |            |            |      | Du   |      | Spike Recovery % |            |      |
|---|-------|--------|------------|------------|------|------|------|------------------|------------|------|
| Test Description  | Units | PQL    | Method     | Blank      | #    | Base | Dup. | RPD              | LCS-W1     | [NT] |
| Date extracted  | -     |        |            | 30/06/2022 | [NT] | [NT] | [NT] | [NT]             | 30/06/2022 |      |
| Date analysed   | -     |        |            | 30/06/2022 | [NT] | [NT] | [NT] | [NT]             | 30/06/2022 |      |
| Mercury   | mg/L  | 0.0005 | Metals-021 | <0.0005    | [NT] | [NT] | [NT] | [NT]             | 101        |      |
| Nickel  | mg/L  | 0.02   | Metals-020 | <0.02      | [NT] | [NT] | [NT] | [NT]             | 94         | [NT] |

Envirolab Reference: 297823-A

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

Envirolab Reference: 297823-A

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

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

The recommended maximums for analytes in urine are taken from "2018 TLVs and BEIs", as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.

Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2

#### **Laboratory Acceptance Criteria**

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

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

Spikes for Physical and Aggregate Tests are not applicable.

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

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

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

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

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

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Envirolab Reference: 297823-A Page | 11 of 12

# **Report Comments**

CEC - # High spike recovery was obtained for this sample. The sample was re-digested and re-spiked and the low recovery was confirmed. This is due to matrix interferences. However, an acceptable recovery was obtained for the LCS.

MISC\_INORG\_DRY:pH:Sample was out of the recommended holding time for this analysis.

Envirolab Reference: 297823-A Page | 12 of 12 R00



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

#### **SAMPLE RECEIPT ADVICE**

| Client Details |                  |
|----------------|------------------|
| Client         | JK Environments  |
| Attention      | Mitchell Delaney |

| Sample Login Details                 |                     |
|--------------------------------------|---------------------|
| Your reference                       | E35091UPD, Gunnedah |
| Envirolab Reference                  | 297823-A            |
| Date Sample Received                 | 14/06/2022          |
| Date Instructions Received           | 23/06/2022          |
| Date Results Expected to be Reported | 30/06/2022          |

| Sample Condition                                       |                         |
|--|-------------------------|
| Samples received in appropriate condition for analysis | Holding time exceedance |
| No. of Samples Provided                                | additional analysis     |
| Turnaround Time Requested                              | Standard                |
| Temperature on Receipt (°C)                            | 10                      |
| Cooling Method   | Ice Pack                |
| Sampling Date Provided                                 | YES                     |

# Comments

Please contact the laboratory within 24 hours if you wish to cancel the aformentioned testing. Otherwise testing will proceed as per the COC and hence invoiced accordingly.

#### Please direct any queries to:

| Aileen Hie                   | Jacinta Hurst                  |
|------------------------------|--------------------------------|
| Phone: 02 9910 6200          | Phone: 02 9910 6200            |
| Fax: 02 9910 6201            | Fax: 02 9910 6201              |
| Email: ahie@envirolab.com.au | Email: jhurst@envirolab.com.au |

Analysis Underway, details on the following page:



**Envirolab Services Pty Ltd** 

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

| Sample ID    | Misc Inorg - Soil | CEC | Clay 50-120g | pH of soil for fluid#determ. | pH of soil TCLP (after HCI) | Extraction fluid used | pH of final Leachate | Mercury | Nickel | On Hold |
|--------------|-------------------|-----|--------------|------------------------------|-----------------------------|-----------------------|----------------------|---------|--------|---------|
| BH1-0-0.1    |                   |     |              |                              |                             |                       |                      |         |        | ✓       |
| BH1-0.2-0.5  |                   |     |              |                              |                             |                       |                      |         |        | ✓       |
| BH1-1.0-1.45 |                   |     |              |                              |                             |                       |                      |         |        | ✓       |
| BH1-2.0-2.2  |                   |     |              |                              |                             |                       |                      |         |        | ✓       |
| BH2-0-0.1    |                   |     |              |                              |                             |                       |                      |         |        | ✓       |
| BH2-0.5-0.7  |                   |     |              |                              |                             |                       |                      |         |        | ✓       |
| BH2-1.0-1.4  |                   |     |              |                              |                             |                       |                      |         |        | ✓       |
| BH3-0-0.1    |                   |     |              |                              |                             |                       |                      |         |        | ✓       |
| BH3-0.5-0.8  |                   |     |              |                              |                             |                       |                      |         |        | ✓       |
| BH3-1.0-1.4  |                   |     |              |                              |                             |                       |                      |         |        | ✓       |
| BH3-2.5-2.8  |                   |     |              |                              |                             |                       |                      |         |        | ✓       |
| BH4-0-0.1    |                   |     |              |                              |                             |                       |                      |         |        | ✓       |
| BH4-0.5-0.7  |                   |     |              |                              |                             |                       |                      |         |        | ✓       |
| BH4-1.0-1.2  |                   |     |              |                              |                             |                       |                      |         |        | ✓       |
| BH4-2.5-2.8  |                   |     |              |                              |                             |                       |                      |         |        | ✓       |
| BH5-0-0.1    |                   |     |              | ✓                            | ✓                           | ✓                     | ✓                    | ✓       |        |         |
| BH5-0.5-0.7  |                   |     |              |                              |                             |                       |                      |         |        | ✓       |
| BH5-1.0-1.2  |                   |     |              |                              |                             |                       |                      |         |        | ✓       |
| BH5-2.5-2.7  |                   |     |              |                              |                             |                       |                      |         |        | ✓       |
| BH6-0-0.1    |                   |     |              |                              |                             |                       |                      |         |        | ✓       |
| BH6-0.2-0.5  |                   |     |              |                              |                             |                       |                      |         |        | ✓       |
| BH6-1.0-1.2  |                   |     |              |                              |                             |                       |                      |         |        | ✓       |
| BH7-0.15-0.3 | ✓                 | ✓   | ✓            | ✓                            | ✓                           | ✓                     | ✓                    |         | ✓      |         |
| BH7-0.5-0.7  |                   |     |              |                              |                             |                       |                      |         |        | ✓       |
| BH7-1.0-1.2  |                   |     |              |                              |                             |                       |                      |         |        | ✓       |
| BH7-2.5-2.7  |                   |     |              |                              |                             |                       |                      |         |        | ✓       |
| BH8-0-0.1    |                   |     |              |                              |                             |                       |                      |         |        | ✓       |
| BH8-0.5-0.7  |                   |     |              |                              |                             |                       |                      |         |        | ✓       |
| BH8-1.0-1.2  |                   |     |              |                              |                             |                       |                      |         |        | ✓       |
| BH8-2.5-2.7  |                   |     |              |                              |                             |                       |                      |         |        | ✓       |
| TP1-0-0.1    |                   |     |              |                              |                             |                       |                      |         |        | ✓       |
| TP1-0.1-0.2  |                   |     |              |                              |                             |                       |                      |         |        | ✓       |

# ENVIROLAB

Envirolab Services Pty Ltd

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

| Sample ID        | Misc Inorg - Soil | CEC | Clay 50-120g | pH of soil for fluid#determ. | pH of soil TCLP (after HCI) | Extraction fluid used | pH of final Leachate | Mercury | Nickel | On Hold     |
|------------------|-------------------|-----|--------------|------------------------------|-----------------------------|-----------------------|----------------------|---------|--------|-------------|
| TP1-0.5-0.7      |                   |     |              |                              |                             |                       |                      |         |        | ✓           |
| TP2-0-0.1        |                   |     |              |                              |                             |                       |                      |         |        | ✓           |
| TP2-0.1-0.3      |                   |     |              |                              |                             |                       |                      |         |        | ✓           |
| TP3-0-0.1        |                   |     |              |                              |                             |                       |                      |         |        | ✓<br>✓<br>✓ |
| TP3-0.1-0.2      |                   |     |              |                              |                             |                       |                      |         |        | ✓           |
| TP3-0.5-0.7      |                   |     |              |                              |                             |                       |                      |         |        | ✓           |
| TP4-0-0.1        |                   |     |              |                              |                             |                       |                      |         |        | ✓           |
| TP4-0.2-0.5      |                   |     |              |                              |                             |                       |                      |         |        | ✓           |
| TP4-0.7-1.0      |                   |     |              |                              |                             |                       |                      |         |        | ✓<br>✓<br>✓ |
| TP5-0-0.1        |                   |     |              |                              |                             |                       |                      |         |        | ✓           |
| TP5-0.3-0.5      |                   |     |              |                              |                             |                       |                      |         |        | ✓           |
| TP5-0.7-0.9      |                   |     |              |                              |                             |                       |                      |         |        | ✓           |
| TP6-0-0.1        |                   |     |              |                              |                             |                       |                      |         |        | ✓           |
| TP6-0.1-0.3      |                   |     |              |                              |                             |                       |                      |         |        | ✓           |
| TP6-0.5-0.7      |                   |     |              |                              |                             |                       |                      |         |        | <b>√</b>    |
| TP6-0.8-1.0      |                   |     |              |                              |                             |                       |                      |         |        | <b>√</b>    |
| SDUP1            |                   |     |              |                              |                             |                       |                      |         |        | ✓           |
| SDUP3            |                   |     |              |                              |                             |                       |                      |         |        | ✓           |
| SDUP4            |                   |     |              |                              |                             |                       |                      |         |        | ✓           |
| SDUP5            |                   |     |              |                              |                             |                       |                      |         |        | ✓<br>✓<br>✓ |
| FCF1-TP2-0.1-0.3 |                   |     |              |                              |                             |                       |                      |         |        | ✓           |
| TB-S1            |                   |     |              |                              |                             |                       |                      |         |        | ✓           |
| TS-S1            |                   |     |              |                              |                             |                       |                      |         |        |             |
| FR-S1-SPT        |                   |     |              |                              |                             |                       |                      |         |        | ✓           |

The '√' indicates the testing you have requested. THIS IS NOT A REPORT OF THE RESULTS.

#### **Additional Info**

Sample storage - Waters are routinely disposed of approximately 1 month and soils approximately 2 months from receipt.

Requests for longer term sample storage must be received in writing.

Please contact the laboratory immediately if observed settled sediment present in water samples is to be included in the extraction and/or analysis (exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS analysis where solids are included by default.

TAT for Micro is dependent on incubation. This varies from 3 to 6 days.

### Ming To

From:

Mitchell Delaney <MDelaney@jkenvironments.com.au> 201823-A

Sent:

Thursday, 23 June 2022 11:34 AM

TAT: Standard.

To: Subject: Samplereceipt

FW: Results for Registration 297823 E35091UPD, Gunnedah
Due: 30106(2022

Categories:

Additional

CAUTION: This email originated from outside of the organisation. Do not act on instructions, click links or open attachments unless you recognise the sender and know the content is authentic and safe.

FYI.

Regards Mitchell Delaney Senior Associate | Environmental Scientist

T: +617 3709 9799 D: 0405 140 181

E: MDelaney@jkenvironments.com.au

www.jkgeotechnics.com.au

**Brisbane Office** 

Level 22, 69 Ann Street **BRISBANE QLD 4000** 

**Sunshine Coast Office** 8 Innovation Parkway

**BIRTINYA QLD 4575** 

# **JK**Environments

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From: Mitchell Delaney

Sent: Thursday, 23 June 2022 11:33 AM

To: 'Greta Petzold' <GPetzold@envirolab.com.au>

Subject: RE: Results for Registration 297823 E35091UPD, Gunnedah

Hi All,

Can I please schedule the additional analysis as per below:

1,6

| 45  | BH7 (0.15-0.3m) | pH, CEC and Clay content |
|-----|-----------------|--------------------------|
| طا  | BH5 (0-0.1m)    | TCLP Mercury             |
| 23. | BH7 (0.15-0.3m) | TCLP Nickel              |

Many thanks,

From: Greta Petzold < GPetzold@envirolab.com.au >

Sent: Tuesday, 21 June 2022 2:17 PM

To: Mitchell Delaney < MDelaney@jkenvironments.com.au > Subject: Results for Registration 297823 E35091UPD, Gunnedah

Please refer to attached for: a copy of the Certificate of Analysis



**Envirolab Services Pty Ltd** 

ABN 37 112 535 645 - 002 25 Research Drive Croydon South VIC 3136 ph 03 9763 2500 fax 03 9763 2633 melbourne@envirolab.com.au www.envirolab.com.au

#### **CERTIFICATE OF ANALYSIS 31988**

| Client Details |                                      |
|----------------|--------------------------------------|
| Client         | JK Environments                      |
| Attention      | Mitch Delaney                        |
| Address        | PO Box 976, North Ryde BC, NSW, 1670 |

| Sample Details                       |            |
|--------------------------------------|------------|
| Your Reference                       | E35091UPD  |
| Number of Samples                    | 1 SOIL     |
| Date samples received                | 16/06/2022 |
| Date completed instructions received | 16/06/2022 |

# **Analysis Details**

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

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

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

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

| Report Details   |            |  |  |
|--|------------|--|--|
| Date results requested by  | 22/06/2022 |  |  |
| Date of Issue  | 21/06/2022 |  |  |
| NATA Accreditation Number 2901. This document shall not be reproduced except in full.                |            |  |  |
| Accredited for compliance with ISO/IEC 17025 - Testing. Tests not covered by NATA are denoted with * |            |  |  |

Results Approved By

Chris De Luca, Operations Manager

**Authorised By** 

Pamela Adams, Laboratory Manager



| vTRH(C6-C10)/BTEXN in Soil                          |       |            |
|---|-------|------------|
| Our Reference                                       |       | 31988-1    |
| Your Reference                                      | UNITS | SDUP2      |
| Date Sampled  |       | 01/06/2022 |
| Type of sample                                      |       | SOIL       |
| Date extracted                                      | -     | 17/06/2022 |
| Date analysed                                       | -     | 18/06/2022 |
| vTRH C <sub>6</sub> - C <sub>9</sub>                | mg/kg | <25        |
| vTRH C <sub>6</sub> - C <sub>10</sub>               | mg/kg | <25        |
| TRH C <sub>6</sub> - C <sub>10</sub> less BTEX (F1) | mg/kg | <25        |
| Benzene   | mg/kg | <0.2       |
| Toluene   | mg/kg | <0.5       |
| Ethylbenzene  | mg/kg | <1         |
| m+p-xylene  | mg/kg | <2         |
| o-Xylene  | mg/kg | <1         |
| Naphthalene   | mg/kg | <1         |
| Total BTEX  | mg/kg | <1         |
| Total +ve Xylenes                                   | mg/kg | <1         |
| Surrogate aaa-Trifluorotoluene                      | %     | 94         |

| TRH Soil C10-C40 NEPM  |       |            |
|--|-------|------------|
| Our Reference  |       | 31988-1    |
| Your Reference   | UNITS | SDUP2      |
| Date Sampled   |       | 01/06/2022 |
| Type of sample   |       | SOIL       |
| Date extracted   | -     | 17/06/2022 |
| Date analysed  | -     | 18/06/2022 |
| TRH C <sub>10</sub> - C <sub>14</sub>                        | mg/kg | <50        |
| TRH C <sub>15</sub> - C <sub>28</sub>                        | mg/kg | <100       |
| TRH C <sub>29</sub> - C <sub>36</sub>                        | mg/kg | 190        |
| Total +ve TRH (C10-C36)                                      | mg/kg | 190        |
| TRH >C10 -C16  | mg/kg | <50        |
| TRH >C <sub>10</sub> - C <sub>16</sub> less Naphthalene (F2) | mg/kg | <50        |
| TRH >C <sub>16</sub> -C <sub>34</sub>                        | mg/kg | 170        |
| TRH >C <sub>34</sub> -C <sub>40</sub>                        | mg/kg | <100       |
| Total +ve TRH (>C10-C40)                                     | mg/kg | 170        |
| Surrogate o-Terphenyl  | %     | 92         |

| PAHs in Soil                          |       |            |
|---------------------------------------|-------|------------|
| Our Reference                         |       | 31988-1    |
| Your Reference                        | UNITS | SDUP2      |
| Date Sampled                          |       | 01/06/2022 |
| Type of sample                        |       | SOIL       |
| Date extracted                        | -     | 17/06/2022 |
| Date analysed                         | -     | 18/06/2022 |
| Naphthalene                           | mg/kg | <0.1       |
| Acenaphthylene                        | mg/kg | <0.1       |
| Acenaphthene                          | mg/kg | <0.1       |
| Fluorene                              | mg/kg | <0.1       |
| Phenanthrene                          | mg/kg | <0.1       |
| Anthracene                            | mg/kg | <0.1       |
| Fluoranthene                          | mg/kg | <0.1       |
| Pyrene                                | mg/kg | <0.1       |
| Benzo(a)anthracene                    | mg/kg | <0.1       |
| Chrysene                              | mg/kg | <0.1       |
| Benzo(b,j&k)fluoranthene              | mg/kg | <0.2       |
| Benzo(a)pyrene                        | mg/kg | <0.05      |
| Indeno(1,2,3-c,d)pyrene               | mg/kg | <0.1       |
| Dibenzo(a,h)anthracene                | mg/kg | <0.1       |
| Benzo(g,h,i)perylene                  | mg/kg | <0.1       |
| Total +ve PAH's                       | mg/kg | <0.05      |
| Benzo(a)pyrene TEQ calc (Zero)        | mg/kg | <0.5       |
| Benzo(a)pyrene TEQ calc (Half)        | mg/kg | <0.5       |
| Benzo(a)pyrene TEQ calc (PQL)         | mg/kg | <0.5       |
| Surrogate p-Terphenyl-d <sub>14</sub> | %     | 96         |

| OCP in Soil                          |       |            |
|--------------------------------------|-------|------------|
| Our Reference                        |       | 31988-1    |
| Your Reference                       | UNITS | SDUP2      |
| Date Sampled                         |       | 01/06/2022 |
| Type of sample                       |       | SOIL       |
| Date extracted                       | -     | 17/06/2022 |
| Date analysed                        | -     | 18/06/2022 |
| alpha-BHC                            | mg/kg | <0.1       |
| Hexachlorobenzene                    | mg/kg | <0.1       |
| beta-BHC                             | mg/kg | <0.1       |
| gamma-BHC                            | mg/kg | <0.1       |
| Heptachlor                           | mg/kg | <0.1       |
| delta-BHC                            | mg/kg | <0.1       |
| Aldrin                               | mg/kg | <0.1       |
| Heptachlor Epoxide                   | mg/kg | <0.1       |
| gamma-Chlordane                      | mg/kg | <0.1       |
| alpha-chlordane                      | mg/kg | <0.1       |
| Endosulfan I                         | mg/kg | <0.1       |
| pp-DDE                               | mg/kg | <0.1       |
| Dieldrin                             | mg/kg | <0.1       |
| Endrin                               | mg/kg | <0.1       |
| Endosulfan II                        | mg/kg | <0.1       |
| pp-DDD                               | mg/kg | <0.1       |
| Endrin Aldehyde                      | mg/kg | <0.1       |
| pp-DDT                               | mg/kg | <0.1       |
| Endosulfan Sulphate                  | mg/kg | <0.1       |
| Methoxychlor                         | mg/kg | <0.1       |
| Total +ve reported Aldrin + Dieldrin | mg/kg | <0.1       |
| Total +ve reported DDT+DDD+DDE       | mg/kg | <0.1       |
| Surrogate 2-chlorophenol-d4          | %     | 70         |

| OP in Soil                  |       |            |
|-----------------------------|-------|------------|
| Our Reference               |       | 31988-1    |
| Your Reference              | UNITS | SDUP2      |
| Date Sampled                |       | 01/06/2022 |
| Type of sample              |       | SOIL       |
| Date extracted              | -     | 17/06/2022 |
| Date analysed               | -     | 18/06/2022 |
| Azinphos-methyl             | mg/kg | <0.1       |
| Bromophos-ethyl             | mg/kg | <0.1       |
| Chlorpyrifos                | mg/kg | <0.1       |
| Chlorpyrifos-methyl         | mg/kg | <0.1       |
| Diazinon                    | mg/kg | <0.1       |
| Dichlorovos                 | mg/kg | <0.1       |
| Dimethoate                  | mg/kg | <0.1       |
| Ethion                      | mg/kg | <0.1       |
| Fenitrothion                | mg/kg | <0.1       |
| Malathion                   | mg/kg | <0.1       |
| Parathion                   | mg/kg | <0.1       |
| Ronnel                      | mg/kg | <0.1       |
| Surrogate 2-chlorophenol-d4 | %     | 70         |

| PCBs in Soil               |       |            |
|----------------------------|-------|------------|
| Our Reference              |       | 31988-1    |
| Your Reference             | UNITS | SDUP2      |
| Date Sampled               |       | 01/06/2022 |
| Type of sample             |       | SOIL       |
| Date extracted             | -     | 17/06/2022 |
| Date analysed              | -     | 18/06/2022 |
| Aroclor 1016               | mg/kg | <0.1       |
| Aroclor 1221               | mg/kg | <0.1       |
| Aroclor 1232               | mg/kg | <0.1       |
| Aroclor 1242               | mg/kg | <0.1       |
| Aroclor 1248               | mg/kg | <0.1       |
| Aroclor 1254               | mg/kg | <0.1       |
| Aroclor 1260               | mg/kg | <0.1       |
| Total +ve PCBs (1016-1260) | mg/kg | <0.1       |
| Surrogate 2-fluorobiphenyl | %     | 88         |

| Acid Extractable metals in soil |       |            |
|---------------------------------|-------|------------|
| Our Reference                   |       | 31988-1    |
| Your Reference                  | UNITS | SDUP2      |
| Date Sampled                    |       | 01/06/2022 |
| Type of sample                  |       | SOIL       |
| Date digested                   | -     | 18/06/2022 |
| Date analysed                   | -     | 18/06/2022 |
| Arsenic                         | mg/kg | <4         |
| Cadmium                         | mg/kg | <0.4       |
| Chromium                        | mg/kg | 23         |
| Copper                          | mg/kg | 18         |
| Lead                            | mg/kg | 11         |
| Mercury                         | mg/kg | <0.1       |
| Nickel                          | mg/kg | 22         |
| Zinc                            | mg/kg | 69         |

| Moisture       |       |            |
|----------------|-------|------------|
| Our Reference  |       | 31988-1    |
| Your Reference | UNITS | SDUP2      |
| Date Sampled   |       | 01/06/2022 |
| Type of sample |       | SOIL       |
| Date prepared  | -     | 17/06/2022 |
| Date analysed  | -     | 18/06/2022 |
| Moisture       | %     | 18         |

| Method ID          | Methodology Summary  |
|--------------------|--|
| Inorg-008          | Moisture content determined by heating at 105°C for a minimum of 12 hours.   |
| Metals-020 ICP-AES | Determination of various metals by ICP-AES.  |
| Metals-021 CV-AAS  | Determination of Mercury by Cold Vapour AAS.   |
| Org-020            | Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID.  |
|                    | F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis. |
|                    | Note, the Total +ve TRH PQL is reflective of the lowest individual PQL and is therefore "Total +ve TRH" is simply a sum of the positive individual TRH fractions (>C10-C40).         |
| Org-021/022        | Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD or GC-MS.   |
|                    | Note, the Total +ve PCBs PQL is reflective of the lowest individual PQL and is therefore" Total +ve PCBs" is simply a sum of the positive individual PCBs.                           |
| Org-022            | Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS.   |
| Org-022            | Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS.   |
|                    | Note, For OCs the Total +ve reported DDD+DDE+DDT PQL is reflective of the lowest individual PQL and is therefore simply a sum of the positive individually report DDD+DDE+DDT.       |

| Method ID | Methodology Summary   |
|-----------|---|
| Org-022   | Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013.   |
|           | For soil results:-  |
|           | 1. 'EQ PQL'values are assuming all contributing PAHs reported as <pql 'eq="" +ve="" 2.="" 3.="" <pql="" a="" above.="" actually="" all="" and="" approach="" approaches="" are="" as="" assuming="" at="" be="" below="" between="" but="" calculation="" can="" conservative="" contribute="" contributing="" false="" give="" given="" half="" hence="" individual="" is="" least="" lowest="" may="" mid-point="" more="" most="" negative="" not="" note,="" of="" pahs="" pahs"="" pahs.<="" positive="" pql="" pql'values="" pql.="" present="" present.="" reflective="" reported="" simply="" stipulated="" sum="" susceptible="" teq="" teqs="" th="" that="" the="" therefore"="" this="" to="" total="" when="" zero'values="" zero.=""></pql> |
| Org-022   | Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS.  |
| Org-023   | Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.  |
| Org-023   | Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.  Note, the Total +ve Xylene PQL is reflective of the lowest individual PQL and is therefore "Total +ve Xylenes" is simply a sum of the positive individual Xylenes.   |

| QUALITY CONT                          | ROL: vTRH | (C6-C10) | /BTEXN in Soil |            | Du   | Spike Recovery % |      |      |            |      |
|---------------------------------------|-----------|----------|----------------|------------|------|------------------|------|------|------------|------|
| Test Description                      | Units     | PQL      | Method         | Blank      | #    | Base             | Dup. | RPD  | LCS-1      | [NT] |
| Date extracted                        | -         |          |                | 17/06/2022 | [NT] |                  | [NT] | [NT] | 17/06/2022 |      |
| Date analysed                         | -         |          |                | 18/06/2022 | [NT] |                  | [NT] | [NT] | 18/06/2022 |      |
| vTRH C <sub>6</sub> - C <sub>9</sub>  | mg/kg     | 25       | Org-023        | <25        | [NT] |                  | [NT] | [NT] | 100        |      |
| vTRH C <sub>6</sub> - C <sub>10</sub> | mg/kg     | 25       | Org-023        | <25        | [NT] |                  | [NT] | [NT] | 99         |      |
| Benzene                               | mg/kg     | 0.2      | Org-023        | <0.2       | [NT] |                  | [NT] | [NT] | 99         |      |
| Toluene                               | mg/kg     | 0.5      | Org-023        | <0.5       | [NT] |                  | [NT] | [NT] | 103        |      |
| Ethylbenzene                          | mg/kg     | 1        | Org-023        | <1         | [NT] |                  | [NT] | [NT] | 95         |      |
| m+p-xylene                            | mg/kg     | 2        | Org-023        | <2         | [NT] |                  | [NT] | [NT] | 101        |      |
| o-Xylene                              | mg/kg     | 1        | Org-023        | <1         | [NT] |                  | [NT] | [NT] | 93         |      |
| Naphthalene                           | mg/kg     | 1        | Org-023        | <1         | [NT] |                  | [NT] | [NT] | [NT]       |      |
| Surrogate aaa-Trifluorotoluene        | %         |          | Org-023        | 100        | [NT] |                  | [NT] | [NT] | 110        |      |

| QUALITY CON                           | NTROL: TRH | Soil C10 | C40 NEPM |            |      | Du   | plicate |      | Spike Recovery % |      |  |
|---------------------------------------|------------|----------|----------|------------|------|------|---------|------|------------------|------|--|
| Test Description                      | Units      | PQL      | Method   | Blank      | #    | Base | Dup.    | RPD  | LCS-1            | [NT] |  |
| Date extracted                        | -          |          |          | 17/06/2022 | [NT] |      | [NT]    | [NT] | 17/06/2022       |      |  |
| Date analysed                         | -          |          |          | 18/06/2022 | [NT] |      | [NT]    | [NT] | 18/06/2022       |      |  |
| TRH C <sub>10</sub> - C <sub>14</sub> | mg/kg      | 50       | Org-020  | <50        | [NT] |      | [NT]    | [NT] | 91               |      |  |
| TRH C <sub>15</sub> - C <sub>28</sub> | mg/kg      | 100      | Org-020  | <100       | [NT] |      | [NT]    | [NT] | 87               |      |  |
| TRH C <sub>29</sub> - C <sub>36</sub> | mg/kg      | 100      | Org-020  | <100       | [NT] |      | [NT]    | [NT] | 93               |      |  |
| TRH >C <sub>10</sub> -C <sub>16</sub> | mg/kg      | 50       | Org-020  | <50        | [NT] |      | [NT]    | [NT] | 91               |      |  |
| TRH >C <sub>16</sub> -C <sub>34</sub> | mg/kg      | 100      | Org-020  | <100       | [NT] |      | [NT]    | [NT] | 87               |      |  |
| TRH >C <sub>34</sub> -C <sub>40</sub> | mg/kg      | 100      | Org-020  | <100       | [NT] |      | [NT]    | [NT] | 93               |      |  |
| Surrogate o-Terphenyl                 | %          |          | Org-020  | 87         | [NT] |      | [NT]    | [NT] | 79               |      |  |

| QUA                                   | LITY CONTRO | L: PAHs | in Soil |            |      | Du   | plicate | Spike Recovery % |            |      |  |
|---------------------------------------|-------------|---------|---------|------------|------|------|---------|------------------|------------|------|--|
| Test Description                      | Units       | PQL     | Method  | Blank      | #    | Base | Dup.    | RPD              | LCS-1      | [NT] |  |
| Date extracted                        | -           |         |         | 17/06/2022 | [NT] |      | [NT]    | [NT]             | 17/06/2022 |      |  |
| Date analysed                         | -           |         |         | 18/06/2022 | [NT] |      | [NT]    | [NT]             | 18/06/2022 |      |  |
| Naphthalene                           | mg/kg       | 0.1     | Org-022 | <0.1       | [NT] |      | [NT]    | [NT]             | 100        |      |  |
| Acenaphthylene                        | mg/kg       | 0.1     | Org-022 | <0.1       | [NT] |      | [NT]    | [NT]             | [NT]       |      |  |
| Acenaphthene                          | mg/kg       | 0.1     | Org-022 | <0.1       | [NT] |      | [NT]    | [NT]             | 106        |      |  |
| Fluorene                              | mg/kg       | 0.1     | Org-022 | <0.1       | [NT] |      | [NT]    | [NT]             | 98         |      |  |
| Phenanthrene                          | mg/kg       | 0.1     | Org-022 | <0.1       | [NT] |      | [NT]    | [NT]             | 104        |      |  |
| Anthracene                            | mg/kg       | 0.1     | Org-022 | <0.1       | [NT] |      | [NT]    | [NT]             | [NT]       |      |  |
| Fluoranthene                          | mg/kg       | 0.1     | Org-022 | <0.1       | [NT] |      | [NT]    | [NT]             | 98         |      |  |
| Pyrene                                | mg/kg       | 0.1     | Org-022 | <0.1       | [NT] |      | [NT]    | [NT]             | 104        |      |  |
| Benzo(a)anthracene                    | mg/kg       | 0.1     | Org-022 | <0.1       | [NT] |      | [NT]    | [NT]             | [NT]       |      |  |
| Chrysene                              | mg/kg       | 0.1     | Org-022 | <0.1       | [NT] |      | [NT]    | [NT]             | 92         |      |  |
| Benzo(b,j&k)fluoranthene              | mg/kg       | 0.2     | Org-022 | <0.2       | [NT] |      | [NT]    | [NT]             | [NT]       |      |  |
| Benzo(a)pyrene                        | mg/kg       | 0.05    | Org-022 | <0.05      | [NT] |      | [NT]    | [NT]             | 116        |      |  |
| Indeno(1,2,3-c,d)pyrene               | mg/kg       | 0.1     | Org-022 | <0.1       | [NT] |      | [NT]    | [NT]             | [NT]       |      |  |
| Dibenzo(a,h)anthracene                | mg/kg       | 0.1     | Org-022 | <0.1       | [NT] |      | [NT]    | [NT]             | [NT]       |      |  |
| Benzo(g,h,i)perylene                  | mg/kg       | 0.1     | Org-022 | <0.1       | [NT] |      | [NT]    | [NT]             | [NT]       |      |  |
| Surrogate p-Terphenyl-d <sub>14</sub> | %           |         | Org-022 | 108        | [NT] |      | [NT]    | [NT]             | 110        |      |  |

| QUA                         | LITY CONTRO | DL: OCP i | n Soil  |            | Duplicate |      |      | Spike Recovery % |            |      |
|-----------------------------|-------------|-----------|---------|------------|-----------|------|------|------------------|------------|------|
| Test Description            | Units       | PQL       | Method  | Blank      | #         | Base | Dup. | RPD              | LCS-1      | [NT] |
| Date extracted              | -           |           |         | 17/06/2022 | [NT]      |      | [NT] | [NT]             | 17/06/2022 |      |
| Date analysed               | -           |           |         | 18/06/2022 | [NT]      |      | [NT] | [NT]             | 18/06/2022 |      |
| alpha-BHC                   | mg/kg       | 0.1       | Org-022 | <0.1       | [NT]      |      | [NT] | [NT]             | 80         |      |
| Hexachlorobenzene           | mg/kg       | 0.1       | Org-022 | <0.1       | [NT]      |      | [NT] | [NT]             | [NT]       |      |
| beta-BHC                    | mg/kg       | 0.1       | Org-022 | <0.1       | [NT]      |      | [NT] | [NT]             | 82         |      |
| gamma-BHC                   | mg/kg       | 0.1       | Org-022 | <0.1       | [NT]      |      | [NT] | [NT]             | [NT]       |      |
| Heptachlor                  | mg/kg       | 0.1       | Org-022 | <0.1       | [NT]      |      | [NT] | [NT]             | 120        |      |
| delta-BHC                   | mg/kg       | 0.1       | Org-022 | <0.1       | [NT]      |      | [NT] | [NT]             | [NT]       |      |
| Aldrin                      | mg/kg       | 0.1       | Org-022 | <0.1       | [NT]      |      | [NT] | [NT]             | 90         |      |
| Heptachlor Epoxide          | mg/kg       | 0.1       | Org-022 | <0.1       | [NT]      |      | [NT] | [NT]             | 90         |      |
| gamma-Chlordane             | mg/kg       | 0.1       | Org-022 | <0.1       | [NT]      |      | [NT] | [NT]             | 82         |      |
| alpha-chlordane             | mg/kg       | 0.1       | Org-022 | <0.1       | [NT]      |      | [NT] | [NT]             | [NT]       |      |
| Endosulfan I                | mg/kg       | 0.1       | Org-022 | <0.1       | [NT]      |      | [NT] | [NT]             | [NT]       |      |
| pp-DDE                      | mg/kg       | 0.1       | Org-022 | <0.1       | [NT]      |      | [NT] | [NT]             | 98         |      |
| Dieldrin                    | mg/kg       | 0.1       | Org-022 | <0.1       | [NT]      |      | [NT] | [NT]             | 82         |      |
| Endrin                      | mg/kg       | 0.1       | Org-022 | <0.1       | [NT]      |      | [NT] | [NT]             | [NT]       |      |
| Endosulfan II               | mg/kg       | 0.1       | Org-022 | <0.1       | [NT]      |      | [NT] | [NT]             | [NT]       |      |
| pp-DDD                      | mg/kg       | 0.1       | Org-022 | <0.1       | [NT]      |      | [NT] | [NT]             | 106        |      |
| Endrin Aldehyde             | mg/kg       | 0.1       | Org-022 | <0.1       | [NT]      |      | [NT] | [NT]             | [NT]       |      |
| op-DDT                      | mg/kg       | 0.1       | Org-022 | <0.1       | [NT]      |      | [NT] | [NT]             | [NT]       |      |
| Endosulfan Sulphate         | mg/kg       | 0.1       | Org-022 | <0.1       | [NT]      |      | [NT] | [NT]             | 108        |      |
| Methoxychlor                | mg/kg       | 0.1       | Org-022 | <0.1       | [NT]      |      | [NT] | [NT]             | [NT]       |      |
| Surrogate 2-chlorophenol-d4 | %           |           | Org-022 | 94         | [NT]      |      | [NT] | [NT]             | 110        |      |

| QU/                         | ALITY CONTROL: OP in Soil |     |         |            |      | Du   | Spike Recovery % |      |            |      |
|-----------------------------|---------------------------|-----|---------|------------|------|------|------------------|------|------------|------|
| Test Description            | Units                     | PQL | Method  | Blank      | #    | Base | Dup.             | RPD  | LCS-1      | [NT] |
| Date extracted              | -                         |     |         | 17/06/2022 | [NT] |      | [NT]             | [NT] | 17/06/2022 |      |
| Date analysed               | -                         |     |         | 18/06/2022 | [NT] |      | [NT]             | [NT] | 18/06/2022 |      |
| Azinphos-methyl             | mg/kg                     | 0.1 | Org-022 | <0.1       | [NT] |      | [NT]             | [NT] | [NT]       |      |
| Bromophos-ethyl             | mg/kg                     | 0.1 | Org-022 | <0.1       | [NT] |      | [NT]             | [NT] | [NT]       |      |
| Chlorpyrifos                | mg/kg                     | 0.1 | Org-022 | <0.1       | [NT] |      | [NT]             | [NT] | 88         |      |
| Chlorpyrifos-methyl         | mg/kg                     | 0.1 | Org-022 | <0.1       | [NT] |      | [NT]             | [NT] | 102        |      |
| Diazinon                    | mg/kg                     | 0.1 | Org-022 | <0.1       | [NT] |      | [NT]             | [NT] | 116        |      |
| Dichlorovos                 | mg/kg                     | 0.1 | Org-022 | <0.1       | [NT] |      | [NT]             | [NT] | [NT]       |      |
| Dimethoate                  | mg/kg                     | 0.1 | Org-022 | <0.1       | [NT] |      | [NT]             | [NT] | [NT]       |      |
| Ethion                      | mg/kg                     | 0.1 | Org-022 | <0.1       | [NT] |      | [NT]             | [NT] | 128        |      |
| Fenitrothion                | mg/kg                     | 0.1 | Org-022 | <0.1       | [NT] |      | [NT]             | [NT] | 120        |      |
| Malathion                   | mg/kg                     | 0.1 | Org-022 | <0.1       | [NT] |      | [NT]             | [NT] | [NT]       |      |
| Parathion                   | mg/kg                     | 0.1 | Org-022 | <0.1       | [NT] |      | [NT]             | [NT] | [NT]       |      |
| Ronnel                      | mg/kg                     | 0.1 | Org-022 | <0.1       | [NT] |      | [NT]             | [NT] | [NT]       |      |
| Surrogate 2-chlorophenol-d4 | %                         |     | Org-022 | 94         | [NT] |      | [NT]             | [NT] | 110        |      |

| QUALIT                     | Y CONTRO | L: PCBs | in Soil |            |      | Du   |      | Spike Recovery % |            |      |
|----------------------------|----------|---------|---------|------------|------|------|------|------------------|------------|------|
| Test Description           | Units    | PQL     | Method  | Blank      | #    | Base | Dup. | RPD              | LCS-1      | [NT] |
| Date extracted             | -        |         |         | 17/06/2022 | [NT] |      | [NT] | [NT]             | 17/06/2022 |      |
| Date analysed              | -        |         |         | 18/06/2022 | [NT] |      | [NT] | [NT]             | 18/06/2022 |      |
| Aroclor 1016               | mg/kg    | 0.1     | Org-022 | <0.1       | [NT] |      | [NT] | [NT]             | [NT]       |      |
| Aroclor 1221               | mg/kg    | 0.1     | Org-022 | <0.1       | [NT] |      | [NT] | [NT]             | [NT]       |      |
| Aroclor 1232               | mg/kg    | 0.1     | Org-022 | <0.1       | [NT] |      | [NT] | [NT]             | [NT]       |      |
| Aroclor 1242               | mg/kg    | 0.1     | Org-022 | <0.1       | [NT] |      | [NT] | [NT]             | [NT]       |      |
| Aroclor 1248               | mg/kg    | 0.1     | Org-022 | <0.1       | [NT] |      | [NT] | [NT]             | [NT]       |      |
| Aroclor 1254               | mg/kg    | 0.1     | Org-022 | <0.1       | [NT] |      | [NT] | [NT]             | 87         |      |
| Aroclor 1260               | mg/kg    | 0.1     | Org-022 | <0.1       | [NT] |      | [NT] | [NT]             | [NT]       |      |
| Surrogate 2-fluorobiphenyl | %        |         | Org-022 | 106        | [NT] |      | [NT] | [NT]             | 116        |      |

| QUALITY CONT     | ROL: Acid E | xtractabl | le metals in soil      |            | Duplicate Sp |      |      |      |            | pike Recovery % |  |
|------------------|-------------|-----------|------------------------|------------|--------------|------|------|------|------------|-----------------|--|
| Test Description | Units       | PQL       | Method                 | Blank      | #            | Base | Dup. | RPD  | LCS-1      | [NT]            |  |
| Date digested    | -           |           |                        | 18/06/2022 | [NT]         |      | [NT] | [NT] | 18/06/2022 |                 |  |
| Date analysed    | -           |           |                        | 18/06/2022 | [NT]         |      | [NT] | [NT] | 18/06/2022 |                 |  |
| Arsenic          | mg/kg       | 4         | Metals-020 ICP-<br>AES | <4         | [NT]         |      | [NT] | [NT] | 98         |                 |  |
| Cadmium          | mg/kg       | 0.4       | Metals-020 ICP-<br>AES | <0.4       | [NT]         |      | [NT] | [NT] | 100        |                 |  |
| Chromium         | mg/kg       | 1         | Metals-020 ICP-<br>AES | <1         | [NT]         |      | [NT] | [NT] | 101        |                 |  |
| Copper           | mg/kg       | 1         | Metals-020 ICP-<br>AES | <1         | [NT]         |      | [NT] | [NT] | 98         |                 |  |
| Lead             | mg/kg       | 1         | Metals-020 ICP-<br>AES | <1         | [NT]         |      | [NT] | [NT] | 101        |                 |  |
| Mercury          | mg/kg       | 0.1       | Metals-021 CV-AAS      | <0.1       | [NT]         |      | [NT] | [NT] | 101        |                 |  |
| Nickel           | mg/kg       | 1         | Metals-020 ICP-<br>AES | <1         | [NT]         |      | [NT] | [NT] | 100        |                 |  |
| Zinc             | mg/kg       | 1         | Metals-020 ICP-<br>AES | <1         | [NT]         |      | [NT] | [NT] | 97         |                 |  |

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

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

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

The recommended maximums for analytes in urine are taken from "2018 TLVs and BEIs", as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.

Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2

## **Laboratory Acceptance Criteria**

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

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

Spikes for Physical and Aggregate Tests are not applicable.

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

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

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

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

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

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

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# **Report Comments**

Samples received in good order: No, Holding time exceedance

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## **SAMPLE RECEIPT ADVICE**

| Client Details |                 |  |  |  |
|----------------|-----------------|--|--|--|
| Client         | JK Environments |  |  |  |
| Attention      | Mitch Delaney   |  |  |  |

| Sample Login Details                 |            |  |
|--------------------------------------|------------|--|
| Your reference                       | E35091UPD  |  |
| Envirolab Reference                  | 31988      |  |
| Date Sample Received                 | 16/06/2022 |  |
| Date Instructions Received           | 16/06/2022 |  |
| Date Results Expected to be Reported | 22/06/2022 |  |

| Sample Condition                                       |                             |
|--|-----------------------------|
| Samples received in appropriate condition for analysis | No, Holding time exceedance |
| No. of Samples Provided                                | 1 SOIL                      |
| Turnaround Time Requested                              | Standard                    |
| Temperature on Receipt (°C)                            | 4.9                         |
| Cooling Method   | IcePACK                     |
| Sampling Date Provided                                 | YES                         |

## **Comments**

Organics and moisture out of holding time.

Please contact the laboratory within 24 hours if you wish to cancel the aformentioned testing. Otherwise testing will proceed as per the COC and hence invoiced accordingly.

Please direct any queries to:

| Pamela Adams                   | Chris De Luca                   |  |  |  |  |
|--------------------------------|---------------------------------|--|--|--|--|
| Phone: 03 9763 2500            | Phone: 03 9763 2500             |  |  |  |  |
| Fax: 03 9763 2633              | Fax: 03 9763 2633               |  |  |  |  |
| Email: padams@envirolab.com.au | Email: cdeluca@envirolab.com.au |  |  |  |  |

Analysis Underway, details on the following page:



Envirolab Services Pty Ltd
ABN 37 112 535 645 - 002
25 Research Drive Croydon South VIC 3136
ph 03 9763 2500 fax 03 9763 2633
melbourne@envirolab.com.au
www.envirolab.com.au

| Sample ID | vTRH(C6-C10)/BTEXN in Soil | TRH Soil C10-C40 NEPM | PAHs in Soil | OCP in Soil | OP in Soil | PCBsin Soil | Acid Extractable metalsin soil |
|-----------|----------------------------|-----------------------|--------------|-------------|------------|-------------|--------------------------------|
| SDUP2     | ✓                          | ✓                     | ✓            | ✓           | ✓          | ✓           | ✓                              |

The '\sqrt{'} indicates the testing you have requested. THIS IS NOT A REPORT OF THE RESULTS.

# **Additional Info**

Sample storage - Waters are routinely disposed of approximately 1 month and soils approximately 2 months from receipt.

Requests for longer term sample storage must be received in writing.

Please contact the laboratory immediately if observed settled sediment present in water samples is to be included in the extraction and/or analysis (exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS analysis where solids are included by default.

SAMPLE AND CHAIN OF CUSTODY FORM TO: FROM: ENVIROLAB SERVICES PTY LTD £35091UPD JKE Job 12 ASHLEY STREET Number: **JK**Environments CHATSWOOD NSW 2067 P: (02) 99106200 Date Results STANDARD REAR OF 115 WICKS ROAD F: (02) 99106201 Required: MACQUARIE PARK, NSW 2113 P: 02-9888 5000 F: 02-9888 5001 Attention: Aileen Page: 2.of 3 Attention: Mitch Delaney mdelaney@ikenvironments.com.au Gunnedah Location: Sample Preserved in Esky on Ice Tests Required HW Sampler: Combo 3a Sample Container Combo 6 Asbestos (500ml) TRH/BTEX Date Lab Sample PAHs BTEX Depth (m) PID Sampled Ref: Number 26 G, A 0.1 Sandy Clay 3/06/2022 BH7 2.5-2.7 27 G, A 0.1 F: Sandy Clay X х 3/06/2022 вн8 0-0.1 28. BH8 G. A 0.5-0.7 n F: Sandy Clay 3/06/2022 29; BH8 G, A 0 Sandy Clay 3/06/2022 1.0-1.2 30 0.1 вн8 G, A Sandy Clay 3/06/2022 2.5-2.7 31 G, A F: Sifty Clay х x TP1 1/06/2022 0-0.1 32 G. A 0 TP1 0.1-0.2 F: Silty Clay 1/06/2022 33 TP1 Ġ, A 0 F: Gravelly Clay 1/06/2022 0.5-0.7 34 1/06/2022 TP2 G, A 0 F: Gravelly Clay X 0-0.1 35 G. A 0 F: Gravelly Clay X. 1/06/2022 TP2 0.1-0.3 36 ITP3 G, A 0 F: Gravelly Clay 1/06/2022 х 0-0.1 37 Tes. G, A Ó F: Sand 1/06/2022 0.1-0.2 38 TP3 G. A Ω F: Gravelly Clay 1/06/2022 0.5-0.7 39 TP4 G, A F: Sandy Clay X. Х 1/06/2022 0-0.1 40 TP4 G, A 0 F: Gravelly Clay 1/06/2022 0.2-0.5 41 TR4 'G, A 0 -Sandy Clay 1/06/2022 0.7-1.0 42 |<sub>TP5</sub> G, A 0 F: Gravelly Clay X Х 1/06/2022 0-0.1 43 |<sub>TP5</sub> G, A 0 F: Clayey Gravel 1/06/2022 -0.3-0.5 44 TPS G, A 0 F: Gravelly Clay 1/06/2022 0.7-0.9 45 TP6 F: Gravelly Clay G, A 0 х Χ. 1/06/2022 0-0.1 46 TP6 G, A F: Gravelly Clay 1/06/2022 0.1-0.3 47 TP6 0 G. A F: Gravelly Clay 1/06/2022 0.5-0.7 48 TP6 G, A Sandy Clay 1/06/2022 0.8-1.0 Soil G NΑ Х 1/06/2022 SDUP1 SDUP2 G Soil 1/06/2022 х Please send DUP to Envirolab VIC Remarks (comments/detection limits required): Sample Containers: G - 250mg Glass Jar Please weigh Fibre Cement Fragments A - Ziplock Asbestos Bag P - Plastic Bag Relinquished By: MD

Chosena 15/06/22 110 Envirolat Services
25 Rosearch Frida
Croydon Scoth vio 2156
Ph: (03) 9763 2500

297823

Received By:

Date:

Ph: (03) 9763 2500 Job No: 31988

Date: 10.6.22

Date Received: |b| b| 22 Time Received: 2 .40fm

Received By: 10

Cooling: Icompack Security: Intact/Broken/None

SAMPLE AND CHAIN OF CUSTODY FORM FROM: TO: E35091UPD JKE Job ENVIROLAB SERVICES PTY LTD 12 ASHLEY STREET Number: **JK**Environments CHATSWOOD NSW 2067 REAR OF 115 WICKS ROAD STANDARD P: (02) 99106200 **Date Results** MACQUARIE PARK, NSW 2113 F: (02) 99106201 Required: F: 02-9888 5001 P: 02-9888 5000 Mitch Delaney Attention: 3 of 3 Attention: Aileen Page: mdelaney@jkenvironments.com.a Sample Preserved in Esky on Ice Gunnedah . Location: **Tests Required** Sampler: Sample Description Combo 2 Combo 3a Sample Container Combo 6 8 Metals Asbestos TRH/BTEX Asbestos (500ml) BTEX Date Lab Sample PID Depth (m) Sampled Ref: Number 10 Soil G NA SDUP3 1/06/2022 .G NA Soil ISDUP4 2/06/2022 G ΝA Soil 352 SDUPS 3/06/2022 Х FCF NΑ 53 FCF1-TP2 Α 1/06/2022 0.1-0.3 54 TB-S1 Soil blank X NA G 1/06/2022 55 X ٧ NA Soil spike 1/06/2022 Х 56 NΑ Water FR-S1-SPT 3/06/2022 CM CM) en 61 62 . Sample Containers: Remarks (comments/detection limits required): G - 250mg Glass Jar Please weigh Fibre Cement Fragments A - Ziplock Asbestos Bag P - Plastic Bag Date: Received By: Date: 10.6.22 Time: Relinquished By: MD

Rubamsted by Els sydry Choiman 15/06/22 1200 C

297823

AP

SAMPLE AND CHAIN OF CUSTODY FORM FROM: <u> 10:</u> E35091UPD IKE Job **ENVIROLAB SERVICES PTY LTD** 12 ASHLEY STREET Number: **JK**Environments CHATSWOOD NSW 2067 REAR OF 115 WICKS ROAD STANDARD P: (02) 99106200 **Date Results** MACQUARIE PARK, NSW 2113 F: (02) 99106201 Required: F: 02-9888 5001 P: 02-9888 5000 Attention: Aileen Page: 1 of 3 Attention: Mitch Delaney mdelaney@jkenvironments.com.au Sample Preserved in Esky on Ice Gunnedah Location: **Tests Required** Sampler: HW Combo 6 Sample Description Combo 2 Combo 3a 8 Metals Sample Container TRH/BTEX Asbestos (500ml) Asbestos **PAHs** BTEX Date Lab Sample PID Depth (m) Sampled Ref: Number Х G, A F: Silty Clay Х BH1 0-0.1 1/06/2022 F: Silty Clay 2 0 вн1 0.2-0.5 1/06/2022 Silty Clay Х G, A 3.9 вн1 1.0-1.45 1/06/2022 0 Silty Clay G, A 4 BH1 2.0-2.2 1/06/2022 G, A 0 F: Sandy Clay х 5 вн2 0-0.1 1/06/2022 Ó F: Sandy Clay G, A 6 1/06/2022 BH2 0.5-0.7 G, A 0.2 Silty Clay 1/06/2022 BH2 1.0-1.4 F: Sandy Clay х X 8 G, A ٥ внз 0-0.1 1/06/2022 9 0.1 F: Sandy Clay G. A 0.5-0.8 внз 1/06/2022 Silty Clay G, A 0.2 V) 1/06/2022 внз 1.0-1.4 R G, A 1.1 Silty Clay 1/06/2022 внз 2.5-2.8 0 F: Silty Sand Х X G, A 12 2/06/2022 вн4 0-0.1 13 0 F: Silty Sand G. A 2/06/2022 вн4 0.5-0.7 G, A 0 F: Silty Sand i٤ BH4 2/06/2022 1.0-1.2 Silty Clay G, A 0.3 2/06/2022 ВН4 2.5-2.8 Х Х 15 G, A n F: Silty Sand 2/06/2022 вн5 0.0.1 0.2 F: Sifty Sand G. A 17 2/06/2022 вн5 0.5-0.7 18 0 Sandy Clay G. A 2/06/2022 вн5 1.0-1.2 19 Sandy Clay G, A вн5 2/06/2022 2.5-2.7 20 х X G, A 0 F: Silty Sand 2/06/2022 вн6 0-0.1 G, A Silty Clay 0.1 21 вн6 2/06/2022 0.2-0.5 22 0 Silty Clay G. A внъ 2/06/2022 1.0-1.2 23 0 F: Sandy Gravel Χ Х G. A 3/06/2022 ВН7 0.15-0.3 24 G, A 0.2 F: Clayey Sand 3/06/2022 8H7 0.5-0.7 25 BH7 0.1 Sandy Clay 3/06/2022 1.0-1.2 Sample Containers: Remarks (comments/detection limits required): G - 250mg Glass Jar Please weigh Fibre Cement Fragments A - Ziplock Asbestos Bag P - Plastic Bag Received By: Date: Date: 10.6.22 Time: Relinquished By: MD Envirolab Service 10-6-22 els SYD 1608 AP COTIEN AB 12 Ashley St recinquisted by Els sychely choseman 15/01/22 Ph: (02) 9910 6200 <u>Job No:</u> 297823

Date Received: 10 - 6-22

Time Received: 1600

Received by. AP Temp: ColiAmbient Cooling: Ice Icepack Security: Intact/Broken/inione



**Appendix F: Report Explanatory Notes** 



# **QA/QC Definitions**

The QA/QC terms used in this report are defined below. The definitions are in accordance with US EPA publication SW-846, entitled *Test Methods for Evaluating Solid Waste, Physical/Chemical Methods* (1994)<sup>17</sup> methods and those described in *Environmental Sampling and Analysis, A Practical Guide*, (1991)<sup>18</sup>. The NEPM (2013) is consistent with these documents.

#### A. Practical Quantitation Limit (PQL), Limit of Reporting (LOR) & Estimated Quantitation Limit (EQL)

These terms all refer to the concentration above which results can be expressed with a minimum 95% confidence level. The laboratory reporting limits are generally set at ten times the standard deviation for the Method Detection Limit for each specific analyte. For the purposes of this report the LOR, PQL, and EQL are considered to be equivalent.

When assessing laboratory data it should be borne in mind that values at or near the PQL have two important limitations: "The uncertainty of the measurement value can approach, and even equal, the reported value. Secondly, confirmation of the analytes reported is virtually impossible unless identification uses highly selective methods. These issues diminish when reliably measurable amounts of analytes are present. Accordingly, legal and regulatory actions should be limited to data at or above the reliable detection limit" (Keith, 1991).

#### B. Precision

The degree to which data generated from repeated measurements differ from one another due to random errors. Precision is measured using the standard deviation or Relative Percent Difference (RPD).

### C. Accuracy

Accuracy is a measure of the agreement between an experimental result and the true value of the parameter being measured (i.e. the proximity of an averaged result to the true value, where all random errors have been statistically removed). The assessment of accuracy for an analysis can be achieved through the analysis of known reference materials or assessed by the analysis of surrogates, field blanks, trip spikes and matrix spikes. Accuracy is typically reported as percent recovery.

#### D. Representativeness

Representativeness expresses the degree to which sample data accurately and precisely represents a characteristic of a population, parameter variations at a sampling point, or an environmental condition. Representativeness is primarily dependent upon the design and implementation of the sampling program. Representativeness of the data is partially ensured by the avoidance of contamination, adherence to sample handing and analysis protocols and use of proper chain-of-custody and documentation procedures.

### E. <u>Completeness</u>

Completeness is a measure of the number of valid measurements in a data set compared to the total number of measurements made and overall performance against DQIs. The following information is assessed for completeness:

- Chain-of-custody forms;
- Sample receipt form;
- All sample results reported;
- All blank data reported;



<sup>&</sup>lt;sup>17</sup> US EPA, (1994). SW-846: Test Methods for Evaluating Solid Waste, Physical/Chemical Methods. (US EPA SW-846)

<sup>&</sup>lt;sup>18</sup> Keith., H, (1991). Environmental Sampling and Analysis, A Practical Guide



- All laboratory duplicate and RPDs calculated;
- All surrogate spike data reported;
- All matrix spike and lab control spike (LCS) data reported and RPDs calculated;
- Spike recovery acceptable limits reported; and
- NATA stamp on reports.

#### F. <u>Comparability</u>

Comparability is the evaluation of the similarity of conditions (e.g. sample depth, sample homogeneity) under which separate sets of data are produced. Data comparability checks include a bias assessment that may arise from the following sources:

- Collection and analysis of samples by different personnel; Use of different techniques;
- Collection and analysis by the same personnel using the same methods but at different times; and
- Spatial and temporal changes (due to environmental dynamics).

#### G. Blanks

The purpose of laboratory and field blanks is to check for artefacts and interferences that may arise during sampling, transport and analysis.

#### H. Matrix Spikes

Samples are spiked with laboratory grade standards to detect interactive effects between the sample matrix and the analytes being measured. Matrix Spikes are reported as a percent recovery and are prepared for 1 in every 20 samples. Sample batches that contain less than 20 samples may be reported with a Matrix Spike from another batch. The percent recovery is calculated using the formula below. Acceptable recovery limits are 70% to 130%.

(Spike Sample Result – Sample Result) x 100 Concentration of Spike Added

#### I. Surrogate Spikes

Samples are spiked with a known concentration of compounds that are chemically related to the analyte being investigated but unlikely to be detected in the environment. The purpose of the Surrogate Spikes is to check the accuracy of the analytical technique. Surrogate Spikes are reported as percent recovery.

## J. <u>Duplicates</u>

Laboratory duplicates measure precision, expressed as Relative Percent Difference. Duplicates are prepared from a single field sample and analysed as two separate extraction procedures in the laboratory. The RPD is calculated using the formula where D1 is the sample concentration and D2 is the duplicate sample concentration:

 $\frac{(D1 - D2) \times 100}{\{(D1 + D2)/2\}}$ 



Appendix G: Data (QA/QC) Evaluation



# Data (QA/QC) Evaluation

## A. <u>INTRODUCTION</u>

This Data (QA/QC) Evaluation forms part of the validation process for the DQOs documented in Section 6.1 of this report. Checks were made to assess the data in terms of precision, accuracy, representativeness, comparability and completeness. These 'PARCC' parameters are referred to collectively as DQIs and are defined in the Report Explanatory Notes attached in the report appendices.

## 1. Field and Laboratory Considerations

The quality of the analytical data produced for this project has been considered in relation to the following:

- Sample collection, storage, transport and analysis;
- Laboratory PQLs;
- Field QA/QC results; and
- Laboratory QA/QC results.

## 2. Field QA/QC Samples and Analysis

A summary of the field QA/QC samples collected and analysed for this investigation is provided in the following table:

| Sample Type                          | Sample Identification                | Frequency (of Sample Type)   | Analysis Performed                                |
|--------------------------------------|--------------------------------------|--|---|
| Intra-laboratory<br>duplicate (soil) | SDUP1 (primary sample<br>BH1 0-0.1m) | Approximately 7% of primary samples  | Heavy metals, TRH/BTEX, PAHs, OCPs, OPPs and PCBs |
| Inter-laboratory duplicate (soil)    | SDUP2 (primary sample<br>TP2 0-0.1m) | Approximately 7% of primary samples  | Heavy metals, TRH/BTEX, PAHs, OCPs, OPPs and PCBs |
| Trip spike (soil)                    | TS-S1 (1/6/22)                       | One for the investigation to demonstrate adequacy of preservation, storage and transport methods | BTEX  |
| Filed blank (soil)                   | TB-S1 (1/6/22)                       | One for the investigation to demonstrate adequacy of storage and transport methods               | BTEX  |
| Rinsate (soil SPT)                   | FR-S1-SPT (3/6/22)                   | One for the investigation to demonstrate adequacy of decontamination methods                     | BTEX  |

The results for the field QA/QC samples are detailed in the laboratory summary tables (Table S9) attached to the investigation report and are discussed in the subsequent sections of this Data (QA/QC) Evaluation report.



#### 3. Data Assessment Criteria

JKE adopted the following criteria for assessing the field and laboratory QA/QC analytical results:

#### **Field Duplicates**

Acceptable targets for precision of field duplicates in this report will be 30% or less, consistent with NEPM (2013). RPD failures will be considered qualitatively on a case-by-case basis taking into account factors such as the concentrations used to calculate the RPD (i.e. RPD exceedance where concentrations are close to the PQL are typically not as significant as those where concentrations are reported at least five or 10 times the PQL), sample type, collection methods and the specific analyte where the RPD exceedance was reported.

#### Field/Trip Blanks and Rinsates

Acceptable targets for field blank and rinsate samples in this report will be less than the PQL for organic analytes.

#### Trip Spikes

Acceptable targets for trip spike samples in this report will be 70% to 130%.

## Laboratory QA/QC

The suitability of the laboratory data is assessed against the laboratory QA/QC criteria which is outlined in the laboratory reports. These criteria were developed and implemented in accordance with the laboratory's NATA accreditation and align with the acceptable limits for QA/QC samples as outlined in NEPM (2013) and other relevant guidelines.

A summary of the acceptable limits adopted by the primary laboratory (Envirolab) is provided below:

## RPDs

- Results that are <5 times the PQL, any RPD is acceptable; and
- Results >5 times the PQL, RPDs between 0-50% are acceptable.

#### Laboratory Control Samples (LCS) and Matrix Spikes

- 70-130% recovery acceptable for metals and inorganics;
- 60-140% recovery acceptable for organics; and
- 10-140% recovery acceptable for VOCs.

#### Surrogate Spikes

- 60-140% recovery acceptable for general organics; and
- 10-140% recovery acceptable for VOCs.

#### **Method Blanks**

All results less than PQL.



#### **B. DATA EVALUATION**

## 1. Sample Collection, Storage, Transport and Analysis

Samples were collected by trained field staff in accordance. Field sampling procedures were designed to be consistent with relevant guidelines, including NEPM (2013) and other guidelines made under the CLM Act 1997.

Appropriate sample preservation, handling and storage procedures were adopted. Laboratory analysis was undertaken within specified holding times in accordance with Schedule B(3) of NEPM (2013) and the laboratory NATA accredited methodologies.

JKE note that the temperature on receipt of soil samples was reported to be up to 10°C. JKE understand that the temperature is measured at the laboratory using an infrared temperature probe by scanning the outside of the sample container (i.e. one sample jar/container at the time of registering the samples). This procedure is not considered to be robust as there is a potential for the outside of the jar to warm to ambient temperature, or at least to increase from that of the internal contents, relatively quickly. On this basis, JKE is of the opinion that the temperatures reported on the Sample Receipts are unlikely to be reliable or representative of the overall batch. This is further supported by the trip spike recovery results (discussed further below) which reported adequate recovery in the range of 89% to 100%.

Whilst it could be argued that 11% loss of volatiles may have led to these contaminants being under-reported (i.e. the lower end of the trip spike recovery was 89%), it is noted that all BTEX results and volatile TRHs (F1 and F2) were below the PQLs and even a nominal 11% increase of TRH/BTEX concentrations in these samples would not result in exceedance of the SAC.

Envirolab noted that the asbestos results were reported to be consistent with the recommendations in NEPM (2013), however this level of reporting is outside the scope of their NATA accreditation. In the absence of other available analytical methods for asbestos, this was found to be acceptable for the purpose of this investigation.

Review of the project data also indicated that:

- COC documentation was adequately maintained;
- Sample receipt advice documentation was provided for all sample batches;
- All analytical results were reported; and
- Consistent units were used to report the analysis results.

## 2. <u>Laboratory PQLs</u>

Appropriate PQLs were adopted for the analysis and all PQLs were below the SAC.

### 3. Field QA/QC Sample Results

#### **Field Duplicates**

The results indicated that field precision was acceptable. RPD non-conformances were reported for some analytes as discussed below:

An elevated RPD was reported for TRH >C34-C40 in SDUP1/BH1 (0-0.1m);





- An elevated RPD was reported for TRH >C16-C34 in SDUP2/TP2 (0-0.1m); and
- Elevated RPDs were reported for copper, lead, mercury and nickel in SDUP2/TP2 (0-0.1m).

Values outside the acceptable limits have been attributed to results close to the PQL, or sample heterogeneity and the difficulties associated with obtaining homogenous duplicate samples of heterogeneous matrices. As both the primary and duplicate sample results were less than the SAC, the exceedances are not considered to have had an adverse impact on the data set as a whole.

#### **Trip Blanks**

During the investigation, one soil trip blank was placed in the esky during sampling and transported back to the laboratory. The results were all less than the PQLs, therefore cross contamination between samples that may have significance for data validity did not occur.

#### Rinsates

All results were below the PQL. This indicated that cross-contamination artefacts associated with sampling equipment were not present and the potential for cross-contamination to have occurred was low.

#### Trip Spikes

The results ranged from 89% to 100% and indicated that field preservation methods were appropriate.

## 4. Laboratory QA/QC

The analytical methods implemented by the laboratory were performed in accordance with their NATA accreditation and were consistent with Schedule B(3) of NEPM (2013). The frequency of data reported for the laboratory QA/QC (i.e. duplicates, spikes, blanks, LCS) was considered to be acceptable for the purpose of this investigation.

A review of the laboratory QA/QC data identified the following minor non-conformances:

- Lab report No 297823: A 500ml sample was not supplied for asbestos analysis for the sample 297823
  (TP6 0-0.1m). Therefore, a 40g sample was collected from the glass sampling jar and analysed for asbestos.
- Lab report No 297823-A:
  - CEC high spike recovery was obtained for the sample BH7 (0.15-0.3m). The sample was re-digested and re-spiked and the low recovery was confirmed. The lab indicated that this was due to matrix interference and that acceptable recovery was obtained for the LCS; and
  - → pH the sample BH7 (0.15-0.3m) was outside of the recommended holding time for pH analysis.

JKE is of the opinion that the laboratory QA non-conformances were minor and were not considered to adversely impact the overall accuracy or precision of the dataset. All laboratory duplicate and triplicate results were assessed against the SAC.





## C. <u>DATA QUALITY SUMMARY</u>

JKE is of the opinion that the data are adequately precise, accurate, representative, comparable and complete to serve as a basis for interpretation to achieve the investigation objectives.

Non-conformances were reported for some field QA/QC samples and laboratory QA/QC analysis. These non-conformances were considered to be sporadic and minor, and were not considered to be indicative of systematic sampling or analytical errors. On this basis, these non-conformances are not considered to materially impact the report findings.



**Appendix H: Guidelines and Reference Documents** 



Acid Sulfate Soils Management Advisory Committee (ASSMAC), (1998). Acid Sulfate Soils Manual

Australian and New Zealand Environment Conservation Council (ANZECC), (2000). Australian and New Zealand Guidelines for Fresh and Marine Water Quality

Canadian Council of Ministers of the Environment, (1999). Canadian soil quality guidelines for the protection of environmental and human health: Benzo(a)Pyrene (1997)

CRC Care, (2011). Technical Report No. 10 – Health screening levels for hydrocarbons in soil and groundwater Part 1: Technical development document

Contaminated Land Management Act 1997 (NSW)

Department of Land and Water Conservation, (1997). 1:25,000 Acid Sulfate Soil Risk Map Series

Managing Land Contamination, Planning Guidelines SEPP55 - Remediation of Land (1998)

National Health and Medical Research Council (NHMRC), (2021). National Water Quality Management Strategy, Australian Drinking Water Guidelines 2011

NSW Department of Environment and Conservation, (2007). Guidelines for the Assessment and Management of Groundwater Contamination

NSW EPA, (1995). Contaminated Sites Sampling Design Guidelines

NSW EPA, (2014). Waste Classification Guidelines - Part 1: Classifying Waste

NSW EPA, (2015). Guidelines on the Duty to Report Contamination under Section 60 of the CLM Act 1997

NSW EPA, (2017). Guidelines for the NSW Site Auditor Scheme, 3rd Edition

NSW EPA, (2020). Consultants Reporting on Contaminated Land, Contaminated Land Guidelines

National Environment Protection Council (NEPC), (2013). National Environmental Protection (Assessment of Site Contamination) Measure 1999 as amended (2013)

Olszowy, H., Torr, P., and Imray, P., (1995). Trace Element Concentrations in Soils from Rural and Urban Areas of Australia. Contaminated Sites Monograph Series No. 4. Department of Human Services and Health, Environment Protection Agency, and South Australian Health Commission

Protection of the Environment Operations Act 1997 (NSW)

State Environmental Planning Policy (Resilience and Hazards) 2021 (NSW)

World Health Organisation (WHO), (2008). Petroleum Products in Drinking-water, Background document for the development of WHO Guidelines for Drinking Water Quality

Western Australia Department of Health, (2021). Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia