CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN

Sydney Business Park
Stage 3 Building 2
SSD 10477

Prepared for:

Sydney Business Park
15 Hollinsworth Road
Marsden Park
NSW 2765

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BASIS OF REPORT

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DOCUMENT CONTROL

Reference	Date	Prepared	Checked	Authorised
630.30415.00000 -R01-v0.3	21 November 2022	Stephen Shoesmith	Alanna Ryan	

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1 Introduction

1.1 Development Overview

Sydney Business Park Stage 3 includes a nine-lot subdivision, the construction of two estate roads and associated infrastructure, earthworks, vegetation clearing, the construction and operation of four warehouse and distribution facilities, ancillary car parking, infrastructure provisions and landscaping (159,000m^2 total).

Sydney Business Park forms a large part of the Marsden Park Industrial Precinct, one of the key employment precincts in the Northwest Growth Centre. The site is zoned for employment purposes under *State Environmental Planning Policy (Sydney Region Growth Centres) 2006* (the Growth Centres SEPP), and is subject to a Precinct Plan under the SEPP.

The Sydney Business Park Stage 3 was approved on 28 January 2021 by the Department of Planning and Environment (DPE) under Development Consent SSD 10477. SSD 10477 has been modified on three occasions. Modification 1 was issued on 20 August 2021 changing the design and layout of Warehouse 1. Modification 2 was issued on 9 February 2022 amending condition B5(c) regarding the issue of a Works Authorisation Deed (WAD) with Traffic for NSW (TfNSW) prior to the issue of Construction Certificates for the warehouses. Modification 3 was approved on 18 November 2022 for amendments to the Warehouse 2 building façade, internal and external layout changes and addition of night-time heavy vehicle movements.

The construction of Warehouse 2, with a total building area of 16,836m^2, is for the operation of Device Technologies key features/aspects include:

- Warehouse used for storage and distribution of a range of medical equipment, including some dangerous goods. The dangerous goods the proposed dangerous goods storage would not exceed the screening thresholds of SEPP 33. The warehouse will be majority ambient-temperature facilities, and include standard racking and associated warehouse facilities; The warehouse also includes temperature-controlled storage rooms, technical services areas, reverse logistics (returns) workshop, medical gases storage and manual handling equipment (MHE) charging bays
- Two-storey ancillary office facing the road frontages;
- Capacity for 125 employees;
- 300-kilowatt rooftop photovoltaic solar system and 75kL rainwater harvesting tank;
- 155 car parking spaces;
- Truck access will be provided from Carnaby Street and egress provided via Hollinsworth Road, with trucks circulating in a clockwise direction around the facility site. Approximately 30 metres of queuing space will be provided between the street entrance and the security gates to ensure that trucks do not queue on the public road network. The facility has been designed to accommodate truck sizes up to and including 25m B-double vehicles;
- Passenger vehicle access/egress to the main car park will be provided via a driveway on Hollinsworth Road. Additional parking spaces will be provided for warehouse staff adjacent to the loading docks; and

- Site landscaping works to the street frontages and other boundaries, in carparking areas, and within the central portion of the TransGrid easement that traverses through Warehouse 2 and Warehouse 4 sites. Landscaped outdoor staff communal areas will also be provided adjacent to the ancillary office areas for each facility.

This Construction Environmental Management Plan (CEMP) has been prepared to cover the construction at Warehouse 2 by Prime Constructions (see **Figure 1**).

A copy of Development Consent SSD 10477 is attached as **Appendix A**.

Figure 1 Warehouse 2 Site Layout

1.2 Construction Environmental Management Plan

This CEMP has been prepared to address the specific requirements of SSD 10477 and in consideration of the *Guideline for the Preparation of Environmental Management Plans* (Department of Infrastructure, Planning and Natural Resources 2004). As required by SSD 10477, the following have been prepared to support this CEMP for Warehouse 2:

- Construction Traffic Management Plan (CTMP);
- Community Consultation and Complaints Handling (CCHS);
- Construction Noise Management Plan (CNMP);
- Erosion and Sediment Control Plan (ESCP);
- Aboriginal Cultural Heritage Management Plan (ACHMP);
- Landscape Management Plan (LMP);
- Salinity Management Plan (SMP);
- Stormwater Management Plan (SWMP)
- Unexpected Finds Protocol (UFP)
- Waste Management Plan (WMP)

1.2.1 Scope

This CEMP has been prepared to satisfy management plan Conditions of SSD 10477. The specific requirements of these consent conditions, along with where these requirements have been addressed within this CEMP and are listed in **Table 1**.

Table 1 CEMP Context

SSD 10477 Consent Condition	CEMP Section
C1. Management plans required under this consent must be prepared in accordance with relevant guidelines, and include:	
a) Detailed baseline data;	Refer to specialist management plans
b) details of: (i) the relevant statutory requirements (including any relevant approval, licence or lease conditions); (ii) any relevant limits or performance measures and criteria; and (iii) the specific performance indicators that are proposed to be used to judge the performance of, or guide the implementation of, the development or any management measures; (iv) guide the implementation of, the development or any management measures;	(i) Section 3.3 (ii) Section 4 (iii) Refer to specialist management plans (iv) Refer to specialist management plans
c) a description of the measures to be implemented to comply with the relevant statutory requirements, limits, or performance measures and criteria;	Section 4
d) a program to monitor and report on the: (i) impacts and environmental performance of the development; and (ii) effectiveness of the management measures set out pursuant to paragraph (c)	Section 5

SSD 10477 Consent Condition	CEMP Section
above;	
e) a contingency plan to manage any unpredicted impacts and their consequences and to ensure that ongoing impacts reduce to levels below relevant impact assessment criteria as quickly as possible;	Section 5.4
f) a program to investigate and implement ways to improve the environmental performance of the development over time;	Section 6
g) a protocol for managing and reporting any: (i) incident and any non-compliance (specifically including any exceedance of the impact assessment criteria and performance criteria); (ii) complaint; (iii) failure to comply with statutory requirements; and	(i) Section 3.5 and 5.2 (ii) Section 3.6 and 5.2 (iii) Section 5.2
h) a protocol for periodic review of the plan. ***Note:*** *The Planning Secretary may waive some of these requirements if they are unnecessary or unwarranted for particular management plans*	Section 6
C2. The Applicant must prepare a Construction Environmental Management Plan (CEMP) in accordance with the requirements of condition C1 and to the satisfaction of the Planning Secretary.	This Plan
C3. As part of the CEMP required under Condition C2 of this consent, the Applicant must include the following:	
a) Construction Traffic Management Plan (see Condition B1);	Section 4.2
b) Erosion and Sediment Control Plan (see Condition B11);	Section 4.3
c) Construction Noise Management Plan (see Condition B18);	Section 4.4
d) Aboriginal Cultural Heritage Management Plan (see Condition 24)	Section 4.5
e) Unexpected Finds Protocol (see Condition B18);	Section 4.7
f) Landscape Management Plan (see Condition B46); and	Section 4.9
g) Community Consultation and Complaints Handling.	Section 3.6
C4. The Applicant must: a) not commence construction of the development until the CEMP is approved by the Planning Secretary; and b) carry out the construction of the development in accordance with the CEMP approved by the Planning Secretary and as revised and approved by the Planning Secretary from time to time.	Noted
Appendix 3. Management Plan Commitments (not listed in Part B or C):	
• Waste Management Plan – Appendix 3 (see Condition A2(e))	Section 4.8
• Salinity Management Plan – Appendix 3 (see Condition A2(e))	Section 4.3

1.2.2 Objectives

The objectives of this CEMP are to:

- Establish the framework for managing and mitigating the potential for adverse environmental impacts as a result of the construction of Warehouse 2;

- Clearly and concisely document the commitments made in the Environmental Impact Statement (EIS)(PJEP Environmental Planning, 2020), Modification Assessments (MOD1 and MOD2), Response to Submissions (RTS), and relevant management plans, that are required to be implemented during construction;
- Demonstrate to DPE how the applicant proposes to meet all of its commitments and regulatory obligations including those outlined in the Development Consent;
- Outline the controls to be implemented by the contractor in order to meet those commitments and obligations;
- Clearly and concisely document the conditions imposed by SSD 10477 that are required to be implemented and/or complied with during the construction phase; and
- Assist to establish the site in a manner that avoids (where possible) or minimises impact to the surrounding environment and populace.

1.2.3 Consultation

In accordance with SSD 10477, consultation has been undertaken with the applicable stakeholders. All evidence of consultation related to the specialist sub-plans which form part of this CEMP are summarised below and attached as **Appendix B**.

2 Development Description

2.1 Location

Warehouse 2 is located in Marsden Park, Western Sydney, within the Blacktown City Council Local Government Area (LGA). The site has frontages to an extension to Hollingsworth Road and to Carnaby Street. It is bound by an existing caravan park and an industrial development currently under construction.

2.2 Construction Staging and Activities

Construction activities are scheduled to commence in October 2022 and will likely extend until August 2023. The construction activities will be staged and are summarised in **Table 2**.

Table 2 Construction Staging

Stage	Indicative Duration
Civil works	January 2023
Establishment of site sheds and fencing	January 2023
Warehouse and office construction	January 2023 to September 2023
Warehouse and office fit out	September / October 2023

Construction activities include:

- Bulk Earthworks;
- Pouring of concrete slabs on ground and suspended slabs to the office building;
- Erection of structural steel warehouse;
- Install of civil stormwater infrastructure;
- Roofing and cladding to warehouse;
- Internal fit out of warehouse and office;
- Install of loading dock facilities and building services; and
- Building ring road, paving and landscaping.

DPE will be notified at least one month prior to commencing construction.

2.3 Construction Hours

Construction hours will be in accordance with Conditions B15 and B16 of Development Consent SSD 10477, which are reproduced below:

B15. The Applicant must comply with the hours detailed in Table 1.

***Table 1**: Hours of Work*

Activity	Day	Time
Earthworks and Construction	Monday – Friday Saturday	7 am to 6 pm 8 am to 1 pm

B16. Works outside of the hours identified in Condition B15 may be undertaken in the following circumstances:

a) works that are inaudible at the nearest sensitive receivers;

b) works agreed to in writing by the Planning Secretary;

c) for the delivery of materials required outside these hours by the NSW Police Force or other authorities for safety reasons; or

d) where it is required in an emergency to avoid the loss of lives, property or to prevent environmental harm.

The construction hours will be provided to all staff and contractors in the induction. The movements of staff and contractors will be recorded for this project.

2.4 Construction Contact Details

Table 3 lists the key contacts during the construction.

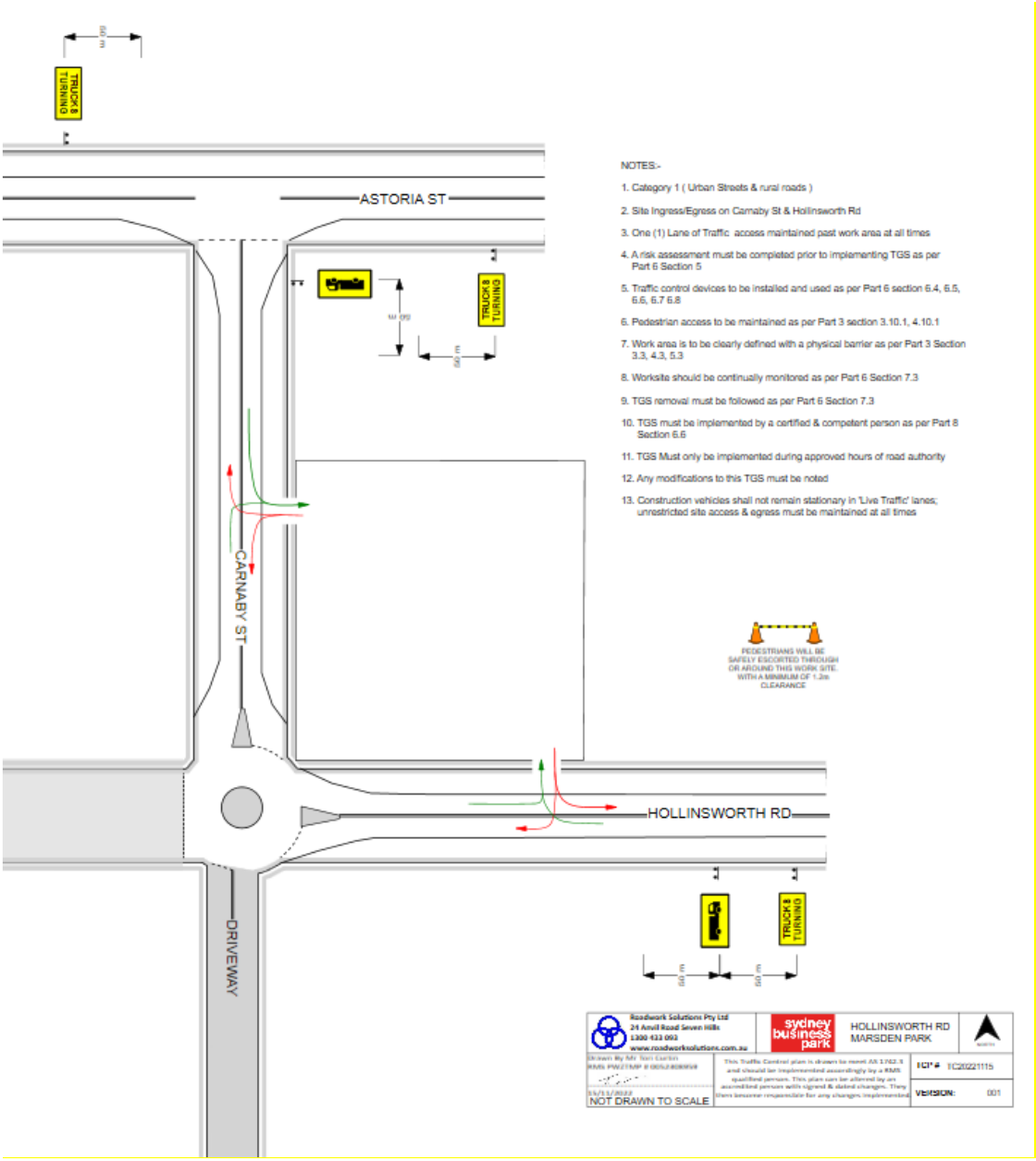
Table 3 Construction Contact List

Role	Name	Company	Contact Details
Project Manager	Myles Fowler	Prime Constructions	mfowler@primeconstruct.com.au (02) 9418 7707
Site Manager	Brian Kelley	Prime Constructions	bkelley@primeconstruct.com.au 0418 244 961

2.5 Construction Site Access

As seen in **Figure 2**, construction vehicles access the site (ingress / egress) via Hollinsworth Road and Carnaby Street and Hollinsworth Road. Contractor parking is provided Hollinsworth Road or Carnaby Street (not on site).

Figure 2 Site Access



3 Environmental Management Framework

3.1 Environmental Policy

Prime Constructions Environmental Policy (24 March 2022) is certified to AS/NZS ISO 14001:2016 Environmental Management Systems. A copy of the Environmental Policy is attached as **Appendix C**.

3.2 Roles and Responsibilities

The key personnel responsible for environmental management during construction of Warehouse 2 are listed in **Table 4**.

Table 4 Personnel Responsible for Environmental Management

Role	Responsibilities
Project Manager	• Overall responsibility for environmental management and compliance with SSD 10477 and relevant legislation; • Oversee the implementation of this CEMP and request adequate resources to enable implementation of this CEMP; • Liaise with representatives of Sydney Business Park to keep them informed of the project's progress; • Coordinate environmental inspections and reporting and authority liaisons; • Immediately Record, notify, investigate and respond to any environmental incidents and, where necessary, develop and implement corrective actions; • Be the primary daily contact to the public handling of enquiries / complaints management / interface issues; • Be available for contact by local residents and the community at all reasonable times to answer any questions; • Direct reasonable steps to be taken to avoid or minimise any unintended or adverse environmental impacts, and, failing the effectiveness of such steps, direct that the relevant actions cease immediately should an adverse impact on the environment be likely to occur; and • Provide adequate environmental inductions/training to employees and contractors regarding their requirements under this CEMP.
Site Manager	• Ensure the legislative and corporate safety, health and environment management measures and controls are implemented and maintained; • Participate in risk and hazard identification and control; • Participate in incident investigations and management; and • Participate in health and safety inspections.
All employees and contractors	• Ensure familiarity, implementation and compliance with this CEMP and appended management plans; • Demonstrate commitment to sustainability, environmental management and compliance; • Work in a manner that will not harm the environment or impact on surrounding receptors;

Role	Responsibilities
	• Report all environmental incidents and complaints to the Project Manager immediately; and • Report any inappropriate construction practices and/or environmental management practices to the Project Manager without delay.

3.3 Statutory Requirements

The detailed compliance table of consent conditions relevant to the construction of Warehouse 2 is provided in **Appendix D**.

3.4 Inductions and Environmental Training

The Project Manager will ensure that all employees and contractors involved in construction activities are appropriately inducted and trained prior to commencing work on site. Training in relation to environmental responsibilities and implementation of this CEMP will take place initially through the site induction training and then on an ongoing basis through 'toolbox talks' (or similar).

The environmental induction training will cover all elements of the CEMP and will include, as a minimum, the following:

- Purpose and objectives of the CEMP;
- Requirements of due diligence and duty of care;
- Conditions of any environmental licences, permits and approvals;
- Potential environmental emergencies on site and the emergency response procedures, locations and training in the use of emergency spill kits for spills on water and on land;
- Reporting, notification and management requirements for pollution, contamination and other environmental incidents, and for damage and maintenance to environmental controls;
- High-risk activities and associated environmental safeguards i.e. earthworks, vegetation clearing, night works, operation and maintenance of concrete washouts, and washing, refuelling and maintenance of plant and equipment;
- Working in or near environmentally sensitive areas; and
- Site-specific issues including:
- Incident management processes (see **Section 3.5**).
- Requirement to minimise disruption to traffic flow, pedestrians and cyclists; and comply with road safety and traffic management principles (see **Section 4.2**);
- Erosion and sediment controls, water quality controls and sediment basin management (see **Section 4.3**);
- Noise management controls (see **Section 4.4**);
- Responsibilities under the National Parks and Wildlife Act 1974, including the need to cease work immediately and report any object of potential Aboriginal heritage unearthed during clearing, grubbing and earthworks operations (see **Section 4.5**);
- Site Emergency Procedures (see **Sections 3.5 and 4.6**)

- Location of reuse bins, washing, refuelling and maintenance of vehicles, plant and equipment;
- Identification, reporting and management of contaminated land as per Unexpected Finds Protocol (see **Section 4.7**); and
- Waste minimisation principles (See **Section 4.8**).

Toolbox talks will be held to identify environmental issues and controls when works commence in a new area of the site or a new activity, as well as when environmental issues arise on site. The toolbox talk will include but not be limited to:

- A description of the activity and the area;
- Identification of the environmental issues and risks for the area; and
- Outline the mitigations measures for the works and the area (see **Section 4**).

All employees conducting environmental training and site staff assigning work activities will demonstrate that they are competent and appropriately trained to train and manage construction site specific environmental issues.

A register of all environmental training carried out, including dates, names of persons trained and trainer name and qualification details will be established and maintained for the duration of works.

3.5 Incident and Non-Compliance Response and Handling Procedure

For the purposes of this CEMP, SSD 10477 describes:

- an 'incident' as "an occurrence or set of circumstances that causes or threatens to cause material harm and which may or may not be or cause a non-compliance". SSD 10477 describes
- a 'non-compliance' as "an occurrence, set of circumstances or development that is a breach of the consent".
- 'material harm' as. "Is harm that:
  - A) involves actual or potential harm to the health or safety of human beings or to the environment that is not trivial, or
  - b) results in actual or potential loss or property damage of an amount, or amounts in aggregate, exceeding $10,000, (such loss includes the reasonable costs and expenses that would be incurred in taking all reasonable and practicable measures to prevent, mitigate or make good harm to the environment)".

3.5.1 Performance Objective

To ensure that any incident and/or non-compliance caused by or relating to construction activities is effectively responded to, and any resulting adverse environment and/or human health impact is promptly prevented or effectively managed.

3.5.2 Responsibility

The Project Manager is responsible for ensuring that the appropriate management response and handling procedures are instigated and carried through in the event of an incident and/or non-compliance. All employees, contractors and subcontractors are to:

- Notify the Project Manager of any hazard or potential hazard that may result in an incident and/or non-compliance, regardless of the nature or scale; and
- Take immediate action (where it is safe to do so) to prevent, stop, contain and/or minimise any adverse impact associated with an incident and/or non-compliance.

The induction and toolbox talks outlined in **Section 3.4** will be used to ensure all site employees, contractors and subcontractors are aware of and understand their obligations for incident and/or non-compliance response.

3.5.3 Notification Requirements

3.5.3.1 Incidents

In accordance with Condition C7 of SSD 10477, DPE and relevant agencies will be notified immediately after becoming aware of an incident via the Major Projects website.

Duty of an employee or any person undertaking an activity:

Any person engaged as an employee, contractor or visitor undertaking a construction activity will immediately, after becoming aware of any potential incident (even if outside of normal business hours), notify the Project Manager of the incident and all relevant information about it. The Project Manager will be available 24 hours a day, seven days a week and have the authority to stop or direct works.

Duty of an employer or occupier of the premises to notify:

The employer or occupier of the premises (in this case, the Project Manager) on which the incident occurred, who is notified (or otherwise becomes aware of) of the incident, will immediately notify the relevant authorities about the incident and all relevant information.

Relevant authority includes the following:

- The appropriate regulatory authority – the Environment Protection Authority (EPA);
- If the EPA is not the appropriate regulatory authority – the local authority for the area in which the pollution incident occurs (i.e. Council);
- NSW Public Health Unit;
- SafeWork NSW; and
- Fire and Rescue NSW.

Table 6 lists the contact details for these authorities. The person reporting the pollution incident will provide the following key details:

- Location of the pollution incident/emergency;
- Nature of the pollution incident/emergency;
- Their name and contact details; and
- Details of any required assistance.

Table 5 Regulatory Authority Contact List

Regulatory Authority / Stakeholder	Key Contact	Contact Details	
Department of Planning, and Environment (DPE)	Compliance Unit	Major Project Website	
Environment Protection Authority (EPA)	Environment Line	131 555 info@environment.nsw.gov.au	
	Head office (Sydney)	02 9995 5000	
Blacktown City Council	Main switchboard	02 9839 6000 council@blakctown.nsw.gov.au	
NSW Public Health Unit	Sydney Local Health District	Business hours: 02 9515 9600	
SafeWork NSW	Incident Notification Hotline	131 050 Select Option 1 to report a "Serious Incident or Fatality" – this will result in the incident being recorded and the appropriate person being contacted.	
Emergency Services	NSW Police NSW Fire and Rescue NSW Ambulance Service	131 444 (Police Assistance Line 24 hours, 7 days) Business hours: 02 9265 2999 Business hours: 02 9320 7777	In case of emergency – 000

In accordance with Condition C7 of SSD 10477, DPE will be notified immediately once becoming aware of an incident, via the Major Projects website, and other relevant agencies if an incident, or potential incident, causes (or may cause) harm to the environment. A detailed incident report is then to be provided to the DPE within 30 days of the incident.

3.5.3.2 Non-Compliances

In accordance with Condition C8 of SSD 10477, the DPE will be notified via the Major Projects website within seven days of becoming aware of any non-compliance.

C9 and C10 of SSD 10477 states a non-compliance notification will identify the development and the application number for it, set out the condition of consent that the development is non-compliant with, the way in which it does not comply and the reasons for the non-compliance (if known) and what actions have been, or will be, undertaken to address the non-compliance.

A non-compliance which has been notified as an incident will not subsequently be notified as a non-compliance.

3.5.4 Incidents and Non-Compliance Handling Procedure

Upon becoming aware of an incident and/or non-compliance, the procedure outlined below will be followed.

1. Preventative Action

Where possible and safe to do so, immediate action will be taken to prevent, stop, contain and/or minimise the environmental impact of the incident and/or non-compliance.

In the unlikely event that an incident and/or non-compliance requires the evacuation of the site, actions will be completed in accordance with evacuation procedures. All employees and contractors are to be made aware of the location of emergency assembly areas through site inductions, signage and regular toolbox talks.

2. Assistance

If adequate internal resources are not available and the incident and/or non-compliance threatens public health, property or the environment, it is essential that Fire and Rescue NSW be contacted by telephoning "000" for emergency assistance.

Contacting Fire and Rescue NSW does not negate the notification requirements in **Section 3.5.3**.

3. Notify

If an incident causes or threatens to cause material harm to the environment agencies noted in **Table 5** will be notified immediately after becoming aware of the incident. Initial notifications with be made in writing in accordance with Condition C7 of SSD 10477.

Condition C7 and Appendix 2 of SSD 10477 requires that the DPE and other relevant authorities be provided with a subsequent written incident notification via the Major Projects website within 7 days after the incident.

A written notification will:

- Identify the development and application number;
- Provide details of the incident (date, time, location, a brief description of what occurred and why it is classified as an incident);
- Identify how the incident was detected;
- Identify when the Applicant became aware of the incident;
- Identify any actual or potential non-compliance with conditions of consent;
- Describe what immediate steps were taken in relation to the incident;
- Identify further action(s) that will be taken in relation to the incident; and
- Identify a project contact for further communication regarding the incident.

Non-compliances will be notified in accordance with **Section 3.5.3.2**.

4. Investigate

Undertake immediate investigative work to determine the cause of the incident and/or non-compliance.

5. Remedial Action

Undertake appropriate remedial action to address the cause of the incident and/or non-compliance and mitigate any further environmental impact. In some instances, outside resources such as specialist contractors/consultants may be required.

6. Record

In accordance with Condition C7 and Appendix 2 of SSD 10477, incidents will be recorded in an Incident Report and provided to the DPE within 30 days of the incident occurring.

Detailed incident reports will include:

- A summary of the incident;
- Outcomes of an incident investigation, including identification of the cause of the incident;
- Details of the corrective and preventative actions that have been, or will be, implemented to address the incident and prevent recurrence; and
- Details of any communication with other stakeholders regarding the incident.

All non-compliances are recorded in accordance with Condition C9 of SSD 10477.

7. Preventative Action

Once the incident and/or non-compliance has been suitably handled, appropriate measures will be identified and implemented to reduce the possibility of re-occurrence.

3.5.5 Incidents and Non-Compliance Register

An Incidents and Non-Compliance Register will be maintained during construction and will contain the following:

- A copy of the environmental incident and non-compliance notification requirements and handling procedure contained above in **Section 3.5.3** and **3.5.4**;
- Site evacuation procedures;
- A separate reference sheet containing the contact details for the contacts listed in **Table 3** and the contact details for the regulatory authorities listed in **Table 6**;
- Blank hard copies of the Incident Report; and
- Copies of all completed Incident Report which are to be maintained for at least five years after the event to which they relate.

3.5.6 Minor Environmental Incidents

There is the possibility of minor environmental incidents occurring as part of this project. 'Minor Environmental Incident' may be defined as an incident where there has been no potential or actual material harm to the environment (see 'material harm' definition outlined in **Section 3.5.3**). Examples may include excessive dust impacts sighted by the project team or a small contained hydrocarbon spill that does not leave a site boundary and are cleaned up without residual on-site environmental harm.

Minor environmental incidents will still be handled under the process outlined in **Section 3.5.4** except there will be no requirement for government notification. All minor or major incidents will be recorded in the Incidents and Non-Compliance Register. A minor incident does not constitute a non-compliance with the Development Consent.

3.6 Complaints Response and Handling Procedure

3.6.1 Performance Objective

To ensure that all environmental complaints in relation to the construction activities are promptly and effectively received, handled and addressed.

3.6.2 Responsibility

The Project Manager is responsible for ensuring that the appropriate management response and handling procedures are instigated and carried through in the event of an environmental complaint. The induction and toolbox talks outlined in **Section 3.4** will be used to ensure all site employees are aware of and understand their obligations for complaints response.

All employees who take receipt of a complaint, either verbal or written, are to immediately notify the Project Manager.

3.6.3 Complaints Handling Procedure

Upon becoming aware of a complaint, the protocol outlined below will be followed.

1. Record and Acknowledge

Any employee who take receipt of a complaint, either verbal or written, are to immediately notify the Project Manager. The Project Manager will be available 24 hours a day, seven days a week and have the authority to stop or direct works. All relevant contact details are available in **Table 3**.

In the normal course of events, the first contact for complaints will usually be made in person or by telephone. The complainant's name, address and contact details, along with the nature of the complaint, will be requested. If the complainant refuses to supply the requested information, a note will be made on the form and complainant advised of this.

2. Assess and Prioritise

The Project Manager will prioritise all complaints by considering the seriousness of the complaint including risk to health and safety and will attempt to provide an immediate response via phone or email.

3. Investigate

A field investigation will be initiated in an attempt to confirm details relevant to the complaint and the cause of the problem. Any monitoring information and/or records at and around the time of the complaint will be reviewed for any abnormality or incident that may have resulted in the complaint.

If the complaint is due to an incident, the notification requirements and handling procedures outlined in **Section 3.5.3** and **3.5.4** respectively will be followed.

4. Action or Rectify

Once the cause of the complaint has been established, every possible effort will be made to undertake appropriate action to rectify the cause of the complaint and mitigate any further impact. The Project Manager will assess whether the complaint is founded or unfounded and delegate the remediation, as required.

5. Respond to Complainant

The Project Manager will oversee the rectification of the issue and respond to the complainant once the issue has been resolved. The complainant will be provided with a follow up verbal response on what action is proposed within 24 hours. Where a complaint cannot be resolved by the initial or follow-up verbal response, a written response will be provided to the complainant within ten days.

6. Record

It is imperative that an assessment of the situation is carried out and documented in order to minimise the potential for similar complaints in the future. On this basis, every complaint received is to be recorded in the Complaints Register (**Appendix E**). A copy of the Complaints Register will be maintained for at least five years. In accordance with Condition C14 of SSD 10477, the Complaints Register will be uploaded to the website 48 hours prior to commencing construction and will be updated monthly.

7. Preventative Action

Once the complaint has been suitably handled, appropriate measures will be identified and implemented to negate the possibility of re-occurrence. The Complaints Register is not finalised until the preventative actions are completed and recorded on the form.

3.6.4 Complaints Register

The Complaints Register will be updated monthly on the website and maintained onsite during construction with a copy of the following:

- The environmental complaint handling procedure contained in **Section 3.6.3**;
- A separate reference sheet containing the contact details listed in **Table 3**; and
- Hard copies of the project Complaints Register (see **Appendix E**) which is to be maintained for at least five years after the event to which it relates.

3.7 Dispute Resolution

In the event that a dispute arises between Sydney Business Park / Prime Constructions and Council or a public authority, in relation to an applicable requirement in this consent or relevant matter relating to construction activities, either party may refer the matter to the Planning Secretary for resolution. The Planning Secretary's determination of any such dispute will be final and binding on the parties.

In the case of a dispute between Sydney Business Park / Prime Constructions and a community member/complainant, either party may refer the matter to the DPE and/or relevant regulatory authority for consideration, advice and/or negotiation. If the matter escalates, a third party mediator may be required.

4 Environmental Management Commitments

Environmental aspects with the potential to be impacted through the construction activities are addressed in the following sub-sections. These issues have specific regulatory requirements imposed by SSD 10477 and/or are considered to have the highest potential to result in a non-compliance with a legislative requirement or generate community complaints. The tables in this section are a compliance management tool outlining how controls are to be implemented.

4.1 General

Table 6 lists the general environmental controls that will be implemented throughout the construction program to minimise the potential for adverse impacts on the local environmental and surrounding receptors.

Table 6 General Construction Environmental Management Controls

Environmental Management Control	Responsibility	Timing / Frequency
All reasonable and feasible measures will be implemented to prevent, and if prevention is not reasonable and feasible, minimise, any material harm to the environment that may result from construction.	Prime Constructions	Ongoing
Demolition will be carried out all in accordance with Australian Standard AS 2601-2001.	Prime Constructions	Ongoing
New buildings will be constructed in accordance with the relevant BCA requirements.	Prime Constructions	Ongoing
Construction and Occupation certificates will be provided to DPE within 7 days after the certifier accepts it, and having provided evidence to the construction of external walls complies with the requirements of the BCA	Prime Constructions	Ongoing
Construction employees and contractors will be suitably inducted and trained prior to commencing any work on site.	Prime Constructions	Prior to commencing construction and ongoing
Plant and equipment will be maintained in a proper and efficient condition and operated in a proper and efficient manner.	Prime Constructions	Ongoing
Height restrictions will be applied to cranes, elevated work platforms and any other plant and equipment operating on the easement.	Prime Constructions	Ongoing
Evidence will be provided to the Certifier that fibre-ready facilities and fixed-line telecommunications infrastructure in the fibre-ready facilities to all individual lots and/or premises in the development has been installed and an agreement reached with a service provider.	Prime Constructions	Ongoing
Relevant approvals from service providers will be obtained before the construction of any utility works.	Prime Constructions	Prior to commencing construction

Environmental Management Control	Responsibility	Timing / Frequency
The incidents and complaints management strategies contained within **Sections 3.5** and **3.6** will be implemented to ensure that any incidents and/or complaints relating to the construction activities are promptly and effectively addressed.	Prime Constructions	Ongoing
All licences, permits, certificates, approvals and consents as required by law will be obtained and maintained as required for the development.	Prime Constructions	Prior to commencing construction
The information listed in Condition C14 will be uploaded to the website at least 48 hours commencement of construction and kept up to date.	Sydney Business Park	At least 48 hours prior to commencing construction
During construction the following standard best practice techniques for managing dust will be implemented: • minimising the area of disturbance as far as practicable; • minimising drop heights for materials being worked on the site; • keeping exposed surfaces moist at all times; • rehabilitation/revegetating disturbed surfaces as soon as practicable; and • ensuring that trucks are covered and do not track sediment onto public roads	Prime Constructions	Ongoing

4.2 Traffic

A Construction Traffic Management Plan (CTMP) was prepared by Roadwork Solutions (2022) (**Appendix F**) in accordance with Condition B1 to B7 of SSD 10477.

The CTMP will be implemented to minimise traffic impacts on the surrounding road network, ensure safety and efficiency for workers, pedestrians and other road users, and provide information regarding the construction vehicle access routes and any changed road conditions.

Construction vehicles likely to travel to and from site are likely to include:

- Floats for Earthwork and Piling machines;
- Heavy and medium rigid trucks for construction spoil removal;
- Heavy and medium rigid trucks for construction material delivery ;
- Mobile cranes and concrete pumps;
- Concrete Agitators; and
- Trade vehicles.

The daily construction vehicle movements anticipated to be generated by the project's construction activities as listed above are outlined in **Table 7** below:

Table 7 Construction Vehicle Movements

Task	Duration	Vehicle movement per day
Excavation	4 weeks	25
General construction	32 weeks	25
Landscaping	4 weeks	25
Touch up	8 weeks	25

The preliminary environmental management controls in **Table 8** will be implemented to ensure road safety and network efficiency during construction.

Table 8 Traffic Construction Environmental Management Controls

Preliminary Environmental Management Control	Responsibility	Timing / Frequency
The CTMP approved by the Planning Secretary will be implemented for the duration of construction.	Prime Constructions	Ongoing
Construction travel routes will be adopted for construction traffic.	Prime Constructions	Ongoing
Site workers and contractors will park on either on Hollinsworth St or Carnaby St (not on site)	Prime Constructions	Ongoing
Heavy vehicles and bins will not be parked on local roads or footpaths in the vicinity of the site.	Prime Constructions	Ongoing
The turning areas in the car park will be kept clear of any obstacles, including parked cars, at all times.	Prime Constructions	Ongoing

Preliminary Environmental Management Control	Responsibility	Timing / Frequency
All trucks entering or leaving the site will do so in a forward direction and have their loads covered and will not track dirt onto the public road network.	Prime Constructions	Ongoing
Vehicles will be scheduled in such a manner as to not require queuing or parking on the road network surrounding the site.	Prime Constructions	Ongoing
All vehicles will be wholly contained on site before being required to stop.	Prime Constructions	Ongoing
All loading and unloading of materials will be carried out on-site within the designated loading/unloading areas and will not obstruct vehicle movements within the site.	Prime Constructions	Ongoing
Each work site will have a Traffic Control Plan (TCP) which will address traffic flow and the movement of pedestrians, cyclists and plant as per section 5 of the CTMP.	Prime Constructions	Ongoing
Pedestrian and Cyclist using the footpath fronting the Site or Work Zone are to be managed as per the approved CTMP.	Prime Constructions	As required
Signage is to be installed for clear notification of potential hazards as per the approved CTMP.	Prime Constructions	Prior to Construction and Ongoing
Barriers will be installed as required as per the approved CTMP.	Prime Constructions	As required
Appropriate Road Occupancy Licenses will be obtained and road safety and traffic management principles complied with as per the approved CTMP.	Prime Constructions	As required
Construction Workers Parking to be located as outlined in the approved CTMP.	Prime Constructions	Ongoing
Incidents will be managed, which may contribute to congestion, aggravate the free flow of traffic, or threaten the wellbeing of any road user within the Project boundaries.	Prime Constructions	Ongoing
Blacktown City Council and Transport for NSW (TfNSW) events calendar will be considered when programming this work.	Prime Constructions	Ongoing
No public transport services or networks will be affected by works.	Prime Constructions	Ongoing
All surrounding property access will be maintained wherever possible. Any restrictions to property access will be extensively communicated to stakeholders prior to works commencing.	Prime Constructions	Ongoing
There will be minimal impact on emergency vehicles. Emergency Services will be provided advance notice of any changes via the site management team and email updates.	Prime Constructions	Ongoing
The use of an inspection checklist will be implemented to monitor the effectiveness of the traffic control measures in place, with traffic control safety inspections occurring as the approved CTMP.	Prime Constructions	Ongoing
All street trees and trees on private property will be retained and protected during demolition and construction works as the approved CTMP.	Prime Constructions	Ongoing

Preliminary Environmental Management Control	Responsibility	Timing / Frequency
Traffic Control Plan/Traffic Guidance Scheme will be implemented as per the figures the approved CTMP.	Prime Constructions	Ongoing
All drivers will adhere to the Driver Code of Conduct outlined in the approved CTMP.	Prime Constructions	Ongoing

4.3 Soil and Water

An Erosion and Sediment Control Plan (ESCP) (Costin Roe Consulting 2022) (**Appendix G**) has been prepared for implementation in accordance with Condition B11 and B12 of SSD 10477.

The ESCP seeks to minimise soil and water impacts on the surrounding land and water ways, ensure soils are stabilised and runoff is managed.

The preliminary environmental management controls in **Table 9** will be implemented to manage soil and water during construction.

Table 9 Soil and Water Construction Environmental Management Controls

Preliminary Environmental Management Control	Responsibility	Timing / Frequency
Suitable erosion and sediment control measures will be installed and maintained on-site, in accordance with the relevant requirements of the *Managing Urban Stormwater: Soils and Construction - Volume 1: Blue Book* (Landcom 2004) guideline and the ESCP.	Prime Constructions	Prior to commencing construction and ongoing
Works will be in accordance with the salinity management measures in the Salinity Assessment and Management Plan (Douglas Partners 2020) (**Appendix H**).	Prime Constructions	Prior to commencing construction and ongoing
Works will be in accordance with the stormwater management measures in the Stormwater Management and Servicing Report (Douglas Partners 2021) (**Appendix I**);		
Suitable salinity management controls will be installed and maintained in accordance with the approved and include (Douglas Partners, 2020), applicable Australian Standards including AS2159, AS3600 and AS4058, and the Department's Building in a Saline Environment Guideline	Prime Constructions	Prior to commencing construction and ongoing
Construction works will not commence on site until the temporary sediment basin in the Basin A area has been commissioned.	Prime Constructions	Prior to Construction
A stormwater management plan will be prepared in consultation with Council prior to the commencement of construction	Prime Constructions	Prior to Construction
All dimensions to be checked on site by the contractor prior to construction.	Prime Constructions	Prior to Construction
Sediment fencing will be installed as per ESCP along the full eastern boundary as well as most of the northern boundary.	Prime Constructions	Prior to commencing construction and ongoing
Straw bales will be installed as per ESCP along the western boundary.	Prime Constructions	Prior to commencing construction and ongoing
Pit inlet filters (geotextile or mesh and gravel) will be installed as per ESCP.	Prime Constructions	Prior to commencing construction and ongoing
Stabilised site access will be located as indicated on the ESCP.	Prime Constructions	Prior to commencing construction and ongoing

4.4 Noise

A Construction Noise Management Plan (CNMP) (Acoustic Logic 2022) (**Appendix J**) has been prepared for implementation in accordance with Condition B15 to B19 of SSD 10477.

The CNMP seeks to minimise noise impacts on the surrounding land holders.

Table 10 outlines the summarised Noise Management Levels (NMLs) to be adhered to during construction.

Table 10 Summarised Noise Management Levels

Location	Day	Time	Noise Management Level dB(A)Leq, 15 mins	Highly Affected Noise Management Level dB(A)Leq, 15 mins
Residential Receivers R5, R7, R8	Monday to Friday	7am-6pm	45*	75*
	Saturday	8am-1pm	45*	
Industrial Premises R1, R2, R3, R4, R6	When in use	When in use	75 externally*	N/A*

* As adopted for the Sydney Business Park, in consideration of the Interim Construction Noise Guideline (DECC, 2009) and adopted for Warehouse 1 CNMP (Acoustic Logic 2021).

The environmental management controls in **Table 11** will be implemented to minimise the potential for adverse noise emissions during construction.

Table 11 Noise Construction Environmental Management Controls

Preliminary Environmental Management Control	Responsibility	Timing / Frequency
Construction will only be undertaken during the hours specified in SSD 10477.	Prime Constructions	Ongoing
Construction activities will be conducted to achieve the construction noise management levels detailed in the *Interim Construction Noise Guideline* (Department of Environment and Climate Change 2009) (as may be updated or replaced from time to time).	Prime Constructions	Ongoing
All feasible and reasonable noise mitigation measures will be implemented and any activities that could exceed the construction noise management levels will be identified and managed.	Prime Constructions	Ongoing
The CNMP approved by the Planning Secretary will be implemented for the duration of construction.	Prime Constructions	Ongoing
		Ongoing and as required
Procedures for undertaking activities outside permitted hours of construction will be developed and implemented	Prime Constructions	

4.5 Aboriginal Heritage

An Aboriginal Cultural Heritage Management Plan (ACHMP) has been prepared (PJEP Environmental Planning 2021) (Appendix K) for implementation in accordance with Conditions B24 and 25 of SSD 10477.

The ACHMP seeks to avoid impacts to aboriginal heritage on land subject to construction activities.

The preliminary environmental management controls in **Table 12** will be implemented to protect and manage potential impacts to Aboriginal sites and objects located within the project area during construction.

Table 12 Aboriginal Heritage Management Controls

Preliminary Environmental Management Control	Responsibility	Timing / Frequency
The ACHMP approved by the Planning Secretary will be implemented for the duration of construction.	Prime Constructions	Prior to commencement and ongoing
If any item or object of Aboriginal heritage significance is identified on site: • All work in the immediate vicinity of the suspected Aboriginal item or object will cease immediately; • A 10 m wide buffer area around the suspected item or object will be cordoned off; and • The Environment and Heritage Group within the Department of Planning and Environment will be contacted immediately.	Prime Constructions	Prior to commencement and ongoing
Work in the immediate vicinity of the Aboriginal item will only recommence in accordance with the provisions of Part 6 of the *National Parks and Wildlife Act 1974*.	Prime Constructions	Prior to commencement and ongoing
Procedures for the management and conservation of Aboriginal heritage in relation to construction activities will be developed and implemented.	Prime Constructions	Ongoing
Procedures for managing human remains will be developed and implemented.	Prime Constructions	As required
Procedures for handling unexpected Aboriginal objects will be developed and implemented	Prime Constructions	As required

4.6 Fire Safety and Emergency

A Bushfire Assessment was prepared by Ecological Australia (2020) as part of the EIS for SSD 10477. A copy of the Bushfire Assessment is available in DPE's Major Project Website.

The preliminary environmental controls that will be implemented to minimise the potential for environmental incidents relating to fire are presented in **Table 13**.

Table 13 Environmental Management Controls

Preliminary Environmental Management Control	Responsibility	Timing / Frequency
In the event of emergency, the contact details in **Table 6** will be contacted.	Prime Constructions	In the event of an emergency
Cutting, welding, grinding or other activities likely to generate fires will not be undertaken in the open on days when a total fire ban is proclaimed, unless an exemption is granted by the relevant Fire Service.	Prime Constructions	Ongoing
When there is a risk of fire being caused by work such as welding, thermal or oxygen cutting, heating or other fire producing or spark producing operations or when burning off is proposed, training will be provided to all personnel in fire prevention, fire safety and basic firefighting skills.	Prime Constructions	Ongoing
Appropriate firefighting equipment will be provided as required for the safety of persons and property.	Prime Constructions	Prior to commencing construction and ongoing
Emergency vehicle access to and from the Site will be available at all times during construction.	Prime Constructions	Ongoing
Fire extinguishers will be located at work locations where hot work is being undertaken or flammable gases are stored.	Prime Constructions	Ongoing
Waste material will not be burnt on site and no fires of any kind will be lit on site.	Prime Constructions	Ongoing
The Site Emergency Details will be displayed on site	Prime Constructions	Prior to commencing construction and ongoing

4.7 Hazardous Goods and Contamination

An Unexpected Finds Protocol (UFP) in relation to contamination has been prepared (Douglas Partners 2022) (**Appendix L**) and will implemented in accordance with Conditions B32 to B35 of SSD 10477.

The preliminary environmental controls that will be implemented to minimise the potential for environmental incidents relating to the hazardous goods and emergency are presented in **Table 14**.

Table 14 Hazardous Goods and Contamination Construction Environmental Management Controls

Preliminary Environmental Management Control	Responsibility	Timing / Frequency
Dangerous goods will be stored and handled strictly in accordance with all relevant Australian Standards and the *Environment Protection Manual for Authorised Officers: Bunding and Spill Management – technical bulletin* (EPA 1997).	Prime Constructions	Ongoing
A minimum bund volume of 110% of the volume of the largest single stored volume of dangerous goods is required for handling/storing of liquids.	Prime Constructions	Ongoing
All chemicals, fuels and oils used on-site will be stored in appropriately bunded areas in accordance with all relevant Australian Standards, and/or EPA's *Storing and Handling of Liquids: Environmental Protection – Participants Manual* (Department of Environment and Climate Change, 2007).	Prime Constructions	Ongoing
The Unexpected Finds Protocol approved by the Planning Secretary will be implemented for the duration of construction.	Prime Constructions	Ongoing
Any asbestos encountered during the remediation and construction works will be monitored, handled, transported and disposed of by appropriately qualified and licensed contractors in accordance with the requirements of SafeWork NSW and relevant guideline.	Prime Constructions	Ongoing
If unexpected conditions with respect to contamination are encountered during the earthworks (such as fragments of suspected ACM, buried structures or unexpected contaminated soil or contaminants), the Unexpected Finds Protocol as per Section 2 will be adopted.	Prime Constructions	As required
The Project Manager will be notified of any suspected or potential contamination exposed during construction activities and cease all work activities within the vicinity of actual or suspected contaminated land.	Employees / Contractors	Immediately
Emergency spill kits will be kept on site at all points of transfer for fuels and hydrocarbons, and at all other locations deemed necessary.	Prime Constructions	Ongoing
Safety Data Sheets (SDS) will be kept in the Site office and/or safety system for any potentially hazardous goods stored and/or used on site.	Prime Constructions	Ongoing
The actions specified on the respective SDS will be implemented in the event of a minor chemical or fuel spill.	Prime Constructions	Ongoing
All employees and contractors required to use potentially dangerous goods will be appropriate trained in the proper storage, use and handling.	Prime Constructions	Prior to commencing construction

4.8 Waste

A Waste Management Plan has been prepared (Prime Construction 2022) (**Appendix M**) and will be implemented, consistent with the commitments within Conditions B37 – B39 and Appendix 3 of SSD 10477.

Table 15 lists the environmental controls that will be implemented to minimise the potential for adverse impacts as a result of waste generated during construction activities.

Table 15 Waste Construction Environmental Management Controls

Preliminary Environmental Management Control	Responsibility	Timing / Frequency
Suitable measures will be implemented to manage pests, vermin and declared priority weeds.	Prime Constructions	Ongoing
Suitable measures will be implemented to manage pests, vermin and declared priority weeds.	Prime Constructions	Ongoing
The site will be inspected on a regular basis to ensure that these measures are working effectively, and that pests, vermin or priority weeds are not present on site in sufficient numbers to pose an environmental hazard, or cause the loss of amenity in the surrounding area.	Prime Constructions	Ongoing
Agreement will be obtained from Council for the design of the waste storage area.	Prime Constructions	Prior to construction
Waste will be secured and maintained within designated waste storage areas at all times and will not leave the site onto neighbouring public or private properties.	Prime Constructions	Ongoing
All waste materials removed from the site will only be directed to a licensed waste management facility or premises lawfully permitted to accept the materials.	Prime Constructions	
All liquid and non-liquid wastes will be assessed and classified to be taken off site in accordance with the latest version of EPA's *Waste Classification Guidelines Part 1: Classifying Waste* (EPA, 2014) and dispose of all wastes to a licensed facility that may lawfully accept the waste.	Prime Constructions	Prior to removing waste from site
Waste generated outside the site will not be received at the site for storage, treatment, processing, reprocessing, or disposal.	Prime Constructions	Ongoing
No waste will be buried on site.	Prime Constructions	Ongoing
A Waste Management Register will be recorded and maintained, and will include: • Type of waste and its classification (according to the POEO Act and Waste Classification Guidelines); • Quantities of waste, measured in tonnes; • How and where the waste was reused, recycled, stockpiled or disposed of; • Date when the waste was reused, recycled, stockpiled or disposed of; and • Name and waste transport licence (if applicable) of the transporter used.	Prime Constructions	Ongoing

4.9 Landscaping and Visual Amenity

A Landscape Management Plan (LMP) has been prepared (Coco Design Landscape 2022) (**Appendix N**) and will be implemented in accordance with Condition B46 of SSD 10477 and in consideration of the Landscape Street Tree Plan was prepared by Site Image (2021).

Table 16 outlines the control measures that will be implemented during construction to manage any potential impacts to landscaping and visual amenity.

Table 16 Landscaping and Visual Amenity Construction Environmental Management Controls

Environmental Management Control	Responsibility	Timing / Frequency
The Landscape Management Plan approved by the Planning Secretary will be implemented for the duration of construction.	Prime Constructions	Ongoing
Lighting will comply with the latest version of *AS 4282-2019 - Control of Obtrusive Effects of Outdoor Lighting.*	Prime Constructions	Ongoing
Lighting will be mounted, screened and directed so that it does not create a nuisance to surrounding properties or the public road network.	Prime Constructions	Ongoing
All signage and fencing will be erected in accordance with the development plans included in the RTS.	Prime Constructions	Ongoing
Plants will be selected for planting as per the approved of the Landscape Management Plan.	Prime Constructions	Ongoing and as required
The carpark landscaping will provide shade amenity greater than 1 tree per 9 carparks.	Prime Constructions	Ongoing and as required
The Communal Open Space on level 2 will be shaded as per the approved Landscape Management Plan.	Prime Constructions	Ongoing and as required
Plants will be established and maintained as per the approved Landscape Management Plan.	Prime Constructions	Ongoing and as required
Street Trees will be planted as per the Landscape Street Tree Plan	Prime Constructions	As required

4.10 Biodiversity

A Biodiversity Review has been completed (Ecological 2020) (**Appendix O**).

Table 16 outlines the preliminary control measures that will be implemented during construction to manage any potential impacts to landscaping and visual amenity.

Table 17 Landscaping and Visual Amenity Construction Environmental Management Controls

Environmental Management Control	Responsibility	Timing / Frequency
Strategies for for pre-construction, construction and post-construction activities, including pre-clearing measures; will be implemented	Mulgoa Quarries	Ongoing
A fauna rescue and release procedure will be developed and implemented, in accordance with the Departments' Code of practice for injured, sick and orphaned protected fauna;	Mulgoa Quarries	Ongoing
Measures to manage weeds will be implemented	Mulgoa Quarries	Ongoing
Resources including topsoil, tree hollows, hollow logs, coarse woody debris and bush rock will be salvaged and resused	Mulgoa Quarries	Ongoing
Tree hollows will be salvaged and nest boxes installed for hollows not able to be salvaged	Mulgoa Quarries	Ongoing
Procedures will be implemented for dealing with any unexpected threatened species finds, including provisions to stop work work, notification and communication and specialist advice and relocation protocols.	Mulgoa Quarries	Ongoing

5 Monitoring and Reporting

5.1 Environmental Monitoring and Inspections

Table 18 summarises the monitoring and inspection requirements during construction.

Table 18 Monitoring and Inspection Requirements

Preliminary Monitoring and Inspections Events	Responsibility	Timing / Frequency
General environmental inspections will be undertaken	Prime Constructions	Weekly
Meteorological data including rainfall will be monitored	Prime Constructions	Daily
Monitor construction vehicle movement activities against activities outlined in the report	Prime Constructions	Daily
Monitor the need for Traffic Control Plans at each work site.	Prime Constructions	Ongoing
Monitor the effectiveness of control measures using the inspection checklist.	Prime Constructions	At least Monthly
Monitor driver compliance with drive code of conduct	Prime Constructions	Ongoing
Any material transported onto road surfaces to be removed.	Prime Constructions	Daily and before rainfall
Stabilised site access, sediment fences, pit inlet filters and straw bales to be monitored for effectiveness	Prime Constructions	Ongoing and following extreme rainfall events
Ongoing complaints of excessive noise, vibration or dust will be immediately investigated and the required changes in work practices identified	Prime Constructions	As required
Compliance with activities permitted outside hours of construction will be monitored	Prime Constructions	Daily
Implementation of noise management practices as per the approved CNMP	Prime Constructions	Ongoing
Testing of the Emergency Management Plan, including potential Task Specific Emergencies, and emergency equipment	Prime Constructions	Within 1 month and then maximum 3 monthly intervals
Perform Site Inspections to ensure emergency preparedness and response procedures and equipment remain suitable	Prime Constructions	Weekly
A final inspection shall be made by the Project Manager, Landscape Contractor and Landscape Architect before the completion of the Plant Establishment Maintenance Period (Defects Liability Period)	Project Manager, Landscape Contractor, and Landscape Architect	Before the completion of the Plant Establishment Maintenance Period

5.2 Reporting

Table 19 summarises the reporting requirements during construction.

Table 19 Reporting Requirements

Reporting Requirement	Responsibility	Timing / Frequency
Once becoming aware of an incident, DPE will be notified via the Major Projects website, and other relevant agencies if an incident, or potential incident, causes (or may cause) harm to the environment.	Prime Constructions	Immediately
A written incident notification addressing the requirements set out in Appendix 4 of SSD 10477 will be submitted to the DPE via the Major Projects website within seven days after becoming aware of an incident	Prime Constructions	7 Days (following incident)
A detailed report will be prepared and submitted to DPE and other agencies within 30 days of the date of becoming aware of an incident, addressing the requirements set out in Appendix 4 of SSD 10477	Prime Constructions	30 Days (following incident)
DPE will be notified of a non-compliance via the Major Projects website within seven days of becoming aware of any non-compliance.	Prime Constructions	Within 7 days
A register of all complaints, incidents and non-compliances will be kept.	Prime Constructions	For at least 5 years after completion
Environmental performance will be discussed and recorded during regular management meetings and/or 'toolbox talks'. Items to be discussed include: • Results of any monitoring activities undertaken; • Any environmental incidents that have occurred during the previous period, including the management / corrective actions taken; • Any complaints that have been received during the previous period, including any management / corrective actions taken.	Prime Constructions	Weekly

Reporting Requirement	Responsibility	Timing / Frequency
A copy of all environmental records will be maintained, including: • Site environmental inspection reports; • Environmental monitoring data; • Internal and external audit reports; • Reports of environmental incidents, environmental, associated actions taken, and follow-up actions; • Minutes of management review meetings; and • Induction and training records.	Prime Constructions	For at least 5 years after completion
Noise complaints will be recorded in accordance with the requirements listed in Section 4.6	Prime Constructions	Ongoing
The Project Manager will be immediately notified in the event that suspected Aboriginal Objects or Human Remains are uncovered.	Employees / Contractors	Immediately
A Waste Management Register will be recorded and maintained, and will include: • Type of waste and its classification (according to the POEO Act and Waste Classification Guidelines); • Quantities of waste, measured in tonnes; • How and where the waste was reused, recycled, stockpiled or disposed of; • Date when the waste was reused, recycled, stockpiled or disposed of; and • Name and waste transport licence (if applicable) of the transporter used.	Prime Constructions	Ongoing
If unexpected conditions with respect to contamination are encountered by during construction (such as fragments of suspected ACM, buried structures or unexpected contaminated soil or contaminants) the Site Manager will be notified.	Employees / Contractors	Immediately
The Site Manager is to contact the Principal's Representative (PR), and the PR is to notify the Environmental Consultant.	Site Manager / Sydney Business Park's Principle Representative	Immediately
Details of any incidents are to be recorded in the site record system.	Employees / Contractors	As required
In the event of unexpected conditions with respect to contamination, the Environmental Consultant will prepare a report detailing their assessment, including the extent and methods of remediation.	Environmental Consultant	As required
A Maintenance Logbook will record when and what maintenance work has been done and what materials, including chemical materials, have been used.	Landscape Contractors	Ongoing

5.3 Audits

Table 20 summarises the Audit requirements for construction activities.

Table 20 Audit Requirements

Reporting Requirement	Responsibility	Timing / Frequency	References / Notes
A project audit will be undertaken to ensure all aspects of the CEMP are implemented.	Prime Constructions	Monthly	Best practice

5.4 Contingency Management Plan

Table 21 lists the actions to be implemented if inspections, monitoring and/or auditing indicate that the mitigation measures listed in **Section 4** and the specialist management plans are not effective in managing environmental impacts.

All Condition Amber and Condition Red occurrences will be recorded and discussed during the toolbox talks.

Table 21 Contingency Management Plan

Key Element	Trigger / Response	Condition Green	Condition Amber	Condition Red
Noise and Vibration				
Noise impacts at sensitive receiver locations	Trigger	Noise levels do not exceed applicable NMLs	Noise levels exceed applicable NMLs	Noise levels exceed Highly Noise Affected criteria (75 dBA)
	Response	On-going best practice management measures to minimise noise emissions	Undertake all feasible and reasonable mitigation and management measures to minimise noise impacts (aiming to achieve NMLs)	Works exceeding the Highly Noise Affected criteria will be managed in accordance with the strategies for high-noise generating works determined through community consultation.
Vibration impacts at sensitive receiver locations	Trigger	Vibration intensive works undertaken outside minimum working distance for the specific equipment in use	Vibration intensive works undertaken within minimum working distance for the specific equipment in use	Vibration levels exceed applicable vibration limits
	Response	On-going best practice management measures to minimise vibration emissions	Undertake vibration monitoring for the duration of the works to confirm vibration levels.	Stop work. Undertake all feasible and reasonable mitigation and management measures to ensure vibration levels are below applicable limits. If vibration levels cannot be kept below applicable limits then a different construction method or equipment must be utilised.

Key Element	Trigger / Response	Condition Green	Condition Amber	Condition Red
Air Quality				
Visible dust leaving the site	Trigger	Daily inspections show that there is no visible dust leaving the site.	Daily inspections show that there is visible dust leaving the site.	Daily inspections show that there is visible dust leaving the site multiple times during a day OR from multiple locations within the site.
	Response	Continue monitoring program as normal.	Review and investigate construction activities and respective control measures. Where appropriate, implement additional remedial measures, such as: • *Deployment of additional water sprays, water trucks etc*	Undertake an investigation of the dust generating activities, and if necessary, temporarily halt the dust generating activities
Intense Meteorological Conditions	Trigger	Normal Meteorological Conditions	Forecast winds greater than 5 m/s and dry conditions.	Forecast winds greater than 10 m/s and dry conditions.
	Response	Continue monitoring program as normal.	• Limit the activities that generate dust within 200 m of downwind sensitive activities. • Additional visual inspection of exposed areas and activities. • Assess the need for additional controls such as increased water application rates.	Stop activities that generate dust up to 200 m downwind of the construction activities, until wind eases.

Key Element	Trigger / Response	Condition Green	Condition Amber	Condition Red
Complaints received regarding nuisance dust	Trigger	There are no complaints received during the construction	An air-quality related complaint is received from a nearby resident	Further complaints (more than 2) are received from the same complainant after the additional mitigation measures have been implemented
	Response	Continue monitoring program as normal.	• Report the complaint to the regulator, in line with complaints handling procedure (See Section 3.6). • Review timing of the complaint compared to known site activities to identify if particular site activities (or lack of activity in the case of mitigation measures) are contributing to the complaints. • Review and investigate construction activities and increase dust suppression measures (additional watering, covering stockpiles etc), where appropriate.	• Review monitoring data from the existing monitors to investigate the likelihood of onsite activities contributing. • The investigation should take into account (but not limited to) regional dust/particulate data, prevailing wind data on the day/time of complaints, onsite activities at the time of complaints and offsite activities at the time of complaints. • Conduct real time air quality monitoring at the complaint location (or as near as practicable) including meteorology if required. This monitoring should be conducted in consultation with a suitably qualified air quality professional. • Identify the following from any monitoring conducted: • Monitoring method; • Location, frequency and duration of monitoring; • Assessment against compliance with criteria identified in the CAQMP; and • Recommendations for further mitigation

Key Element	Trigger / Response	Condition Green	Condition Amber	Condition Red
Traffic				
Construction movements	Trigger	Construction traffic volume is in accordance with permissible and programmed volume and time constraints.	Construction traffic volumes exceeds programmed volume but is within permissible volume constraints.	Construction traffic volumes exceeds permissible volume and time constraints.
	Response	No response required. Continue monitoring program.	Review and investigate construction activities, and where appropriate, implement additional remediation measures such as: • Review CTMP and update where necessary • Provide additional training	As with Condition Amber, plus; • If it is concluded that construction activities were directly responsible for the exceedance, submit an incident report to government agencies. • Stop all transportation into and out of the site.
Construction movements	Trigger	No construction vehicle movement during peak periods	Construction vehicle movement close to peak periods	Construction vehicle movement during peak periods
	Response	No response required. Continue monitoring program.	Review and investigate construction activities, and where appropriate, implement additional remediation measures such as: • Provide additional training (including toolbox talks and further notification of Driver Code of Conduct).	As with Condition Amber, plus; • If it is concluded that construction activities were directly responsible for the exceedance, submit an incident report to government agencies. • Stop all transportation into and out of the site. • Review CTMP and update where necessary.

Key Element	Trigger / Response	Condition Green	Condition Amber	Condition Red
Queuing	Trigger	No queuing identified.	Queuing identified within site.	Queuing identified on the public road.
	Response	No response required. Continue monitoring program.	Review the delivery schedule prepared by the builder. If drivers are not following the correct schedule, then they should be provided with additional training and an extra copy of the Driver Code of Conduct.	As with Condition Amber, plus • Review and investigate construction activities. • If it is concluded that construction activities were directly responsible for the exceedance, submit an incident report to government agencies. • Temporary halting of activities and resuming when conditions have improved. • Stop all transportation into and out of the site. • Review CTMP and update where necessary, provide additional training.
Traffic noise	Trigger	Noise levels do not exceed imposed noise constraints	Noise levels in minor excess of imposed noise constraints	Noise levels greatly in excess of imposed noise constraints
	Response	No response required	Undertake all feasible and reasonable mitigation and management measures to minimise noise impacts.	Undertake all feasible and reasonable mitigation and management measures to ensure noise levels are below Highly Noise Affected criteria. If noise levels cannot be kept below applicable limits, then a different construction method or equipment must be utilised. Response to also be consistent with the CNVMP.

Key Element	Trigger / Response	Condition Green	Condition Amber	Condition Red
Traffic Guidance Scheme	Trigger	No observable issues	Minor inconsistencies with TGS to onsite operations	Near miss or incident occurring regardless of / as a result of the TGS being implemented
	Response	No response required Continue monitoring TGSs.	Traffic Controller to amend TGS on site and to keep a log of all changes.	Stop work until an investigation has been undertake into the incident. There are to be changes made to the TGS to ensure that the safety of all workers, students and civilians are catered for.
Traffic Air Quality Impacts	Trigger	No observable dust	Minor quantities of dust in the air and tracking on to the road.	Large quantities of dust in the air and tracking on to the road.
	Response	No response required	Review the ESCP and investigate construction activities and respective control measures, where appropriate. Implement additional remedial measures, such as: • Deployment of additional water sprays • Relocation or modification of dust-generating sources • Check condition of vibrating grids to ensure they are functioning correctly • Temporary halting of activities and resuming when conditions have improved	Review and investigate construction activities and respective control measures. If it is concluded that construction activities were directly responsible for the exceedance, submit an incident report to government agencies. Implement relevant responses and undertake immediate review to avoid such occurrence in future.

Key Element	Trigger / Response	Condition Green	Condition Amber	Condition Red
Water and Soil				
Soil / dust / mud on public road network	Trigger	No soil / dust / mud tracked onto the public road network.	Evidence of soil / dust / mud at entry but none tracked onto public roads.	Evidence of soil / dust / mud tracked onto the public roads.
	Response	Continue ESCP/CEMP implementation.	Check condition of wheel wash facility to ensure it is functioning correctly.	Check condition of wheel wash facility to ensure it is functioning correctly. Stop work and clean soil / dust / mud off road network (e.g. engage street sweeper).
Erosion	Trigger	No evidence of erosion.	Minor gully or tunnel erosions present and/or rilling. Evidence of sediment or sediment laden water leaving the site.	Significant gully or tunnel erosions present and/or rilling. Evidence of sediment or sediment laden water leaving the site.
	Response	Continue ESCP / CEMP implementation.	A suitably trained person to inspect the site. Review of erosions and sediment structures. Remediate as appropriate.	A suitably trained person to inspect the site. Review of erosion and sediment structures. Remediate as soon as practical.
Water management structures	Trigger	Water management structures have been designed, constructed and managed in accordance with the Blue Book and the ESCPs.	Inspections indicate that water management structures illustrate minor non-compliance with the Blue Book and the ESCPs.	Inspections indicate a failure of the water management structures.
	Response	Continue ESCP / CEMP implementation.	A suitably trained person to inspect the site. Review of water management structures. Remediate as appropriate.	A suitably trained person to inspect the site. Remediate as soon as practical. Review of engineering design and revise ESCPs.

Key Element	Trigger / Response	Condition Green	Condition Amber	Condition Red
Storm event	Trigger	No forecast storm events.	Storm event is forecasted.	Extreme storm event imminent/underway.
	Response	Continue ESCP / CEMP implementation.	Monitor forecast. Continue ESCP / CEMP implementation. Pre-emptive inspections of water management structures and systems. Confirm water sampling equipment is on standby.	Continue ESCP / CEMP implementation. Continue inspections of water management structures and systems. Undertake water sampling as required. Initiate emergency procedures if required.
Waste				
Waste	Trigger	Inspections identified no waste outside of dedicated bins and stockpiles.	Inspections identified minimal waste outside of dedicated bins and stockpiles.	Inspections identified large quantities of waste outside of dedicated bins and stockpiles. Complaints received regarding waste.
	Response	Continue WMP / CEMP implementation.	The waste is cleaned up immediately.	The waste is cleaned up immediately. The Communications and Community Liaison Representative is also notified and the complaints handling process outlined in **Section 3.6** is implemented.
Heritage				
Heritage	Trigger	No unknown heritage items uncovered.	Potential heritage item uncovered.	Potential heritage item uncovered causing significant delays to project.
	Response	Continue CEMP implementation.	Stop work and implement the unexpected finds protocol.	Stop work and implement the unexpected finds protocol. Heritage item to be salvaged and removed from site by a qualified archaeologist.

Key Element	Trigger / Response	Condition Green	Condition Amber	Condition Red
Hazardous Goods and Contamination				
Unexpected Contamination	Trigger	No contamination uncovered during earthworks.	Areas of possible contamination uncovered.	Areas of contamination uncovered.
	Response	Continue CEMP implementation.	Stop work immediately and the contamination assessed according to the UFP.	Stop work immediately. A validation report is to be prepared following remediation.
Community				
Submission	Trigger	General feedback/comment (no complaint or query).	Enquiry made by formal or informal channels.	Complaint made by formal or informal channels.
	Response	Acknowledge receipt and record in Complaints Register. No further response required.	Acknowledge receipt and record in Complaints Register. Direct enquiry to relevant person for actioning and response within 5 days.	Acknowledge receipt and record in Complaints Register. Respond to complaint immediately if possible, if not direct enquiry to relevant person for actioning and provide complainant with a follow up verbal response on what action is proposed within two hours during construction works (including night and weekend works) and 24 hours at other times.
Media	Trigger	Positive story in print, online, radio or television.	Neutral or advisory story in print, online, radio or television.	Negative story in print, online, radio or television.
	Response	Record in Complaints Register and advise the proponent media/marketing team. No further response required.	Record in Complaints Register and advise the proponent media/marketing team. No further response required.	Record in Complaints Register and advise the proponent Project Team for further action and response. Contact relevant person for actioning and response within 48 hours

Key Element	Trigger / Response	Condition Green	Condition Amber	Condition Red
Unscheduled Event	Trigger	Event occurring outside of plan or schedule without impact or potential impact.	Event occurring outside of plan or schedule with minor impact or potential impact.	Event occurring outside of plan or schedule with major impact or potential impact.
	Response	No response required. Identify opportunities for improvement to manage potential future events.	Contact relevant person for actioning and response within 48 hours. Acknowledge in Complaints Register. Identify opportunities for improvement to manage potential future events.	Contact relevant person for actioning and response immediately. Acknowledge in Complaints Register. Identify opportunities for improvement to manage potential future events.
Political Interest	Trigger	General or non-specific enquiry by Local, State or Federal political representative.	Enquiry or complaint relating to minor issue by Local, State or Federal political representative.	Enquiry or complaint relating to major issue by Local, State or Federal political representative.
	Response	Prime Constructions in conjunction with The Proponent Project Team to prepare and provide response or assign response task to relevant staff member for comment. Record in Complaints Register.	Prime Constructions in conjunction with the proponent Project Team to prepare and provide response within 48 hours. Record in Complaints Register.	Prime Constructions in conjunction with the proponent Project Team to prepare and provide response within 24 hours. Record in Complaints Register.

6 Review and Improvement of the CEMP

Strategies, plans and programs required under SSD 10477 will be reviewed within three months of:

- The submission of a compliance report under Condition C7;
- The submission of an incident report under Condition C7;
- The approval of any modification of the conditions of this consent; or
- The issue of a direction of the Planning Secretary under Condition A2(b) which requires a review.

The Planning Secretary will be notified in writing that a review is being carried out. Reviewed documents will be submitted to DPE for approval within 6 six weeks the review.

This CEMP will also be reviewed and, if necessary, revised in the following circumstances:

- Where there is any change to the scope of the construction activities and/or disturbance footprint;
- Where it is identified that the environmental performance is not meeting the objectives of the CEMP; and/or
- At the request of a relevant regulatory authority.

As per Condition C6, the revised documents will be sent to DPE within 6 weeks of review. All employees and contractors will be informed of any revisions to the CEMP by the Project Manager during toolbox talks following subsequent approval by DPE.

7 References

Acoustic Logic (2022) *Construction Noise Management Plan*

Coco Design Landscape (2022) *Landscape Management Plan*

Costin Roe Consulting (2022) *Erosion and Sediment Control Plan*

Department of Environment and Climate Change (2007) *Storing and Handling of Liquids: Environmental Protection – Participants Manual*

Department of Infrastructure, Planning and Natural Resources (2004) *Guideline for the Preparation of Environmental Management Plans*

Douglas Partners (2020) *Salinity Assessment and Management Plan*

Douglas Partners (2021) *Stormwater Management and Servicing Report*

Douglas Partners (2022) *Unexpected Finds Protocol*

Ecological Australia (2020) *Bushfire Assessment*

Ecological Australia (2020) *Biodiversity Review*

Environment Protection Authority (1997) *The Environment Protection Manual for Authorised Officers: Bunding and Spill Management – technical bulletin*

Environment Protection Authority (2014) *Waste Classification Guidelines Part 1: Classifying Waste*

PJEP Environmental Planning (2021) *Aboriginal Cultural Heritage Management Plan*

Prime Construction (2022) *Waste Management Plan*

Roadwork Solutions (2022) *Construction Traffic Management Plan*

Standards Australia (1997) *AS 4282 – 1997: Control of the obtrusive effects of outdoor lighting*

Standards Australia (2001) *AS 2601 – 2001: The Demolition of Structures*

State Environmental Planning Policy (Sydney Region Growth Centres) 2006

Appendix A:

Development Consent SSD 10477

Appendix B:

Consultation

Appendix C:

Prime Constructions Environmental Policy

Appendix D:

Relevant Conditions Development Consent SSD 10477

Appendix E:

Complaints Register

Appendix F:

Construction Traffic Management Plan

Appendix G:

Erosion and Sediment Control Plan

Appendix H:

Salinity Assessment and Management Plan

Appendix I:

Stormwater Management and Servicing Report

Appendix J:

Construction Noise Management Plan

Appendix K:

Aboriginal Cultural Heritage Management Plan

Appendix L:

Unexpected Finds Protocol

Appendix M:

Waste Management Plan

Appendix N:

Biodiversity Report

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Consolidated Consent

The Department has prepared a consolidated version of the consent which is intended to include all modifications to the original determination instrument.

The consolidated version of the consent has been prepared by the Department with all due care. This consolidated version is intended to aid the consent holder by combining all consents relating to the original determination instrument but it does not relieve a consent holder of its obligation to be aware of and fully comply with all consent obligations as they are set out in the legal instruments, including the original determination instrument and all subsequent modification instruments.

SCHEDULE 1

Application Number:	SSD-10477
Applicant:	Marsden Park Developments Pty Ltd
Consent Authority:	Minister for Planning and Public Spaces
Site:	Astoria Street, Marsden Park, Blacktown local government area Lot 4 DP 1210172 Part Lots 50 and 51 DP 1265695
Development:	Construction and operation of Sydney Business Park, Stage 3, including: • four warehouse and distribution facilities • ancillary car parking, infrastructure provision and landscaping • nine lot subdivision • earthworks • vegetation clearing • construction of two estate roads and associated infrastructure.

SUMMARY OF MODIFICATIONS

Application Number	Determination Date	Decider	Modification Description
SSD-10477-Mod-1	20 August 2021	Team Leader, Industry Assessments	Amendments to design and layout of Warehouse 1
SSD-10477-Mod-2	9 February 2022	Team Leader, Industry Assessments	Amendment to Condition B5(c) to vary the timing of entering into a Works Authorisation Deed
SSD-10477-Mod-3	18 November 2022	Team Leader, Industry Assessments	Amendments to operation, design and layout of Warehouse 2

TABLE OF CONTENTS

DEFINITIONS

Applicant	Marsden Park Developments Pty Ltd, or any person carrying out any development to which this consent applies
BCA	Building Code of Australia
BC Act	*Biodiversity Conservation Act 2016*
Calendar year	A period of 12 months commencing on 1 January
Certifier	A person who is authorised by or under section 6 of the EP&A Act to issue Part 6 certificates
CEMP	Construction Environmental Management Plan
Conditions of this consent	Conditions contained in Schedule 2 of this document
Construction	The demolition and removal of buildings or works, the carrying out of works for the purpose of the development, including bulk earthworks, and erection of buildings and other infrastructure permitted by this consent.
Council	Blacktown City Council
Day	The period from 7 am to 6 pm on Monday to Saturday, and 8 am to 6 pm on Sundays and Public Holidays
Decommissioning	The controlled process of safely retiring a facility from service, including decontamination, dismantling and disposal after the cessation of operations.
Demolition	The deconstruction and removal of buildings, sheds and other structures on the site
Department	NSW Department of Planning, Industry and Environment
Development	The development described in Schedule 1, the EIS and Response to Submissions, including the works and activities comprising of four warehouse and distribution facilities, ancillary car parking, infrastructure provision and landscaping, nine lot subdivision, earthworks, vegetation clearing, construction of two estate roads and associated infrastructure.
Development layout	The plans at Appendix 1 of this consent
DPIE	Department of Planning, Industry and Environment
Earthworks	Bulk earthworks, site levelling, import and compaction of fill material, excavation for installation of drainage and services, to prepare the site for construction
EES	Environment, Energy and Science Group (former Office of Environment and Heritage)
EIS	The Environmental Impact Statement titled '*Stage 3 Facilities, Sydney Business Park Environmental Impact Statement'* prepared by PJEP Environmental Planning Pty Ltd and dated August 2020
Environment	As defined in section 1.4 of the EP&A Act
EPA	NSW Environment Protection Authority
EP&A Act	*Environmental Planning and Assessment Act 1979*
EP&A Regulation	*Environmental Planning and Assessment Regulation 2000*
EPL	Environment Protection Licence under the POEO Act
Evening	The period from 6 pm to 10 pm
Heritage	Encompasses both Aboriginal and historic heritage including sites that predate European settlement, and a shared history since European settlement
Heritage item	An item as defined under the *Heritage Act 1977,* and assessed as being of local, State and/ or National heritage significance, and/or an Aboriginal Object or Aboriginal Place as defined under the *National Parks and Wildlife Act 1974'*, the World Heritage List, or the National Heritage List or Commonwealth Heritage List under the *Environment Protection and Biodiversity Conservation Act 1999* (Cth), or anything identified as a heritage item under the conditions of this consent
Incident	An occurrence or set of circumstances that causes or threatens to cause material harm and which may or may not be or cause a non-compliance

	Note: "material harm" is defined in this consent
Land	Has the same meaning as the definition of the term in section 1.4 of the EP&A Act
Material harm	Is harm that: a) involves actual or potential harm to the health or safety of human beings or to the environment that is not trivial, or b) results in actual or potential loss or property damage of an amount, or amounts in aggregate, exceeding $10,000, (such loss includes the reasonable costs and expenses that would be incurred in taking all reasonable and practicable measures to prevent, mitigate or make good harm to the environment)
Minister	NSW Minister for Planning and Public Spaces (or delegate)
Mitigation	Activities associated with reducing the impacts of the development prior to or during those impacts occurring
Modification Assessment	The document assessing the environmental impact of a proposed modification of this consent and any other information submitted with the following modification applications made under the EP&A Act: a) SSD-9741-Mod-1, prepared by PJEP Environmental Planning, dated 2 July 2021, as amended by the Additional Information letter prepared by PJEP Environmental Planning, dated 11 August 2021 b) SSD-10477-Mod-2, prepared by PJEP Environmental Planning, dated 23 December 2021 c) SSD-10477-Mod-3, prepared by PJEP Environmental Planning, dated 28 September 2022 as amended by the Additional Information letter prepared by PJEP Environmental Planning dated 25 October 2022
Monitoring	Any monitoring required under this consent must be undertaken in accordance with section 9.40 of the EP&A Act
Night	The period from 10 pm to 7 am on Monday to Saturday and 10 pm to 8 am on Sundays and Public Holidays
Non-compliance	An occurrence, set of circumstances or development that is a breach of this consent
Operation	The use of the warehouse and distribution facility as described in the EIS and RTS
Principal Certifier	Principal Certifier in accordance with the EP&A Act
Planning Secretary	Planning Secretary under the EP&A Act, or nominee
POEO Act	*Protection of the Environment Operations Act 1997*
Reasonable	Means applying judgement in arriving at a decision, taking into account: mitigation benefits, costs of mitigation versus benefits provided, community views, and the nature and extent of potential improvements.
Registered Aboriginal Parties	Means the Aboriginal persons identified in accordance with the document entitled "*Aboriginal cultural heritage consultation requirements for proponents 2010*" (DECCW)
Rehabilitation	The restoration of land disturbed by the development to a good condition, to ensure it is safe, stable and non-polluting.
Response to Submissions	The Applicant's response to issues raised in submissions received in relation to the application for consent for the development under the EP&A Act and includes the document titled *'Stage 3 Facilities, Sydney Business Park Response to Submissions'* prepared by PJEP Environmental Planning Pty Ltd and dated November 2020 and the '*Stage 3 Facilities, Sydney Business Park Supplementary Response to Submissions'* prepared by PJEP Environmental Planning Pty Ltd and dated December 2020
Sensitive receivers	A location where people are likely to work, occupy or reside, including a dwelling, school, hospital, office or public recreational area
Site	The land defined in Schedule 1
TfNSW	Transport for New South Wales
VENM	Virgin Excavated Natural Material
Waste	Has the same meaning as the definition of the term in the Dictionary to the POEO Act

Year	A period of 12 consecutive months

SCHEDULE 2

PART A ADMINISTRATIVE CONDITIONS

OBLIGATION TO MINIMISE HARM TO THE ENVIRONMENT

A1. In addition to meeting the specific performance measures and criteria in this consent, all reasonable and feasible measures must be implemented to prevent, and if prevention is not reasonable and feasible, minimise, any material harm to the environment that may result from the construction and operation of the development, and any rehabilitation required under this consent.

TERMS OF CONSENT

A2. The development may only be carried out:

(a) in compliance with the conditions of this consent;

(b) in accordance with all written directions of the Planning Secretary;

(c) in accordance with the EIS and Response to Submissions;

(d) in accordance with the Development Layout in Appendix 1; ~~and~~

(e) in accordance with the management and mitigation measures in Appendix 3; and

(f) in accordance with the Modification Assessment.

A3. Consistent with the requirements in this consent, the Planning Secretary may make written directions to the Applicant in relation to:

(a) the content of any strategy, study, system, plan, program, review, audit, notification, report or correspondence submitted under or otherwise made in relation to this consent, including those that are required to be, and have been, approved by the Planning Secretary; and

(b) the implementation of any actions or measures contained in any such document referred to in condition A3(a).

A4. The conditions of this consent and directions of the Planning Secretary prevail to the extent of any inconsistency, ambiguity or conflict between them and a document listed in condition A2(c), A2(e) or A2(f). In the event of an inconsistency, ambiguity or conflict between any of the documents listed in condition A2(c), A2(e) or A2(f) the most recent document prevails to the extent of the inconsistency, ambiguity or conflict.

LIMITS OF CONSENT

Lapsing

A5. This consent lapses five years after the date from which it operates, unless the development has physically commenced on the land to which the consent applies before that date.

NOTIFICATION OF COMMENCEMENT

A6. The date of commencement of each of the following phases of the development must be notified to the Department in writing, at least one month (or as otherwise agreed by the Planning Secretary) before that date:

(a) construction;

(b) operation; or

(c) cessation of operations.

A7. If the construction or operation of the development is to be staged, the Department must be notified in writing at least one month (or as otherwise agreed by the Planning Secretary) before the commencement of each stage, of the date of commencement and the development to be carried out in that stage.

EVIDENCE OF CONSULTATION

A8. Where conditions of this consent require consultation with an identified party, the Applicant must:

(a) consult with the relevant party prior to submitting the subject document to the Planning Secretary for approval; and

(b) provide details of the consultation undertaken including:

(i) the outcome of that consultation, matters resolved and unresolved; and

(ii) details of any disagreement remaining between the party consulted and the Applicant and how the Applicant has addressed the matters not resolved.

STAGING, COMBINING AND UPDATING STRATEGIES, PLANS OR PROGRAMS

A9. With the approval of the Planning Secretary, the Applicant may:

(a) prepare and submit any strategy, plan or program required by this consent on a staged basis (if a clear description is provided as to the specific stage and scope of the development to which the strategy, plan or program applies, the relationship of the stage to any future stages and the trigger for updating the strategy, plan or program);

(b) combine any strategy, plan or program required by this consent (if a clear relationship is demonstrated between the strategies, plans or programs that are proposed to be combined); and

(c) update any strategy, plan or program required by this consent (to ensure the strategies, plans and programs required under this consent are updated on a regular basis and incorporate additional measures or amendments to improve the environmental performance of the development).

A10. If the Planning Secretary agrees, a strategy, plan or program may be staged or updated without consultation being undertaken with all parties required to be consulted in the relevant condition in this consent.

A11. If approved by the Planning Secretary, updated strategies, plans or programs supersede the previous versions of them and must be implemented in accordance with the condition that requires the strategy, plan or program.

PROTECTION OF PUBLIC INFRASTRUCTURE

A12. Before the commencement of construction, the Applicant must:

(a) consult with the relevant owner and provider of services that are likely to be affected by the development to make suitable arrangements for access to, diversion, protection and support of the affected infrastructure;

(b) prepare a dilapidation report identifying the condition of all public infrastructure in the vicinity of the site (including roads, gutters and footpaths); and

(c) submit a copy of the dilapidation report to the Planning Secretary and Council.

A13. Unless the Applicant and the applicable authority agree otherwise, the Applicant must:

(a) repair, or pay the full costs associated with repairing, any public infrastructure that is damaged by carrying out the development; and

(b) relocate, or pay the full costs associated with relocating, any public infrastructure that needs to be relocated as a result of the development.

DEMOLITION

A14. All demolition must be carried out in accordance with *Australian Standard AS 2601-2001 The Demolition of Structures* (Standards Australia, 2001).

STRUCTURAL ADEQUACY

A15. All new buildings and structures, and any alterations or additions to existing buildings and structures, that are part of the development, must be constructed in accordance with the relevant requirements of the BCA.

Note:

- *Under Part 6 of the EP&A Act, the Applicant is required to obtain construction and occupation certificates for the proposed building works.*
- *Part 8 of the EP&A Regulation sets out the requirements for the certification of the development.*

SUBDIVISION

A16. Prior to the issuing of a Subdivision Certificate for any stage of the development, detailed work-as-executed drawings shall be prepared and signed by a Registered Surveyor, which show the finished surface levels of the access road, internal roads, drainage and any areas of fill, carried out under this consent. The work-as-executed drawing must be submitted to the Certifier and Council prior to the issue of a Subdivision Certificate.

A17. Prior to the issuing of a Subdivision Certificate for any stage of the development, the Applicant must provide to the Certifier evidence that all matters required to be registered on title, including easements, have been lodged for registration or registered at the Land Registry Services.

A18. Prior to the issuing of a Subdivision Certificate for any stage of the development, a certificate from an electricity and telecommunications provider must be submitted to the Certifier certifying that satisfactory service arrangements to the site have been established.

COMPLIANCE

A19. The Applicant must ensure that all of its employees, contractors (and their sub-contractors) are made aware of, and are instructed to comply with, the conditions of this consent relevant to activities they carry out in respect of the development.

SPECIAL INFRASTRUCTURE CONTRIBUTION

A20. The Applicant is to make a Special Infrastructure Contribution in accordance with the *Environmental Planning and Assessment (Special Infrastructure Contribution - Western Sydney Growth Areas) Determination 2011* (as in force when this consent becomes operative).

A21. Prior to the issuing of any Occupation Certificate for works in relation to the development the subject of this consent, the Applicant must provide the Certifier with written evidence from the Planning Secretary that the liability to make the special infrastructure contribution for the development (or that part of the development for which the certificate is sought) has been discharged, or that arrangements are in force with respect to the discharge of the liability.

Note: More information about the special infrastructure contribution can be found on the Department's website at: http://www.planning.nsw.gov.au/Policy-and-Legislation/Infrastructure/Infrastructure-Funding/Special-Infrastructure-Contributions-SIC

CONTRIBUTIONS TO COUNCIL

A22. Before the issuing of an Occupation Certificate for any part of the development, a contribution under section 7.11 of the EP&A Act of $9,068,279.00 (adjusted on a quarterly basis (from the date of this consent), to account for movements in the Australian Bureau of Statistics Consumer Price Index – Building Construction (NSW)), must be paid to Council for:

Contribution item	Amount
Stormwater Quantity – Little Creek	$5,814,919.00
Stormwater Quality – Little Creek	$280,158.00
Traffic Management	$2,973,202.00
Total	**$9,068,279.00**

OPERATION OF PLANT AND EQUIPMENT

A23. All plant and equipment used on site, or to monitor the performance of the development, must be:

(a) maintained in a proper and efficient condition; and

(b) operated in a proper and efficient manner.

TRANSGRID REQUIREMENTS

A24. Prior to commencement of works within the TransGrid easement the Applicant must submit Final design plans to TransGrid. The final design plans must demonstrate:

(a) a vertical clearance of 8.0 m over the roadway

(b) fencing within the easement to not exceed 2.5 m in height

(c) a dust management plan is in place to ensure excessive dust is not deposited on the towers or insulators.

A25. Height restrictions shall be applied to cranes, elevated work platforms and any other plant and equipment proposed to operate on the easement. This restriction applies to all mobile plant and equipment capable of exceeding a height of 4.2 m.

A26. Prior to the issue of any Occupation Certificate, all fencing on the TransGrid easement shall be earthed and every second panel isolated from the next pair of fencing panels. Consultation with TransGrid is required for further instructions on the required earthing for the boundary fence.

A27. The Applicant must formally notify TransGrid of any amendments or modifications to the development, including to ground surface levels within the easement.

EXTERNAL WALLS AND CLADDING

A28. The external walls of all buildings including additions to existing buildings must comply with the relevant requirements of the BCA.

A29. Prior to the issuing of:

(a) any Construction Certificate relating to the construction of external walls (including the installation of finishes and claddings such as synthetic or aluminium composite panels); and

(b) an Occupation Certificate,

the Applicant must provide the Certifier with documented evidence that the products and systems proposed for use or used in the construction of external walls (including finishes and claddings such as synthetic or aluminium composite panels) comply with the requirements of the BCA.

A30. The Applicant must provide a copy of the documentation given to the Certifier to the Planning Secretary within seven days after the Certifier accepts it.

UTILITIES AND SERVICES

A31. Before the construction of any utility works associated with the development, the Applicant must obtain relevant approvals from service providers.

A32. Before the commencement of operation of the development, the Applicant must obtain a Compliance Certificate for water and sewerage infrastructure servicing of the site under section 73 of the *Sydney Water Act 1994*.

A33. Before the issuing of a Subdivision or Occupation Certificate for any stage of the development, the Applicant (whether or not a constitutional corporation) is to provide evidence, satisfactory to the Certifier, that arrangements have been made for:

(a) the installation of fibre-ready facilities to all individual lots and/or premises in the development to enable fibre to be readily connected to any premises that is being or may be constructed on those lots; and

(b) the provision of fixed-line telecommunications infrastructure in the fibre-ready facilities to all individual lots and/or premises in the development demonstrated through an agreement with a carrier.

A34. Before the issuing of the Occupation Certificate for the development the Applicant must demonstrate that the carrier has confirmed in writing it is satisfied that the fibre ready facilities are fit for purpose.

APPLICABILITY OF GUIDELINES

A35. References in the conditions of this consent to any guideline, protocol, Australian Standard or policy are to such guidelines, protocols, Standards or policies in the form they are in as at the date of this consent.

A36. However, consistent with the conditions of this consent and without altering any limits or criteria in this consent, the Planning Secretary may, when issuing directions under this consent in respect of ongoing monitoring and management obligations, require compliance with an updated or revised version of such a guideline, protocol, Standard or policy, or a replacement of them.

MONITORING AND ENVIRONMENTAL AUDITS

A37. Any condition of this consent that requires the carrying out of monitoring or an environmental audit, whether directly or by way of a plan, strategy or program, is taken to be a condition requiring monitoring or an environmental audit under Division 9.4 of Part 9 of the EP&A Act. This includes conditions in respect of incident notification, reporting and response, non-compliance notification, Annual Review and independent environmental auditing.

Note: For the purposes of this condition, as set out in the EP&A Act, "monitoring" is monitoring of the development to provide data on compliance with the consent or on the environmental impact of the development, and an "environmental audit" is a periodic or particular documented evaluation of the development to provide information on compliance with the consent or the environmental management or impact of the development.

ADVISORY NOTES

AN1. All licences, permits, approvals and consents as required by law must be obtained and maintained as required for the development. No condition of this consent removes any obligation to obtain, renew or comply with such licences, permits, approvals and consents.

PART B SPECIFIC ENVIRONMENTAL CONDITIONS

TRAFFIC AND ACCESS

Construction Traffic Management Plan

B1. Prior to the commencement of construction of the development, the Applicant must prepare a Construction Traffic Management Plan for the development to the satisfaction of the Planning Secretary. The plan must form part of the Construction Environmental Management Plan (CEMP) required by condition C2 and must:

(a) be prepared by a suitably qualified and experienced person(s);

(b) be prepared in consultation with Council;

(c) detail the measures that are to be implemented to ensure road safety and network efficiency during construction;

(d) detail heavy vehicle routes, access and parking arrangements;

(e) include a Driver Code of Conduct to:

(i) minimise the impacts of earthworks and construction on the local and regional road network;

(ii) minimise conflicts with other road users;

(iii) minimise road traffic noise; and

(iv) ensure truck drivers use specified routes;

(f) include a program to monitor the effectiveness of these measures; and

(g) if necessary, detail procedures for notifying residents and the community (including local schools), of any potential disruptions to routes.

B2. The Applicant must:

(a) not commence construction until the Construction Traffic Management Plan required by condition B1 is approved by the Planning Secretary; and

(b) implement the most recent version of the Construction Traffic Management Plan approved by the Planning Secretary for the duration of construction.

Roadworks and Access

B3. Prior to the commencement of operation of the development, the Applicant must complete the construction of the north-south collector road between Hollinsworth Road and Astoria Street and the extension of Hollinsworth Road to the western side of the site, to the satisfaction of Council. The Applicant must obtain approval all works in the existing public road reserve under section 138 of the *Roads Act 1993*.

B4. The Applicant must submit design plans to Council which demonstrate that the proposed accesses to the development are designed to accommodate the turning path of a 30 m Super B-double vehicles.

Intersection Works

B5. The Applicant must undertake upgrade works to the Hollinsworth Road and Richmond Road intersection to the satisfaction of TfNSW. As part of these upgrade works, the Applicant must:

(a) submit concept civil design and Traffic Control Signal (TCS) plans to the satisfaction of TfNSW prior to the issue of a Construction Certificate for any stage of the development. The concept design plans must include:

(i) a left turn slip lane from Hollinsworth Road onto Richmond Road; and

(ii) an additional right turn lane on the south bound approach to the intersection on Richmond Road

(b) provide written evidence to the Planning Secretary demonstrating the detailed design plans have been approved by TfNSW;

(c) enter into a Works Authorisation Deed (WAD) with TfNSW within nine months of the determination of SSD-10477-Mod-2, to undertake these intersection upgrade works; and

(d) complete the intersection upgrade works to the satisfaction of TfNSW on Hollinsworth Road and Richmond Road prior to the commencement of operation of the final stage of the development.

B6. Notwithstanding the requirements specified in condition B5(a) and B5(b), the Applicant may carry out early preparatory construction works (including tree clearing, earthworks, retaining walls and infrastructure provision) prior to satisfying the requirements of condition B5(a) subject to traffic movements to and from the site not exceeding the following limits:

(a) 24 total traffic movements (12 in, 12 out) for the delivery and removal of equipment (graders, dozers, excavator, scrapers etc);

(b) 30 daily traffic movements (15 in, 15 out) for construction staff light vehicles; and

(c) No truck movements on Richmond Road for the importation or exportation of fill materials outside of the site.

Parking

B7. The Applicant must provide sufficient parking facilities on-site, including for heavy vehicles and for site personnel, to ensure that traffic associated with the development does not utilise public and residential streets or public parking facilities.

Operating Conditions

B8. The Applicant must ensure:

(a) internal roads, driveways and parking (including grades, turn paths, sight distance requirements, aisle widths, aisle lengths and parking bay dimensions) associated with the development are constructed and maintained in accordance with the latest version of *AS 2890.1:2004 Parking facilities Off-street car parking* (Standards Australia, 2004) and *AS 2890.2:2002 Parking facilities Off-street commercial vehicle facilities* (Standards Australia, 2002);

(b) the swept path of the longest vehicle entering and exiting the site, as well as manoeuvrability through the site, is in accordance with the relevant AUSTROADS guidelines;

(c) the development does not result in any vehicles queuing on the public road network;

(d) heavy vehicles and bins associated with the development are not parked on local roads or footpaths in the vicinity of the site;

(e) all vehicles are wholly contained on site before being required to stop;

(f) all loading and unloading of materials is carried out on-site;

(g) all trucks entering or leaving the site with loads have their loads covered and do not track dirt onto the public road network;

(h) the proposed turning areas in the car park are kept clear of any obstacles, including parked cars, at all times;

(i) there must be no more than two heavy vehicle movements (one in, one out) per hour within the boundary of Warehouse 2 between the hours of 10:00 pm and 7:00 am, and no more than a total of five heavy vehicle arrivals during the night; and

(j) no more than one roller door/shutter on the eastern elevation of Warehouse 2 can be opened between the hours of 10:00 pm and 7:00 am and only when in use for loading and unloading.

Work Place Travel Plan

B9. Prior to the commencement of operation of any part of the development, the Applicant must prepare a Work Place Travel Plan to the satisfaction of the Planning Secretary. The Work Place Travel Plan must:

(a) be prepared in consultation with TfNSW;

(b) outline facilities and measures to promote public transport usage, such as car share schemes and employee incentives; and

(c) describe pedestrian and bicycle linkages and end of trip facilities available on-site.

B10. The Applicant must:

(a) not commence operation until the Work Place Travel Plan is approved by the Planning Secretary; and

(b) implement the most recent version of the Work Place Travel Plan approved by the Planning Secretary for the duration of the development.

SOILS, WATER QUALITY AND HYDROLOGY

Erosion and Sediment Control

B11. Prior to the commencement of any construction for the development, the Applicant must install and maintain suitable erosion and sediment control measures on-site, in accordance with the relevant requirements of the *Managing Urban Stormwater: Soils and Construction - Volume 1: Blue Book* (Landcom, 2004) guideline and the Erosion and Sediment Control Plan included in the CEMP required by condition C2.

B12. The Applicant must not commence any construction works on site until the temporary sediment basin in the Basin A area has been commissioned.

Stormwater Management System

B13. Prior to the commencement of operation of any stage of the development, the Applicant must design, install and operate a stormwater management system for the development. The system must:

(a) be designed by a suitably qualified and experienced person;

(b) be prepared in consultation with Council;

(c) be generally in accordance with:

(i) the conceptual design in the EIS and RTS;

(ii) Council's Works Specification - Civil (Current Version);

(iii) Council's Engineering Guide for Development (Current Version);

(iv) Council's On-Site Detention General Guidelines and Checklist; and

(v) Council's WSUD Standard Drawings A(BS)175M (Current Version);

(d) be in accordance with applicable Australian Standards;

(e) ensure post-development flow velocities of the relevant stormwater and drainage works match pre-development flow velocities; and

(f) ensure that the system capacity has been designed in accordance with *Australian Rainfall and Runoff* (Engineers Australia, 2016) and *Managing Urban Stormwater: Council Handbook* (EPA, 1997) guidelines.

Temporary On-Site Detention

B14. Prior to the issuing of a Construction Certificate for any buildings on the site, the Applicant must provide stormwater detention in accordance with Council's Engineering Guide for Development. Basin A, including flow diversion line L4.1, or the interim stormwater works, must be completed to Council's satisfaction prior to the issue of an Occupation Certificate for any stage of the development as follows:

(a) Basin A and the associated flow diversion line are to be constructed in accordance with Council Plan Number E37/2V, or the latest version of that plan;

(b) the proposed interim stormwater detention works are to be in accordance with the volumes and flow rates described in Orion Consulting Stormwater Management and Servicing Report, Sydney Business Park Stage 3 Astoria Street Marsden Park, Revision D, October 2020; and

(c) the design levels for the interim stormwater detention works are to be co-ordinated with Council Plan E37/2V, or the latest version of that plan.

Note: In the event that the Basin A and flow diversion line works are not completed prior to the issue of an Occupation Certificate, a temporary pump diversion system for the interim stormwater waters is to be provided to divert the diversion volume referred to as dead or return storage in the in Orion Consulting Stormwater Management and Servicing Report, Sydney Business Park Stage 3 Astoria Street Marsden park, Revision D, October 202 away from the conservation area in the Little Creek catchment of Contributions Plan No. 21. The required diversion volume is 42mm depth over the development area. The design of the pump diversion system must be approved by Council.

NOISE

Hours of Work

B15. The Applicant must comply with the hours detailed in Table 1, unless otherwise agreed in writing by the Planning Secretary.

Table 1 *Hours of Work*

Activity	Day	Time
Earthworks and construction	Monday – Friday Saturday	7 am to 6 pm 8 am to 1 pm
Operation	Monday – Sunday	24 hours

B16. Works outside of the hours identified in condition B15 may be undertaken in the following circumstances:

(a) works that are inaudible at the nearest sensitive receivers;

(b) works agreed to in writing by the Planning Secretary;

(c) for the delivery of materials required outside these hours by the NSW Police Force or other authorities for safety reasons; or

(d) where it is required in an emergency to avoid the loss of lives, property or to prevent environmental harm.

Construction Noise Limits

B17. The development must be constructed to achieve the construction noise management levels detailed in *the Interim Construction Noise Guideline* (DECC, 2009) (as may be updated or replaced from time to time). All feasible and reasonable noise mitigation measures must be implemented and any activities that could exceed the construction noise management levels must be identified and managed in accordance with the management and mitigation measures in the Appendix 3.

Construction Noise Management Plan

B18. The Applicant must prepare a Construction Noise Management Plan for the development to the satisfaction of the Planning Secretary. The Plan must form part of a CEMP in accordance with condition C2 and must:

(a) be prepared by a suitably qualified and experienced noise expert;

(b) be approved by the Planning Secretary prior to the commencement of construction of the development;

(c) describe procedures for achieving the noise management levels in EPA's *Interim Construction Noise Guideline* (DECC, 2009) (as may be updated or replaced from time to time);

(d) describe the measures to be implemented to manage high noise generating works such as piling;

(e) include strategies that have been developed with the community for managing high noise generating works;

(f) describe the community consultation undertaken to develop the strategies in condition B18(e); and

(g) include a complaints management system that would be implemented for the duration of the development.

B19. The Applicant must:

(a) not commence construction of any relevant stage of the development until the Construction Noise Management Plan required by condition B18 is approved by the Planning Secretary; and

(b) implement the most recent version of the Construction Noise Management Plan approved by the Planning Secretary for the duration of construction.

Operational Noise Limits

B20. The Applicant must ensure that noise generated by operation of the development does not exceed the noise limits in Table 2.

Table 2 *Noise Limits (dB(A))*

Location	Day $L_{Aeq(15min)}$	Evening $L_{Aeq(15min)}$	Night $L_{Aeq(15min)}$	Night L_{AFmax}
I5 – 140 Hollinsworth Road, Marsden Park[1]	46	46	43	55
All residential properties to the north of the site[1]	40	35	35	52
All residential properties to the south of the site[1]	40	38	35	52

Note *1. Noise generated by the development is to be measured and assessed in accordance with the provisions of the EPA Noise Policy for Industry (2017), including noise-enhancing meteorological conditions and corrections for annoying noise characteristics. Refer to the plan in Appendix 2 for the location of residential sensitive receivers.*

2. Noise limit applies where an existing residence is affected by an increase in traffic noise generated by the development of greater than 2.0 dB(A). Additional road traffic noise emitted from public roads is to be measured and assessed in accordance with the provisions of the EPA NSW Road Noise Policy.

B20A. The Applicant must ensure refrigerated transport containers emit:

(a) $L_{Aeq(15min)}$ sound power level of no more than 95 dBA; and

(b) noise without tonal characteristic or strong low frequency content in accordance with the Noise Policy for Industry (EPA, 2017).

Noise Walls

B21. The Applicant must construct the noise walls shown in Drawing GA-505, Revision P1 of the EIS, prior to the commencement of operation of any part of the development.

Note: *If construction of noise walls is to be staged, the Applicant must submit a noise verification study to the satisfaction of the Planning Secretary to demonstrate that the development will comply with the noise limits in condition B20 at all times.*

Noise Verification Report

B22. A Noise Verification Report must be submitted to the satisfaction of the Planning Secretary at the following stages of the development:

(a) within three months of the approval of SSD-10477-Mod-3; and

(b) within three months of the commencement of operation of all four warehouses.

B23. The Noise Verification Reports required by condition B22 must be prepared by a suitably qualified and experienced acoustic consultant and include:

(a) an analysis of compliance with noise limits specified in conditions B20 and B20A undertaken to the satisfaction of the Planning Secretary and in accordance with the Noise Policy for Industry (EPA, 2017);

(b) a detailed maximum noise level event assessment for residential receiver R13 (refer Appendix 2) in accordance with the Noise Policy for Industry (EPA, 2017);

(c) an assessment of the performance and effectiveness of applied noise mitigation measures together with a review and if necessary, re-assessment of mitigation measures identified; and

(d) identification of additional noise control measures to be implemented to address any exceedances of the limits specified in conditions B20 and B20A and when these measures are to be implemented and how their effectiveness is to be measured and reported to the Planning Secretary.

ABORIGINAL HERITAGE

Aboriginal Cultural Heritage Management Plan (ACHMP)

B24. Before the commencement of any clearing or construction works for the development, the Applicant must prepare an ACHMP for the development to protect and manage extant Aboriginal sites and objects located within the project area. The plan must form part of the CEMP required by Condition C2 and must:

(a) be prepared by a suitably qualified and experienced expert in consultation with the Registered Aboriginal Parties;

(b) be submitted to the satisfaction of the Planning Secretary prior to construction of any part of the development; and

(c) include a long-term care and control management procedure for any Aboriginal objects from the project area, including any extant sites.

B25. The Applicant must:

(a) not commence construction until the ACHMP is approved by the Planning Secretary; and

(b) implement the most recent version of the ACHMP approved by the Planning Secretary for the duration of the development.

Unexpected Finds Protocol

B26. If any item or object of Aboriginal heritage significance is identified on site:

(a) all work in the immediate vicinity of the suspected Aboriginal item or object must cease immediately;

(b) a 10 m wide buffer area around the suspected item or object must be cordoned off; and

(c) the EES must be contacted immediately.

B27. Work in the immediate vicinity of the Aboriginal item or object may only recommence in accordance with the provisions of Part 6 of the *National Parks and Wildlife Act 1974*.

FIRE PROTECTION AND MANAGEMENT

Asset Protection Zones

B28. Throughout the duration of the development, the Applicant must manage the whole site as an inner protection area as outlined in Section 4.1.3 and Appendix 5 of 'Planning for Bushfire Protection 2006' and the NSW Rural Fire Services' publication 'Standards for asset protection zones'.

Design and Construction

B29. The Applicant must ensure each warehouse building and the identified elevations and building elements in the development complies with the NASH Standard (1.7.14 updated) 'National Standard Steel Framed Construction in Bushfire Areas - 2014' as appropriate or the specified bushfire attack levels (BAL) under Australian Standard AS3959-2009 'Construction of buildings in bush fire-prone areas'. The Applicant must ensure that:

Warehouse 2

(a) must be non-combustible and comply with Sections 3 and 5 (BAL 12.5) *Australian Standard AS3959-2018 Construction of buildings in bush fire-prone areas* or NASH Standard (1.7.14 updated) *National Standard Steel Framed Construction in Bushfire Areas – 2014* as appropriate, and Section 7.5 of *Planning for Bush Fire Protection 2019*; and

Warehouse 4

(b) must comply with the Bushfire Attack Level (BAL) Plan (as shown in Figure 4 of the Bush Fire Report prepared by Eco Logical Australia, project no. 20SYD-16423, ver. 5, dated 8 December 2020) and the corresponding sections of the Australian Standard AS3959-2018 *Construction of buildings in bushfire-prone*

areas or the relevant BAL requirements of the *NASH Standard - Steel Framed Construction in Bushfire Areas (incorporating amendment A - 2015)*. New construction must also comply with the construction requirements in Section 7.5 of *Planning for Bush Fire Protection 2019*. BAL 12.5 is also applicable to the northern half of the building;

Access

B30. Property access roads and public access roads must comply with the general requirements of Table 5.3b of *Planning for Bush Fire Protection 2019.*

Bush Fire Emergency Management Plan

B31. Prior to the commencement of operation of the development, the Applicant must prepare a Bush Fire Emergency Management and Evacuation Plan in accordance with *Development Planning: A Guide to Developing a Bush Fire Emergency Management and Evacuation Plan December* (2014).

HAZARDS AND RISK

Dangerous Goods

B32. The quantities of dangerous goods stored and handled at the site must be below the threshold quantities listed in the Department of *Planning's Hazardous and Offensive Development Application Guidelines – Applying SEPP 33* at all times.

B33. Dangerous goods, as defined by the Australian Dangerous Goods Code, must be stored and handled strictly in accordance with:

(a) all relevant Australian Standards;

(b) for liquids, a minimum bund volume requirement of 110% of the volume of the largest single stored volume within the bund; and

(c) the Environment Protection Manual for *Authorised Officers: Bunding and Spill Management – technical bulletin* (EPA, 1997).

B34. In the event of an inconsistency between the requirements B33(a) to B33(c), the most stringent requirement must prevail to the extent of the inconsistency.

Bunding

B35. The Applicant must store all chemicals, fuels and oils used on-site in appropriately bunded areas in accordance with the requirements of all relevant Australian Standards, and/or EPA's *Storing and Handling of Liquids: Environmental Protection – Participants Manual* (Department of Environment and Climate Change, 2007).

Pre-commissioning

B35A. Prior to the commencement of operation of Warehouse 2, the Applicant must develop and implement a comprehensive Emergency Plan and detailed emergency procedures for Warehouse 2. The plan must be prepared in accordance with the Department's Hazardous Industry Planning Advisory Paper No. 1, 'Emergency Planning'.

B35B. Prior to the commencement of operation of Warehouse 2 and for the life of the development, an Emergency Services Information Package, developed in accordance with Fire and Rescue NSW's Fire Safety Guideline – Emergency Services Information Package and Tactical Fire Plans, must be stored in an emergency information cabinet directly adjacent to the main access points.

WASTE

B36. The collection of waste generated during operation of the development must be undertaken between 7 am to 10 pm Monday to Friday.

B37. The Applicant must:

(a) implement suitable measures to manage pests, vermin and declared priority weeds on the site; and

(b) inspect the site on a regular basis to ensure that these measures are working effectively, and that pests, vermin or priority weeds are not present on site in sufficient numbers to pose an environmental hazard or cause the loss of amenity in the surrounding area.

Note: For the purposes of this condition, priority weed has the same definition of the term in the Biosecurity Act 2015.

B38. Prior to the commencement of construction of each warehouse, the Applicant must obtain agreement from Council for the design of the waste storage area for each warehouse.

B39. Waste must be secured and maintained within designated waste storage areas at all times and must not leave the site onto neighbouring public or private properties.

Statutory Requirements

B40. All waste materials removed from the site must only be directed to a waste management facility or premises lawfully permitted to accept the materials.

B41. The Applicant must assess and classify all liquid and non-liquid wastes to be taken off site in accordance with the latest version of EPA's *Waste Classification Guidelines Part 1: Classifying Waste* (EPA, 2014) and dispose of all wastes to a facility that may lawfully accept the waste.

B42. Waste generated outside the site must not be received at the site for storage, treatment, processing, reprocessing, or disposal.

B43. The Applicant must retain all sampling and waste classification data for the life of the development in accordance with the requirements of EPA.

CONTAMINATION

Unexpected Finds

B44. Prior to the commencement of earthworks for the development, the Applicant must prepare an unexpected contamination procedure to ensure that potentially contaminated material is appropriately managed. The procedure must form part of the of the CEMP in accordance with condition C2 and must ensure any material identified as contaminated must be disposed off-site, with the disposal location and results of testing submitted to the Planning Secretary, prior to its removal from the site.

Asbestos

B45. The Applicant must ensure that any asbestos encountered during the remediation and construction works is monitored, handled, transported and disposed of by appropriately qualified and licensed contractors in accordance with the requirements of SafeWork NSW and relevant guidelines, including:

(a) *Work Health and Safety Regulation 2017*;

(b) SafeWork NSW Code of Practice – How to Manage and Control Asbestos in the Workplace September 2016;

(c) SafeWork NSW Code of Practice – How to Safely Remove Asbestos September 2016; and

(d) *Protection of the Environment Operations (Waste) Regulation 2014*.

VISUAL AMENITY

Landscaping

B46. Prior to the commencement of construction of the development, the Applicant must prepare a Landscape Management Plan to manage the revegetation and landscaping works on-site, to the satisfaction of the Planning Secretary. The plan must form part of the Construction Environmental Management Plan in Condition C2 and must:

(a) be prepared by a suitably qualified and experienced person(s);

(b) detail the species to be planted on-site;

(c) include a Street Tree Plan which must:

(i) include cross-sections showing dimensions of tree pits;

(ii) detail tree species

(iii) detail root protection barriers

(iv) detail soil specifications

(v) detail the location of tree pits in relation to services, intersections and future driveway, light poles, stormwater pits, sewerage infrastructure and utilities; and

(vi) detail street tree maintenance.

(d) describe the monitoring and maintenance measures to manage revegetation and landscaping works; and

(e) be consistent with the Applicant's Management and Mitigation Measures at Appendix 3.

B47. The Applicant must:

(a) not commence operation until the Landscape Management Plan is approved by the Planning Secretary.

(b) must implement the most recent version of the Landscape Management Plan approved by the Planning Secretary; and

(c) maintain the landscaping and vegetation on the site in accordance with the approved Landscape Management Plan required by condition B46 for the life of the development.

Lighting

B48. The Applicant must ensure the lighting associated with the development:

(a) complies with the latest version of AS 4282-1997 - *Control of the obtrusive effects of outdoor lighting* (Standards Australia, 1997); and

(b) is mounted, screened and directed in such a manner that it does not create a nuisance to surrounding properties or the public road network.

Signage and Fencing

B49. All signage and fencing must be erected in accordance with the development layout plans included in Appendix 1.

Note: This condition does not apply to temporary construction and safety related signage and fencing.

COMMUNITY ENGAGEMENT

B50. The Applicant must consult with the community regularly throughout the development, including consultation with the nearby sensitive receivers identified in Appendix 2, relevant regulatory authorities, Registered Aboriginal Parties and other interested stakeholders.

PART C ENVIRONMENTAL MANAGEMENT, REPORTING AND AUDITING

ENVIRONMENTAL MANAGEMENT

Management Plan Requirements

C1. Management plans required under this consent must be prepared in accordance with relevant guidelines, and include:

(a) detailed baseline data;

(b) details of:

(i) the relevant statutory requirements (including any relevant approval, licence or lease conditions);

(ii) any relevant limits or performance measures and criteria; and

(iii) the specific performance indicators that are proposed to be used to judge the performance of, or guide the implementation of, the development or any management measures;

(c) a description of the measures to be implemented to comply with the relevant statutory requirements, limits, or performance measures and criteria;

(d) a program to monitor and report on the:

(i) impacts and environmental performance of the development; and

(ii) effectiveness of the management measures set out pursuant to paragraph (c) above;

(e) a contingency plan to manage any unpredicted impacts and their consequences and to ensure that ongoing impacts reduce to levels below relevant impact assessment criteria as quickly as possible;

(f) a program to investigate and implement ways to improve the environmental performance of the development over time;

(g) a protocol for managing and reporting any:

(i) incident and any non-compliance (specifically including any exceedance of the impact assessment criteria and performance criteria);

(ii) complaint;

(iii) failure to comply with statutory requirements; and

(h) a protocol for periodic review of the plan.

Note: The Planning Secretary may waive some of these requirements if they are unnecessary or unwarranted for particular management plans

CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN

C2. The Applicant must prepare a Construction Environmental Management Plan (CEMP) in accordance with the requirements of Condition C1 and to the satisfaction of the Planning Secretary.

C3. As part of the CEMP required under Condition C2 of this consent, the Applicant must include the following:

(a) Construction Traffic Management Plan (see Condition B1);

(b) Erosion and Sediment Control Plan (see Condition B11);

(c) Construction Noise Management Plan (see Condition B18);

(d) Unexpected Finds Protocol (see Condition B44);

(e) Landscape Management Plan (see Condition B46); and

(f) Community Consultation and Complaints Handling.

C4. The Applicant must:

(a) not commence construction of the development until the CEMP is approved by the Planning Secretary; and

(b) carry out the construction of the development in accordance with the CEMP approved by the Planning Secretary and as revised and approved by the Planning Secretary from time to time.

REVISION OF STRATEGIES, PLANS AND PROGRAMS

C5. Within three months of:

(a) the submission of a Compliance Report under condition C11;

(b) the submission of an incident report under condition C7;

(c) the approval of any modification of the conditions of this consent; or

(d) the issue of a direction of the Planning Secretary under condition A2(b) which requires a review,

the strategies, plans and programs required under this consent must be reviewed, and the Planning Secretary must be notified in writing that a review is being carried out.

C6. If necessary to either improve the environmental performance of the development, cater for a modification or comply with a direction, the strategies, plans and programs required under this consent must be revised, to the satisfaction of the Planning Secretary. Where revisions are required, the revised document must be submitted to the Planning Secretary for approval within six weeks of the review.

Note: This is to ensure strategies, plans and programs are updated on a regular basis and to incorporate any recommended measures to improve the environmental performance of the development.

REPORTING AND AUDITING

Incident Notification, Reporting and Response

C7. The Planning Secretary must be notified in writing via the Major Projects website immediately after the Applicant becomes aware of an incident. The notification must identify the development (including the development application number and the name of the development if it has one) and set out the location and nature of the incident. Subsequent notification requirements must be given, and reports submitted in accordance with the requirements set out in Appendix 4.

Non-Compliance Notification

C8. The Planning Secretary must be notified in writing to the Major Projects website within seven days after the Applicant becomes aware of any non-compliance.

C9. A non-compliance notification must identify the development and the application number for it, set out the condition of consent that the development is non-compliant with, the way in which it does not comply and the reasons for the non-compliance (if known) and what actions have been, or will be, undertaken to address the non-compliance.

C10. A non-compliance which has been notified as an incident does not need to also be notified as a non-compliance.

Compliance Reporting

C11. Within three months after the first year of commencement of operation, and in the same month each subsequent year (or such other timing as agreed by the Planning Secretary), the Applicant must submit a Compliance Report to the Planning Secretary reviewing the environmental performance of the development to the satisfaction of the Planning Secretary. Compliance Reports must be prepared in accordance with the Compliance Reporting Post Approval Requirements (Department 2020) and must also:

(a) identify any discrepancies between the predicted and actual impacts of the development, and analyse the potential cause of any significant discrepancies; and

(b) describe what measures will be implemented over the next year to improve the environmental performance of the development

C11A. Unless otherwise agreed in writing by the Planning Secretary, the Applicant must record in a logbook, the manufacturer, model and type details of all refrigerated transport containers that have visited Warehouse 2 and submit this logbook as part of the Compliance Report in Condition C11.

C12. The Applicant must make each Compliance Report publicly available no later than 60 days after submitting it to the Planning Secretary and notify the Planning Secretary in writing at least 7 days before this is done.

Monitoring and Environmental Audits

C13. Any condition of this consent that requires the carrying out of monitoring or an environmental audit, whether directly or by way of a plan, strategy or program, is taken to be a condition requiring monitoring or an environmental audit under Division 9.4 of Part 9 of the EP&A Act. This includes conditions in respect of incident notification, reporting and response, non-compliance notification, compliance reporting and independent auditing.

Note: For the purposes of this condition, as set out in the EP&A Act, "monitoring" is monitoring of the development to provide data on compliance with the consent or on the environmental impact of the development, and an "environmental audit" is a periodic or particular documented evaluation of the development to provide information on compliance with the consent or the environmental management or impact of the development.

ACCESS TO INFORMATION

C14. At least 48 hours before the commencement of construction until the completion of all works under this consent, the Applicant must:

(a) make the following information and documents (as they are obtained or approved) publicly available on its website:

(i) the documents referred to in Condition A2 of this consent;

(ii) all current statutory approvals for the development;

(iii) all approved strategies, plans and programs required under the conditions of this consent;

(iv) the proposed staging plans for the development if the construction, operation or decommissioning of the development is to be staged;

(v) regular reporting on the environmental performance of the development in accordance with the reporting requirements in any plans or programs approved under the conditions of this consent;

(vi) a comprehensive summary of the monitoring results of the development, reported in accordance with the specifications in any conditions of this consent, or any approved plans and programs;

(vii) a summary of the current stage and progress of the development;

(viii) contact details to enquire about the development or to make a complaint;

(ix) a complaints register, updated monthly;

(x) the Compliance Report of the development;

(xi) audit reports prepared as part of any Independent Audit of the development and the Applicant's response to the recommendations in any audit report;

(xii) any other matter required by the Planning Secretary; and

(b) keep such information up to date, to the satisfaction of the Planning Secretary.

APPENDIX 1 DEVELOPMENT LAYOUT PLANS

Job No.	Drawing No.	Rev.	Date	Title
Survey Plans prepared by Andrew Peter Ford				
33 444 Stage 3	Sheet 1 of 3	-	07/2020	Plan of proposed subdivision of Lot 4 in DP 1210172 and Lots 1 & 2 in DP 1254181
33 444 Stage 3	Sheet 2 of 3	-	07/2020	Plan of proposed subdivision of Lot 4 in DP 1210172 and Lots 1 & 2 in DP 1254181
33 444 Stage 3	Sheet 3 of 3	-	07/2020	Plan of proposed subdivision of Lot 4 in DP 1210172 and Lots 1 & 2 in DP 1254181
Architectural Plans prepared by Reid Campbell Architecture, Interiors and Project Management				
	A000	O	30/11/2020	Cover Sheet / Drawing List
	A001	C	20/10/2020	Perspectives
	A002	K	26/11/2020	Site Analysis
	A003	W	26/11/2020	Stage 3 Master Plan
	A005	J	26/11/2020	Signage Strategy Plan
	A006	F	26/11/2020	Staging Plan
	A007	B	20/10/2020	Shadow Diagrams – Summer
	A008	B	20/10/2020	Shadow Diagrams – Winter
	A009	B	20/10/2020	Shadow Diagrams – Autumn
	A010	B	20/10/2020	Shadow Diagrams – Sprint
	A011	E	26/11/2020	Landscape Overlay Plan
Warehouse 1				
	A1001	AA	11/08/2021	WH1 – Site Plan
	A1002	R	02/07/2021	WH1 – Roof Plan
	A1101	S	02/07/2021	WH1 – Warehouse Floor Plan
	A1102	T	02/07/2021	WH1 – Office Floor Plans
	A1103	R	02/07/2021	WH1 – Dock Office & Amenities Plan
	A1201	Q	02/07/2021	WH1 – Elevations
	A1202	N	02/07/2021	WH1 – Office Elevations
	A1301	P	02/07/2021	WH1 – Sections

Warehouse 2				
	A2001	V	1/08/2022	WH2 – Site Plan
	A2002	M	29/07/2022	WH2 – Roof Plan
	A2101	N	1/08/2022	WH2 – Warehouse Floor Plan
	A2102	N	29/07/2022	WH2 – Office Floor Plans
	A2201	O	29/07/2022	WH2 – Elevations
	A2202	M	29/07/2022	WH2 – Office Elevations
	A2203	A	26/11/2020	WH2 – Acoustic Wall Details
	A2301	D	29/07/2022	WH2 – Sections
Warehouse 3				
	A3001	M	26/11/2020	WH3 – Site Plan
	A3002	F	26/11/2020	WH3 – Roof Plan
	A3101	F	26/11/2020	WH3 – Warehouse Floor Plan
	A3102	G	26/11/2020	WH3– Office Floor Plans
	A3201	G	26/11/2020	WH3 – Elevations
	A3202	E	26/11/2020	WH3 – Office Elevations
	A3301	F	26/11/2020	WH3 – Sections
Warehouse 4				
	A4001	A	18/11/2020	WH4 – Site Plan
	A4002	A	28/07/2020	WH4 – Roof Plan
	A4003	A	28/07/2020	WH4 – Office Perspectives
	A4004	A	28/07/2020	WH4 – Warehouse Perspectives
	A4101	C	03/08/2020	WH4 – Warehouse Floor Plans
	A4102	A	28/07/2020	WH4 – Office Floor Plans
	A4103	A	28/07/2020	WH4 – WH Amenities Plans
	A4201	B	31/07/2020	WH4 – Elevations
	A4202	A	28/07/2020	WH4 – Office Elevations
	A4301	A	28/07/2020	WH4 – WH Sections 1
	A4302	B	31/07/2020	WH4 – WH Sections 2
	A4303	A	28/07/2020	WH4 – Office Sections

	A4401	A	28/07/2020	WH4 – Typical Details
	GA-505	A	30/11/2020	WH4 – Acoustic Wall Details

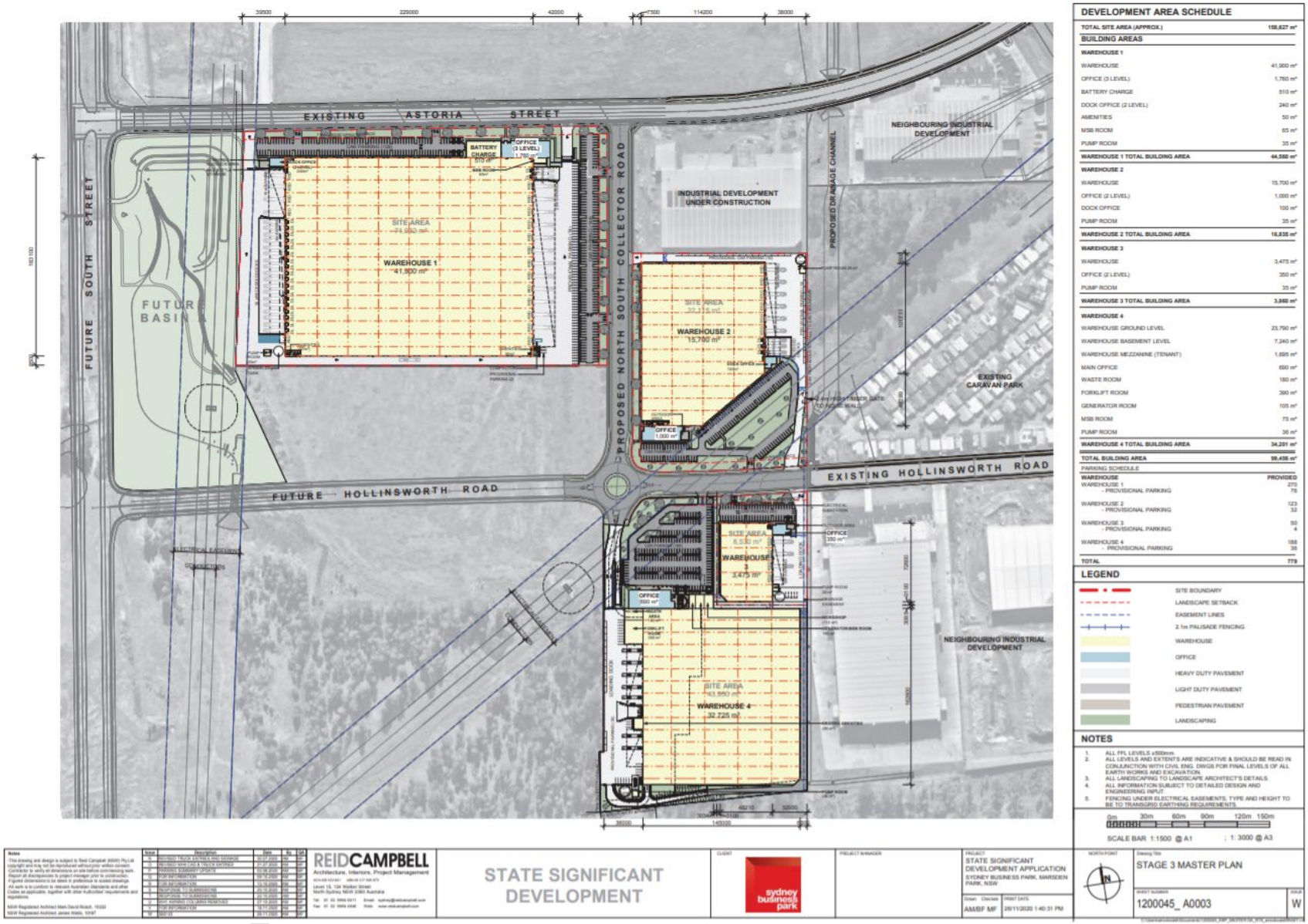
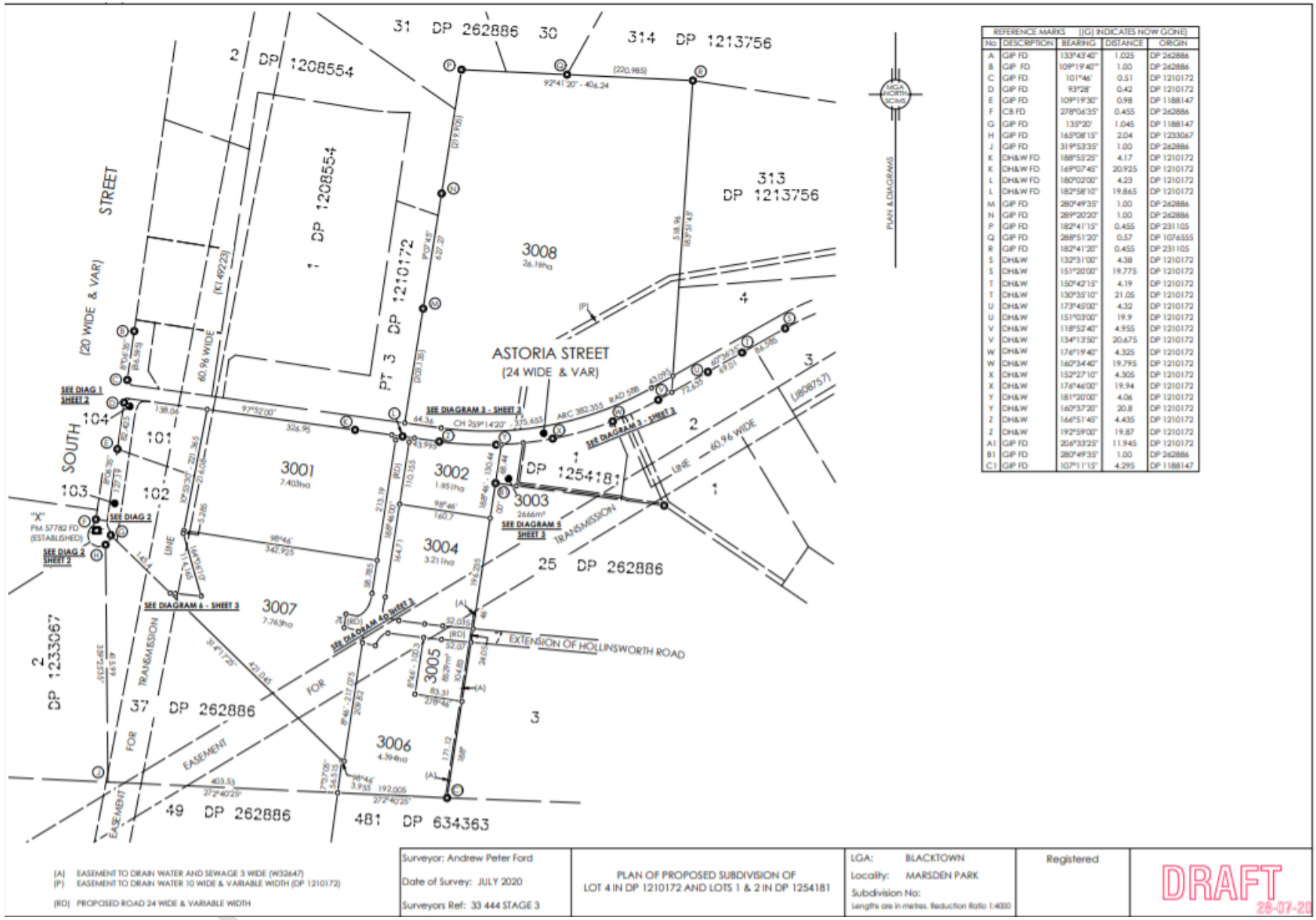


Figure 1: Site Plan



REFERENCE MARKS ((G) INDICATES NOW GONE)

No	DESCRIPTION	BEARING	DISTANCE	ORIGIN
A	GIP FD	133°43'40"	1.025	DP 262886
B	GIP FD	109°19'40""	1.00	DP 262886
C	GIP FD	101°46'	0.51	DP 1210172
D	GIP FD	93°28'	0.42	DP 1210172
E	GIP FD	109°19'30"	0.98	DP 1188147
F	CB FD	278°06'35"	0.455	DP 262886
G	GIP FD	135°20'	1.045	DP 1188147
H	GIP FD	165°08'15"	2.04	DP 1233067
J	GIP FD	319°53'35"	1.00	DP 262886
K	DH&W FD	188°55'25"	4.17	DP 1210172
K	DH&W FD	169°07'45"	20.925	DP 1210172
L	DH&W FD	180°00'00"	4.23	DP 1210172
L	DH&W FD	182°58'10"	19.865	DP 1210172
M	GIP FD	280°49'35"	1.00	DP 262886
N	GIP FD	289°20'20"	1.00	DP 262886
P	GIP FD	182°41'15"	0.455	DP 231105
Q	GIP FD	288°51'20"	0.57	DP 1076555
R	GIP FD	182°41'20"	0.455	DP 231105
S	DH&W	132°31'00"	4.38	DP 1210172
S	DH&W	151°20'00"	19.775	DP 1210172
T	DH&W	150°42'15"	4.19	DP 1210172
T	DH&W	130°35'10"	21.05	DP 1210172
U	DH&W	173°45'00"	4.32	DP 1210172
U	DH&W	151°03'00"	19.9	DP 1210172
V	DH&W	118°52'40"	4.955	DP 1210172
V	DH&W	134°13'50"	20.675	DP 1210172
W	DH&W	176°19'40"	4.325	DP 1210172
W	DH&W	160°34'40"	19.795	DP 1210172
X	DH&W	152°27'10"	4.305	DP 1210172
X	DH&W	176°46'00"	19.94	DP 1210172
Y	DH&W	181°20'00"	4.06	DP 1210172
Y	DH&W	160°37'20"	20.8	DP 1210172
Z	DH&W	166°51'45"	4.435	DP 1210172
Z	DH&W	192°59'00"	19.87	DP 1210172
A1	GIP FD	206°33'25"	11.945	DP 1210172
B1	GIP FD	280°49'35"	1.00	DP 262886
C1	GIP FD	107°11'15"	4.295	DP 1188147

Figure 2: Subdivision Plan

APPENDIX 2 SENSITIVE RECEIVERS

APPENDIX 3 APPLICANT'S MANAGEMENT AND MITIGATION MEASURES

Issue	***Mitigation Measure***
Staging and Infrastructure	• Sydney Business Park would not commence construction works (involving land disturbance) on site until the temporary sediment basin in the Basin A area has been commissioned
	• Sydney Business Park would not commence operations of any building on site until all infrastructure necessary for the operation of that building has been commissioned, including: ○ external roadworks (including Hollinsworth Road and/or the north-south collector road); ○ stormwater drainage infrastructure, either via: - Basin E for Warehouse 3; or - Basin A (temporary or permanent basin) for Warehouses 1, 2 and 4; and ○ other services, including water, sewer, electricity and telecommunications
	• Sydney Business Park would enter into a voluntary planning agreement (VPA) or works-in-kind agreement (WIKA) with Council, in accordance with Section 7.4 of the EP&A Act, to facilitate the proposed construction of relevant infrastructure, including the: ○ Hollinsworth Road extension; ○ Hollinsworth Road / north-south collector road intersection roundabout; and ○ Basin A stormwater basin works. • The VPA or WIKA would be entered into prior to the commencement of construction of the relevant infrastructure
General Environmental Management	• Sydney Business Park would prepare a detailed Construction Environmental Management Plan (CEMP) for the Stage 3 Facilities development, prior to the commencement of construction
Design and Visual	• The Stage 3 Facilities would be developed generally in accordance with the architectural and landscape plans for the facilities
	• All external lighting would be installed in accordance with *AS 4282(INT) - Control of Obtrusive Effects of Outdoor Lighting*

Issue	*Mitigation Measure*
Soil and Water	• The Stage 3 Facilities would be developed generally in accordance with the Erosion and Sediment Control Plan for the facilities, and the Department's *Managing Urban Stormwater – Soils and Construction* guidelines
	• The Stage 3 Facilities would be developed generally in accordance with the salinity management measures in the Salinity Assessment and Management Plan (Douglas Partners, 2020), applicable Australian Standards including AS2159, AS3600 and AS4058, and the Department's *Building in a Saline Environment* guideline
	• The Stage 3 Facilities would be developed generally in accordance with the concept stormwater management plan for the facilities. A final stormwater management plan would be prepared in consultation with Council prior to the commencement of construction, including provision of: ○ rainwater tanks for each facility; ○ primary and secondary stormwater quality improvement devices and related stormwater infrastructure for each facility; and ○ temporary stormwater detention infrastructure in the Basin A area
Noise and Air Quality	• Construction and operation of the Stage 3 Facilities would be managed in accordance with the relevant noise criteria under the: ○ *Noise Policy for Industry (NPfI)*; ○ *Interim Construction Noise Guideline (ICNG)*; and ○ *Road Noise Policy*
	• Construction activities would be undertaken generally within the hours stipulated in the EPA's *Interim Construction Noise Guideline*
	• Construction noise would be managed in accordance with the measures outlined in the Noise Assessment, which would be addressed the CEMP for the development. The measures would include: ○ noise management controls, including: - site induction training; - operator instruction; - site noise planning, including locating noisy plant away from nearby receivers; - scheduling noisy activities so that they do not occur simultaneously, and/or during less sensitive time periods; and - selecting less noisy plant and equipment where practicable; ○ maintaining effective community consultation; and ○ maintaining a complaints handling and management system
	• Sydney Business Park would implement the following noise mitigation measures as soon as practicable during construction of the applicable facilities: ○ installation of a 2.4 metre high acoustic wall on the eastern boundary of the Warehouse 2 site; ○ installation of a 2.7 metre high acoustic wall on the boundary in the south-western corner of the Warehouse 4 site; and ○ ensure that rooftop mechanical air-conditioning units are located towards the western side of the office roof for Warehouse 2 and Warehouse 3 (with final placement subject to detailed design)
	• Dust emissions during construction works would be managed in accordance with standard best practice techniques, including: ○ minimising the area of disturbance as far as practicable; ○ minimising drop heights for materials being worked on the site; ○ keeping exposed surfaces moist at all times; ○ rehabilitating/revegetating disturbed surfaces as soon as practicable; and ○ ensuring that trucks are covered and do not track sediment onto public roads
Greenhouse Gas and Resource Use	• The Stage 3 Facilities would be developed in accordance with the energy and water resource use efficiency measures outlined in this EIS. This would include, amongst other things, rooftop photovoltaic solar systems for each warehouse, including nominally:

Issue	*Mitigation Measure*
	○ 1,000 kilowatt systems for Warehouse 1 (TJX Facility) and Warehouse 4 (API Facility); and ○ 100 kilowatt systems for Warehouses 2 and 3
Flora and Fauna	• Sydney Business Park would prepare and implement a Biodiversity Management Plan (BMP) for the development, as part of the CEMP. The BMP would be prepared by a suitably qualified ecologist, and include: ○ biodiversity management strategies for pre-construction, construction and post-construction activities, including pre-clearing control measures; ○ a fauna rescue and release procedure, in accordance with the Department's *Code of Practice for injured, sick and orphaned protected fauna*; ○ weed management measures; ○ reuse of resources, including topsoil, tree hollows, logs, coarse woody debris and bush rock; ○ identification and salvage of any tree hollows, and provision of nest boxes for hollows not able to be salvaged; and ○ procedures for dealing with any unexpected threatened species finds, including provisions for stop work, notification and communication, specialist advice, and relocation protocols
Aboriginal Heritage	• The identified Aboriginal heritage items (MPIP 17 and MPIP 18) would be managed in accordance with the recommendations of the Aboriginal Cultural Heritage Assessment, which would be addressed in an Aboriginal Cultural Heritage Management Plan for the development, prepared in consultation with the Registered Aboriginal Parties (RAPs) prior to the commencement of construction in the vicinity of the Aboriginal sites. These measures include: ○ surface collection of the identified artefacts prior to the commencement of construction in these areas, in consultation with the Registered Aboriginal Parties (RAPs); ○ demarcation and fencing of the non-impacted portion of MPIP 18 (which straddles the site boundary); and ○ procedures for managing any unexpected Aboriginal heritage objects encountered during the development.
Traffic	• Sydney Business Park would complete the following roadworks to the satisfaction of Council, prior to the commencement of operation of any of the Stage 3 Facilities that require access from that road: ○ Hollinsworth Road extension to the western side of the site; ○ North-south collector road between Astoria Street and Hollinsworth Road; ○ Roundabout intersection between Hollinsworth Road and the north-south collector road; and ○ Priority give-way intersection between Astoria Street and the north-south collector road.
	• Prior to the commencement of operation of any of the Warehouse Facilities, Sydney Business Park would enter into a delivery agreement (Works Authorisation Deed / Voluntary Planning Agreement) with TfNSW to deliver the Richmond Road upgrades generally in accordance with SMEC Concept Plan "30013007-Richmond-Rd-Align-01-SC", as outlined in the Supplementary RTS.
	• Site access, parking and internal circulation arrangements for the Stage 3 Facilities would be developed in accordance with relevant Australian Standards (including AS2890.1 and AS2890.2). Measures to minimise conflict between pedestrians, cars and trucks would be implemented (including signage), particularly in shared areas (including the shared car and truck access to Warehouse 3).
	• Construction Traffic Management Plans would be prepared to appropriately manage traffic and traffic-safety construction works
	• Sydney Business Park would prepare and implement a Green Travel Plan for the development, which would be prepared in consultation with TfNSW prior to the

Issue	*Mitigation Measure*
	commencement of operation of any of the warehouse facilities. The plan would include: ○ mode sharing targets and measures to achieve those targets; ○ strategies to reduce the proportion of single occupant car travel and increase car sharing, public and active transport travel to the site; ○ a strategy for communicating the plan to occupants, including a travel access guide providing information to occupants about sustainable travel options; ○ measures for ensuring pedestrian and cycling connectivity and end of trip facilities; and ○ identification of responsibilities for implementation of the plan
Wastes and Hazards	• The Stage 3 Facilities would be developed and managed generally in accordance with the Waste Management Plan for the facilities
	• The Stage 3 Facilities would be developed in accordance with the recommendations of the Bushfire Assessment for the facilities, including provision of: ○ Asset Protection Zones; ○ landscaping in accordance with the Planning for Bushfire Protection guidelines; ○ facility construction in accordance with the bushfire assessment and National Construction Code, including: - Warehouses 1 and 3 – BAL-LOW; - Warehouse 2 – ember protection measures; - Warehouse 4 – roof, sub-floor, western, southern and eastern elevations constructed to BAL-FZ, and northern elevation to BAL-12.5; and - ember protection measures for applicable warehouses; ○ water supply and hydrants in accordance with the BCA and relevant Australian Standards; ○ underground electrical services; and ○ preparation of a Bushfire Emergency Management and Evacuation Plan for each facility
	• All dangerous goods and hazardous substances would be stored in accordance with applicable standards, including AS/NZS 3833:2007 and AS 1940-2017
	• Risk assessment and reporting would be undertaken in accordance with the *Work Health and Safety Regulation 2017* (WHS Regulation)
	• Hazardous area classification would be prepared for flammable gases and liquids storage in accordance with AS/NZS 60079.10.1:2009 and the requirements of the WHS Regulation
	• Class 3 Flammable Liquids storage in Warehouse 4 would be restricted from the following areas of the warehouse, or as otherwise determined to ensure compliance with the screening thresholds in the *Applying SEPP 33* guideline: ○ within 6 metres of the northern warehouse wall; ○ within 1 metre of the eastern warehouse wall; and ○ within 3 metres of the southern warehouse wall.

APPENDIX 4 INCIDENT NOTIFICATION AND REPORTING REQUIREMENTS

WRITTEN INCIDENT NOTIFICATION REQUIREMENTS

1. A written incident notification addressing the requirements set out below must be submitted to the Planning Secretary via the Major Projects website within seven days after the Applicant becomes aware of an incident. Notification is required to be given under this condition even if the Applicant fails to give the notification required under condition C7 or, having given such notification, subsequently forms the view that an incident has not occurred.
2. Written notification of an incident must:
   a. identify the development and application number;
   b. provide details of the incident (date, time, location, a brief description of what occurred and why it is classified as an incident);
   c. identify how the incident was detected;
   d. identify when the applicant became aware of the incident;
   e. identify any actual or potential non-compliance with conditions of consent;
   f. describe what immediate steps were taken in relation to the incident;
   g. identify further action(s) that will be taken in relation to the incident; and
   h. identify a project contact for further communication regarding the incident.
3. Within 30 days of the date on which the incident occurred or as otherwise agreed to by the Planning Secretary, the Applicant must provide the Planning Secretary and any relevant public authorities (as determined by the Planning Secretary) with a detailed report on the incident addressing all requirements below, and such further reports as may be requested.
4. The Incident Report must include:
   a. a summary of the incident;
   b. outcomes of an incident investigation, including identification of the cause of the incident;
   c. details of the corrective and preventative actions that have been, or will be, implemented to address the incident and prevent recurrence; and
   d. details of any communication with other stakeholders regarding the incident.

Owen Walsh

From: Owen Walsh
Sent: Thursday, 24 November 2022 12:03 PM
To: 'council@blacktown.nsw.gov.au'
Subject: Sydney Business Park - Stage 3 SSD-10477 Warehouse 2 Construction Environmental Management Plan for Device Technologies

Dear Council,

We submit the Construction Environmental Management Plan for Warehouse 2 for Device Technologies under the Sydney Business Park Stage 3 SSD-10477 to Council for their information:

- Condition B1 and B2 – Construction Traffic Management Plan;
- Condition B11 and B12 – Erosion and Sediment Control Plan;
- Condition B18 and B19 – Construction Noise Management Plan;
- Condition B24 and B25 – Aboriginal Cultural Heritage Management Plan including Unexpected Finds for Aboriginal Artefacts (noting this has already been approved for earlier stages);
- Condition B44 – Unexpected Finds Protocol for Contamination;
- Condition B46 and B47 – Landscape Management Plan; and
- Conditions C2, C3 and C4 – Construction Environmental Management Plan.

To download please follow the link https://spaces.hightail.com/receive/GOHjqB8zko.

For your records, we also note that we are seeking to finalise the Construction Certificate on 09/12/2022, and commence works on 04/01/2023.

Should you have any queries, please do not hesitate to contact me.

Regards,

Owen Walsh | Development Director | **Sydney Business Park** | 15 Hollinsworth Road Marsden Park New South Wales 2765 | Phone 0413 442 096 | sydneybusinesspark.com.au

Owen Walsh

From: Owen Walsh
Sent: Thursday, 24 November 2022 12:07 PM
To: council@blacktown.nsw.gov.au
Subject: Sydney Business Park - Stage 3 SSD-10477 Warehouse 2 Draft Construction Traffic Management Plan for Device Technologies
Attachments: Condition B02 - Construction Traffic Managment Plan.pdf

Dear Council,

We submit the Draft Construction Traffic Management Plan for Warehouse 2 for Device Technologies under the Sydney Business Park Stage 3 SSD-10477 to Council as required by Condition B1.

Should you have any comments, please let us know in next week, as we are seeking to finalise the Construction Certificate on 09/12/2022, and commence works on 04/01/2023.

Regards,

Owen Walsh | Development Director | **Sydney Business Park** | 15 Hollinsworth Road Marsden Park New South Wales 2765 | Phone 0413 442 096 | sydneybusinesspark.com.au

Jeffrey Peng

From: Andy Karklins <Andy.Karklins@blacktown.nsw.gov.au>
Sent: Thursday, 8 December 2022 8:23 AM
To: Owen Walsh
Cc: Nadeem Shaikh
Subject: RE: Sydney Business Park - Stage 3 SSD-10477 Warehouse 2 Draft Construction Traffic Management Plan for Device Technologies

Good morning Owen

We have reviewed the attached Construction Traffic Management Plan for Sydney Business Park Stage 3 Warehouse 2 – Hollinsworth Road, Marsden Park -TCP prepared by Roadwork Solutions. It appears to be in order based on the information provided.

We offer the following comments:

- It is the project managers responsibility to implement the traffic control measures as identified in the CTMP.

Regards

Andy Karklins
Traffic Engineer

9839 6305

Andy.Karklins@blacktown.nsw.gov.au
PO Box 63 Blacktown NSW 2148
blacktown.nsw.gov.au

We acknowledge the Darug as the First People of the Blacktown City region

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WEEKLY ENVIRONMENTAL INSPECTION CHECKLIST
Form 9.0

PRIME CONSTRUCTIONS

PROJECT NAME:	

Inspection by:	
Date:	
Time:	

Main Activities for the Week

General Weather Conditions for the Week

1.0 EROSION AND SEDIMENTATION CONTROL *(POEO Act 1997 Part 5.3 S120)*

Inspection Description	Yes	No	N/A	Corrective Action Required *
1.1 Do sediment fences, bagged hay bales, or similar devices need alteration or maintenance to adequately control sedimentation?	☐	☐	☐	☐
1.2 Do catch or diversion drains need alteration or maintenance to adequately control run-off water?	☐	☐	☐	☐
1.3 Do any barriers require removal of silt?	☐	☐	☐	☐
1.4 Are stockpiles and bare areas adequately stabilised?	☐	☐	☐	☐
1.5 Is there any visible discolourisation of site run-off water?	☐	☐	☐	☐
1.6 Do bunded areas (eg concrete washout) require pumping out?	☐	☐	☐	☐
1.7 Is flocculation required (eg turbid water)?	☐	☐	☐	☐
1.8 Is there visible oil or grease in bunds?	☐	☐	☐	☐
1.9 Is repair needed on bunds?	☐	☐	☐	☐
1.10 Is there any area where sediment or contaminated water discharges from the site uncontrolled?	☐	☐	☐	☐
1.11 Is mud / soil from vehicle wheels present on public roads?	☐	☐	☐	☐

** Identification of Corrective Action requires item to be entered in Corrective Action Register (attached)*

2.0 AIR QUALITY *(POEO Act 1997 Part 5.4 S128)*

Inspection Description	Yes	No	N/A	Corrective Action Required *
2.1 Is visible dust generated by site work activities, stockpiles, disturbed areas or site roads?	☐	☐	☐	☐
2.2 Are trucks carrying uncovered loose material entering or leaving the site?	☐	☐	☐	☐

2.3 Is plant and equipment producing visible emissions for longer than 10 seconds at any one time?	☐	☐	☐	☐

** Identification of Corrective Action requires item to be entered in Corrective Action Register (attached)*

3.0 NOISE AND VIBRATION *(POEO Act 1997 Part 5.5 S139,140)*

Inspection Description	Yes	No	N/A	Corrective Action Required *
3.1 Are high noise-generating activities being undertaken?	☐	☐	☐	☐
3.2 Is there any new plant on site that requires noise-level management?	☐	☐	☐	☐
3.3 Is noise likely to impact on nearby sensitive receptors?	☐	☐	☐	☐
3.4 Is work outside approved hours being undertaken without approval?	☐	☐	☐	☐
3.5 Are vibration-generating activities being carried out likely to affect nearby structures or sensitive areas?	☐	☐	☐	☐

** Identification of Corrective Action requires item to be entered in Corrective Action Register (attached)*

4.0 WASTE MANAGEMENT *(POEO Act 1997 Part 5.3 S142A,144)*

Inspection Description	Yes	No	N/A	Corrective Action Required *
4.1 Is waste being deposited or stored in places other than designated areas and collection facilities?	☐	☐	☐	☐
4.2 Has stored waste reached levels requiring disposal?	☐	☐	☐	☐
4.3 Are only licenced contractors being used to dispose of waste?	☐	☐	☐	☐
4.4 Has any spillage of hazardous waste occurred on site?	☐	☐	☐	☐
4.5 Are there any further improvements to do to reduce waste by avoidance, reuse or recycling?	☐	☐	☐	☐
4.6 Do on-site storage and collection areas need repair or maintenance?	☐	☐	☐	☐
4.7 Is the site in a generally unclean or untidy state? Is there any litter?	☐	☐	☐	☐

** Identification of Corrective Action requires item to be entered in Corrective Action Register (attached)*

5.0 FLORA AND FAUNA *(National Parks and Wildlife Act 1979 Part 7 S92)*

Inspection Description	Yes	No	N/A	Corrective Action Required *
5.1 Have findings or sightings of any native animal species occurred?	☐	☐	☐	☐
5.2 Are there any noxious or environmental weeds on the work site which still need to be controlled?	☐	☐	☐	☐
5.3 Has clearing of vegetation occurred outside the clearing zone? Have and hollow trees been removed?	☐	☐	☐	☐
5.4 Have construction activities affected any fauna species (eg kills, injuries, isolation of habitat, disturbance of breeding or nesting sites, destruction of food sources)?	☐	☐	☐	☐
5.5 Have any revegetation works been carried out? Are they intact? Are they effective? Have they been disturbed at all by construction activities or by fauna?	☐	☐	☐	☐

** Identification of Corrective Action requires item to be entered in Corrective Action Register (attached)*

6.0 ARCHAEOLOGY AND HERITAGE *(Heritage Act 1977 Div 5 S118 / National Parks and Wildlife Act 1997 Part 4 S63)*

Inspection Description	Yes	No	N/A	Corrective Action Required *
6.1 Have any new finds of cultural or heritage value been identified?	☐	☐	☐	☐
6.2 Has any damage occurred to site or items of cultural or heritage value?	☐	☐	☐	☐

6.3 Do protection measures for such sites or items require maintenance?	☐	☐	☐	☐

** Identification of Corrective Action requires item to be entered in Corrective Action Register (attached)*

7.0 HAZARDOUS MATERIALS AND DANGEROUS GOODS *(Contaminated Land Management Act 1997 Part Div 3 S28)*

Inspection Description	Yes	No	N/A	Corrective Action Required *
7.1 Has any contamination been uncovered on the site?	☐	☐	☐	☐
7.2 Are any hazardous materials or dangerous goods incorrectly stored on site?	☐	☐	☐	☐
7.3 Do any bunds or storage containers of hazardous materials or dangerous goods need repair or maintenance?	☐	☐	☐	☐
7.4 Are any hazardous materials or dangerous goods not labelled or inadequately labelled?	☐	☐	☐	☐
7.5 Is on-site servicing and fueling of plant and equipment carried out in an uncontrolled manner or within 20m of a creek?	☐	☐	☐	☐
7.6 Are emergency spill kits on site?	☐	☐	☐	☐

** Identification of Corrective Action requires item to be entered in Corrective Action Register (attached)*

8.0 COMMUNITY RELATIONS

Inspection Description	Yes	No	N/A	Corrective Action Required *
8.1 Does the community need to be advised of pending operations likely to cause a nuisance?	☐	☐	☐	☐

A. Number of waste bin changeovers occurring during the week:	_____ x _____ m3 bins
B. Any Council visits or notices recorded during the week? *(if yes, provide details below)*	☐ YES ☐ NO
C. Any EPA visits or notices recorded during the week? *(if yes, provide details below)*	☐ YES ☐ NO
D. Any public complaints recorded during the week? *(if yes, provide details below)*	☐ YES ☐ NO

Details:

Inspection by:

Name	Position	Signature	Date
	Site Manager / General Foreman		___ / ___ / ___

Item No.	Corrective Action Required	Responsibility	Corrective Action
			Closed-Out: ☐ Yes Date of Re-Inspection: _____ / _____ / _____ Inspected by: ________________
			Closed-Out: ☐ Yes Date of Re-Inspection: _____ / _____ / _____ Inspected by: ________________
			Closed-Out: ☐ Yes Date of Re-Inspection: _____ / _____ / _____ Inspected by: ________________
			Closed-Out: ☐ Yes Date of Re-Inspection: _____ / _____ / _____ Inspected by: ________________
			Closed-Out: ☐ Yes Date of Re-Inspection: _____ / _____ / _____ Inspected by: ________________

Item No.	Corrective Action Required	Responsibility	Corrective Action
			Closed-Out: ☐ Yes Date of Re-Inspection: _____ / _____ / _____ Inspected by: ____________________
			Closed-Out: ☐ Yes Date of Re-Inspection: _____ / _____ / _____ Inspected by: ____________________
			Closed-Out: ☐ Yes Date of Re-Inspection: _____ / _____ / _____ Inspected by: ____________________
			Closed-Out: ☐ Yes Date of Re-Inspection: _____ / _____ / _____ Inspected by: ____________________
			Closed-Out: ☐ Yes Date of Re-Inspection: _____ / _____ / _____ Inspected by: ____________________

Construction Traffic Management Plan

Sydney Business park

Stage 3

Warehouse 2

Revision control:

Revision	Date	Description	Approved
Draft	09 SEP 2022	First Draft – Tori Curtin	
A	15 NOV 2022	Rev 001 – Tori Curtin	
B	09 DEC 2022	Final – Tori Curtin	
C			
D			

Contents

1.0 Scope of Works

This Construction Traffic Management Plan (CTMP) facilitates the safe implementation of a Traffic guidance scheme prepared to address traffic access and safety issues associated with Sydney Business Park's construction of a new warehouse & 2-storey office.

This TMP has been prepared to provide details of the management of the traffic, plant and site compound activities associated with the proposed works. The primary purpose of this Plan is to provide traffic and plant management measures to be incorporated into the operational management of the works to ensure that all traffic and plant activity associated with work occurs with minimal interaction with adjoining public road traffic movements as well as ensuring the safe working conditions for construction crews. The traffic management plan is designed to be consistent with the overall construction plan for the project.

2.0 Location of Works

This TMP will be implemented for the proposed works associated with Prime Constructions new construction situated at Hollinsworth Rd, Marsden Park. The site is situated Approx. 1km West of Harris Ave, Approx. 280m South of Astoria St. A location map is presented below.

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3.0 Project Scope & Context

Sydney Business Park are undertaking the construction of a new 15,700sqm Warehouse & 2 storey office. The project is anticipated to have a construction period of nine months beginning in November 2022 & completing approx. August 2023. Warehouse 2 will be a highly efficient facility that has the capacity to accommodate approx. 125 staff. Warehouse 2 will also have the following features:

Provision of a high quality and efficient Distribution Centre

Recessed and on grade docks

Flexible Design Solution and Storage Requirements

Environmentally sensitive design principles to be adopted

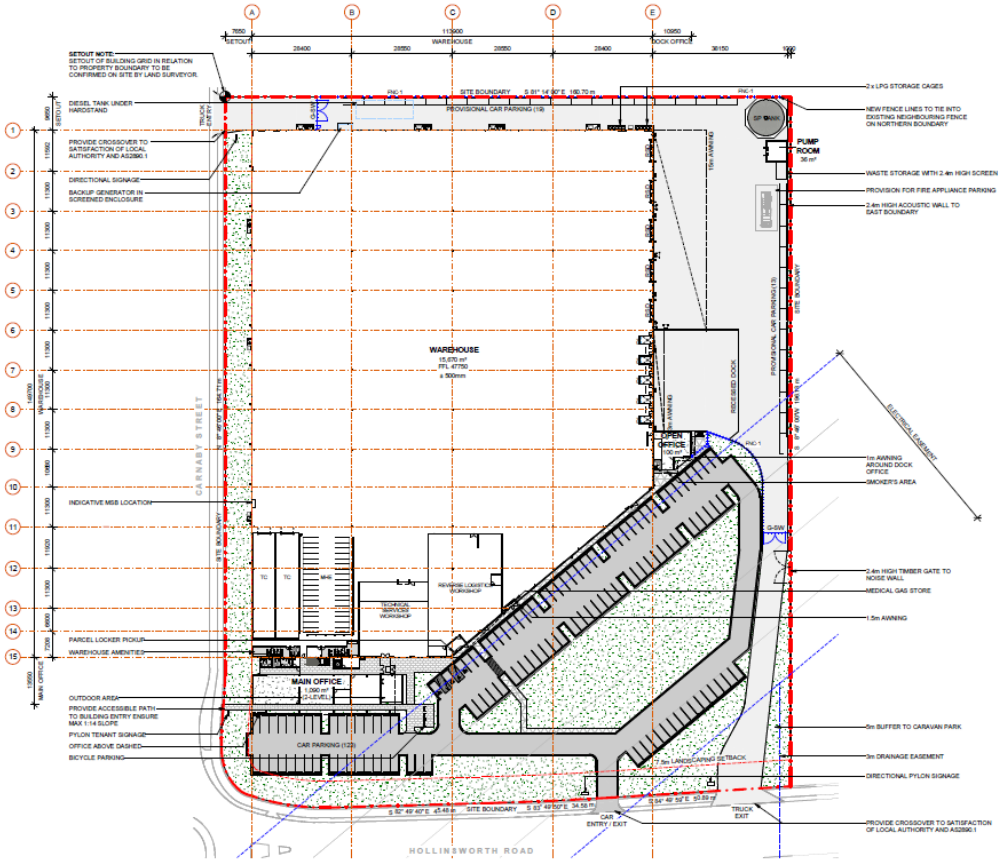
Office and amenities which are both functional and modern and commercial standard

Accessibility and direct access to main arterial road network

Separate truck entry/exit to car parking

Truck movements based on B-Doubles inclusive of internal access roads and hardstand areas

Extract from Site plan



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4.0 Impact Assessment

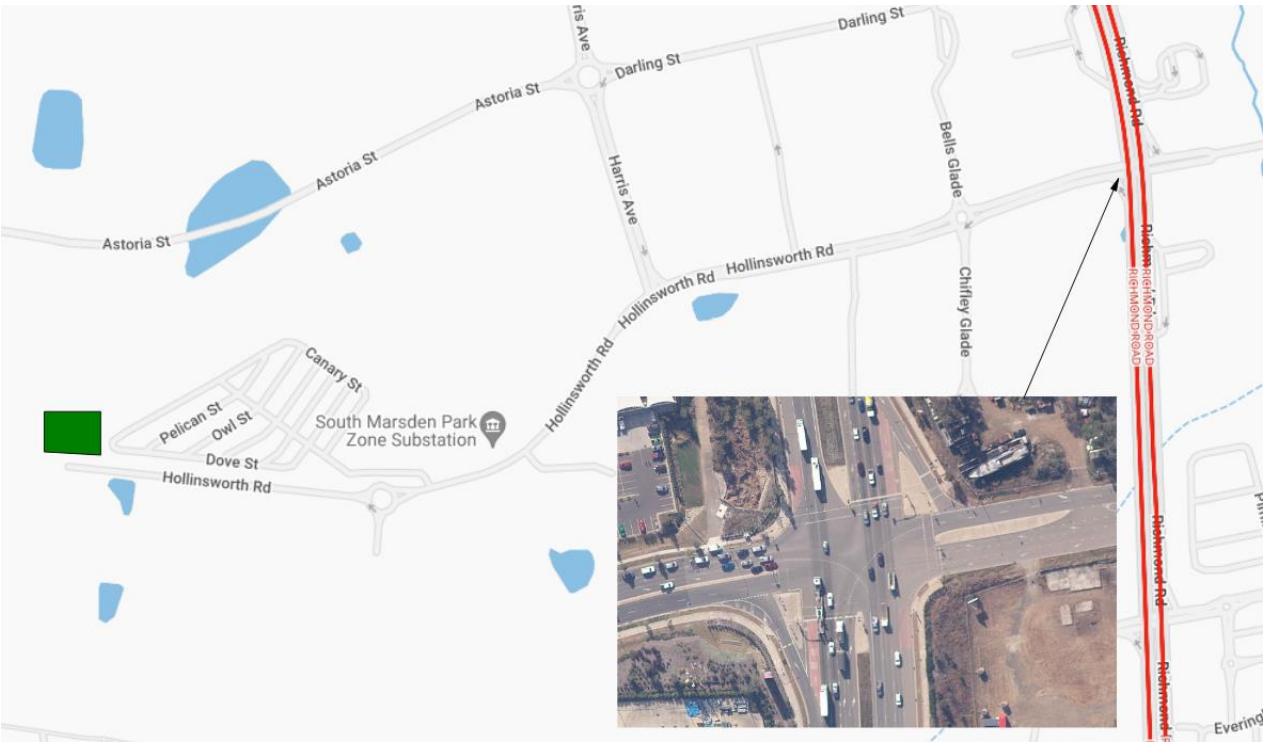
Existing Road Network

Richmond Rd – A classified RMS State Road that generally runs in a Northern & Southern direction to the East of the Site. The road is a dual carriageway and is subject to an 80km/h speed zoning. The road carries approximately 35,915 vehicles per day (Station 71059)

Hollinsworth Rd – A Local Council Road that generally runs in an Eastern & Western direction to the East of the Site. It connects to Richmond Rd in the East and Harris Ave to
the West and generally carries two lanes of traffic in each direction and is subject to a speed limit of 60 km/h.

Carnaby St – A Local Council Road that generally runs in a Northern & Southern direction to the West of the Site. It connects Astoria St in the North and Hollinsworth Rd in the West and generally carries one lanes of traffic in each direction and is subject to a speed limit of 50 km/h.

Image of Key Intersections



The impact on the traffic flow on the adjacent and surrounding road network from construction traffic will be minimal & intersections will have the capacity to handle construction vehicles

Site access

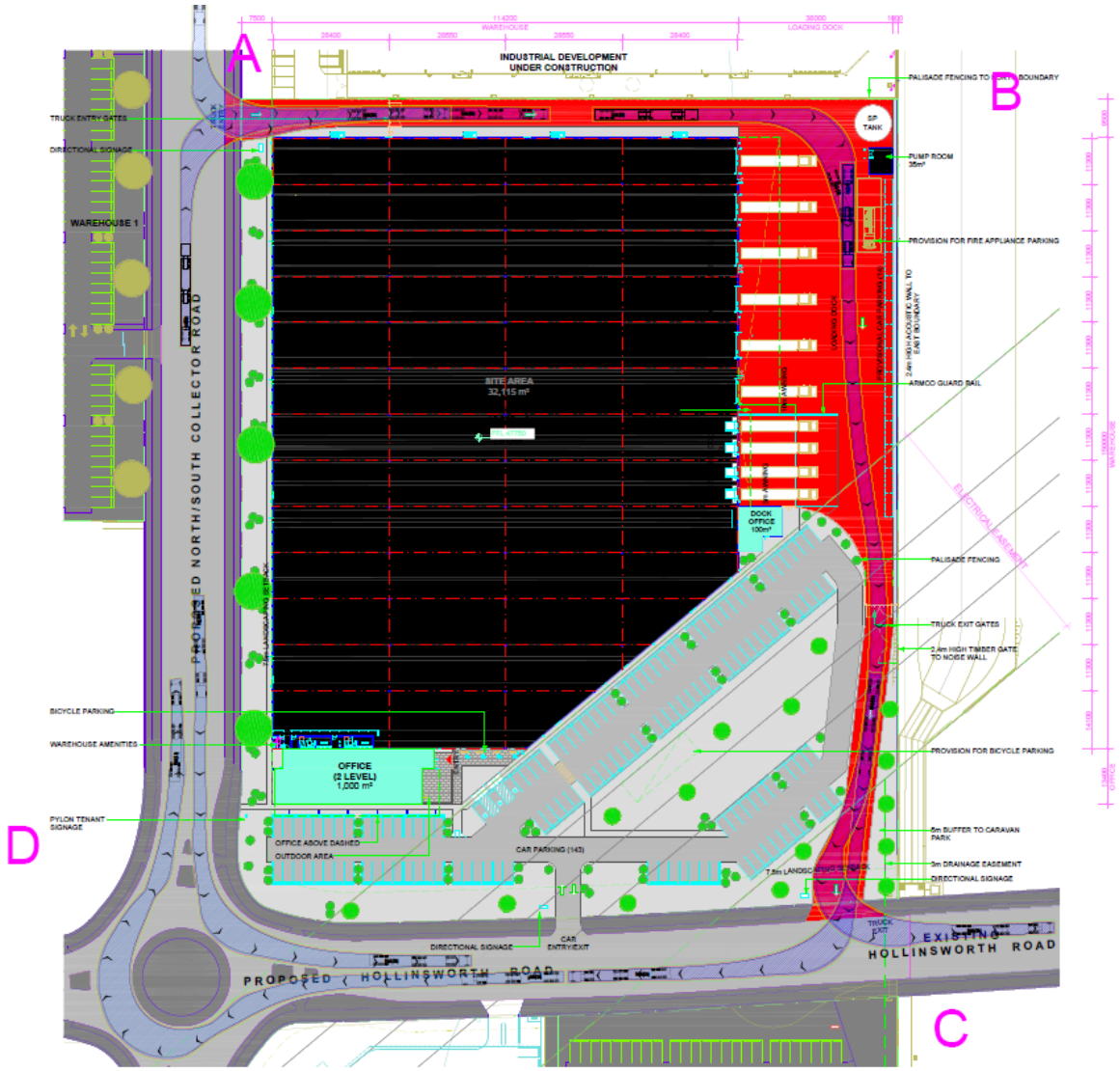
The sites construction vehicle access & exit points will be located on Carnaby St & Hollinsworth Rd. Contractor parking would be located on Hollinsworth Rd & Carnaby St, utilizing the local on-street parking that's available.

Pedestrians attempting to cross the site's heavy vehicle accesses are to be managed through signage, pedestrian barriers, and traffic controllers

Emergency vehicle access to and from the site will always be available while the site is occupied by construction workers. This process would be implemented through emergency protocols on the site which will be developed by the contractor.

As a safety precaution the use of safety barriers is recommended to ensure that appropriate separation of workers, plant and construction traffic is maintained. All oversized deliveries will occur as per RMS guidelines and council restrictions.

Extract from site Plan



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Hours of Operation

Standard hours of construction for the duration of the project are anticipated to be between 7:00 am – 6:00 pm, Monday to Friday & 8:00am – 1:00pm on Saturday. It is not anticipated that activities during the construction program will have to be completed outside of these hours. However, any such works will be coordinated and notified as required.

Construction Vehicles

Construction vehicles likely to travel to and from site are likely to include:

- Floats for Earthwork and Piling machines
- Heavy and medium rigid trucks for construction spoil removal
- Heavy and medium rigid trucks for construction material delivery
- Mobile cranes and concrete pumps
- Concrete Agitators: and
- Trade vehicles

During the construction period, the construction vehicle movement activities are set out in the below table.

Task	**Duration**	**Vehicle movement per day**
Excavation	4 weeks	25
General construction	32 weeks	25
Landscaping	4 weeks	25
Touch up	8 weeks	25

Vehicle Dimensions

SRV – Small rigid vehicle-load capacity of 4 tonnes, typically single rear axle, are 6 m long

MRV – Medium rigid vehicle-load capacity of 8 tonnes, typically single rear axle, are 8.8 m long

HRV – Heavy rigid vehicle-load capacity of 12-16 tonnes, typically dual rear axle, up to 12.5 m long

AV – Truck and dog combinations, typically an MRV with a trailer

Construction Routes

Construction vehicles will travel to and from site on arterial road suitable to their vehicle type. The main routes are illustrated in the figure below.

The construction access points to the site will be on Carnaby St and Hollinsworth Rd. This is accessible from Richmond Rd; this will connect all construction vehicles to the wider road network

Construction Travel Routes

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5.0 Traffic Control

Each work task has different requirements, these will be identified individually, and management plans put into place, the site TCP will include more detail of this implementation and how the controls put in place will minimize disruption whilst maintain a safe work area for construction crews. These Traffic Control Plans will be produced by Prime Constructions.

For any works that are to be undertaken outside of the site's parameters, the appropriate Traffic Control Plan will be developed in line with Australian Standard 1742.3 and RMS Traffic Control at Work Sites Guidelines, the Austroads Guides to Temporary Traffic Management (AGTTM), and will be produced in consultation with Council.

Each work site will have a TCP which will address the following:

Traffic flow. All traffic will be managed by a TCP which will comply with AS 1742.3 and the RMS Traffic Control at Work Sites manual (TCWSM). Please refer to the Traffic Control Plans attached.

Pedestrian movement. All pedestrian movement including entry, egress and movement around the work area will be in accordance with RMS TCWSM Section 9.3 – Pedestrians. All work areas will be secured with barriers and fencing to ensure that no unauthorized entry for pedestrians is possible.

Plant movement. All plant movement including entry, egress and movement within the work area in accordance with RMS TCWSM Section 7 – Providing for works traffic.

Cyclist movement. All cyclist movement including around or adjacent to the work area will be in accordance with RMS TCWSM Section 9.4 – Cyclist.

Stakeholder Authority. The work site will require the authority of the stakeholder – Blacktown City Council which will be onsite at all times.

5.1 Vehicle Access

Vehicle access will be via Carnaby St & Hollinsworth Rd. Stoney Creek retirement village is located directly across from the site, residents' access will be maintained at all times and vehicle access to all properties within the surrounding area are to remain unaffected.

5.2 Pedestrian Access

Most construction activities would occur off-street. Although construction activities occur off road, the pedestrian and cycle connections would be managed by signage during construction activities.

All construction vehicles that are exiting the site are to give way to all pedestrians, cyclists & traffic that are using the adjacent connections to the work front.

5.3 Signage

The TMP introduces new regulatory and advice signage designed to provide motorists and pedestrians the clearest notification of the potential hazards created by the new work site. Parking restrictions signs will also be used for construction zones.

Additional static signs to inform motorist and pedestrians will be put on the approach to works. Please refer to Traffic Control Plans/Traffic Guidance Schemes for further information.

5.4 Barriers

A number of barriers may be installed as required. Sydney Business Park may deploy appropriate temporary barrier system compliant with AS 3845. A work site exclusion zone will be created to cater for this deflection distance where appropriate.

6.0 Maintaining Network Performance

6.1 Road Occupancy

If Required Sydney Business Park will obtain an approval from Blacktown City Council and TfNSW prior to the commencement of any works on the road except in the case of an emergency, or when directed by Police or Emergency services, Sydney Business Park will endeavour to reinstate road as soon as practicable.

All applications will be forwarded to Blacktown City Council and TfNSW with an allowance for the Traffic Committee to approve the application (if required). Associated works (utilities) may require ROLs, as required the traffic control subcontractor (Roadwork Solutions) will obtain ROL's and carry out works as per ROL conditions.

All ROL's will comply with the overarching road safety and traffic management principles, objectives and targets outlined in the Project Construction Management Plan.

6.2 Surrounding Parking Modifications

There will be no parking modifications made to the surrounding area at this stage of planning.

6.3 Construction Workers Parking

Temporary Key contractor & staff parking will be located on-street on Carnaby St & Hollinsworth Rd.

6.4 Unplanned Events (Incident Response)

Sydney Business Park will manage all incidents which may contribute to congestion, aggravate the free flow of traffic, or threaten the wellbeing of any road user within the Project boundaries.

6.5 Planned Events

Blacktown City Council and Transport for NSW events calendar will be considered when programming this work, to ensure there are no conflicts with local events or other motorway works. Consultation will continue with the council regarding any issues working during proposed times.

6.6 Public Transport

No public transport services or networks will be affected by works.

6.7 Property Access

All property accesses adjacent to, and the surrounding area will be maintained wherever possible. Any restrictions to property access will be extensively communicated to stakeholders prior to works commencing.

6.8 Emergency Services

This arrangement will result in minimal impact on emergency vehicles. Emergency Services will be provided advance notice of any changes via the site management team and email updates.

6.9 Monitor the effectiveness of control measures

The use of an inspection checklist will be implemented to monitor the effectiveness of the traffic control measures in place. A traffic control safety inspection will be completed at least once per month, with any minor modifications completed as required. Any major modifications will be assessed and implemented by a suitably qualified person.

6.10 Tree Protection Management

All street trees and trees on private property that are protected under Blacktown City Council's controls, shall be retained and protected in accordance with AS 4970 - 2009 'Protection of Trees on Development Sites' during demolition and construction works except where Council's prior written consent has been obtained.

7.0 Community/Advertising/Consultation

In order for any construction traffic management strategy to work effectively, continuous communication is required between all parties, which may be potentially impacted upon, the builder and the regulatory authority. This establishes a dynamic response process which allows for the adjustment of control methods and criteria for the benefit of all parties.

The objective in undertaking a consultation process is to:

- Inform and educate the groups about the project and the noise controls being implemented.
- Increase understanding of all acoustic issues related to the project and options available.
- Identify group concerns generated by the project, so that they can be addressed; and
- Ensure that concerned individuals or groups are aware of and have access to a Constructions Complaints Register which will be used to address any construction noise related problems should they arise.

Community consultation is recommended prior to any works commencing on site, with letterbox notifications to all identified surrounding sensitive receivers.

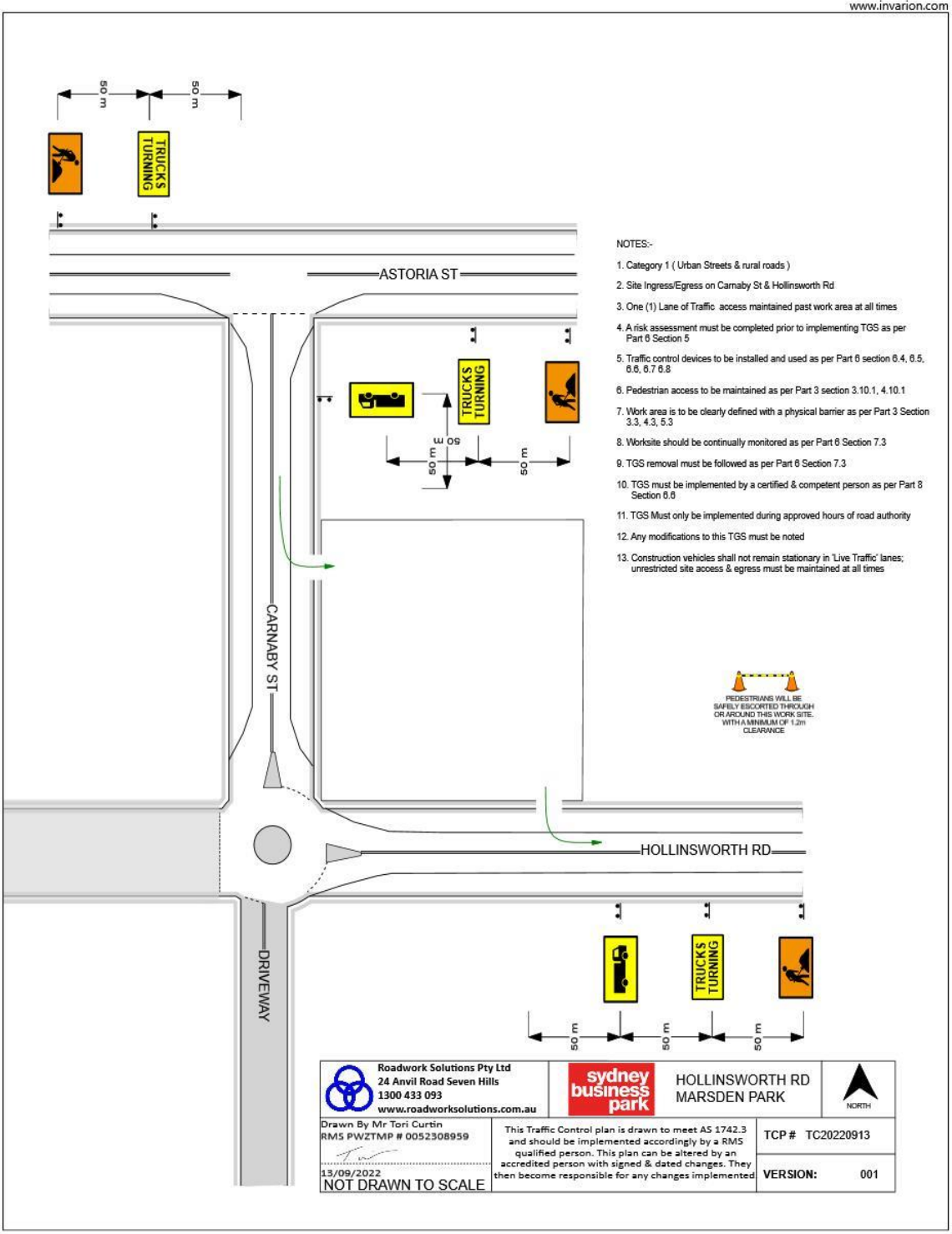
8.0 Contacts

Contact	Position	Mobile No.
Brian Kelley	Site Manager	0418 244 961
Myles Fowler	Project Manager	(02) 9418 7707
Tori Curtin	Roadwork Solutions Traffic Consultant	0423 289 786
Transport Management Centre	Operations Centre	1 800 679 782

9.0 Traffic Control Plan/Traffic Guidance Scheme

Carnaby St – VMP

www.invarion.com



NOTES:-

1. Category 1 (Urban Streets & rural roads)
2. Site Ingress/Egress on Carnaby St & Hollinsworth Rd
3. One (1) Lane of Traffic access maintained past work area at all times
4. A risk assessment must be completed prior to implementing TGS as per Part 6 Section 5
5. Traffic control devices to be installed and used as per Part 6 section 6.4, 6.5, 6.6, 6.7 6.8
6. Pedestrian access to be maintained as per Part 3 section 3.10.1, 4.10.1
7. Work area is to be clearly defined with a physical barrier as per Part 3 Section 3.3, 4.3, 5.3
8. Worksite should be continually monitored as per Part 6 Section 7.3
9. TGS removal must be followed as per Part 6 Section 7.3
10. TGS must be implemented by a certified & competent person as per Part 8 Section 6.6
11. TGS Must only be implemented during approved hours of road authority
12. Any modifications to this TGS must be noted
13. Construction vehicles shall not remain stationary in 'Live Traffic' lanes; unrestricted site access & egress must be maintained at all times

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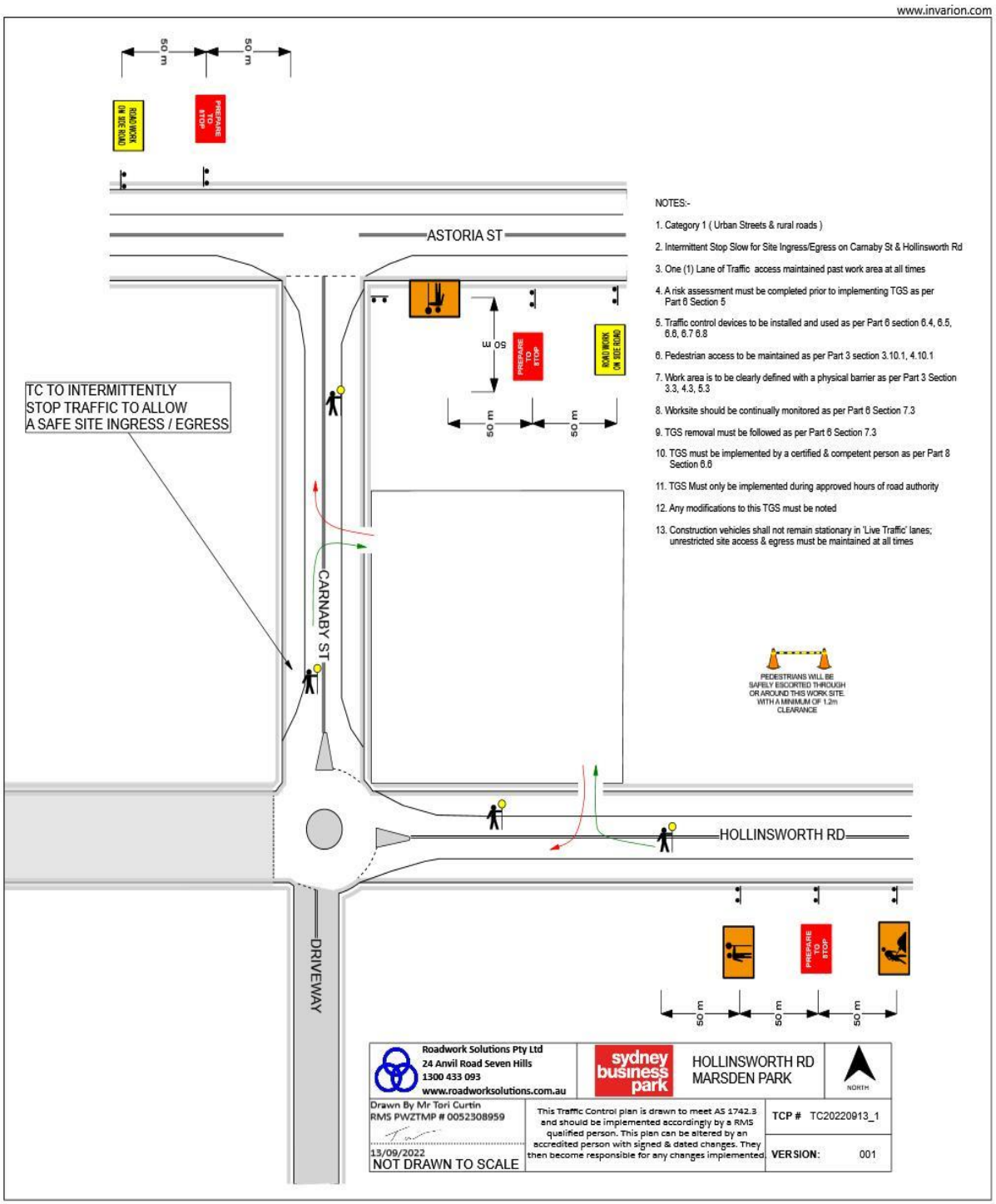
Carnaby St & Hollinsworth Rd – Intermittent Stop Slow



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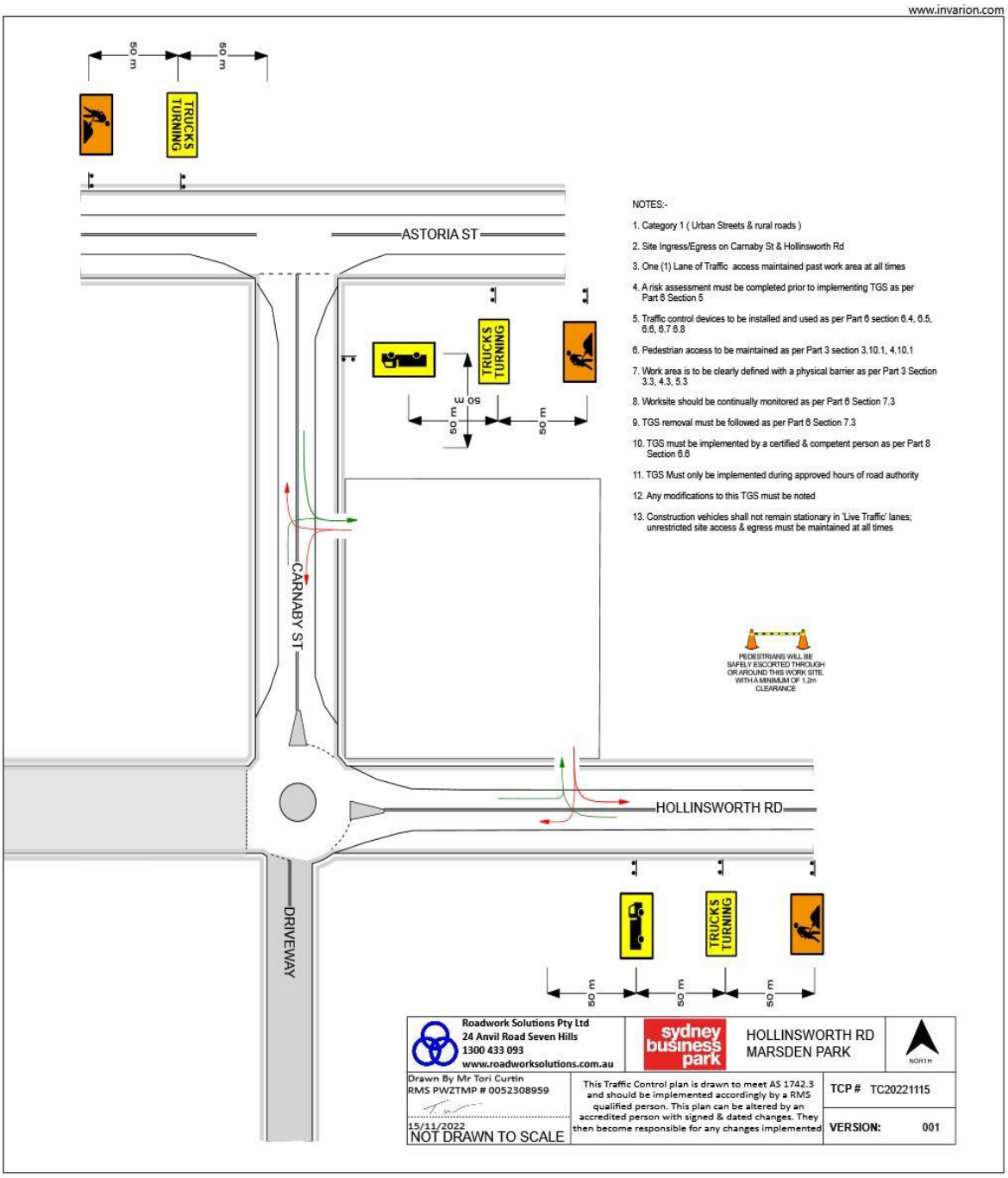
Carnaby St – VMP 002



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10.0 CTMP Approval

Sydney Business Park representative to sign off

The Project Manager will verify the long term TMP is completed and suitable for consideration by the approval authorities:

Name and signature:	Date:

Road Authority representative to sign off

The Road Authority Project Manager will email confirmation that this TMP is approved for implementation to the Sydney Business Park Project Manager. The signature box below will record a note confirming receipt of that email. A copy of the email will be attached as an Appendix to this document.

Name and signature:	Date:

11.0 Driver Code of Conduct

General Requirements

Construction vehicle drivers travelling to and from the site must:

- Have undertaken a site induction carried out by an approved member staff or suitably qualified person under the direction of management.
- Hold a valid driver's licence for the class of vehicle that they operate.
- Operate the vehicle in a safe manner within and external to the quarry site.
- Comply with the direction of authorised site personnel when within the site.

Heavy Vehicle Speed

Increased speed means not only an increased risk of crashing but also increased severity if an accident occurs. A study undertaken for the Australian Transport Safety Bureau found that travelling 10 km/h faster than the average traffic speed can more than double the risk of involvement in a casualty accident. (Source Roads and Maritime Services (RMS) previously known as Roads and Traffic Authority (RTA)).

There are two types of speeding:

- Where a heavy vehicle travels faster than the posted speed limit; and
- Where a driver travels within the speed limit but because of road conditions (e.g. fog or rain) this speed is inappropriate. (Source RMS).

Drivers and truck operators are to be aware of the "Three Strikes Scheme" introduced by the Roads and Maritime Services which applies to all vehicles over 4.5 tonnes. When a heavy vehicle is detected travelling at 15 km/h or more over the posted or relevant heavy vehicle speed limit by a mobile Police unit or fixed speed camera, the Roads and Maritime Services will record a strike against that vehicle. If three strikes are recorded within a three-year period, the Roads and Maritime Services will act to suspend the registration of that vehicle (up to three months).

More information is available from the Roads and Maritime Services website.

Vehicle speed on public roads is enforced by the NSW Police Service.

The speed limit within the quarry site is 20 km/h which is to be strictly maintained.

Heavy Vehicles Driver Fatigue

Fatigue is one of the biggest causes of accidents for heavy vehicle drivers. The Heavy Vehicle Driver Fatigue Reform was therefore developed by the National Transport Commission (NTC) and approved by Ministers from all States and Territories in February 2007.

The heavy vehicle driver fatigue law commenced in NSW on 28 September 2008 and applies to trucks and truck combinations over 12 tonne GVM (however there are Ministerial Exemption Notices that can apply).

Under the law, industry has the choice of operating under three fatigue management schemes:

- Standard Hours of Operation
- Basic Fatigue Management (BFM)
- Advanced Fatigue Management (AFM)

Heavy Vehicle Compression Braking

Compression braking by heavy vehicles is a source of irritation to the community generating many complaints especially at night when residents are especially sensitive to noise.

In some instances, compression braking is required for safety reasons however when passing through or adjacent to residential areas or isolated farmsteads a reduction in the speed of the vehicle is recommended to reduce the instances and severity of compression braking.

Heavy Vehicle Noise

The operating hours for transportation of materials to and from site are:

Monday – Saturday (except Public Holidays) 7:00 am to 6:00 pm

Sundays and Public Holidays No activities

The following activities may be carried out on the site outside these hours of operation.

- delivery or dispatch of materials as requested by Police or other authorities; and
- Emergency work to avoid the loss of lives, property and/or to prevent environmental harm.

At the commencement of the working day it is not unusual for drivers to arrive early and wait for opening. If this occurs drivers are to wait with engines turned off.

Vehicle Departure and Arrival

Heavy Vehicles travelling in close proximity on single lane public roads can be of concern to light vehicle drivers as well as increasing noise through or adjacent to residential areas. To alleviate public concern and increase road safety, heavy vehicles leaving the site should be separated by a minimum two-minute interval.

It is difficult to schedule arrivals to the site (except at the commencement of work for the day), however, when a driver becomes aware, through visual contact or two-way contact between trucks, that they will arrive at approximately the same time then they are to ensure that there is a suitable gap between vehicles.

12.0 Traffic Control Inspection Checklist

SITE AUDIT CHECKLIST

Date…… Time…… Completed by……
Name of Supervisor:…… Project:……
Name of Client…… Foreman ……..
Location…… TCP No……

				Tick or cross in the appropriate box:
No.	**Conditions**	**Acceptable**	**Not Acceptable**	**Not Applicable**
1	**Traffic Control Plan**			
1.1	Is an approved TCP on site & has it been modified by an authorized person?			
1.2	Have signs & devices been correctly implemented as per the TCP?			
1.3	Could the worksite be set out differently to minimize the impact on traffic, pedestrians &/or cyclists?			
1.4	Is the clearance between workers & traffic adequate for worksite?			

ANY COMMENTS, IMPROVEMENT?

……
……
……

2	**Signs & Devices**	**Acceptable**	**Not Acceptable**	**Not Applicable**
2.1	Has a site check been completed?			
2.2	Are signs present & in good condition?			
2.3	Are the signs in a clear position & not affected by other contradictory signs, plant, vegetation, shade, etc?			
2.4	Are the correct sign sizes being used?			
2.5	Have the needs for pedestrians & cyclists been provided for?			
2.6	Is all property access to the site controlled?			
2.7	Is the taper length correct?			
2.8	Is there an adequate buffer zone?			

ANY COMMENTS, IMPROVEMENT?

……
……
……

3	Traffic Controllers	Acceptable	Not Acceptable	Not Applicable
3.1	Are the correct number of Traffic Controllers being used?			
3.2	Have their Traffic Control Certifications been sighted & are they current? (WHS Card? Blue ticket? Client/Project Induction?)			
3.3	Are all staff using a two-way radio?			
3.4	Are they wearing high visibility clothing?			
3.5	Are the TC's getting adequate breaks?			
3.6	Do the TC's have a clear escape route?			

ANY COMMENTS IMPROVMENTS?

……

……

……

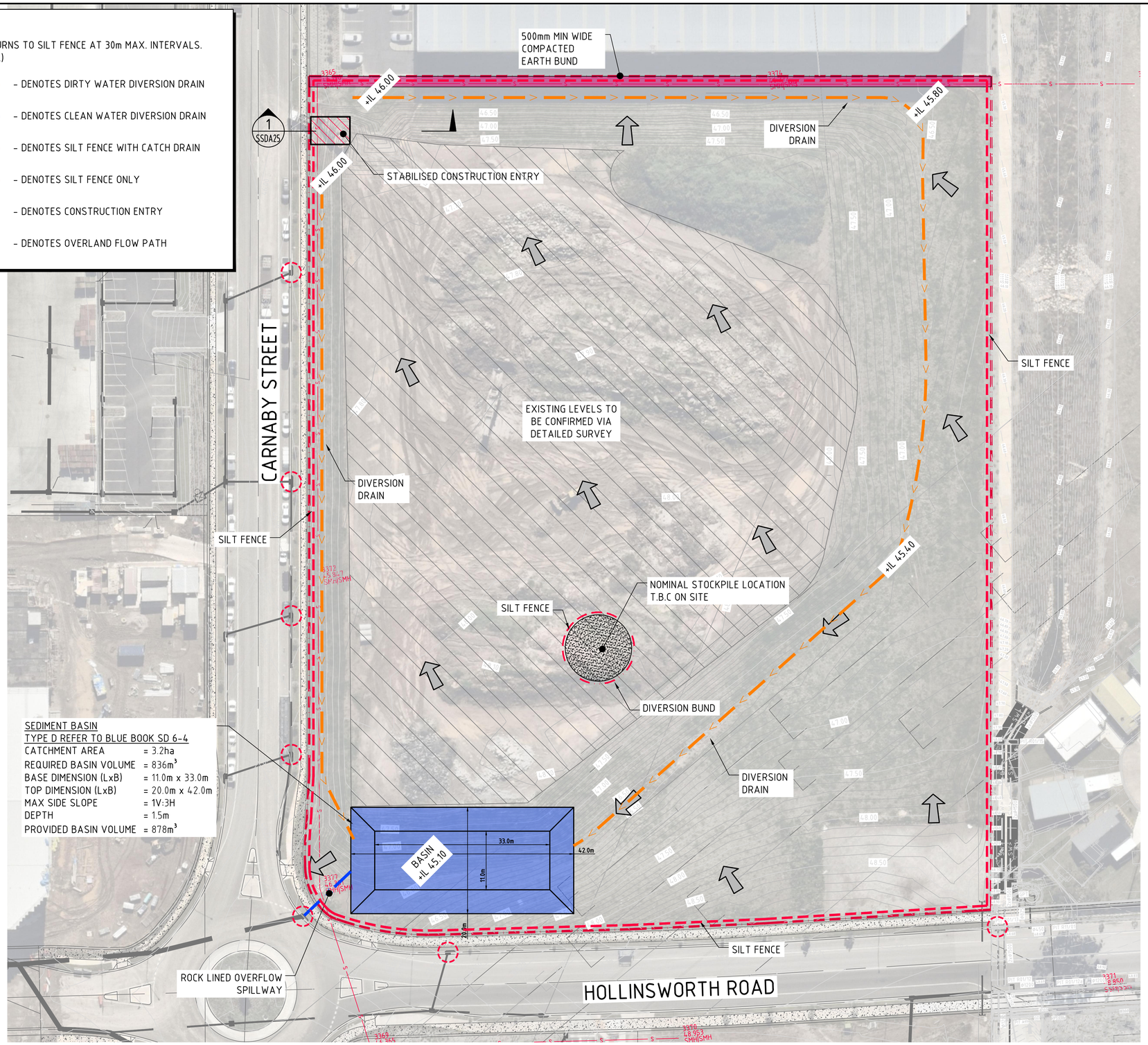
4	Record Keeping	Acceptable	Not Acceptable	Not Applicable
4.1	Has a Job Safety Analysis been completed & signed?			
4.2	Does the Job Safety Analysis cover the risks & hazards associated with the worksite?			
4.3	Has a service delivery docket been completed & recorded?			

ANY COMMENTS, IMPROVEMENT?

……

……

……



EROSION & SEDIMENT CONTROL PLAN

SCALE 1:500

EROSION CONTROL NOTES:

ALL CONTROL WORK INCLUDING DIVERSION BANKS AND CATCH DRAINS, V-DRAINS AND SILT FENCES SHALL BE COMPLETED DIRECTLY FOLLOWING THE COMPLETION OF THE EARTHWORKS.

1. SILT FENCES AND SILT FENCE RETURNS SHALL BE ERECTED CONVEX TO THE CONTOUR TO POND WATER.
2. HAY BALE BARRIERS AND GEOFABRIC FENCES ARE TO BE CONSTRUCTED TO TOE OF BATTER, PRIOR TO COMMENCEMENT OF EARTHWORKS, IMMEDIATELY AFTER CLEARING OF VEGETATION AND BEFORE REMOVAL OF TOP SOIL.
3. ALL TEMPORARY EARTH BERMS, DIVERSION AND SILT DAM EMBANKMENTS ARE TO BE MACHINE COMPACTED, SEEDED AND MULCHED FOR TEMPORARY VEGETATION COVER AS SOON AS THEY HAVE BEEN FORMED.
4. CLEAR WATER IS TO BE DIVERTED AWAY FROM DISTURBED GROUND AND INTO THE DRAINAGE SYSTEM.
5. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING AND PROVIDING ON GOING ADJUSTMENT TO EROSION CONTROL MEASURES AS REQUIRED DURING CONSTRUCTION.
6. ALL SEDIMENT TRAPPING STRUCTURES AND DEVICES ARE TO BE INSPECTED AFTER STORMS FOR STRUCTURAL DAMAGE OR CLOGGING, TRAPPED MATERIAL IS TO BE REMOVED TO A SAFE, APPROVED LOCATION.
7. ALL FINAL EROSION PREVENTION MEASURES INCLUDING THE ESTABLISHMENT OF GRASSING ARE TO BE MAINTAINED UNTIL THE END OF THE DEFECTS LIABILITY PERIOD.
8. ALL EARTHWORKS AREAS SHALL BE ROLLED ON A REGULAR BASIS TO SEAL THE EARTHWORKS.
9. ALL FILL AREAS ARE TO BE LEFT WITH A BUND AT THE TOP OF THE SLOPE AT THE END OF EACH DAYS EARTHWORKS. THE HEIGHT OF THE BUND SHALL BE A MINIMUM OF 200mm.
10. ALL CUT AND FILL SLOPES ARE TO BE SEEDED AND HYDROMULCHED WITHIN 10 DAYS OF COMPLETION OF FORMATION.
11. AFTER REVEGETATION OF THE SITE IS COMPLETE AND THE SITE IS STABLE IN THE OPINION OF A SUITABLY QUALIFIED PERSON ALL TEMPORARY WORK SUCH AS SILT FENCE, DIVERSION DRAINS ETC SHALL BE REMOVED.
12. ALL TOPSOIL STOCKPILES ARE TO BE SUITABLY COVERED TO THE SATISFACTION OF THE SITE MANAGER TO PREVENT WIND AND WATER EROSION.
13. ANY AREA THAT IS NOT APPROVED BY THE CONTRACT ADMINISTRATOR FOR CLEARING OR DISTURBANCE BY THE CONTRACTOR'S ACTIVITIES SHALL BE CLEARLY MARKED AND SIGN POSTED, FENCED OFF OR OTHERWISE APPROPRIATELY PROTECTED AGAINST ANY SUCH DISTURBANCE.
14. ALL STOCKPILE SITES SHALL BE SITUATED IN AREAS APPROVED FOR SUCH USE BY THE SITE MANAGER. A 6m BUFFER ZONE SHALL EXIST BETWEEN STOCKPILE SITES AND ANY STREAM OR FLOW PATH. ALL STOCKPILES SHALL BE ADEQUATELY PROTECTED FROM EROSION AND CONTAMINATION OF THE SURROUNDING AREA BY USE OF THE MEASURES APPROVED IN THE EROSION AND SEDIMENTATION CONTROL PLAN.
15. ACCESS AND EXIT AREAS SHALL INCLUDE SHAKE-DOWN OR OTHER METHODS APPROVED BY THE SITE MANAGER FOR THE REMOVAL OF SOIL MATERIALS FORM MOTOR VEHICLES.
16. THE CONTRACTOR IS TO ENSURE RUNOFF FROM ALL AREAS WHERE THE NATURAL SURFACE IS DISTURBED BY CONSTRUCTION, INCLUDING ACCESS ROADS, DEPOT AND STOCKPILE SITES, SHALL BE FREE OF POLLUTANTS BEFORE IT IS EITHER DISPERSED TO STABLE AREAS OR DIRECTED TO NATURAL WATERCOURSES.
17. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN SLOPES, CROWNS AND DRAINS ON ALL EXCAVATIONS AND EMBANKMENTS TO ENSURE SATISFACTORY DRAINAGE AT ALL TIMES WATER SHALL NOT BE ALLOWED TO POND ON THE WORKS UNLESS SUCH PONDING IS PART OF AN APPROVED ESCP / SWMP.

SEDIMENTATION BASIN NOTE:

FOR SEDIMENT & EROSION CONTROL DETAILS REFER TO DRAWING C014717.00-DA25.

SEDIMENTATION BASIN SIZING BASED ON RECOMMENDATIONS OF 'SOILS AND CONSTRUCTION, MANAGING URBAN STORMWATER-THE BLUE BOOK'.
CAPACITY BASED UPON 5 DAY RAINFALL DEPTH AT 85th PERCENTILE INTENSITY (32.2mm).

APPROXIMATE AREA OF DISTURBED SITE = 3.2 Ha

SEDIMENTATION BASINS TO COLLECT RUN-OFF IN RAINFALL EVENTS. COLLECTED RUN-OFF TO BE ASSESSED BY A QUALIFIED LABORATORY FOR DOUSING RATES OF ALUM OR GYPSUM TO ENSURE COAGULATION OF SEDIMENTS PRIOR TO WATER BEING DISCHARGED TO COUNCIL STORMWATER SYSTEM.

EACH BASIN IS TO HAVE A MARKER PLACED AS PER THE DETAIL TO INDICATE WHEN SEDIMENT IS TO BE REMOVED. REMOVED SEDIMENT IS TO BE CLASSED AND DEWATERED PRIOR TO REMOVAL FROM SITE.

ALLOWANCE TO BE MADE DURING BENCHING OF SITE TO ENSURE RUN-OFF IS DIRECTED TO SEDIMENTATION BASINS.

NOTES:
1. ASSUME TYPE D SOIL (CLAY/SILTY CLAY)
2. ASSUME GROUP D SOIL (HIGH PLASTICITY AND SHRINK/SWELL PROPERTIES)

5m 0 10 20 30 40 50m
SCALE 1:500 AT A1 SIZE SHEET

FOR INFORMATION

AMENDMENTS	DATE	ISSUE
ISSUED FOR INFORMATION	16.09.22	A

ARCHITECT
REIDCAMPBELL
Architecture, Interiors, Project Management
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CLIENT
sydney business park

PROJECT
DEVICE TECHNOLOGIES
SYDNEY BUSINESS PARK
MARSDEN PARK, NSW, 2765

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
DM	RN	SEP '22	MW	A1	AS SHOWN	C014801.00-SSDA20

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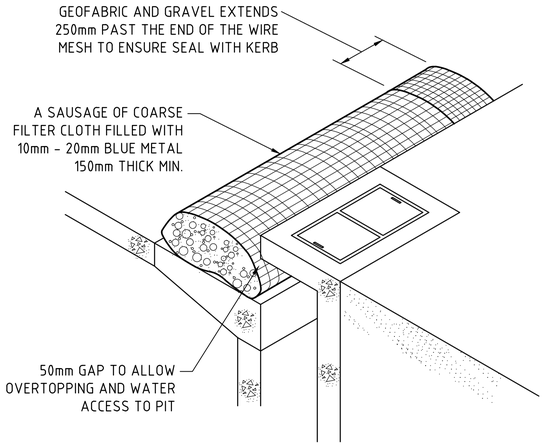
CIVIL & STRUCTURAL ENGINEERS

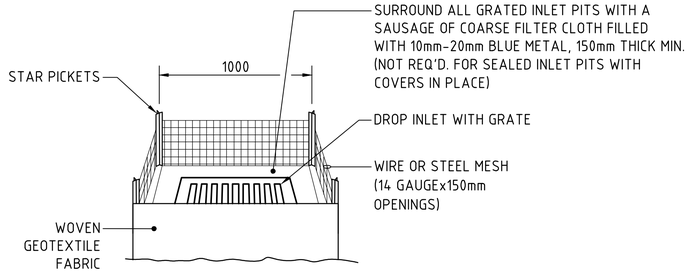
DRAWING TITLE
EROSION & SEDIMENT CONTROL PLAN

DRAWING No C014801.00-SSDA20
ISSUE A



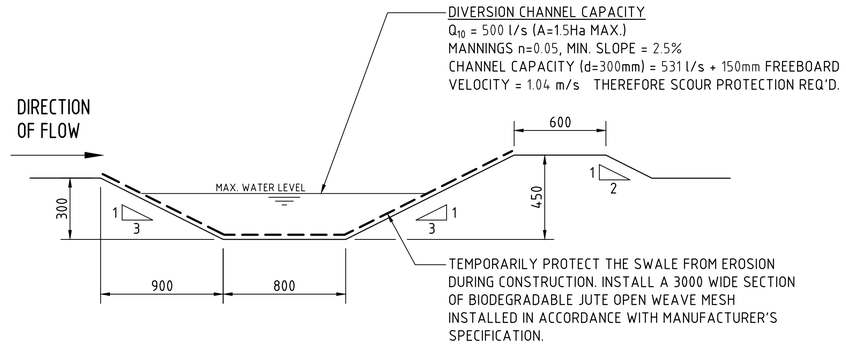
KERB INLET CONTROL

N.T.S



GRATED INLET PIT FILTER DETAIL

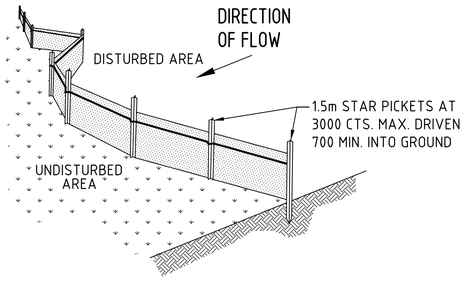
N.T.S



DIVERSION DRAIN SECTION

SCALE 1:20

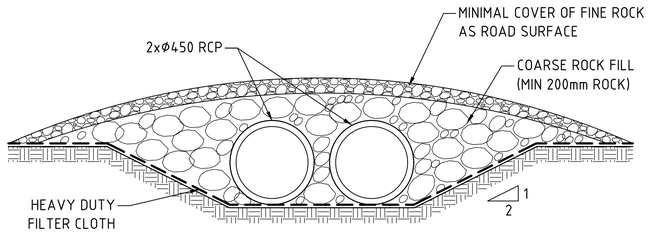
NOTE :
ADOPT ABOVE DETAILS AROUND ALL PITS WITHIN AREA ENCOMPASSED BY SILT FENCE & TO PITS ON THE ROAD ADJACENT TO SITE BOUNDARY.



TYPICAL SILT FENCE DETAIL

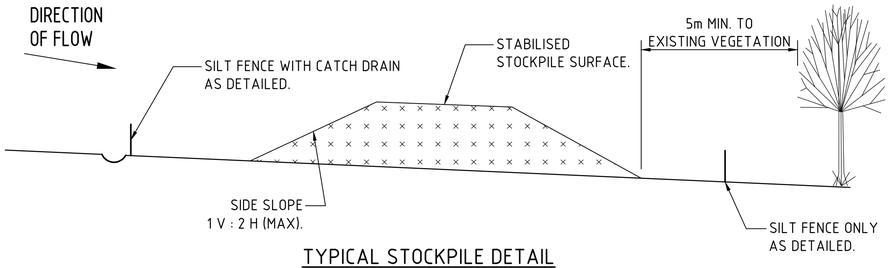
N.T.S

NOTE: PROVIDE 1m RETURNS AT 30m INTERVALS. TYPICAL



TYPICAL CROSSING OVER DIVERSION CHANNEL

SCALE 1:20

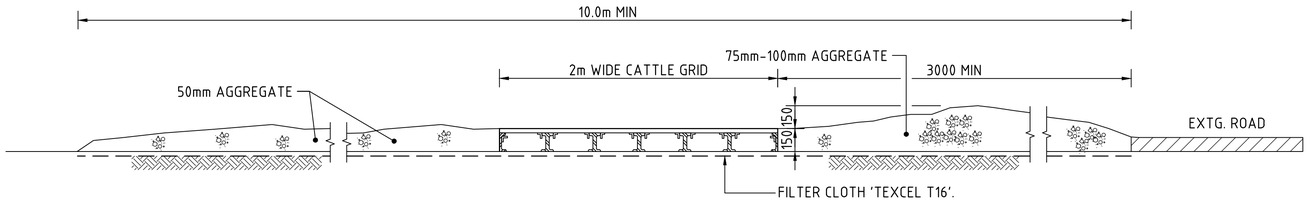


TYPICAL STOCKPILE DETAIL

N.T.S

STOCKPILE NOTES

1. PLACE ALL STOCKPILES IN LOCATIONS MORE THAN 5m FROM EXISTING VEGETATION, ROADS & HAZARD AREAS.
2. CONSTRUCT ON THE CONTOUR AS LOW, FLAT ELONGATED MOUNDS. SIDE SLOPE TO BE 1 V: 2 H MAX.
3. WHERE THERE IS SUFFICIENT AREA, TOPSOIL STOCKPILES SHALL BE LESS THAN 2m IN HEIGHT.
4. WHERE STOCKPILES ARE TO BE IN PLACE FOR MORE THAN 10 DAYS, STABILISE USING WOOD CHIP MULCH - 16 TONNE/Ha.
5. CONSTRUCT SILT FENCE WITH CATCH DRAIN ON UPSLOPE SIDE TO DIVERT WATER AROUND STOCKPILES & SILT FENCE ONLY 1 TO 2m DOWNSLOPE AS SHOWN.



SECTION 1:20 1 SSDA20 : STABILISED CONSTRUCTION ENTRANCE 'TRUCK SHAKER'

200mm 0 500 1000 1500 2000mm

SCALE 1:20 AT A1 SIZE SHEET

FOR INFORMATION

AMENDMENTS	DATE	ISSUE
ISSUED FOR INFORMATION	16.09.22	A

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CIVIL & STRUCTURAL ENGINEERS

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EROSION & SEDIMENT CONTROL DETAILS SHEET 1

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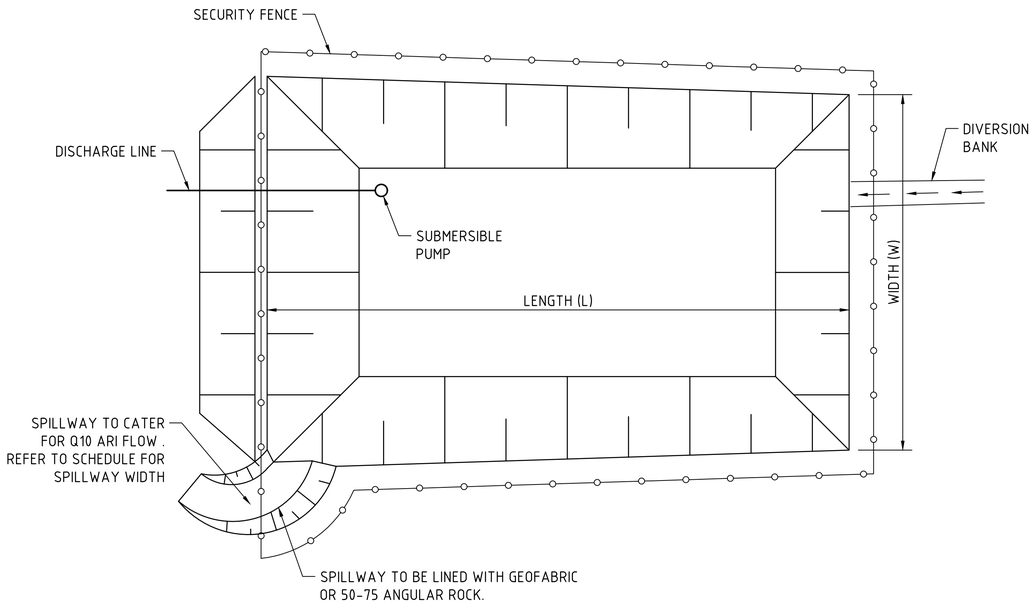
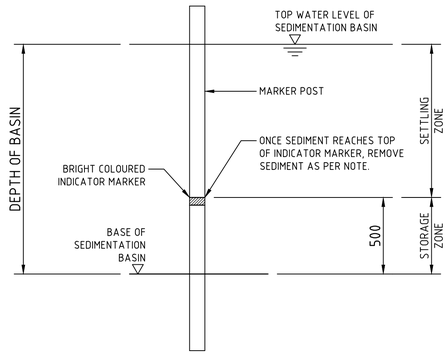


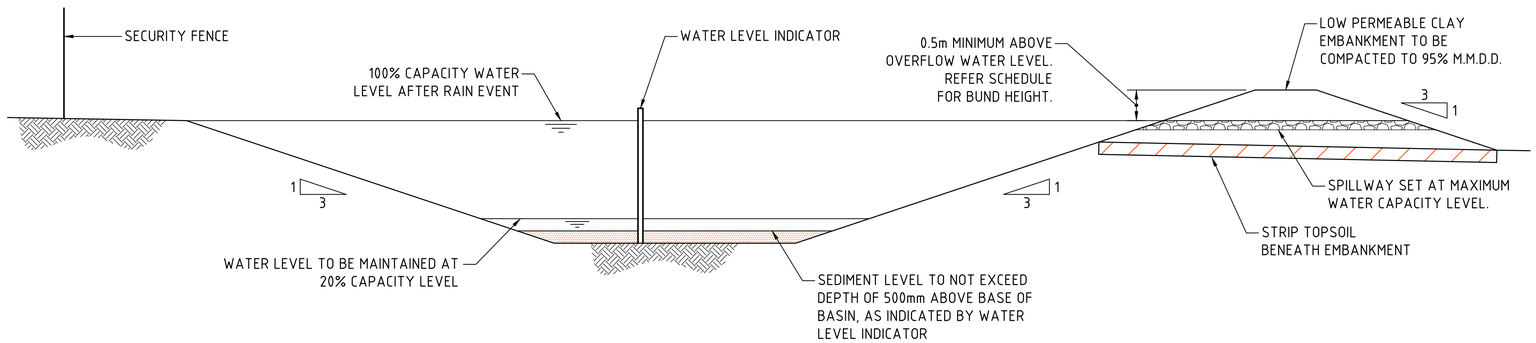
TYPICAL SEDIMENT CONTROL POND PLAN

SCALE 1:250



SEDIMENT STORAGE MARKER

SCALE 1:20



TYPICAL SEDIMENT CONTROL BASIN SECTION

SCALE 1:50

SPILLWAY DETAIL & SCHEDULE

CATCHMENT (Ha)	FLOW (m^3/s)	WIDTH (mm)	FLOW DEPTH (mm)	ROCK SIZE (mm)	BUND HEIGHT ABOVE SPILLWAY (mm)
0.20	0.14	1000	200	-	600
0.5	0.2	2000	200	-	600
1	0.3	2000	200	-	700
2	0.6	4000	200	-	700
5	1.4	5000	300	200	800

2m 0 5 10 15 20 25m
SCALE 1:250 AT A1 SIZE SHEET

500mm 0 1 2 3 4 5m
SCALE 1:50 AT A1 SIZE SHEET

200mm 0 500 1000 1500 2000mm
SCALE 1:20 AT A1 SIZE SHEET

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ISSUE A

Douglas Partners
Geotechnics / Environment / Groundwater

Integrated Practical Solutions

Report on
Salinity Investigation and Management Plan

Proposed Industrial Development
Stage 3, Sydney Business Park, Marsden Park, NSW

Prepared for
Marsden Park Developments Pty Ltd

Project 94616.01
July 2020

Douglas Partners
Geotechnics / Environment / Groundwater

Document History

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Report prepared for	Marsden Park Developments Pty Ltd		
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Revision 0	1	0	Marsden Park Developments Pty Ltd, Mr Michael Gray
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The undersigned, on behalf of Douglas Partners Pty Ltd, confirm that this document and all attached drawings, logs and test results have been checked and reviewed for errors, omissions and inaccuracies.

	Signature	Date
Author		27 July 2020
Reviewer		27 July 2020

bsi. ISO 9001 Quality Management
FS 604853

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Table of Contents

Report on Salinity Investigation and Management Plan
Proposed Industrial Development
Stage 3, Sydney Business Park, Marsden Park, NSW

1. Introduction

This report presents the results of a salinity investigation and management plan (SMP) undertaken for a proposed industrial development at Stage 3, Sydney Business Park, Marsden Park, NSW (the site, as shown on Drawing 1, Appendix B). The investigation was commissioned by Mr Michael Gray of Marsden Park Developments Pty Ltd (MPD) and was undertaken in accordance with Douglas Partners Pty Ltd (DP) proposal NWS200092 dated 18 June 2020.

Saline soils affect much of the Western Sydney Region. Buildings and infrastructure located on shales of the Wianamatta Group are particularly at risk. Salinity can affect urban structures in a number of ways, including corrosion of concrete, breakdown of bricks and mortar, corrosion of steel (including reinforcement), break up of roads, attack on buried infrastructure, reduced ability to grow vegetation and increased erosion potential.

It is understood that a commercial subdivision is proposed and that an assessment of soil salinity is required to support a State Significant Development Application SSD 10477 submitted to NSW Planning, Industry and Environment.

The investigation comprised excavation of test pits, followed by laboratory testing of selected samples, engineering analysis and reporting. Details of the work undertaken and the results obtained are given within this report, together with comments relating to design and construction practice.

The assessment includes the results of an SMP completed for Stage 3.02 (Project 76669.02.R.001.Rev0 dated March 2017) which incorporates the northern part of the site, as well as intrusive investigations, and soil sampling and analysis for the southern part of the site. Intrusive investigations undertaken as part of this and the Stage 3.02 SMP targeted material to a depth of 3 m below ground level (bgl).

The proposed development includes the construction of a basement to depths of approximately 5 m in the south-eastern portion of the site. The investigation was completed in conjunction with a geotechnical investigation of the site (as reported in DP report 94616.00.R.001) which included boreholes in the vicinity of the basement (BH106, BH108, BH109 and BH110) to depths of up to approximately 10 m. Selected samples from below 3 m in these boreholes were also incorporated into the salinity assessment.

2. Scope of Works

The current report includes two parts:

1. Salinity assessment of the site based upon:

- Excavation of 17 test pits within the site to 3 m (or prior refusal - the investigation depth zone) and inspection of test pits for signs of salinity;
- Collection of soil samples at regular depth intervals from the test pits and boreholes from depths of 4 m to 6 m;
- Inspection of the site for signs of salinity;
- Analysis of electrical conductivity (EC1:5), pH and soil texture test results for 108 soil and weathered rock samples determined at a NATA accredited analytical laboratory, for classification of salinity and aggressivity;
- Laboratory analysis of additional salinity, aggressivity and erodibility indicators, including chloride and sulphate concentrations (22 samples), sodicities (nine samples) and dispersibility testing (four samples) at a NATA accredited analytical laboratory; and
- Assessment of the results with respect to potential for salinity impacts on the development.

2. Preparation of a Salinity Management Plan (SMP) for the Site providing guidance on development strategies to reduce the impact of saline materials. The Plan was based upon:

- Review of the salinity investigation results;
- Review of the following documents detailing Council requirements:
  - 'Map of Salinity Potential in Western Sydney', DNR (2002);
  - 'Guidelines to Accompany Map of Salinity Potential in Western Sydney', DNR (2002);
  - 'Western Sydney Salinity Code of Practice' (amended January 2004), Rebecca Nicholson for WSROC, DNR and Natural Heritage Trust;
  - 'Guide to Residential Slabs and Footings in a Saline Environment', Cement, Concrete and Aggregates, Australia (2005);
  - 'Introduction to Urban Salinity', DNR (2003);
  - 'Building in a Saline Environment' DNR (2003);
  - 'Roads and Salinity', DNR (2003);
  - 'Indicators of Urban Salinity', DNR (2002);
  - 'Site Investigations for Urban Salinity', DNR (2002);
  - 'Urban Salinity Processes', DNR (2004);
  - 'Waterwise Parks and Gardens', DNR (2004); and
  - 'Broad Scale Resources for Urban Salinity Assessment' DNR (2002).

3. Previous Investigations and Results

GHD Pty Ltd previously prepared *Preliminary Report for Marsden Park Industrial Precinct – Salinity Assessment* for MPD dated 31 June 2009 (GHD, 2009). GHD (2009) is a planning level salinity assessment which was undertaken for the entire 570 ha Sydney Business Park (SBP) site which incorporates the current site boundary. The scope of investigation by GHD included the following:

- A desktop study;
- A site walkover and surface soil / water sampling program;
- An intrusive investigation for soil and groundwater sampling;
- Salinity testing of soil and groundwater samples from the intrusive investigation; and
- Preparation of a preliminary (planning level) salinity report.

The results of the assessment were used to classify Sydney Busyness Park into three 'Salinity Domains' (SD1, SD2 and SD3) as detailed below. Figure 5 of GHD 2009 showing the mapped distribution of salinity domains is included in Appendix B.

SD1 – Higher Landscape
SD1 is expected to have a significantly large separation between the groundwater and the ground surface (greater than say 2.5 m), and thus is expected to have a corresponding lower risk of salinity issues than areas lower in the landscape. This higher landscape domain still classifies as 'Moderate Salinity Potential' as described in the DIPNR Salinity Potential in Western Sydney Map - 2002.

SD2 – Lower Landscape
SD2 lies in closer proximity to the (saline) groundwater table (inferred within about 2.5 m depth) and is subject to concentration of seepage waters near creek lines and in the alluvium adjacent to creek lines. The salt comes both from the underlying (saline) groundwater (whether by seepage or through capillary action - evaporation) and from within the residual/alluvial soils.

Salinity in the landscape only affects the built environment/vegetation when in close proximity to the ground surface, thus actions which promote near-surface seepage, waterlogging or close proximity to the underlying groundwater table should be either avoided if possible or properly managed. The lower landscape salinity domain SD2 has a higher salinity risk (described as moderate to high in the DIPNR Salinity Potential in Western Sydney Map - 2002) than the higher landscape salinity domain SD1, due to its closer proximity to the groundwater table and to the historical concentration of salt in this lower area through drainage and seepage migration.

SD3 – Disturbed Landscape
SD3 comprises zones covering both the higher and lower landscapes that have been significantly disturbed by quarrying, filling and changed drainage conditions. In particular, the current quarry / landfill area, which also has a different geology over part of this (quarry) area, has been subject to significant excavation and disturbance, likely encountering the (saline) groundwater table, and removing/stockpiling soils and bedrock that contain salts.

Review of the mapped Salinity Domains (Appendix B) indicates that the northern portion of the site was classified as SD1 and the southern portion of the site was classified as SD3.

4. Site Description

The Site is located within SBP, Marsden Park in the local government area of Blacktown City Council. The Site has an area of approximately 38 ha and incorporates the following property identifiers:

- Part Lot 36 Deposited Plan (D.P.) 262886; and
- Part Lots 4 and 5 D.P. 1210172.

5. Topography, Soils and Geology and Salinity Potential

Site topography (Figure 1) generally slopes down from southeast to west from approximately 50 m AHD to 36 m AHD.

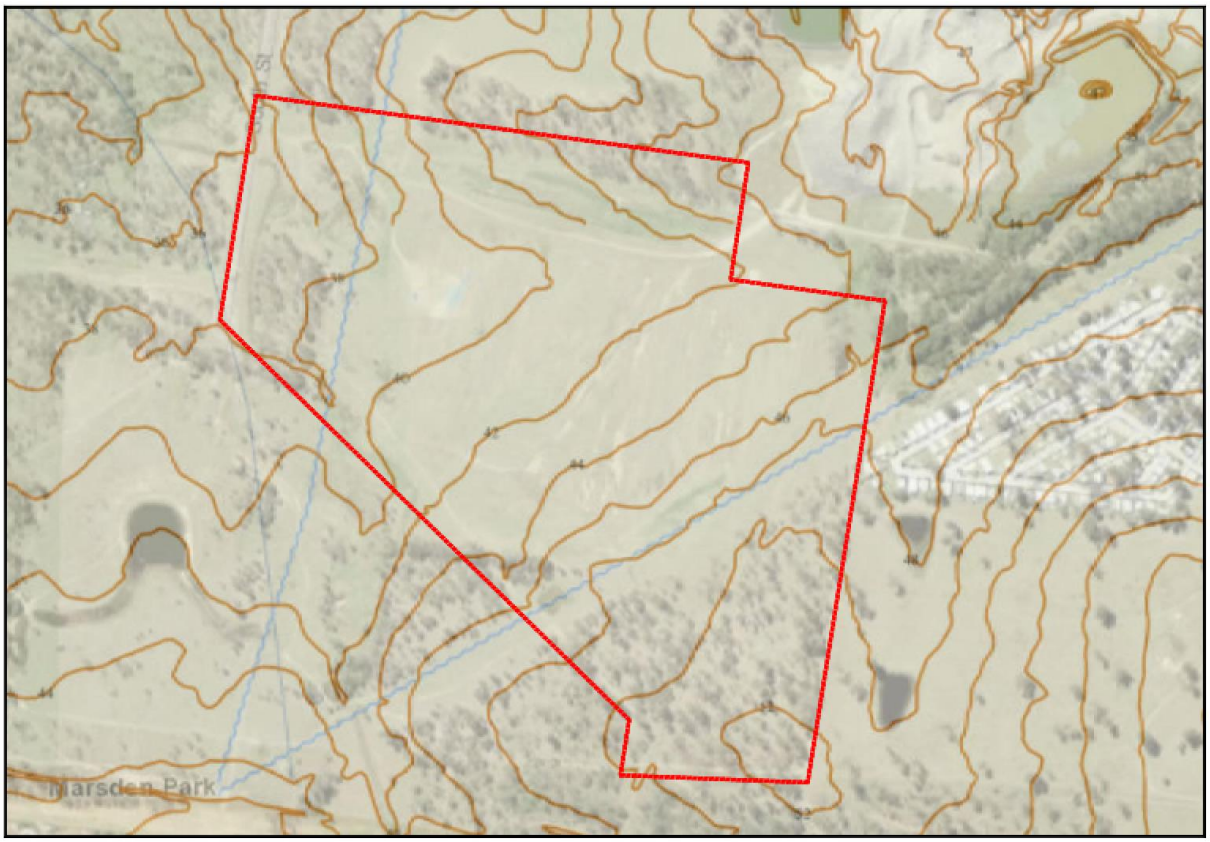


Figure 1: 2 m Topographic Contours at the site

Reference to the Penrith 1:100 000 Soil Landscapes Sheet (Figure 2) indicates that most of the site is mapped as alluvial soil of the Berkshire Park soil landscape (mapping unit bp). This soil landscape associated with the Hawkesbury and Nepean River Systems is characterised by orange heavy clays and clayey sands, often mottled and with ironstone nodules common. The south eastern portion of the Site is mapped as the Blacktown soil landscape (mapping unit bt) of the Wianamatta Group of Triassic age which is characterised by red and brown podzolic soils on Wianamatta and Hawkesbury Shales.

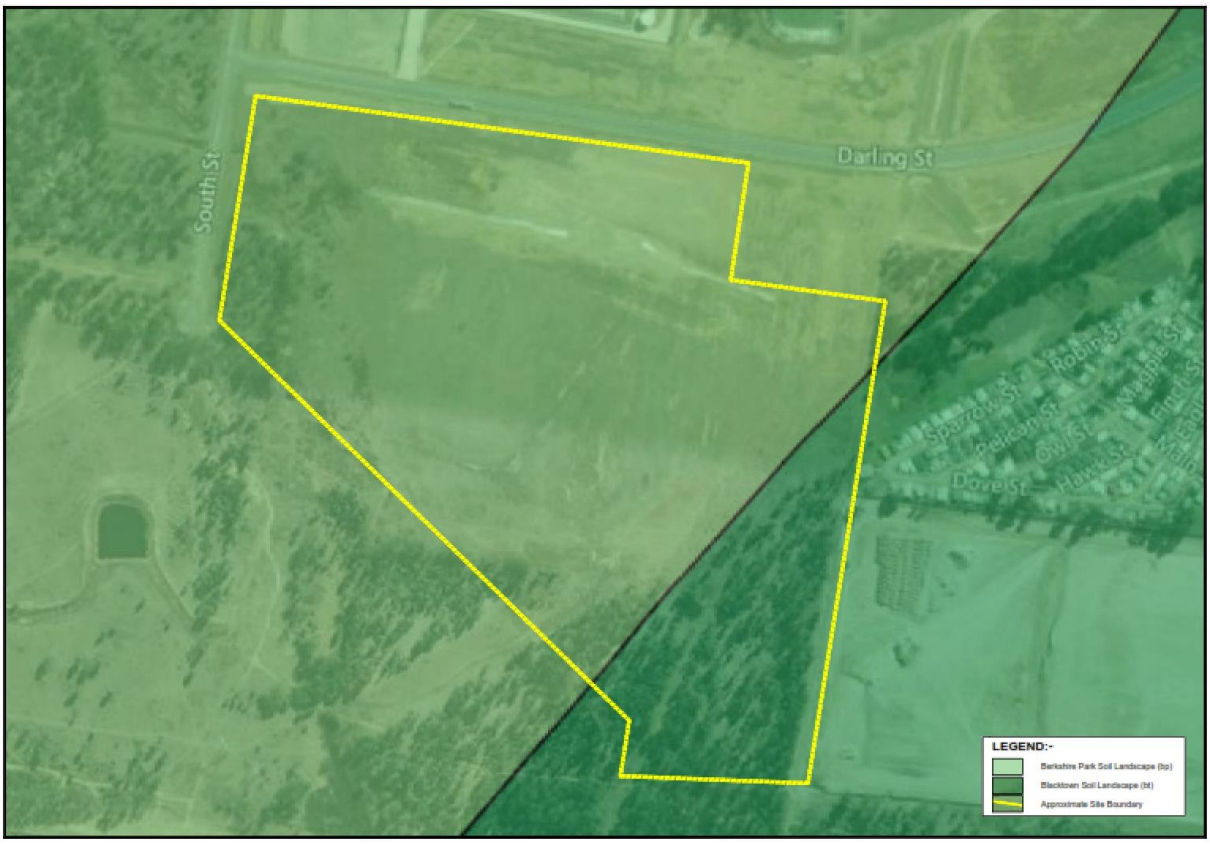


Figure 2: Soil Landscape at the site

Reference to the Penrith 1:100 000 Geological Series Sheets indicates that the Site is underlain by Bringelly Shale (mapping unit Rwb) of the Wianamatta Group of Triassic age. This formation typically comprises shale, carbonaceous claystone, claystone, laminite and some minor coaly bands which weather to form clays of high plasticity.

Reference to the Map of Salinity Potential in Western Sydney (Figure 3), indicates that most of the site is located within an area of “moderate salinity potential” where “saline areas may occur which have not yet been identified or may occur if risk factors change adversely". The western and north western areas of the site are mapped as “high salinity potential” where “conditions are similar to areas of known salinity”.

The Investigation of urban salinity – case studies from Western Sydney, Urban Salt 2005 Conference Paper, Parramatta (McNally, 2005), describes some general features of the hydrogeology of Western Sydney which are relevant to this Site. The shale terrain of much of Western Sydney is known for saline groundwater, resulting either from the release of connate salt in shales of marine origin or from the accumulation of windblown sea salt. Seasonal groundwater level changes of 1 m to 2 m can occur in a shallow regolith aquifer or a deeper shale aquifer due to natural influences.

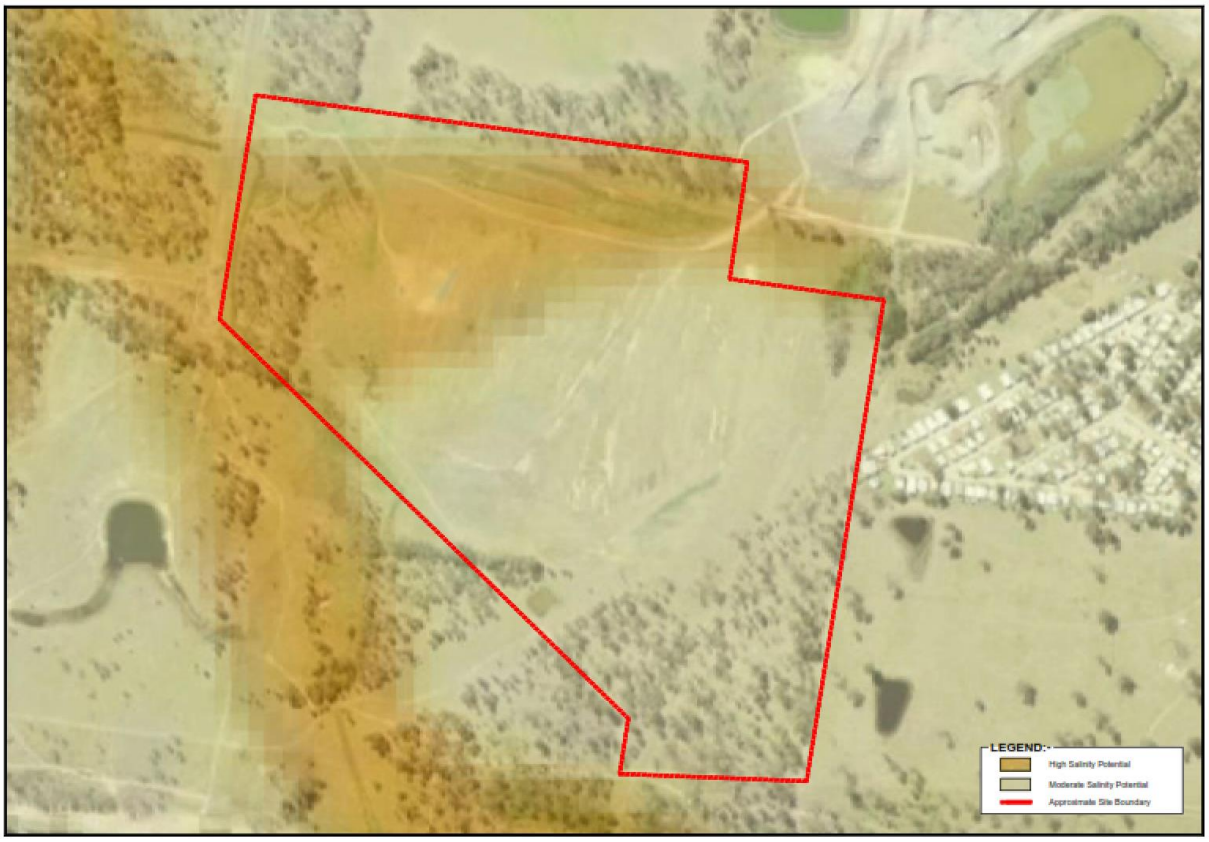


Figure 3: Salinity Potential at the Site

A north westerly flowing ephemeral creek is present in the south western portion of the Site. The creek meanders in a generally northerly direction prior to joining South Creek approximately 4 km north of the site.

6. Field Work Methods

The current field work for this salinity investigation comprised the excavation of 17 test pits with a backhoe fitted with a 450 mm bucket. Test pits were sample to a maximum depth of 3.0 m. The fieldwork was logged on - site by a geo-environmental engineer, who collected representative disturbed samples to assist in strata identification and for laboratory testing. After carefully backfilling each test pit, the surface was reinstated to its previous level.

The test locations were nominated by DP and located on-site by DP prior to the investigation. Soil samples collected from the below tested for salinity parameters:

- Nine test pits (TP14, TP19, TP26, TP29, TP30, TP33, TP35, TP36 and TP38) from the Stage 3.02 SMP;
- Eight test pits (TP138 – TP140, TP150 – TP152, TP155 and TP156) from test pits excavated during June and July 2020 (ie: the current investigation); and

- Four boreholes (BH106, BH108, BH109 and BH110) excavated as part of the geotechnical investigation.

7. Results

The test pit logs are included in AppendixC and should be read in conjunction with the accompanying standard notes that define classification methods and descriptive terms. Relatively inconsistent conditions were encountered in the test pits, with the general succession of strata is broadly summarised as follows:

- Topsoil - silty clay topsoil at most locations (except Pit 115) to depths ranging between 0.1 m and 0.3 m. Inclusions of rootlets and gravel were encountered within the topsoil; overlying
- Fill - Bores 101 to 105 and 157 and TP112 to TP143 encountered fill to depths of up to 3.9 m was encountered. The fill typically comprised a gravelly clay with siltstone gravel, cobbles and boulders (estimated to be up to high strength);
  - Bores 106 to 111 and TP144 to TP156 encountered fill ranged from 0.2 m to 0.9 m, with most of the fill being present along an elevated access road extending from near the end of Hollinsworth Road;
- Natural Soil - typically stiff to very stiff silty clay with some hard layers; overlying,
- Bedrock - Either sandstone, siltstone or laminite (interbedded siltstone and sandstone) bedrock, ranging in strength from very low to high strength at depths of 2.5 m to 5.5 m.

No free groundwater was observed in any test pits during excavation or for the short time that they were left open prior to backfilling. The immediate backfilling of all test pits after excavation precluded any further monitoring of groundwater levels.

No signs of efflorescence were noted during the inspection.

8. Laboratory Testing

A Summary Table (Appendix D) presents the results of laboratory tests, assessments of aggressivity to concrete and steel, sodicity class, textural classification, calculated salinity ECe and salinity class inferred from ECe values using the method of Richards (1954). The Summary Table also includes results of Emerson Crumb tests and derived Dispersion Potentials. The detailed laboratory test reports and chain-of-custody information are provided in Appendix E.

In the absence of cut to fill information available for the site, a “worst case” scenario was used to classify the extent of salinity and aggressivity of the site materials below the current ground surface. The “worst case” classification was carried out by utilising a maxima/minima analysis within the investigated depth zone of 0 – 6.0 m at individual locations. The Summary Table presents aggressivities and salinities for each pit location, based on minimum pH, minimum electrical resistivity and maximum ECe values within the investigated depth zone.

These values were used for spatial mapping of aggressivities and salinities throughout the investigation area (refer Drawings 2 to 4, Appendix B).

The test sample numbers and the range of test results obtained from the test pits and boreholes are summarised in Table 1.

Table1: Summary of Test Results

Parameter		Units	Samples	Minimum	Maximum
pH		pH units	108	4.6	9.6
Chlorides		(mg/kg)	22	10	1200
Sulphates		(mg/kg)	22	29	570
Aggressivity	to Concrete	[AS 2159]	108	non-aggressive	mild
	to Steel	[AS 2159]	108	non-aggressive	moderate
Exchangeable Sodium (Na)		(meq/100g)	9	0.6	4.5
CEC (cation exchange capacity)		(meq/100g)	9	6.8	54
Sodicity [Na/CEC]		(ESP%)	9	1	31
Sodicity Class		[after DLWC]	9	Non-sodic	highly sodic
EC1:5 [Lab.]		(mS/cm)	108	38	1040
Resistivity		Ω.cm	108	962	26316
ECe [M x EC1:5] [1]		(dS/m)	108	0.2	9.7
Salinity Class		[after Richards 1954]	108	Non-saline	Very saline

1 M is soil textural factor

8.1 Aggressivity

Figure 4 (following page) presents variations of aggressivity with depth, based on pH profiles at salinity test pit and borehole locations, together with the aggressivity class ranges indicated in Australian Standard AS 2159 (2009). The absence of free groundwater from all test locations and the impermeability of the sampled clay-rich soils indicate that soils at all test locations are in Condition “B” as defined by AS 2159.

The pH profiles of Figure 4 indicate that the materials throughout the site, at all investigated depths, are non-aggressive to steel. The chloride concentration guidelines of AS 2159 support this non-aggressive classification. However, based on resistivity criteria (Appendix D), samples were classified as non-aggressive to moderately aggressive to steel.

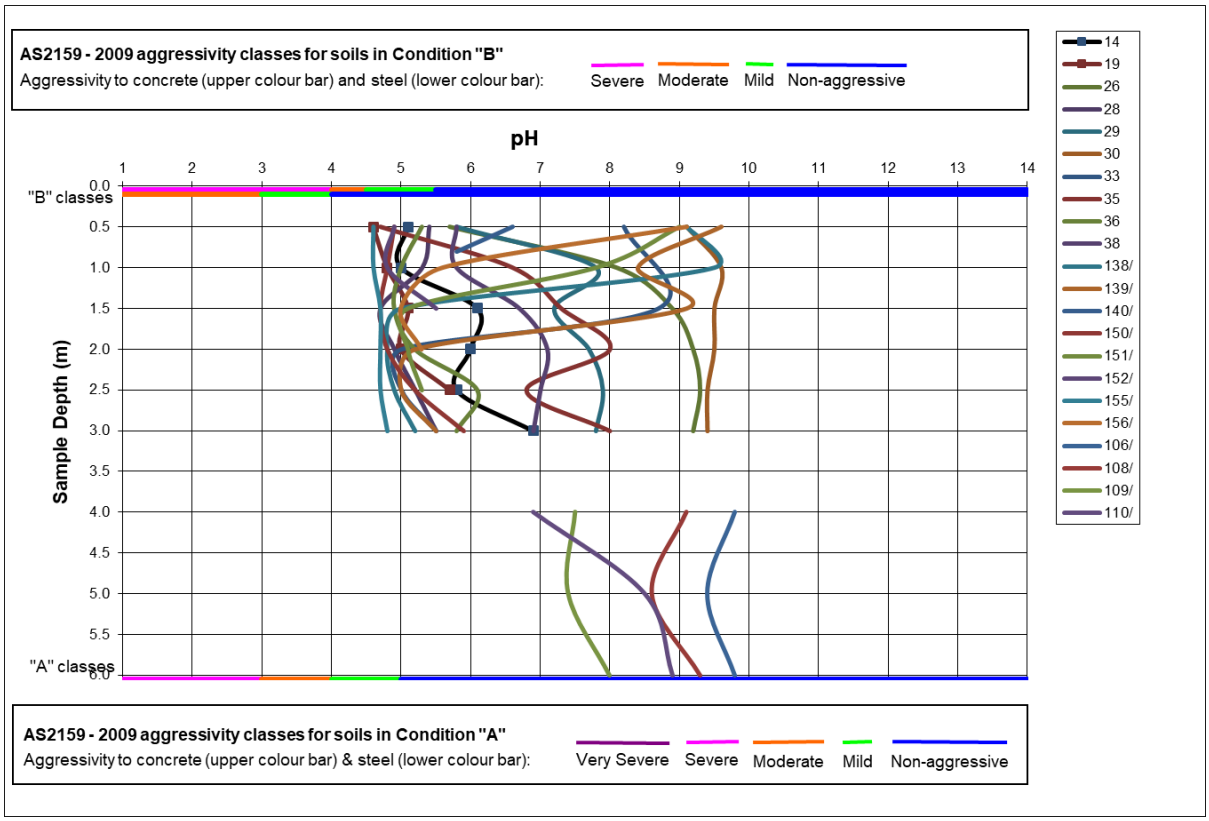


Figure 4: Vertical pH Profiles and Aggressivity Classes

The Summary Table also indicates that 57% of all samples were non-aggressive to concrete and 43% were mildly aggressive to concrete.

The worst case results for each location were interpolated and contoured to define areas which are non-aggressive (pH >5.5) and mildly aggressive (pH 4.5 – 5.5) to concrete structures and services, represented by colour zones on Drawing 2 (Appendix B).

Calculated soil resistivities indicated higher aggressivities to steel than were indicated by pH measurements. The worst case results for each test pit were interpolated and contoured to define areas of mild aggressivity and moderate aggressivity to steel structures and services, represented by colour zones on Drawing 3 (Appendix A).

Test pit refusal was encountered at 0.8 m at TP140. Material in the shallow soil profile was classified as non-aggressive to concrete and steel, however, in the absence of analysis of deeper samples, the worst case results from adjacent test pits were used to interpolate and contour soil conditions within this area.

8.2 Salinity

Figure 5 (below) presents the variations of salinity with depth, based on salinity (ECe) profiles at test pit and borehole locations, together with the salinity classifications of Richards (1954).

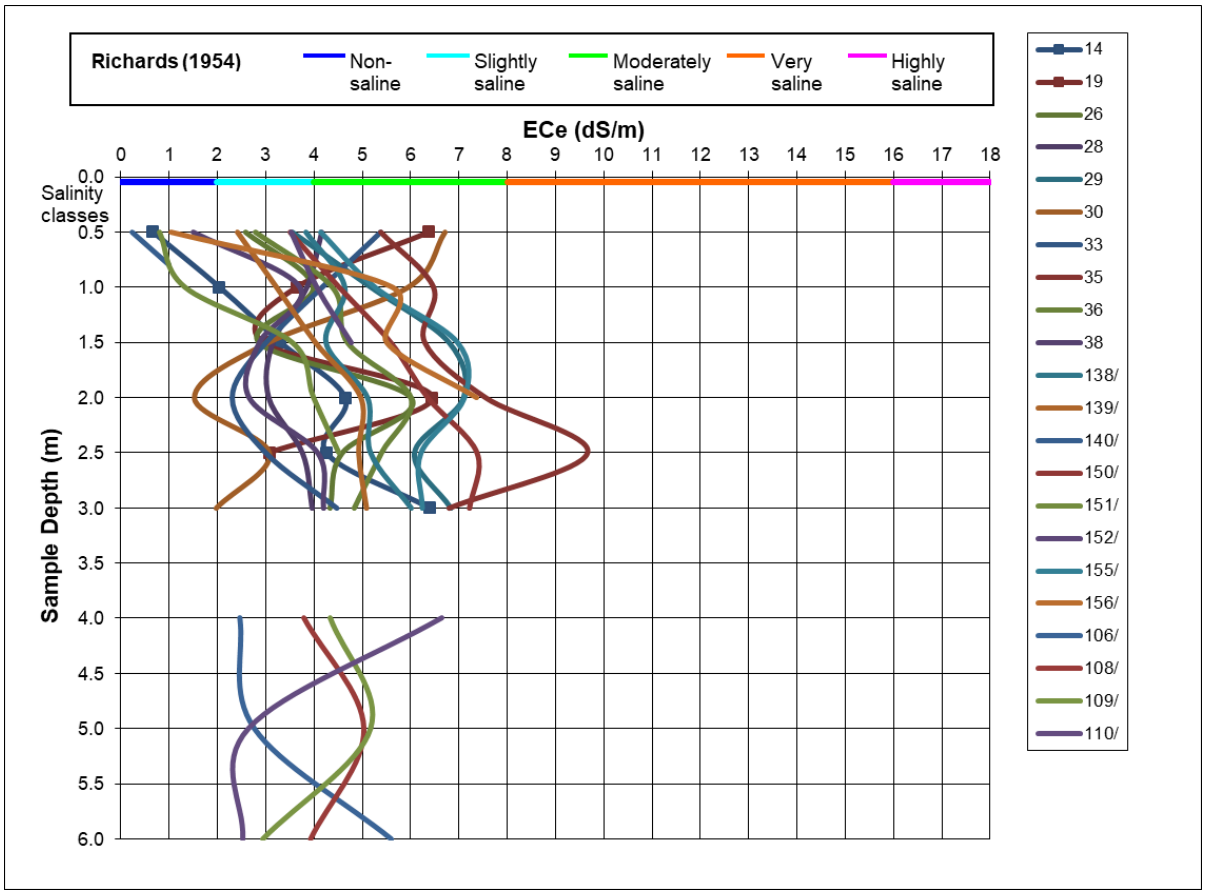


Figure 5: Vertical Salinity Profiles and Salinity Classes

The Summary Table (Appendix D) indicates that 8% of all soil samples were non-saline, 34% were slightly saline, 56% were moderately saline and 2% were very saline.

As for aggressivity, worst case ECe values were interpolated and contoured to define areas of moderately saline (ECe 4 – 8 dS/m) and very saline (ECe 8 – 16 dS/m) material (see Drawing 4, Appendix B).

As discussed in Section 7, test pit refusal was encountered at 0.8 m at TP140. Material in the shallow soil profile was classified as non-saline, however, in the absence of analysis of deeper samples, the worst case results from adjacent test pit locations were used to interpolate and contour soil conditions within this area.

8.3 Sodicity and Dispersibility

The sodicity test reported in the Summary Table shows non-sodic to highly sodic soils, indicating the potential for erodability of soils left exposed.

The dispersion potential of the soils, as measured by the Emerson Crumb Test (refer Summary Table, Appendix D), were determined to range from a Class 2 (some dispersion) to a Class 5 (no dispersion) over the four locations tested, at depths of 0.5 m – 1.5 m.

9. Impact of the Site Materials on the Proposed Development

The mild aggressivity to concrete, the mild to moderate aggressivity to steel, the presence of moderately to very saline materials and the highly sodic soils are naturally occurring features of the local landscape and are not considered significant impediments to the proposed development, provided appropriate remediation or management techniques are employed.

Salinity and aggressivity affects the durability of concrete and steel by causing premature breakdown of concrete and corrosion of steel. This has impacts on the longevity of structures in contact with these materials. As a result, management will be required (refer Section 11).

Sodic soils have low permeability due to infilling of interstices with fine clay particles during the weathering process, restricting infiltration of surface water and potentially creating perched water tables, seepage in cut faces or ponding of water in flat open areas. In addition, sodic soils tend to erode when exposed. Management of sodic soils is therefore required to prevent these adverse effects.

10. Salinity Management Plan

The current salinity investigation indicates that materials within the Site are moderately to very saline. Testing of other parameters associated with salinity indicates that the materials are mildly to moderately aggressive to steel (by the resistivity and chloride criteria of AS 2159) and non-aggressive to mildly aggressive to concrete within the site (by the pH and sulphate criteria of AS 2159). In addition, shallow soils were highly sodic.

The following management strategies are confined to the management of those factors with a potential to impact on the development.

A. Management should focus on capping of the upper surface of the sodic soils, both exposed by excavation and placed as filling, with a more permeable material to prevent ponding, to reduce capillary rise, to act as a drainage layer and to reduce the potential for erosion.

B. When possible, place excavated materials in fill areas with similar salinity characteristics (ie: place material onto in-situ soils with a similar or higher aggressivity or salinity classification). With respect to imported fill material, testing should be undertaken prior to importation, to determine the salinity characteristics of the material, which should be non-aggressive and non - saline to moderately saline where possible but in any case not more aggressive or more saline than the material on which it is to be placed.

C. Sodic soils can also be managed by maintaining vegetation where possible and planting new salt tolerant species. The addition of organic matter, gypsum and lime can also be considered where appropriate. After gypsum addition, reduction of sodicity levels may require some time for sufficient infiltration and leaching of sodium into the subsoils, however capping of exposed sodic material should remain the primary management method. Topsoil added at the completion of bulk earthworks is, in effect, also adding organic matter which may help infiltration and leaching of sodium.

D. Avoid water collecting in low lying areas, in depressions, or behind fill. This can lead to water logging of the soils, evaporative concentration of salts, and eventual breakdown in soil structure resulting in accelerated erosion.

E. Any pavements should be designed to be well drained of surface water. There should not be excessive concentrations of runoff or ponding that would lead to waterlogging of the pavement or additional recharge to the groundwater through any more permeable zones in the underlying filling material.

F. Surface drains should generally be provided along the top of batter slopes to reduce the potential for concentrated flows of water down slopes possibly causing scour.

G. Salt tolerant grasses and trees should be considered for landscaping, to reduce soil erosion as in Strategy A above and to maintain the existing evapo - transpiration and groundwater levels. Reference should be made to an experienced landscape planner or agronomist.

The above strategies should be considered in conjunction with the erosion controls outlined in Landcom, *Soils and Construction, Managing Urban Stormwater, Volume 1, 4th Edition,* March 2004.

The following additional strategies are recommended for completion of service installation and for house / building construction. These strategies should be complementary to standard good building practices recommended within the Building Code of Australia, including cover to reinforcement within concrete and correct installation of a brick damp course (where used), so that it cannot be bridged to allow moisture to move into brick work and up the wall.

H. Where materials are classified as non-aggressive to concrete (refer Drawing 2), piles should nevertheless have a minimum strength of 32 MPa and a minimum cover to reinforcement of 45 mm (as per AS 2159).

I. Where materials are classified as mildly aggressive to concrete (refer Drawing 2), piles should have a minimum strength of 32 MPa and a minimum cover to reinforcement of 60 mm (as per AS 2159) to limit the corrosive effects of the surrounding materials (in accordance with AS 2159).

J. With regard to concrete structures, for moderately saline soils (soils with salinities of 4 – 8 dS/m - refer Drawing 4) that are classified as non - aggressive and mildly aggressive to concrete , slabs and foundations should have a minimum strength of 25 MPa, a minimum cover to reinforcement of 45 mm from unprotected ground and should be allowed to cure for a minimum of three days (as per AS 3600) to limit the corrosive effects of the surrounding soils.

K. With regard to concrete structures, for very saline soils (soils with salinities of 8 - 16 dS/m - refer Drawing 4) that are classified as non-aggressive and mildly aggressive to concrete, slabs and foundations should have a minimum strength of 32 MPa, a minimum cover to reinforcement of 50 mm from unprotected ground and should be allowed to cure for a minimum of seven days (as per AS 3600) to limit the corrosive effects of the surrounding soils;

L. Wet cast concrete pipes and currently manufactured spun concrete pipes are understood to have estimated compressive strengths of 50 MPa and 60 – 70 MPa, respectively, in excess of the requirements for mass concrete in J and K above. Reference to the maximum and minimum test results of Table 1 (Section 7 of this report) and to Tables E1 and 3.1 of AS 4058 – 2007 "Precast concrete pipes" indicates that the site falls marginally outside the AS 4058 Clay/Stagnant (low sulphate) soil type (chlorides <=20,000 ppm and sulphates <=1,000 ppm) and (in the absence of tidal water flow) falls within the AS 4058 "Other" durability environment. The minimum site pH of 4.4 indicates a slightly more acidic environment than that within the Clay/Stagnant soil type definition (minimum pH 4.5) and reference to the Concrete Pipe Association of Australasia Engineering Guideline ("Designing Durable Concrete Pipelines") indicates an increase of cover to reinforcement (to 20 mm) or a protective (eg: epoxy) coating or sleeve, or blended concrete, should be employed to maintain a design life in excess of 100 years. It is recommended that any concrete pipes installed within the site should employ AS 4058-compliant steel reinforced pipes of general purpose Portland cement, with minimum cover to reinforcement of 20 mm, or with an alternative durability provision as indicated above, or should be fibre reinforced.

M. Resistivity results indicate soils that are aggressive to steel (Drawing 3, Appendix B). This drawing identifies areas of mild aggressivity (1000 – 2000 Ohm-cm) and moderate aggressivity (<1000 Ohm – cm) to steel over the site. For these areas of soil identified as mildly and moderately aggressive to steel, the following corrosion allowances (as per AS 2159 – 2009) should be taken into account by the designer:

- Mild: uniform corrosion allowance 0.01 – 0.02 mm/year; and
- Moderate: uniform corrosion allowance 0.02 – 0.04 mm/year.

In instances where a coating is applied to the pile, if the design life of the pile is greater than the design life for the coating, consideration must be given to corrosion of the pile in accordance with the above list.

N. In all masonry buildings a brick damp course should be installed so that it cannot be bridged either internally or externally. This will prevent moisture moving into brickwork and up the wall.

O. The use of a bedding layer of sand (100 mm thick), overlain by a membrane of thick plastic (damp proof as opposed to vapour proof), is recommended under concrete slabs to act as a moisture barrier and drainage layer and to restrict capillary rise under the slab. As an alternative method for protection of concrete slabs for non-residential construction, higher strength (32 MPa) concrete may be placed directly on a layer of crushed rock. Such rock should be sourced locally from an area classified as non - saline or slightly saline or should be imported after stockpiling, testing and classification as non-saline or slightly saline.

11. Additional Recommendations and Conclusion

It is considered that the management strategies described herein when incorporated into the design and construction works are appropriate to mitigate the levels of salinity, aggressivity and sodicity identified at the site.

The assessment included assessment of salinity and aggressivity of material within the footprint of the proposed basement in the south eastern part of the site which will be excavated to a depth of approximately 5 m. Additional investigation should be undertaken in any other development areas which are to be excavated deeper than 3 m where direct sampling and testing of salinity has not been carried out. Salinity management strategies herein may need to be modified or extended following additional investigations by deep test pitting and/or drilling, sampling and testing for soil and water pH, electrical conductivity, TDS, sodicity, sulphates and chlorides. Such works, if required, could be conducted when final cut and fill requirements have been determined.

12. Limitations

Douglas Partners Pty Ltd (DP) has prepared this report for this project at Stage 3, Sydney Business Park, Marsden Park, NSW in accordance with DP's proposal NWS200092, dated 18 June 2020. The work was carried out under DP's Conditions of Engagement. This report is provided for the exclusive use of Marsden Park Developments Pty Ltd for this project only and for the purposes as described in the report. It should not be used by or relied upon for other projects or purposes on the same or other site or by a third party. Any party so relying upon this report beyond its exclusive use and purpose as stated above, and without the express written consent of DP, does so entirely at its own risk and without recourse to DP for any loss or damage. In preparing this report DP has necessarily relied upon information provided by the client and/or their agents.

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

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

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

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

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

Douglas Partners Pty Ltd

Appendix A

About This Report

About this Report

Douglas Partners

Introduction

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

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

Copyright

Borehole and Test Pit Logs

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

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

Groundwater

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

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

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

Reports

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

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

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

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

About this Report

Site Anomalies

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

Information for Contractual Purposes

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

Site Inspection

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

Sampling

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

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

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

Test Pits

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

Large Diameter Augers

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

Continuous Spiral Flight Augers

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

Non-core Rotary Drilling

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

Continuous Core Drilling

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

Standard Penetration Tests

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

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

The test results are reported in the following form.

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

  4,6,7
  N=13

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

  15, 30/40 mm

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

Dynamic Cone Penetrometer Tests / Perth Sand Penetrometer Tests

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

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

Symbols & Abbreviations

Douglas Partners

Introduction

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

Drilling or Excavation Methods

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

Water

▷	Water seep
▽	Water level

Sampling and Testing

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

Description of Defects in Rock

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

Defect Type

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

Orientation

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

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

Coating or Infilling Term

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

Coating Descriptor

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

Shape

cu	curved
ir	irregular
pl	planar
st	stepped
un	undulating

Roughness

po	polished
ro	rough
sl	slickensided
sm	smooth
vr	very rough

Other

fg	fragmented
bnd	band
qtz	quartz

Symbols & Abbreviations

Graphic Symbols for Soil and Rock

General

- Asphalt
- Road base
- Concrete
- Filling

Soils

- Topsoil
- Peat
- Clay
- Silty clay
- Sandy clay
- Gravelly clay
- Shaly clay
- Silt
- Clayey silt
- Sandy silt
- Sand
- Clayey sand
- Silty sand
- Gravel
- Sandy gravel
- Cobbles, boulders
- Talus

Sedimentary Rocks

- Boulder conglomerate
- Conglomerate
- Conglomeratic sandstone
- Sandstone
- Siltstone
- Laminite
- Mudstone, claystone, shale
- Coal
- Limestone

Metamorphic Rocks

- Slate, phyllite, schist
- Gneiss
- Quartzite

Igneous Rocks

- Granite
- Dolerite, basalt, andesite
- Dacite, epidote
- Tuff, breccia
- Porphyry

Soil Descriptions

Douglas Partners

Description and Classification Methods

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

Soil Types

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

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

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

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

The proportions of secondary constituents of soils are described as:

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

Definitions of grading terms used are:

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

Cohesive Soils

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

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

Cohesionless Soils

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

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

Soil Descriptions

Soil Origin

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

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

Transported soils may be further subdivided into:

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

Rock Strength

Rock strength is defined by the Point Load Strength Index ($Is_{(50)}$) and refers to the strength of the rock substance and not the strength of the overall rock mass, which may be considerably weaker due to defects. The test procedure is described by Australian Standard 4133.4.1 - 1993. The terms used to describe rock strength are as follows:

Term	Abbreviation	Point Load Index $Is_{(50)}$ MPa	Approx Unconfined Compressive Strength MPa*
Extremely low	EL	<0.03	<0.6
Very low	VL	0.03 - 0.1	0.6 - 2
Low	L	0.1 - 0.3	2 - 6
Medium	M	0.3 - 1.0	6 - 20
High	H	1 - 3	20 - 60
Very high	VH	3 - 10	60 - 200
Extremely high	EH	>10	>200

* Assumes a ratio of 20:1 for UCS to $Is_{(50)}$

Degree of Weathering

The degree of weathering of rock is classified as follows:

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

Degree of Fracturing

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

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

Rock Descriptions

Rock Quality Designation

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

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

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

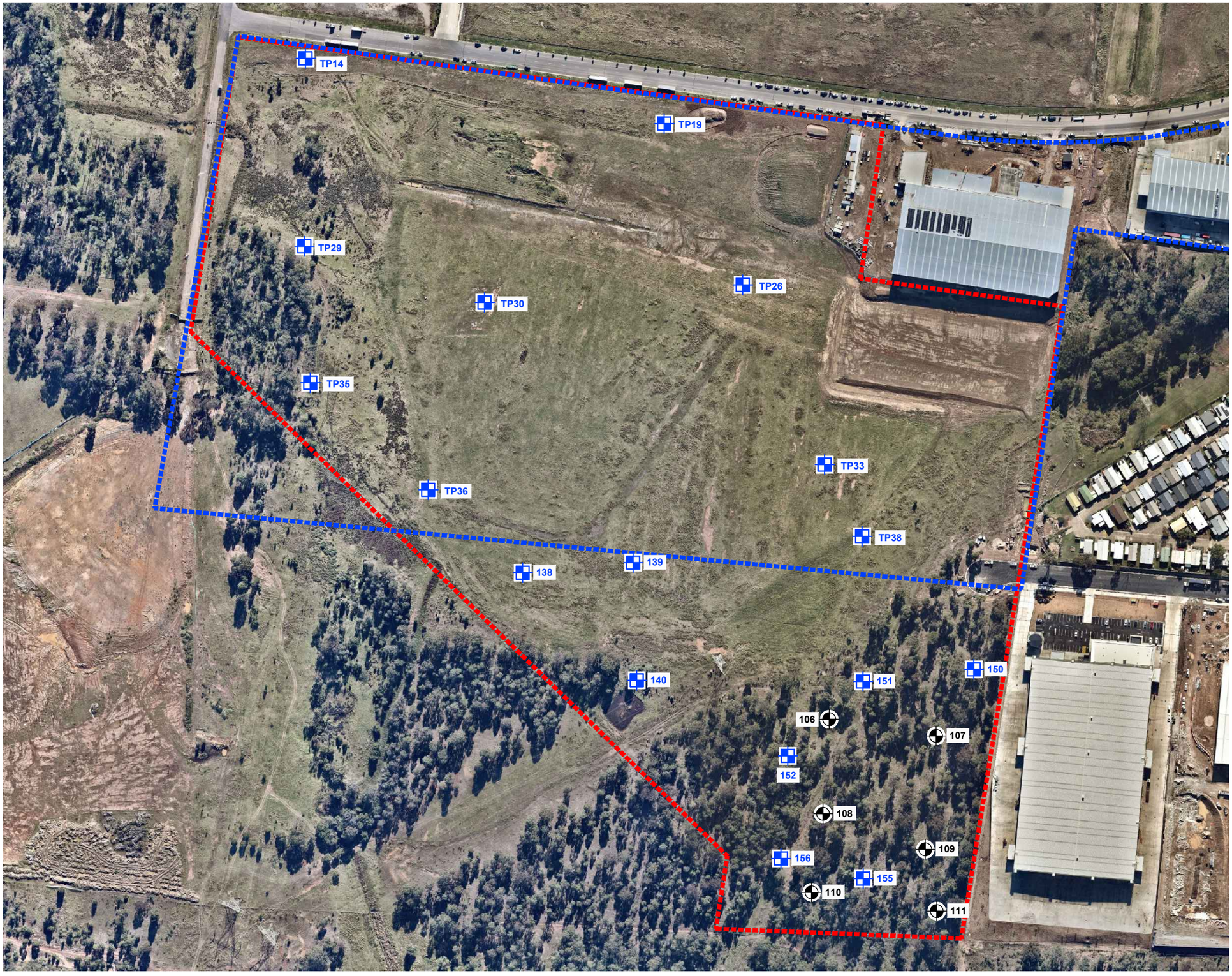
Stratification Spacing

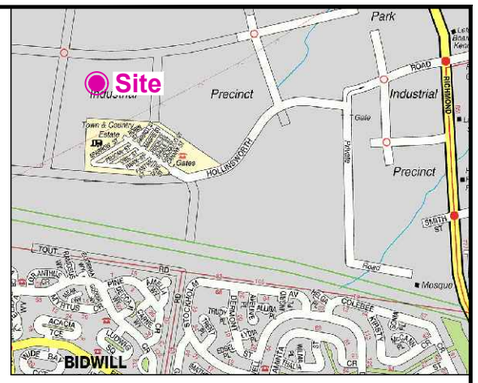
For sedimentary rocks the following terms may be used to describe the spacing of bedding partings:

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

Appendix B

Drawings 1- 4 and Figure 5 of GHD (2009





Location Plan

N

0 20 40 60 80 100

SCALE 1:3,000 (A3)

LEGEND:-

- Site boundary
- DP (2017) Site boundary
- Salinity test pits
- Geotechnical boreholes

NOTE:-

1. Image obtained from Near Map. Date of imagery 23-06-2020.
2. Test locations are approximate only and are shown with reference to existing site features.

Douglas Partners
Geotechnics | Environment | Groundwater

CLIENT: Marsden Park Developments (Construction) Pty Ltd	TITLE: **Sampling Locations**	PROJECT No: 94616.01	
OFFICE: North West Sydney / DRAWN BY: JST	**Sydney Business Park Stage 3**	DRAWING No: 1	
SCALE: As shown / DATE: 14 July 2020	**Astoria Street, Marsden Park**	REVISION: 0	

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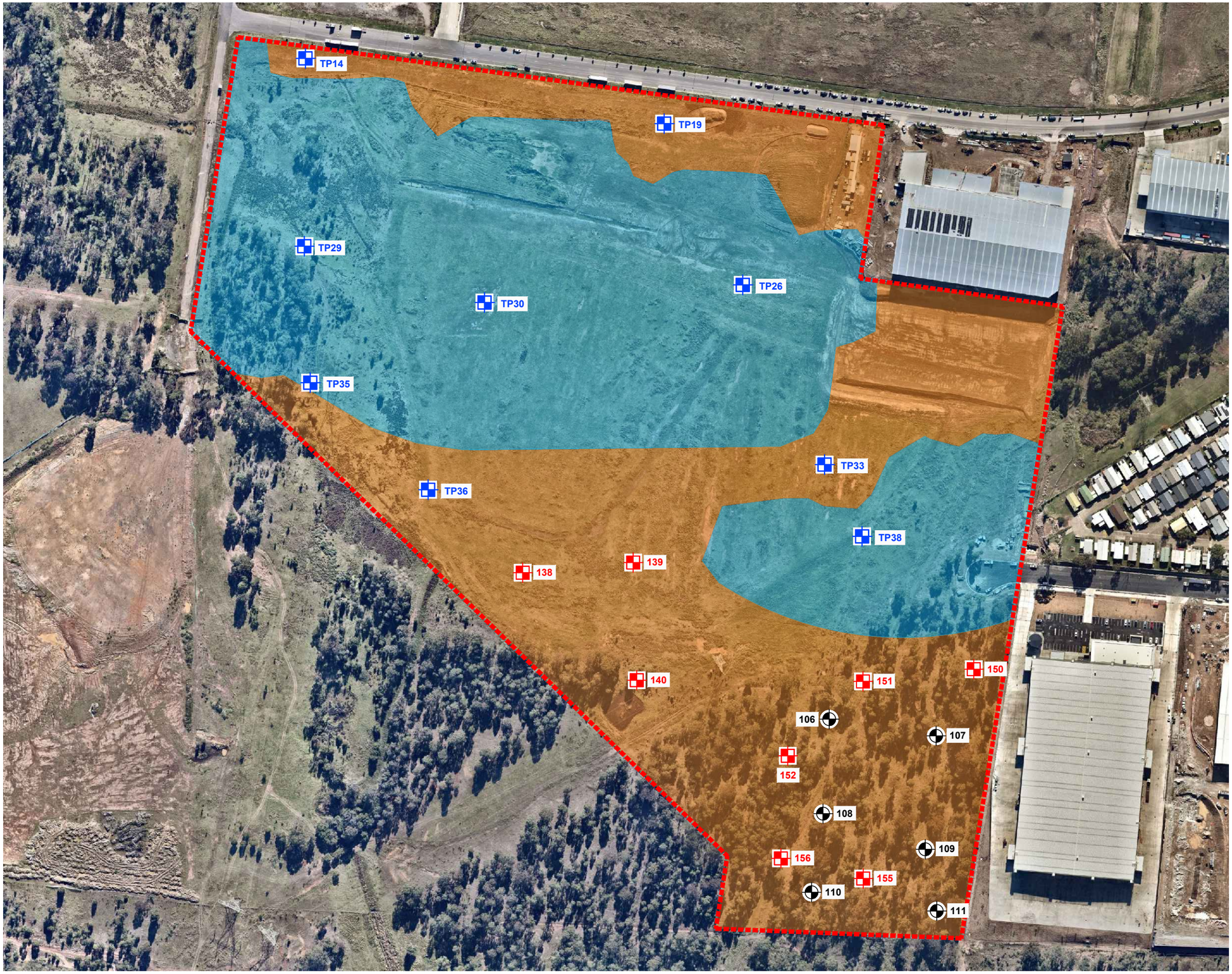

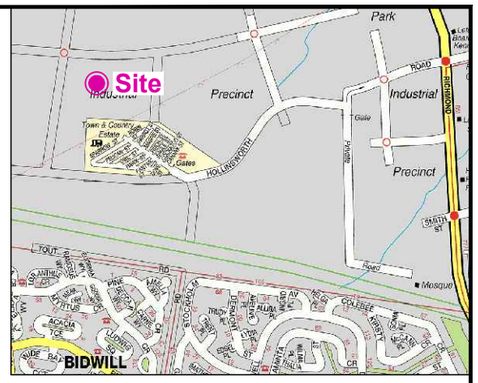

Location Plan

N

0 20 40 60 80 100

SCALE 1:3,000 (A3)

LEGEND:-

- Salinity test pits
- Geotechnical boreholes
- Mildly aggressive
- Non aggressive
- Site boundary

NOTE:-

1. Image obtained from Near Map. Date of imagery 23-06-2020.
2. Test locations are approximate only and are shown with reference to existing site features.

Douglas Partners
Geotechnics | Environment | Groundwater

CLIENT: Marsden Park Developments (Construction) Pty Ltd	TITLE: **Aggressivity to concrete within investigated depth zone**	PROJECT No:	94616.01
OFFICE: North West Sydney / DRAWN BY: JST	**Sydney business park stage 3**	DRAWING No:	2
SCALE: As shown / DATE: 14 July 2020	**Astoria Street, Marsden Park**	REVISION:	0

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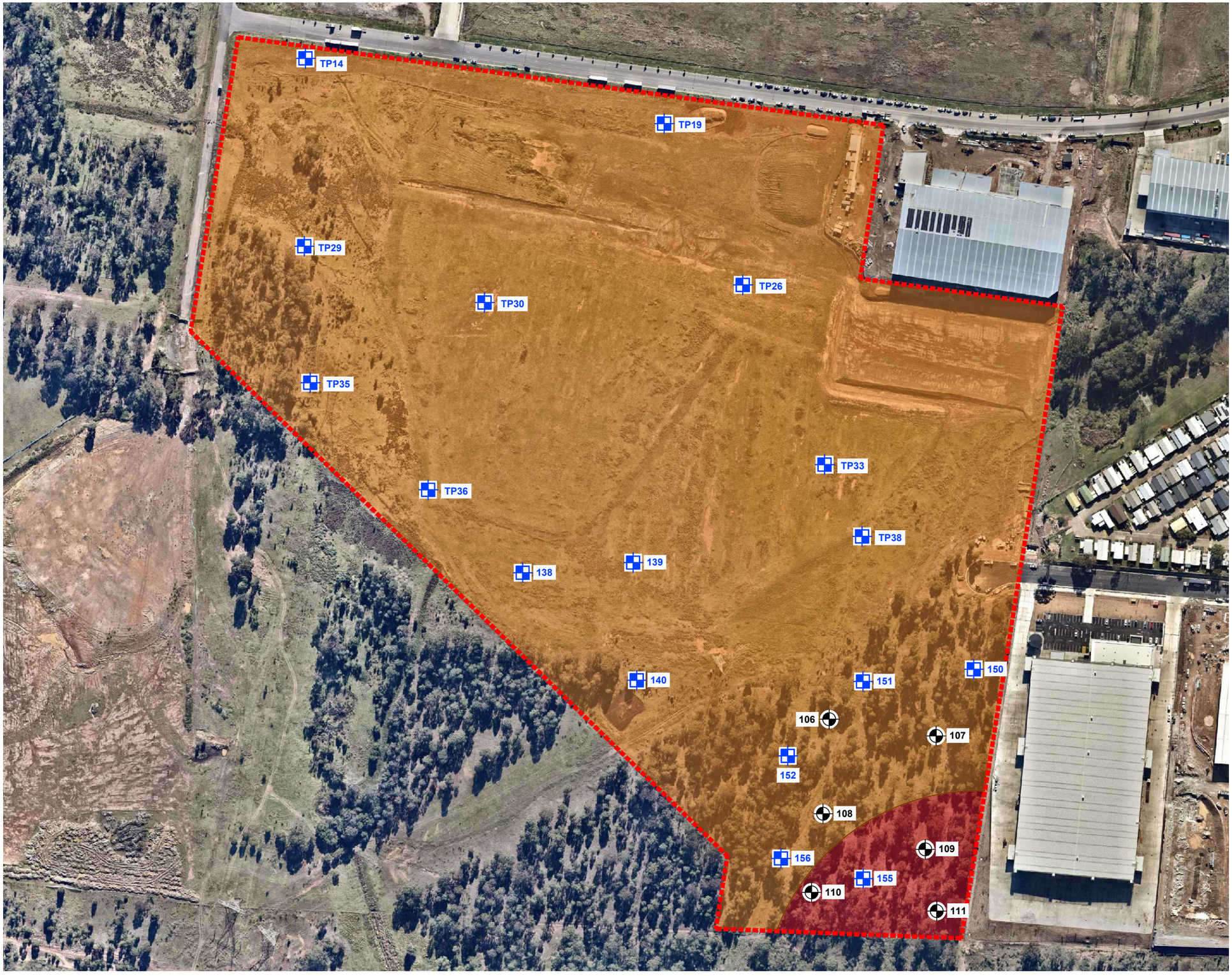

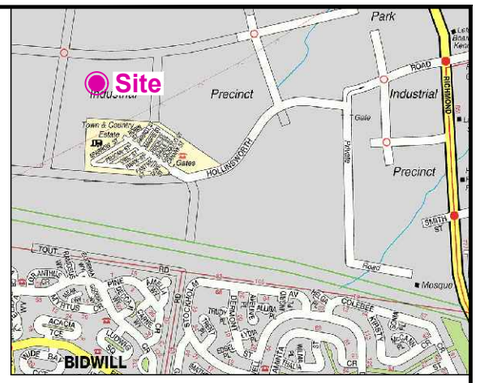

Location Plan

N

0 20 40 60 80 100

SCALE 1:3,000 (A3)

LEGEND:-

- Salinity test pits
- Geotechnical boreholes
- Mildly aggressive
- Moderately aggressive
- Site boundary

NOTE:-

1. Image obtained from Near Map. Date of imagery 23-06-2020.
2. Test locations are approximate only and are shown with reference to existing site features.

Douglas Partners
Geotechnics | Environment | Groundwater

CLIENT: Marsden Park Developments (Construction) Pty Ltd	TITLE: **Aggressivity to steel within investigated depth zone**	PROJECT No:	94616.01
OFFICE: North West Sydney / DRAWN BY: JST	**Sydney business park stage 3**	DRAWING No:	3
SCALE: As shown / DATE: 14 July 2020	**Astoria Street, Marsden Park**	REVISION:	0

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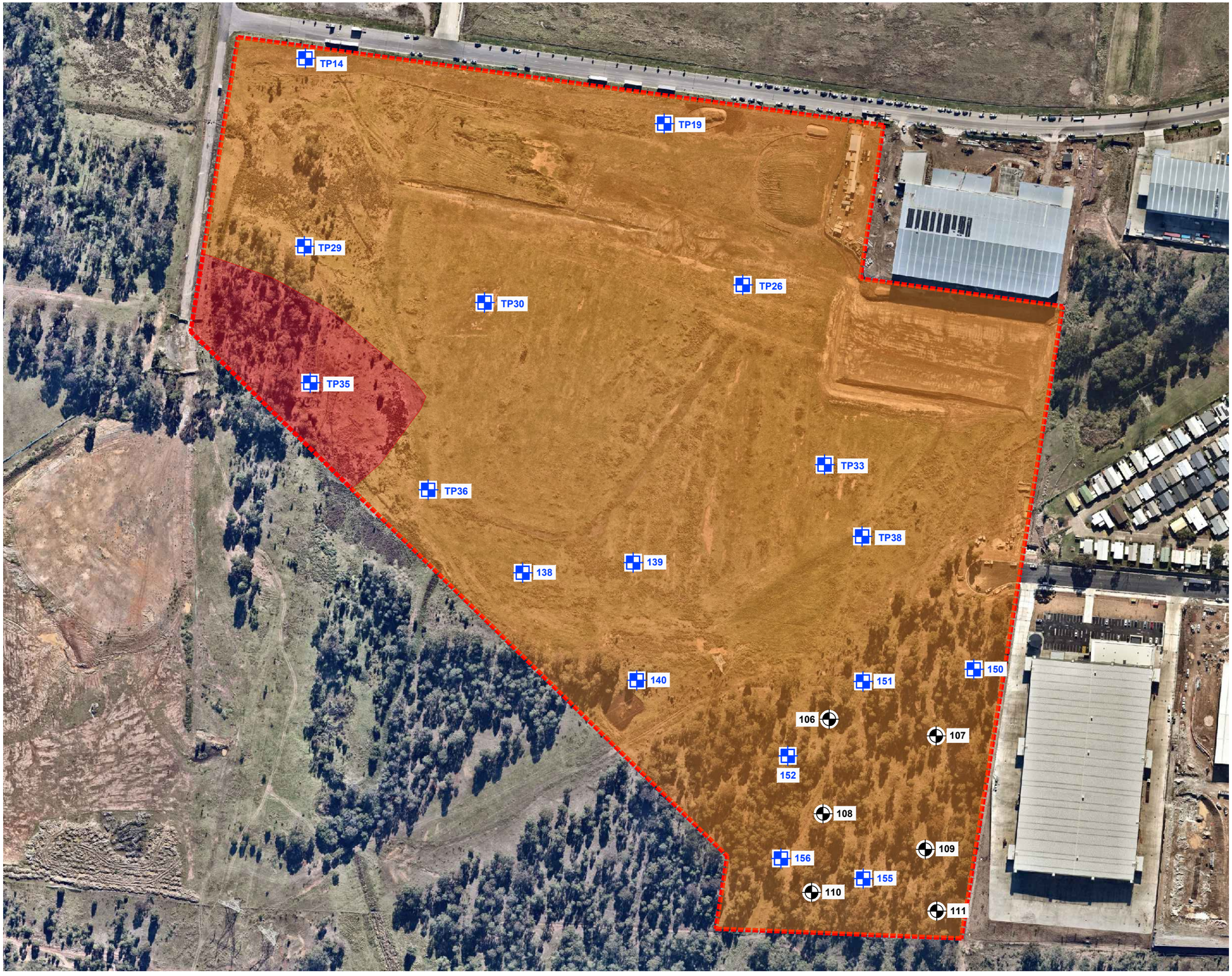

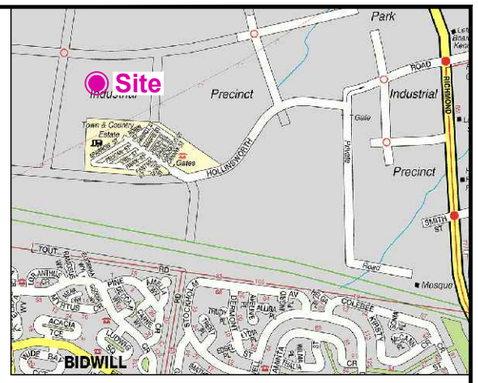

Location Plan

N

0 20 40 60 80 100

SCALE 1:3,000 (A3)

LEGEND:-

- Salinity test pits
- Geotechnical boreholes
- Moderately Saline
- Very saline
- Site boundary

NOTE:-

1. Image obtained from Near Map. Date of imagery 23-06-2020.
2. Test locations are approximate only and are shown with reference to existing site features.

Douglas Partners
Geotechnics | Environment | Groundwater

CLIENT: Marsden Park Developments (Construction) Pty Ltd	TITLE: **Salinities within investigated depth zone (0 to 3 m bgl)**	PROJECT No: 94616.01	
OFFICE: North West Sydney / DRAWN BY: JST	**Sydney business park stage 3**	DRAWING No: 4	
SCALE: As shown / DATE: 14 July 2020	**Astoria Street, Marsden Park**	REVISION: 0	

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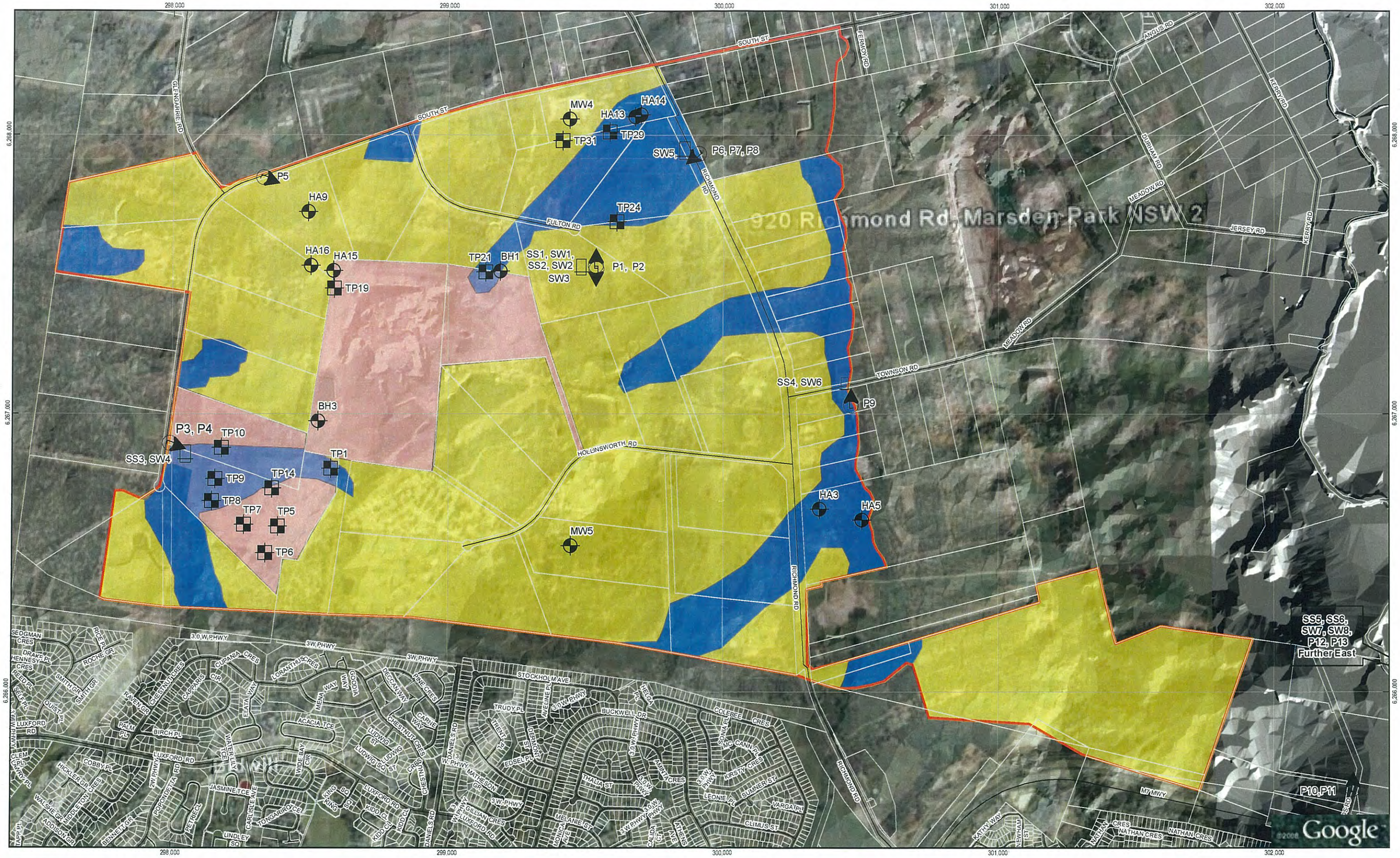

1:12,500 (at A3)

0 50 100 200 300 400 500

Metres

Map Projection: Transverse Mercator
Horizontal Datum: Geocentric Datum of Australia 1994
Grid: Map Grid of Australia, Zone 56

N

Legend

- Study Area
- Cadastre
- Roads

Salinity

- Higher Landscape, Salinity Domain 1
- Lower Landscape, Salinity Domain 2
- Disturbed Landscape, Salinity Domain 3

- Test Pit
- Borehole
- Photos
- Surface Sample Location

Locality Map

GHD CLIENTS | PEOPLE | PERFORMANCE

GHD GEOTECHNICS

AAP Corporation
Marsden Park Industrial Precinct
Geotechnical Investigation

Job Number	21-17717
Revision	A
Date	10 February 2009

Salinity Domains

Figure 5

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10 Bond Street Sydney NSW 2000 T 61 2 9239 7100 F 61 2 9239 7199 E sydmail@ghd.com.au W www.ghd.com.au

Data Source: NSW Department of Lands Cadastre, Roads 2008 Google Inc. Google Earth 2008 Created by: RCJOHNSON, qjchung

Appendix C

Test Pit and Borehole Logs

TEST PIT LOG

CLIENT: Marsden Park Developments Pty Ltd
PROJECT: Stage 3.01 Sydney Business Park
LOCATION: Marsden Park, NSW

SURFACE LEVEL: 38 mAHD
EASTING: 298044
NORTHING: 6266958

PIT No: 14
PROJECT No: 76669.03
DATE: 29/11/2016
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing: Type	Depth	Sample	Results & Comments	Water	Dynamic Penetrometer Test (blows per mm) 5 10 15 20
38		FILLING - brown clayey silt with rootlets (topsoil)		E	0.0				
	0.2	FILLING - brown silty clay with a trace of charcoal gravel			0.1				
	0.5	FILLING - grey, red and orange mottled sandy silty clay with some siltstone gravel		D	0.5				
37	1 1.0	FILLING - orange, grey and red mottled siltstone with silt clay banding		D E	1.0 1.1				1
				D	1.5				
	1.65	- becoming natural below 1.6m		E	1.6 1.7				
	1.8 1.9	SILTY CLAY - grey, orange and red mottled silty clay with siltstone banding							
36	2	SILTSTONE - medium strength, moderately weathered, grey, red and orange mottled siltstone		D	2.0				2
		SHALE AND SILTSTONE - highly weathered, shale and siltstone		D	2.5				
35	3			D	3.0				3
	3.1	Pit discontinued at 3.1m - limit of investigation							
34	4								4
33	5								5
32	6								6
31	7								7

RIG: Komatsu PC300LC excavator - 450mm bucket

LOGGED: CKM/LML

SURVEY DATUM: MGA94 Zone 56

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

☐ Sand Penetrometer AS1289.6.3.3
☐ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND

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

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TEST PIT LOG

CLIENT: Marsden Park Developments Pty Ltd
PROJECT: Stage 3.01 Sydney Business Park
LOCATION: Marsden Park, NSW

SURFACE LEVEL: 42 mAHD
EASTING: 298323
NORTHING: 6266909

PIT No: 19
PROJECT No: 76669.03
DATE: 1/12/2016
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing: Type	Depth	Sample	Results & Comments	Water	Dynamic Penetrometer Test (blows per mm) 5 10 15 20
42	0.1	FILLING - light brown clayey silt with some sandstone, shale and siltstone gravel and rootlets		E	0.0 0.1				
	0.5	FILLING - brown and orange silty clay with some siltstone, ironstone and sandstone gravel		E D	0.4 0.5				
		SILTY CLAY - grey mottled red and orange silty clay with some siltstone and ironstone gravel							
41	1			D	1.0				1
		- with sandstone banding below 1.2m		D	1.5				
40	2	2.0		D	2.0				2
		SHALE - very low strength, extremely to highly weathered, light grey and orange brown shale		D	2.5				
	2.7	Pit discontinued at 2.7m - refusal on very low strength shale							
39	3								3
38	4								4
37	5								5
36	6								6
35	7								7

RIG: Komatsu PC300LC excavator - 450mm bucket

LOGGED: CKM/LML

SURVEY DATUM: MGA94 Zone 56

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

☐ Sand Penetrometer AS1289.6.3.3
☐ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND

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

Douglas Partners
Geotechnics / Environment / Groundwater

TEST PIT LOG

CLIENT: Marsden Park Developments Pty Ltd
PROJECT: Stage 3.01 Sydney Business Park
LOCATION: Marsden Park, NSW

SURFACE LEVEL: 41 mAHD
EASTING: 298382
NORTHING: 6266782

PIT No: 26
PROJECT No: 76669.03
DATE: 30/11/2016
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing: Type	Depth	Sample	Results & Comments	Water	Dynamic Penetrometer Test (blows per mm) 5 10 15 20
41		FILLING - brown silty clay with rootlets and a trace of shale, siltstone and anthropogenics comprising glass (topsoil)		E	0.0 0.1				
				D	0.5				
40	1			D	1.0				1
				E	1.3 1.4				
		- becoming grey and brown mottled with a trace of rootlets, ironstone and siltstone gravel below 1.9m		D	1.5				
39	2	- becoming dark brown silty clay with a trace of shale, ironstone and siltstone gravel below 2.0m		D	2.0				2
				D	2.5				
38	3			D	3.0				3
	3.5	SILTY CLAY - grey, orange and brown mottled silty clay with shale, ironstone and siltstone gravel		E	3.8 3.9				
37	4 4.0	Pit discontinued at 4.0m - limit of investigation							4
36	5								5
35	6								6
34	7								7

RIG: Komatsu PC300LC excavator - 450mm bucket

LOGGED: CKM/LML

SURVEY DATUM: MGA94 Zone 56

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

☐ Sand Penetrometer AS1289.6.3.3
☐ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND

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

Douglas Partners
Geotechnics / Environment / Groundwater

TEST PIT LOG

CLIENT: Marsden Park Developments Pty Ltd
PROJECT: Stage 3.01 Sydney Business Park
LOCATION: Marsden Park, NSW

SURFACE LEVEL: 37 mAHD
EASTING: 298043
NORTHING: 6266810

PIT No: 29
PROJECT No: 76669.03
DATE: 29/11/2016
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing: Type	Depth	Sample	Results & Comments	Water	Dynamic Penetrometer Test (blows per mm) 5 10 15 20
37	0.1	TOPSOIL - brown silty clay with rootlets		E	0.0 0.1				
		SILTY CLAY - red and orange silty clay with a trace of ironstone and siltstone gravel and roots		D E	0.5 0.6				
36	1			D	1.0				1
		- becoming grey mottled orange, diffuse layering below 1.2m - with shale and siltstone banding below 1.4m		D E	1.5 1.6 1.7				
35	2 2.0	SHALE - very low strength, extremely weathered, light grey shale		D	2.0				2
	2.5	SILTSTONE - low strength, highly weathered, grey siltstone		D	2.5				
34	3 3.2			D	3.0				3
		Pit discontinued at 3.2m - limit of investigation							
33	4								4
32	5								5
31	6								6
30	7								7

RIG: Komatsu PC300LC excavator - 450mm bucket

LOGGED: CKM/LML

SURVEY DATUM: MGA94 Zone 56

WATER OBSERVATIONS: No free groundwater observed

REMARKS: * Replicate sample BD1/291116 collected; Test pit on track/path

☐ Sand Penetrometer AS1289.6.3.3
☐ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND

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

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Geotechnics / Environment / Groundwater

TEST PIT LOG

CLIENT: Marsden Park Developments Pty Ltd
PROJECT: Stage 3.01 Sydney Business Park
LOCATION: Marsden Park, NSW

SURFACE LEVEL: 39 mAHD
EASTING: 298458
NORTHING: 6266785

PIT No: 30
PROJECT No: 76669.03
DATE: 30/11/2016
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing: Type	Depth	Sample	Results & Comments	Water	Dynamic Penetrometer Test (blows per mm) 5 10 15 20
39		FILLING - grey silty clay with shale and siltstone gravel and cobbles		E	0.0 0.1				
		- becoming sandy with sandstone gravel below 0.5m		D	0.5				
38	1			D E	1.0 1.1				1
		- becoming grey, red and orange mottled silty clay below 1.2m		D	1.5				
		- becoming dark grey clayey sand with some sandstone, shale and siltstone gravel, cobbles and boulders							
37	2			D E	2.0 2.1				2
				D	2.5				
36	3			D E	3.0 3.1				3
35	4	4.0 SILTY CLAY - orange silty clay with some ironstone and charcoal gravel		E	4.0 4.1				4
34	5	- becoming grey mottled orange with a trace of siltstone and ironstone gravel below 5.0m		E	5.0 5.1				5
		5.8 Pit discontinued at 5.8m - limit of investigation							
33	6								6
32	7								7

RIG: Komatsu PC300LC excavator - 450mm bucket

LOGGED: CKM/LML

SURVEY DATUM: MGA94 Zone 56

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

☐ Sand Penetrometer AS1289.6.3.3
☐ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND

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

TEST PIT LOG

CLIENT: Marsden Park Developments Pty Ltd
PROJECT: Stage 3.01 Sydney Business Park
LOCATION: Marsden Park, NSW

SURFACE LEVEL: 45 mAHD
EASTING: 298452
NORTHING: 6266643

PIT No: 33
PROJECT No: 76669.03
DATE: 30/11/2016
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing: Type	Depth	Sample	Results & Comments	Water	Dynamic Penetrometer Test (blows per mm) 5 10 15 20
45		FILLING - brown silty clay with rootlets and a trace of siltstone (topsoil)		E	0.0 0.1				
	0.2	FILLING - brown silty clay and siltstone gravel with a trace of rootlets		D E	0.5 0.6 0.7				
44	1	- becoming brown, grey and red with a trace of ironstone and siltstone gravel below 1.0m		D D E	1.0 1.5 1.6				1
43	2 2.0	SILTY CLAY - orange brown silty clay with a trace of gravel		D	2.0				2
		- becoming grey, brown and orange mottled with a trace of ironstone, shale and siltstone below 2.5m		D E	2.5 2.6				
42	3	- becoming grey and orange mottled silty clay with ironstone and siltstone gravel below 3.2m		D E	3.0 3.1 3.2				3
	3.4	Pit discontinued at 3.4m - limit of investigation							
41	4								4
40	5								5
39	6								6
38	7								7

RIG: Komatsu PC300LC excavator - 450mm bucket

LOGGED: CKM/LML

SURVEY DATUM: MGA94 Zone 56

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

☐ Sand Penetrometer AS1289.6.3.3
☐ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND

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

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Geotechnics / Environment / Groundwater

TEST PIT LOG

CLIENT: Marsden Park Developments Pty Ltd
PROJECT: Stage 3.01 Sydney Business Park
LOCATION: Marsden Park, NSW

SURFACE LEVEL: 38 mAHD
EASTING: 298048
NORTHING: 6266705

PIT No: 35
PROJECT No: 76669.03
DATE: 29/11/2016
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing: Type	Depth	Sample	Results & Comments	Water	Dynamic Penetrometer Test (blows per mm) 5 10 15 20
38		TOPSOIL - brown silty clay with rootlets		E	0.0				
	0.15	SILTY CLAY - red and grey mottled orange silty clay with a trace of siltstone and ironstone gravel			0.1				
				E	0.4				
				D	0.5				
		- with siltstone banding below 0.7m							
37	1			D	1.0				1
	1.2	SHALE - low strength, grey mottled brown shale							
				D	1.5				
36	2			D	2.0				2
				D	2.5				
35	3			D	3.0				3
	3.2	Pit discontinued at 3.2m - limit of investigation							
34	4								4
33	5								5
32	6								6
31	7								7

RIG: Komatsu PC300LC excavator - 450mm bucket

LOGGED: CKM/LML

SURVEY DATUM: MGA94 Zone 56

WATER OBSERVATIONS: No free groundwater observed

REMARKS: * Replicate sample BD2/291116 collected adjacent to creekline

☐ Sand Penetrometer AS1289.6.3.3
☐ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND

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

Douglas Partners
Geotechnics / Environment / Groundwater

TEST PIT LOG

CLIENT: Marsden Park Developments Pty Ltd
PROJECT: Stage 3.01 Sydney Business Park
LOCATION: Marsden Park, NSW

SURFACE LEVEL: 41 mAHD
EASTING: 628142
NORTHING: 6266623

PIT No: 36
PROJECT No: 76669.03
DATE: 29/11/2016
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing: Type	Depth	Sample	Results & Comments	Water	Dynamic Penetrometer Test (blows per mm) 5 10 15 20
41		TOPSOIL - brown silty clay with rootlets		E	0.0 0.1				
	0.4	SANDY SILTY CLAY - orange sandy silty clay with some siltstone and ironstone gravel		E D	0.4 0.5				
	0.8	SILTY CLAY - grey mottled red and orange silty clay with a trace of siltstone and ironstone gravel		D E	1.0 1.1 1.2				
40	1			D	1.5				1
		- with siltstone banding below 1.8m							
39	2			D	2.0				2
				D	2.5				
		- with shale banding below 2.8m							
38	3			D	3.0				3
	3.2	Pit discontinued at 3.2m - limit of investigation							
37	4								4
36	5								5
35	6								6
34	7								7

RIG: Komatsu PC300LC excavator - 450mm bucket

LOGGED: CKM/LML

SURVEY DATUM: MGA94 Zone 56

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

☐ Sand Penetrometer AS1289.6.3.3
☐ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND

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

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TEST PIT LOG

CLIENT: Marsden Park Developments Pty Ltd
PROJECT: Stage 3.01 Sydney Business Park
LOCATION: Marsden Park, NSW

SURFACE LEVEL: 48 mAHD
EASTING: 628482
NORTHING: 6266589

PIT No: 38
PROJECT No: 76669.03
DATE: 30/11/2016
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing: Type	Depth	Sample	Results & Comments	Water	Dynamic Penetrometer Test (blows per mm) 5 10 15 20
48		FILLING - brown silty clay with rootlets and a trace of shale gravel (topsoil)		E	0.0				
				D	0.1				
	0.2	SILTY CLAY - orange brown mottled silty clay with a trace of siltstone and ironstone gravel		D	0.5				
				E	0.6				
47	1	- becoming orange and brown with siltstone and ironstone gravel below 0.9m		D	1.0				1
				D	1.5				
				E	1.6				
46	2	2.0 SHALE - extremely low strength, extremely to highly weathered, light brown and orange mottled shale with highly to moderately weathered shale bands		D	2.0				2
				E	2.3				
					2.4				
				D	2.5				
45	3	- mottled grey and orange brown with shale and ironstone gravel		D	3.0				3
					3.1				
	3.2	Pit discontinued at 3.2m - limit of investigation		E	3.2				
44	4								4
43	5								5
42	6								6
41	7								7

RIG: Komatsu PC300LC excavator - 450mm bucket

LOGGED: CKM/LML

SURVEY DATUM: MGA94 Zone 56

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

☐ Sand Penetrometer AS1289.6.3.3
☐ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND

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

BOREHOLE LOG

CLIENT: Marsden Park Developments Pty Ltd
PROJECT: Proposed Industrial Development
LOCATION: Astoria Street, Marsden Park

SURFACE LEVEL: 40.5 mAHD
EASTING: 298178
NORTHING: 6266922
DIP/AZIMUTH: 90°/--

BORE No: 101
PROJECT No: 94616.00
DATE: 2/7/2020
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Type	Test Results & Comments
40	0.1	FILL / TOPSOIL: silty clay CH, medium plasticity, brown, with rootlets throughout, trace gravel		
	0.3	FILL / Silty CLAY CH: medium to high plasticity, brown and grey, trace fine gravel, w < PL, variably compacted	D	pp = 150
39	1	Silty CLAY CH: medium to high plasticity, pale grey mottled orange and brown, trace ironstone and shale gravel, w < PL, stiff to very stiff, residual	D S	5,9,11 N = 20
38	2		D	
	2.5	SILTSTONE: grey-brown, very low strength, moderately weathered, fractured, trace sandstone laminations Bringelly Shale	S	20/100B refusal
37	3		C	100,34 refusal
	3.25	SANDSTONE: fine grained, orange-brown, low strength, moderately weathered, fractured, trace siltstone laminations, Bringelly Shale		
	3.63	SILTSTONE: grey, low strength, moderately then slightly weathered, fractured, with 30% sandstone laminations, Bringelly Shale		
36	4			PL(A) = 0.15 PL(A) = 0.19 PL(A) = 0.11
35	5		C	100,72 refusal PL(A) = 0.18
34	6			PL(A) = 0.22 PL(A) = 0.27
	7			
	7.0	Bore discontinued at 7.0m		
33	8			
32	9			
31				

Degree of Weathering: EW HW MW SW FS FR
Graphic Log
Rock Strength: Ex Low, Very Low, Low, Medium, High, Very High, Ex High
Water
Fracture Spacing (m): 0.01, 0.05, 0.10, 0.50, 1.00

Discontinuities
B - Bedding J - Joint
S - Shear F - Fault

Note: Unless otherwise stated all defects are bedding planes dipping 0-15°, pl, sm, cly vn or fe stn

2.78 - 2.86m: J80°, pl, sm, fe stn (x2)
2.93m: J25-35°, ir, sm, he (x2)
3.05m: Cs, 200mm
3.38m: J30°, pl, sm, fe stn
3.5m: J20-45°, ir, sm, fe stn
3.69m: J55°, pl, sm, cly vn
3.98m: Cs, 20mm
4.17m: J30°, pl, sm, cly vn

5.35m: J80-90°, ir, sm, he

5.88m: J45-80°, ir, sm, he
6.02m: J70°, pl, sm, he

6.44m: J30°, pl, sm, cly vn
6.5m: Cs, 30mm
6.79m: fg, 20mm

Sampling & In Situ Testing: Type | Core Rec. % | RQD % | Test Results & Comments

RIG: XC **DRILLER:** Traccess **LOGGED:** JY **CASING:** 0-2.6m

TYPE OF BORING: 150mm diameter SFA to 2.6m then NMLC coring to 7.0m

WATER OBSERVATIONS: No free groundwater observed whilst augering

REMARKS:

SAMPLING & IN SITU TESTING LEGEND

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

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BORE:BH101 **PROJECT: 94616.00** **July 2020**

2.6m – 7.0m

BOREHOLE LOG

CLIENT: Marsden Park Developments Pty Ltd
PROJECT: Proposed Industrial Development
LOCATION: Astoria Street, Marsden Park

SURFACE LEVEL: 43.7 mAHD
EASTING: 298405
NORTHING: 6266893
DIP/AZIMUTH: 90°/--

BORE No: 102
PROJECT No: 94616.00
DATE: 1/7/2020
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Degree of Weathering	Graphic Log	Rock Strength	Water	Fracture Spacing (m)	Discontinuities (B - Bedding, J - Joint, S - Shear, F - Fault)	Type	Core Rec. %	RQD %	Test Results & Comments
	0.05	FILL / TOPSOIL: silty clay CH, grey-brown, with fine to coarse gravel, trace rootlets, w < PL,										
43	0.7	FILL / Silty CLAY CI: grey-brown, trace fine to coarse gravel, w <PL, variably compacted							D			
	1	Silty CLAY CH: medium to high plasticity, orange brown and brown, w < PL, stiff to very stiff, residual							D			
42		- becoming pale grey mottled orange-brown, with ironstone gravel from 1.0m							S			7,7,8 N = 15
	1.9	Silty CLAY CH: medium to high plasticity, pale grey mottled orange-brown, with ironstone and shale gravel,w <PL, hard, residual (possibly extremely weathered bedrock)						Note: Unless otherwise stated all defects are bedding planes dipping 0-10°, pl, ro, cly vn or cly inf 5mm	D			
	2								D			10/40B refusal
	2.5								S			
41		SANDSTONE: fine to medium grained, orange-brown, with approximately 10-20% siltstone laminations and 5% extremely weathered (clay) bands, medium to high strength, moderately weathered fractured, Bringelly Shale										PL(A) = 0.54
	3							2.98m: Cs, 20mm				PL(A) = 0.81
40		3.3-3.37m: siltstone band						3.26m: B, 5°, pl, ro, fg inf 5mm 3.27m: J90°, pl, ro, cly ct, fe stn	C	100	60	PL(A) = 0.26
	4	3.51-4.15m: low to medium strength band						3.6 - 3.95 m Cs, 10 mm to 20mm (x3) 4.1m: fg, 50mm				PL(A) = 1.16
39	4.74	LAMINITE: dark grey (50%) siltstone interbedded and interlaminated, with fine to medium grained, orange-brown and yellow-brown sandstone (50%), medium to high strength, moderately to slightly weathered, fractured to slightly fractured, Bringelly Shale						4.64-4.71m: J80°, pl, ro, cly vn 4.74-5.11m: J70-80°, pl, ro, fe stn				
	5							5.42m: Cs, 30mm	C	100	97	PL(A) = 0.44
38	5.8	SILTSTONE: pale grey, with approximately 10% sandstone laminations, very high strength, fresh with some iron staining, unbroken, Bringelly Shale						5.73m: fg, 30mm				
	6											PL(A) = 3.27
37	6.74	Bore discontinued at 6.74m						6.58m: J50°, pl, ro, fe stn				
	7											
36												
	8											
35												
	9											
34												

RIG: XC **DRILLER:** Traccess **LOGGED:** JY / IT **CASING:** 0-2.6m

TYPE OF BORING: 150mm diameter SFA to 2.6m then NMLC coring to 6.74m.

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

SAMPLING & IN SITU TESTING LEGEND

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

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BORE:BH102 **PROJECT: 94616.00** **July 2020**

2.6m – 6.74m

BOREHOLE LOG

CLIENT: Marsden Park Developments Pty Ltd
PROJECT: Proposed Industrial Development
LOCATION: Astoria Street, Marsden Park

SURFACE LEVEL: 41.9 mAHD
EASTING: 298270
NORTHING: 6266817
DIP/AZIMUTH: 90°/--

BORE No: 103
PROJECT No: 94616.00
DATE: 30/6/2020
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing: Type	Depth	Sample	Results & Comments	Water	Well Construction Details
	0.1	FILL / TOPSOIL: silty clay CH, grey-brown, trace rootlets							
	0.5	FILL / Silty CLAY CH: medium to high plasticity, pale grey mottled orange, w <PL		D	0.4 0.5				
41	1	FILL / Gravelly CLAY CH: grey with sand, ripped shale gravel, w < PL							1
				S	1.5 1.95		13,9,11 N = 20		
40	2								2
	2.5	Silty CLAY CH: medium to high plasticity, pale grey mottled orange-brown, w < PL, very stiff, residual							
39	3			D U50	2.9 3.0 3.2				3
	3.8	SHALE: grey-brown, very low strength, moderately weathered, Bringelly Shale		D S	3.9 4.0 4.06		20/608 refusal		
38	4								4
	4.06	Bore discontinued at 4.06m							
37	5								5
36	6								6
35	7								7
34	8								8
33	9								9
32									

RIG: Hanjin D&B 8D **DRILLER:** Sytech **LOGGED:** JY **CASING:** Uncased
TYPE OF BORING: 150mm diameter SFA
WATER OBSERVATIONS: No free groundwater observed
REMARKS:

SAMPLING & IN SITU TESTING LEGEND

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

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BOREHOLE LOG

CLIENT: Marsden Park Developments Pty Ltd
PROJECT: Proposed Industrial Development
LOCATION: Astoria Street, Marsden Park

SURFACE LEVEL: 41.8 mAHD
EASTING: 298168
NORTHING: 6266753
DIP/AZIMUTH: 90°/--

BORE No: 104
PROJECT No: 94616.00
DATE: 1/7/2020
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Degree of Weathering	Graphic Log	Rock Strength	Water	Fracture Spacing (m)	Discontinuities (B - Bedding, J - Joint, S - Shear, F - Fault)	Sampling & In Situ Testing: Type	Core Rec. %	RQD %	Test Results & Comments
	0.1	FILL/ TOPSOIL: silty clay CH, grey-brown,trace gravel and rootlets, w <PL										
	0.5	FILL / Silty CLAY CH: grey-brown, trace gravel, w<PL							D			
41	1	FILL / Gravelly CLAY CL: grey, ripped shale gravel, trace sand, w < PL							D S			8,12,8 N = 20
40	2								D			
39	3								S			10,14,13 N = 27
38	3.9	Silty CLAY CH: medium to high plasticity, orange-brown mottled grey, trace fine to medium ironstone gravel and rootlets, w < PL, stiff, residual							D			
37	4	- becoming very stiff and pale grey mottled orange from 4.5m							S D U			4,5,6 N = 11
	5							Unless stated otherwise all defects are bedding planes dipping at 0-10°				
	5.5	SILTSTONE: dark brown to dark grey, with approximately 10% extremely weathered (clay bands), very low to low strength, highly to moderately weathered, fractured, Bringelly Shale							S			18/50 refusal
36	6							5.8m: fg, 20mm 5.87m: Cs, 90mm 5.93m: Ds, 30mm 5.97m: J45-80°, cu, sm, cly ct 6.13m: J60-90°, cu, sm, cly ct	C	100		PL(A) = 0.25
35	7							6.38m: J40°, pl, ro, cly vn, fe stn 6.6m: Cs, 20mm 6.7m: Cs, 10mm 6.72m: Cs, 30mm				PL(A) = 0.13
	7.42	SILTSTONE / SHALE: dark grey, with approximately 10% sandstone laminations, low to medium strength, fresh, slightly fractured to unbroken, Bringelly Shale						6.77m: J85°, pl, ro, cly vn 6.89m: fg, 20mm 7.08-7.15m: J70°, un, ro, cly co 7.3m: J25°, pl , ro, cly co 8m: J80°, vn, he				PL(A) = 0.17
34	8								C	100		PL(A) = 0.27
33	9							8.62m: Cs, 20mm 8.72m: 80°, pl, ro, fg inf 10mm				PL(A) = 0.34
												PL(A) = 0.3
32	10.0							9.7m: fg, 20mm 9.94 :fg, 20 mm				PL(A) = 0.36

Bore discontinued at 10.0m

RIG: XC **DRILLER:** Traccess **LOGGED:** JY **CASING:** 0-5.7m

TYPE OF BORING: 150mm diameter SFA to 5.55m then NMLC coring to 10.0m

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

SAMPLING & IN SITU TESTING LEGEND

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

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BORE:BH104 **PROJECT: 94616.00** **July 2020**

5.7m – 10.0m

BOREHOLE LOG

CLIENT: Marsden Park Developments Pty Ltd
PROJECT: Proposed Industrial Development
LOCATION: Astoria Street, Marsden Park

SURFACE LEVEL: 44.3 mAHD
EASTING: 298372
NORTHING: 6266725
DIP/AZIMUTH: 90°/--

BORE No: 105
PROJECT No: 94616.00
DATE: 30/6/2020
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Degree of Weathering	Graphic Log	Rock Strength	Water	Fracture Spacing (m)	Discontinuities (B - Bedding, J - Joint, S - Shear, F - Fault)	Sampling & In Situ Testing: Type	Core Rec. %	RQD %	Test Results & Comments
44	0.1	FILL / TOPSOIL / Silty CLAY: grey-brown, trace gravel rootlets, w < PL, surficial rootlets										
		FILL / Gravelly CLAY: grey, with sand, gravel is fine to coarse siltstone, w < PL, apparently well compacted							D			
43	1											
42	2								D			
	3											
41	3.2	Silty CLAY CH: medium to high plasticity, pale grey mottled red and orange, w < PL, stiff to very stiff, residual							D			
								Note: Unless stated otherwise all defects are bedding planes dipping 0-10°, pl, ro, cly vn or cly inf 5-10mm	S			6,8,8 N = 16
40	4											
	4.4	LAMINITE: fine grained, orange-brown to red-brown, interbedded sandstone (60-80%) with approximately 20 - 40% siltstone laminations, medium strength, moderately weathered, Bringelly Shale						4.44m: Cs, 20mm 4.64-4.71m: J70°, pl, ro, fe stn 4.98m: Cs, 20mm 5.2-5.27m: J80°, pl, ro, fe, stn 5.49-5.62m: J70°, pl, ro, fe stn 5.92m: Cs, 50mm				PL(A) = 0.57
39	5	5.63m: grading to medium grained sandstone										PL(A) = 0.95
									C	100	90	PL(A) = 0.53
38	6											
	6.55	SANDSTONE: fine grained, pale grey and orange-brown, medium to high strength, fresh with some iron staining, unbroken, Bringelly Shale										PL(A) = 0.6
37	7											
												PL(A) = 0.64
	8								C	100	100	
36												PL(A) = 1.08
	8.54	Bore discontinued at 8.54m										
	9											
35												

RIG: XC **DRILLER:** Traccess **LOGGED:** JY / IT **CASING:** Uncased

TYPE OF BORING: 150mm diameter SFA to 4.4m then NMLC coring to 8.54m

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

SAMPLING & IN SITU TESTING LEGEND

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

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BORE:BH105 **PROJECT: 94616.00** **July 2020**

4.4m – 8.54m

BOREHOLE LOG

CLIENT: Marsden Park Developments Pty Ltd
PROJECT: Proposed Industrial Development
LOCATION: Astoria Street, Marsden Park

SURFACE LEVEL: 49.5 mAHD
EASTING: 298461
NORTHING: 6266448
DIP/AZIMUTH: 90°/--

BORE No: 106
PROJECT No: 94616.00
DATE: 30/6/2020
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Degree of Weathering (EW, HW, MW, SW, FS, FR)	Graphic Log	Rock Strength (Ex Low, Very Low, Low, Medium, High, Very High, Ex High)	Water	Fracture Spacing (m) (0.01, 0.05, 0.10, 0.50, 1.00)	Discontinuities (B - Bedding, J - Joint, S - Shear, F - Fault)	Sampling & In Situ Testing: Type	Core Rec. %	RQD %	Test Results & Comments
	0.05	FILL/TOPSOIL: silty clay CH, brown with rootlets throughout										
49		Silty CLAY CH: medium to high plasticity, orange-brown mottled grey, trace fine gravel, w < PL, stiff to very stiff, residual							U50			6,8,10
									S			N = 18
	1	= becoming very stiff from 0.7m							D			
48		= becoming pale grey mottled orange and red and trace of ironstone gravel from 1.0m										
	2							Note: Unless stated otherwise all defects are bedding planes dipping 0-10°, pl, ro, cly vn or cly inf 5-10mm	D			
47	2.5	SANDSTONE: fine grained, red-brown, medium strength, moderately weathered, fractured to slightly fractured, Bringelly Shale							S			15/60B refusal
	3							3.28 - 3.43 m; Cs, 20 - 30 mm (x2)				PL(A) = 0.88
46												PL(A) = 0.92
	4							4.09-4.38m: J80-90°, un, ro, fe stn	C	100	91	
45	4.38	SANDSTONE: fine to medium grained, orange-brown and pale grey,laminated with cross bedding, with ironstone bands, high strength, moderately to slightly weathered, fractured, Bringelly Shale										PL(A) = 1.31
	5							4.81-4.89m: (x2) B80°, pl, ro, fe, stn				
	5.21	LAMINITE: fine to medium grained, pale grey and orange-brown, 60 - 70% sandstone and 30 - 40 % siltstone, laminated to very thinly bedded, with ironstone bands, low strength, moderately to slightly weathered, slightly fractured to unbroken, Bringelly Shale										PL(A) = 1.46
44												PL(A) = 0.47
	6							5.61m: fg, 20mm				PL(A) = 0.33
43		6.51m: grading to low strength sandstone										PL(A) = 0.16
	7								C	100	55	
42												PL(A) = 0.22
	7.71	SILTSTONE: fine to coarse grained, pale grey, 50 - 60% sandstone and 40 - 50% siltstone, interbedded and interlaminated, low and medium strength with high strength band, fresh, slightly fractured, Bringelly Shale										PL(A) = 0.79
	8											PL(A) = 1.87
41								8.23m: fg, 50mm				
		8.75m: grading to 70% siltstone and 30% sandstone, moderately weathered										PL(A) = 0.25
	9	8.98m: highly fractured							C	100	31	
								9.2m: Cs, 40mm				
40								9.16 - 9.77 m: Cs, 10 - 40 mm (x3)				
								9.44-9.52m: J60°, pl, sm, cly co				PL(A) = 0.7
	9.79	Bore discontinued at 9.79m										

RIG: Hanjin D&B 8D **DRILLER:** Sytech **LOGGED:** JY **CASING:** 0-2.5m

TYPE OF BORING: 150mm diameter SFA to 2.5m then NMLC coring to 9.79m

WATER OBSERVATIONS: No free groundwater observed whilst augering

REMARKS: Well constructions details: Blank 0-5.3m, Screen 5.3-8.3m, Backfill: 5mm gravel 0-4.3m bgl, Bentonite 4.3-4.8m bgl, 5mm gravel 4.8-9.79m

SAMPLING & IN SITU TESTING LEGEND

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

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BORE: BH106 PROJECT: 94616.00 July 2020

2.54m – 7.0m

BORE: BH106 PROJECT: 94616.00 July 2020

7.0m – 9.79m

BOREHOLE LOG

CLIENT: Marsden Park Developments Pty Ltd
PROJECT: Proposed Industrial Development
LOCATION: Astoria Street, Marsden Park

SURFACE LEVEL: 51.0 mAHD
EASTING: 298543
NORTHING: 6266435
DIP/AZIMUTH: 90°/--

BORE No: 107
PROJECT No: 94616.00
DATE: 30/6/2020
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing: Type	Depth	Sample	Results & Comments	Water	Well Construction Details
51	0.05	FILL/TOPSOIL: silty clay CH, brown with vegetation throughout							
		FILL / Silty CLAY: brown and grey, trace fine to medium gravel, w <PL		D	0.4 0.5				
	0.8	Silty CLAY: medium to high plasticity, pale grey mottled red and orange, w < PL, very stiff, residual							
50	1			U50	1.0 1.25				1
				S	1.5 1.95		6,10,13 N = 23		
49	2								2
48	3	- hard clay (possibly extremely weathered shale)		S	3.0 3.42		11,15,20/120 refusal		3
	3.6 3.7	SHALE: grey-brown, very low strength, with clay seams, moderately weathered, Bringelly Shale							
47	4	Bore discontinued at 3.7m - Practical refusal at 3.7m							4
46	5								5
45	6								6
44	7								7
43	8								8
42	9								9

RIG: XC **DRILLER:** Traccess **LOGGED:** JY **CASING:** Uncased
TYPE OF BORING: 150mm diameter SFA
WATER OBSERVATIONS: No free groundwater observed
REMARKS:

SAMPLING & IN SITU TESTING LEGEND

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

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Geotechnics / Environment / Groundwater

BOREHOLE LOG

CLIENT: Marsden Park Developments Pty Ltd
PROJECT: Proposed Industrial Development
LOCATION: Astoria Street, Marsden Park

SURFACE LEVEL: 51.8 mAHD
EASTING: 298456
NORTHING: 6266375
DIP/AZIMUTH: 90°/--

BORE No: 108
PROJECT No: 94616.00
DATE: 30/6/2020
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Type	Core Rec. %	RQD %	Test Results & Comments
	0.05	FILL/TOPSOIL: silty clay CH, brown with vegetation throughout				
		Silty CLAY CH: medium to high plasticity, mottled pale grey and orange-brown, w <PL, stiff, residual	D			
51	1 1.0	Silty CLAY CH: medium to high plasticity, pale grey mottled red, trace ironstone gravel, w < PL, very stiff, residual	S			6,9,12 N = 21
50	2		D			
		- hard (extremely weathered siltstone)	S			20,R refusal
49	2.85	SILTSTONE: grey and orange-brown, low strength, moderately weathered, fractured, with extremely weathered seams, Bringelly Shale	C	100	30	
48	3 3.63	LAMINITE: fine grained, grey-brown, medium strength, moderately weathered, slightly fractured, 40 - 50% sandstone with 50- 60% siltstone laminations, Bringelly Shale				PL(A) = 0.94
47	4		C	100	67	PL(A) = 0.68
46	5					
45	6 6.0	SANDSTONE: fine to medium grained, pale grey and brown, high strength, moderately to slightly weathered, slightly fractured, Bringelly Shale	C	100	83	PL(A) = 1.77
44	7					PL(A) = 1.05
	8					
	8.35	8.20-8.23m and 8.4-8.44m: siltstone band				PL(A) = 0.51
43	9	SILTSTONE: fine to medium grained, grey, medium strength, fresh stained, with 30% sandstone laminations, Bringelly Shale				PL(A) = 0.56
42	10.0		C	100	72	

Bore discontinued at 10.0m

Note: Unless otherwise stated all defects are bedding planes dipping 0-10°, pl, sm, cly ct

2.86- 3.16m: Cs 30 - 40 mm (x2)
3.2-3.3m: J90°, st, ro, fe stn
3.39-3.44m: J80°, pl, sm, cly cu
3.44m: Cs, 70mm
3.44- 3.54m: Cs 70 - 90 mm (x2)
3.64m: J40-90°, vn, ro, fe stn

5.31m: B0°, pl, ro, fg, cly inf

7.15m: fg, 20mm
7.58m: B0°, pl, ro, fg, inf

9.28-9.33m: J60°, pl, ro, cly vn

Discontinuities: B - Bedding, J - Joint, S - Shear, F - Fault

RIG: XC **DRILLER:** Traccess **LOGGED:** JY **CASING:** 0-2.85m
TYPE OF BORING: 150mm diameter SFA to __ then NMLC coring to
WATER OBSERVATIONS: No free groundwater observed whilst augering
REMARKS:

SAMPLING & IN SITU TESTING LEGEND

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

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BORE: BH108 PROJECT: 94616.00 July 2020

2.85m – 7.0m

BORE: BH108 PROJECT: 94616.00 July 2020

7.0m – 10.0m

BOREHOLE LOG

CLIENT: Marsden Park Developments Pty Ltd
PROJECT: Proposed Industrial Development
LOCATION: Astoria Street, Marsden Park

SURFACE LEVEL: 51.9 mAHD
EASTING: 298535
NORTHING: 6266348
DIP/AZIMUTH: 90°/--

BORE No: 109
PROJECT No: 94616.00
DATE: 29/6/2020
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Degree of Weathering	Graphic Log	Rock Strength	Water	Fracture Spacing (m)	Discontinuities (B - Bedding, J - Joint, S - Shear, F - Fault)	Sampling & In Situ Testing: Type	Core Rec. %	RQD %	Test Results & Comments
51	0.05	FILL/TOPSOIL: silty clay CH, brown with vegetation throughout							D			
		Silty CLAY CH: medium to high plasticity, pale grey mottled orange, trace ironstone gravel and carbonaceous material, w < PL, stiff, residual							S			3,6,7 N = 13
50	1.5	Silty CLAY CH: medium to high plasticity, pale grey mottled red, with ironstone gravel, w < PL, very stiff, residual							S			7,10,16 N = 26
									D			
								Note: Unless stated otherwise all defects are bedding planes dipping 0-10°, pl, ro, clyn vn or fe stn				
49	3.0	Silty CLAY CH: medium to high plasticity, pale grey mottled red, with bands of ironstone and extremely weathered siltstone,w < PL, hard, residual (extremely weathered siltstone)						3.15m: Cs, 300m	S			12,16,20 N = 36
								3.5m: Cs, 60mm				
								3.68m: Cs, 50mm				
48	3.87	SILTSTONE: grey-brown, very low strength, highly to moderately weathered, slightly fractured, with 5% clay seams, Bringelly Shale						3.77m: Cs, 100mm	C	100	5	PL(A) = 0.09
								4.65m: Cs, 20mm				
47	5.0	LAMINITE: grey and brown, low strength, moderately then slightly weathered, fractured, 30% sandstone laminations, Bringelly Shale						4.93m: Cs, 70mm				
												PL(A) = 0.22
												PL(A) = 0.09
46								5.85m: (2x) J20-45°, ir, ro, he				
								6.19m: J40-80°, cu, ro, he				PL(A) = 0.19
45								6.53m: J45°, pl, ro, cly vn, fe stn	C	100	57	
								6.76-6.84m: (2x) J45°, pl, ro, cly vn, fe stn				
								7.17m: fg, 10mm				
								7.2m: Cs, 10mm				
								7.41m: fg, 10mm				
												PL(A) = 0.23
44												PL(A) = 0.11
	8.55	LAMINITE: grey, medium then high strength, fresh stained, with 60% sandstone laminations, Bringelly Shale						8.54m: Cs, 10mm				PL(A) = 0.93
43									C	100	83	
												PL(A) = 1.08
								9.57m: Ds, 10mm				
42	10.0											

Bore discontinued at 10.0m

RIG: Hanjin D&B 8D **DRILLER:** Sytech **LOGGED:** JY **CASING:** 0-3.15m

TYPE OF BORING: 150mm diameter SFA to 3.0m then coring to 10.0m

WATER OBSERVATIONS: No free groundwater observed whilst augering

REMARKS: Well construction details: Blank 0-5.3m, Screen 5.3-8.3m, Backfill: 5mm gravel, Bentonite 4.3-4.8m, 5mm gravel 4.8-10m

SAMPLING & IN SITU TESTING LEGEND

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

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BORE: BH109 PROJECT: 94616.00 July 2020

3.15m – 8.0m

BORE: BH109 PROJECT: 94616.00 July 2020

8.0m – 10.0m

BOREHOLE LOG

CLIENT: Marsden Park Developments Pty Ltd
PROJECT: Proposed Industrial Development
LOCATION: Astoria Street, Marsden Park

SURFACE LEVEL: 50.9 mAHD
EASTING: 298447
NORTHING: 6266314
DIP/AZIMUTH: 90°/--

BORE No: 110
PROJECT No: 94616.00
DATE: 29/6/2020
SHEET 1 OF 2

RL	Depth (m)	Description of Strata	Degree of Weathering	Graphic Log	Rock Strength	Water	Fracture Spacing (m)	Discontinuities (B - Bedding, J - Joint, S - Shear, F - Fault)	Type	Core Rec. %	RQD %	Test Results & Comments
	0.1	FILL/TOPSOIL: silty clay CH, brown with vegetation throughout							D			
		Silty CLAY CH: medium to high plasticity, pale grey mottled red, with ironstone gravel, w < PL, very stiff, residual							U50			
50	1								D			
									S			7,9,12 N = 21
49	2								D			
								Note: Unless otherwise stated all defects are bedding planes dipping 0-10°, pl, ro, cly inf 5mm or fg 5mm	S			10,13,16 N = 29
48	3	- hard from 2.8m (extremely weathered siltstone)										
	3.0	SILTSTONE: pale brown, very low strength siltstone with 30% clay seams, highly then moderately weathered, fractured, Bringelly Shale						3.2m: CORE LOSS: 220mm	C	100	0	
	3.42	CORE LOSS						3.62-3.87m:Cs, 40 -60mm (x3)				
47	4							4.03m: J90°, pl, ro, he 4.18m: J75°, un, sm, he 4.18-4.68 m: Cs, 20 - 80 mm (x4)	C	89	7	
	4.78	LAMINITE: grey and brown, low strength with very low to low strength bands, moderately weathered, fractured, Bringelly Shale										PL(A) = 0.1
46	5							5.15m: J70°, pl, ro, cln 5.34 - 6.63 m: J60°, pl, ro, fe stn (x3)				
45	6											PL(A) = 0.2
												PL(A) = 0.1
									C	100	67	
44	7											PL(A) = 0.1
43	7.9	LAMINITE: grey and brown, high strength bands, moderately to slightly weathered, fractured, Bringelly Shale										PL(A) = 0.2 PL(A) = 2.6
	8											
	8.65	SANDSTONE: fine to medium grained, grey, high strength, slightly fractured, fresh stained, with 20-30% siltstone laminations, Bringelly Shale										
42	9								C	100	79	
41												

RIG: Hanjin D&B 8D **DRILLER:** Sytech **LOGGED:** JY **CASING:** 0-3.0m

TYPE OF BORING: 150mm diameter SFA to 30.0m then NMLC coring to 10.14m

WATER OBSERVATIONS: No free groundwater observed

REMARKS: Well construction details: Blank 0-5.6m, Screen 5.6-8.6m, Backfill: 5mm gravel 0-2.5m, Bentonite 2.5-3.0m, 5mm gravel 3.0-8.6m

SAMPLING & IN SITU TESTING LEGEND

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

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BOREHOLE LOG

CLIENT: Marsden Park Developments Pty Ltd
PROJECT: Proposed Industrial Development
LOCATION: Astoria Street, Marsden Park

SURFACE LEVEL: 50.9 mAHD
EASTING: 298447
NORTHING: 6266314
DIP/AZIMUTH: 90°/--

BORE No: 110
PROJECT No: 94616.00
DATE: 29/6/2020
SHEET 2 OF 2

RL	Depth (m)	Description of Strata	Degree of Weathering (EW, HW, MW, SW, FS, FR)	Graphic Log	Rock Strength (Ex Low, Very Low, Low, Medium, High, Very High, Ex High)	Water	Fracture Spacing (m) (0.01, 0.05, 0.10, 0.50, 1.00)	Discontinuities (B - Bedding, J - Joint, S - Shear, F - Fault)	Sampling & In Situ Testing: Type	Core Rec. %	RQD %	Test Results & Comments
	10.14	Bore discontinued at 10.14m							C	100	79	PL(A) = 2.08

RIG: Hanjin D&B 8D **DRILLER:** Sytech **LOGGED:** JY **CASING:** 0-3.0m

TYPE OF BORING: 150mm diameter SFA to 30.0m then NMLC coring to 10.14m

WATER OBSERVATIONS: No free groundwater observed

REMARKS: Well construction details: Blank 0-5.6m, Screen 5.6-8.6m, Backfill: 5mm gravel 0-2.5m, Bentonite 2.5-3.0m, 5mm gravel 3.0-8.6m

SAMPLING & IN SITU TESTING LEGEND

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

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BORE: BH110 PROJECT: 94616.00 July 2020

3.0m – 7.0m

BORE: BH110 PROJECT: 94616.00 July 2020

7.0m – 10.14m

BOREHOLE LOG

CLIENT: Marsden Park Developments Pty Ltd
PROJECT: Proposed Industrial Development
LOCATION: Astoria Street, Marsden Park

SURFACE LEVEL: 41.9 mAHD
EASTING: 298309
NORTHING: 6266894
DIP/AZIMUTH: 90°/--

BORE No: 157
PROJECT No: 94616.00
DATE: 2/7/2020
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Degree of Weathering (EW, HW, MW, SW, FS, FR)	Graphic Log	Rock Strength (Ex Low, Very Low, Low, Medium, High, Very High, Ex High)	Water	Fracture Spacing (m) (0.01, 0.05, 0.10, 0.50, 1.00)	Discontinuities (B - Bedding, J - Joint, S - Shear, F - Fault)	Sampling & In Situ Testing: Type	Core Rec. %	RQD %	Test Results & Comments
	0.1	FILL / TOPSOIL: Silty CLAY: brown, with rootlets throughout, trace sand and fine gravel,										
	0.3	FILL / Silty CLAY CH: grey-brown, trace sand and fine gravel, w < PL, appears well compacted							D			
41	1	Silty CLAY CH: medium to high plasticity, red-brown mottled grey, trace fine ironstone gravel, w < PL, stiff to very stiff, residual							S			4,5,7 N = 12
	1.8	LAMINITE: grey-brown, very low strength, moderately weathered, fractured, Bringelly Shale						Note: Unless stated otherwise all defects are bedding planes dipping 0-10°, pl, ro, cly vn or fe stn	D S			8/80B refusal
40	2											
	2.5	SANDSTONE: fine to medium grained, grey-brown, medium then high strength, moderately weathered, slightly fractured, 30% siltstone laminations, Bringelly Shale										PL(A) = 0.6
39	3											PL(A) = 1.2
	3.7	SANDSTONE: fine grained, grey and orange-brown, very high strength, moderately weathered and fresh stained, slightly fractured, Bringelly Shale						4.26m: J90°, pl, ro, cly vn, fe stn 4.32m: J45°, pl, ro, cly vn, fe stn 4.32-4.64m: J40-45°, pl, ro, cly vn, fe stn (x2)				PL(A) = 3.5
38	4								C	100	87	
37	5											
	5.0	SANDSTONE: fine to medium grained, grey, fresh stained, slightly fractured with 10% siltstone laminations, Bringelly Shale										PL(A) = 0.7
	5.5	Bore discontinued at 5.5m										
36	6											
35	7											
34	8											
33	9											
32												

RIG: XC **DRILLER:** Traccess **LOGGED:** JY **CASING:** 0-2.5m

TYPE OF BORING: 150mm diameter SFA to 2.5 m then NMLC Coring to 5.5 m

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

SAMPLING & IN SITU TESTING LEGEND

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

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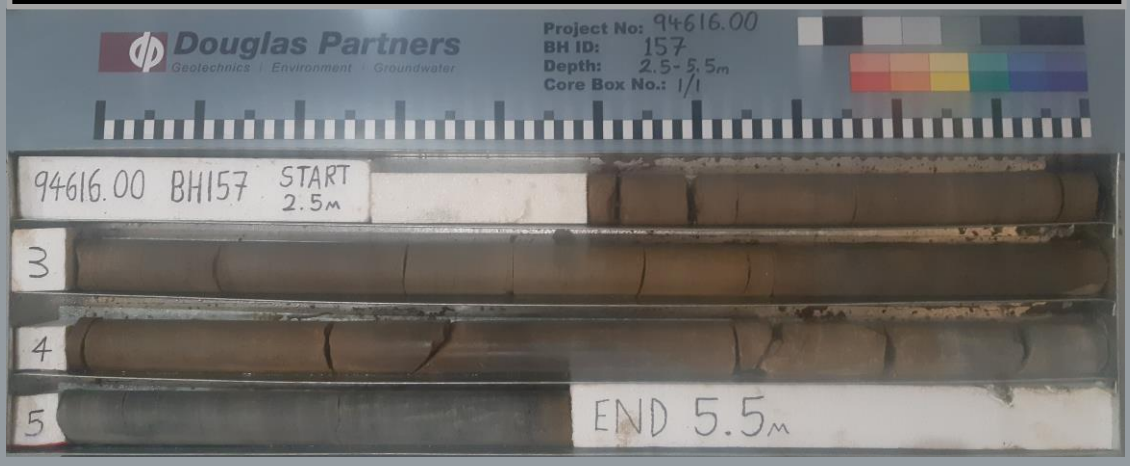
Geotechnics / Environment / Groundwater

BORE:BH157 PROJECT: 94616.00 July 2020



2.5m – 5.5m

BOREHOLE LOG

CLIENT: Marsden Park Developments Pty Ltd
PROJECT: Proposed Industrial Development
LOCATION: Astoria Street, Marsden Park

SURFACE LEVEL: 53.2 mAHD
EASTING: 298544
NORTHING: 6266300
DIP/AZIMUTH: 90°/--

BORE No: 111
PROJECT No: 94616.00
DATE: 30/6/2020
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing: Type	Depth	Sample	Results & Comments	Water	Well Construction Details
53	0.05	FILL/TOPSOIL: silty clay CH, brown with vegetation throughout							
		Silty CLAY CH: medium to high plasticity, brown mottled grey, w < PL, stiff, residual, surficial vegetation		D	0.4 0.5				
52	1.0	Silty CLAY CH: medium to high plasticity, pale grey mottled orange and brown, trace carbonaceous material and ironstone gravel, w < PL, very stiff, residual		S	1.0 1.45		5,8,10 N = 18		
51				D	1.9 2.0				
				S	2.5 2.95		6,11,17 N = 28		
50		- hard from 3.7m (extremely weathered siltstone)							
49	4.1 4.2	SILTSTONE: grey-brown, very low strength, moderately weathered, Bringelly Shale		S	4.0 4.21		20,20/60 refusal		
		Bore discontinued at 4.21m							
48									
47									
46									
45									
44									

RIG: Hanjin D&B 8D **DRILLER:** Sytech **LOGGED:** JY **CASING:** Uncased
TYPE OF BORING: 150mm diameter SFA
WATER OBSERVATIONS: No free groundwater observed
REMARKS:

SAMPLING & IN SITU TESTING LEGEND

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

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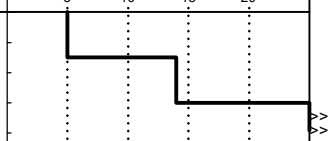
TEST PIT LOG

CLIENT: Marsden Park Developments Pty Ltd
PROJECT: Proposed Industrial Development
LOCATION: Astoria Street, Marsden Park

SURFACE LEVEL: 40.3 mAHD
EASTING: 298142
NORTHING: 6266946

PIT No: 112
PROJECT No: 94616.00
DATE: 30/6/2020
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing: Type	Depth	Sample	Results & Comments	Water	Dynamic Penetrometer Test (blows per 150mm)
	0.1	FILL / TOPSOIL : gravelly clay CL, brown, with rootlets throughout		D	0.1				
40		FILL / Gravelly CLAY CL: low to medium plasticity, dark-brown, trace cobbles (gravel is igneous and siltstone), w < PL, appears well compacted							
	0.45	Silty CLAY CH: medium to high plasticity, red-brown, trace ironstone gravel, very stiff to hard, w < PL, residual		B	0.5				
				D	0.6				
	1								1
39				D	1.2				
					1.5		pp >400		
	2			D	2.0		pp >400		2
38									
					2.5		pp = 400		
	3			D	3.0				3
	3.0	SILTSTONE: grey, very low to low strength, highly weathered, with clay bands, Bringelly Shale							
	3.2	Pit discontinued at 3.2m							
37									
	4								4
36									



RIG: 14 tonne excavator - 600mm bucket
LOGGED: RB
SURVEY DATUM: MGA94

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

☐ Sand Penetrometer AS1289.6.3.3
☒ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND

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

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TEST PIT LOG

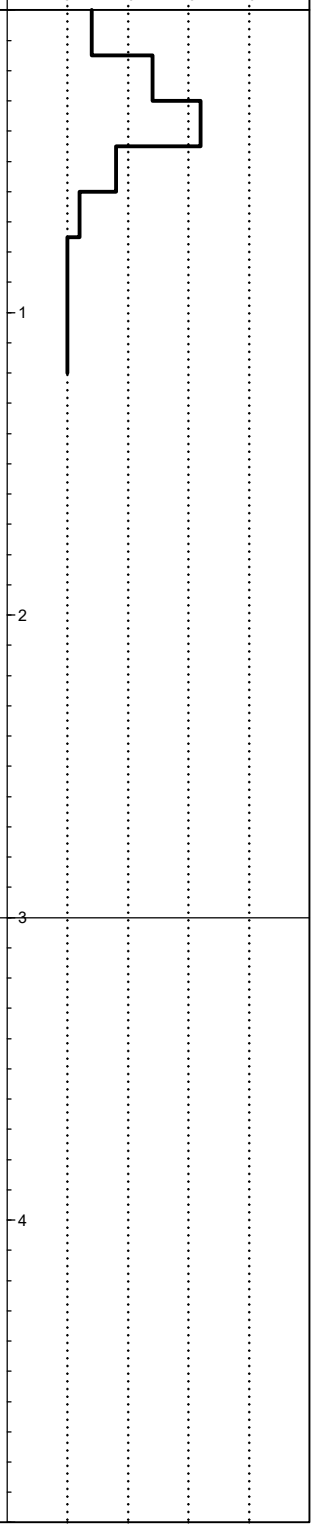
CLIENT: Marsden Park Developments Pty Ltd
PROJECT: Proposed Industrial Development
LOCATION: Astoria Street, Marsden Park

SURFACE LEVEL: 41.5 mAHD
EASTING: 298219
NORTHING: 6266939

PIT No: 113
PROJECT No: 94616.00
DATE: 30/6/2020
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing: Type	Depth	Sample	Results & Comments	Water
	0.15	FILL / TOPSOIL: Gravelly clay CL, low to medium plasticity, grey, gravel is ripped siltstone, trace sand, with rootlets throughout		D	0.1			
41		Silty CLAY CH: medium to high plasticity, brown and grey, with ironstone gravel, w < PL, stiff to very stiff, residual (possibly disturbed to 0.4m)		D	0.5			
	1			D	1.0			
40				D	1.5		pp = 250	
		1.4m: with ironstone bands,						
	2			D	2.0		pp = 300	
39					2.5			
	2.8	SILTSTONE: grey brown, very low to low strength, with clay bands, Bringelly Shale		D	2.9			
	3 3.0	Pit discontinued at 3.0m						
38								
	4							
37								

Dynamic Penetrometer Test (blows per 150mm)



RIG: 14 tonne excavator - 600mm bucket

LOGGED: RB

SURVEY DATUM: MGA94

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

☐ Sand Penetrometer AS1289.6.3.3
☒ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND

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

Douglas Partners
Geotechnics / Environment / Groundwater

TEST PIT LOG

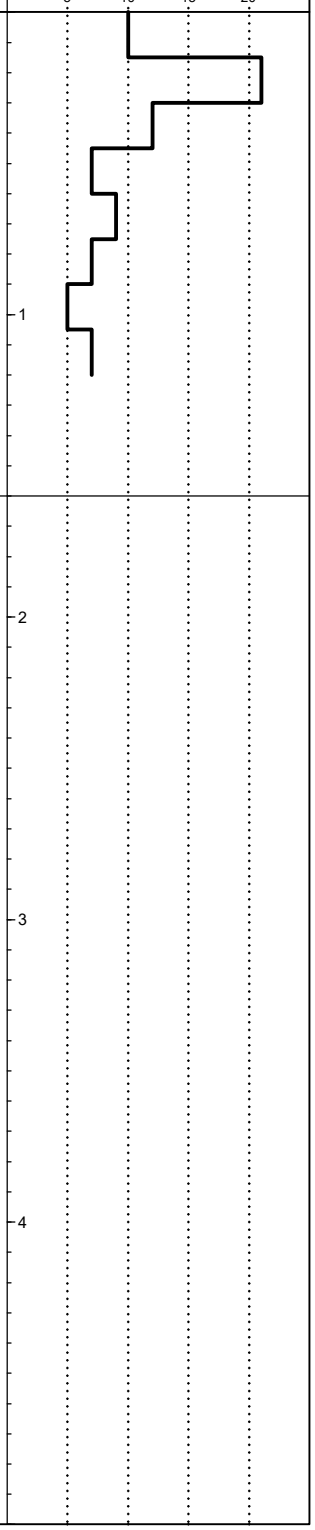
CLIENT: Marsden Park Developments Pty Ltd
PROJECT: Proposed Industrial Development
LOCATION: Astoria Street, Marsden Park

SURFACE LEVEL: 42.9 mAHD
EASTING: 298350
NORTHING: 6266921

PIT No: 114
PROJECT No: 94616.00
DATE: 30/6/2020
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing: Type	Depth	Sample	Results & Comments	Water
	0.1	FILL / TOPSOIL : gravelly clay CL, brown, with rootlets throughout		D	0.1			
	0.3	FILL / Gravelly CLAY CH: medium to high plasticity, dark-brown, with cobbles (gravel and cobbles are siltstone of medium and high strength), w < PL, appears well compacted						
		Silty CLAY CH: medium to high plasticity, orange brown, trace ironstone gravel, w < PL, stiff to very stiff, residual (possible disturbed to 0.5m)		D	0.5			
42	1	0.9m: grading to grey mottled red-brown		D	1.0		pp = 250	
		1.4m: hard (possibly extremely weathered sandstone)		D	1.4			
	1.5	SANDSTONE: fine grained, grey and brown, very low to low strength, highly weathered, Bringelly Shale			1.5			
	1.6	Pit discontinued at 1.6m Practical refusal on at least low strength sandstone						
41	2							
40	3							
39	4							
38								

Dynamic Penetrometer Test (blows per 150mm)



RIG: 14 tonne excavator - 600mm bucket

LOGGED: RB

SURVEY DATUM: MGA94

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

☐ Sand Penetrometer AS1289.6.3.3
☒ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND

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

Douglas Partners
Geotechnics / Environment / Groundwater

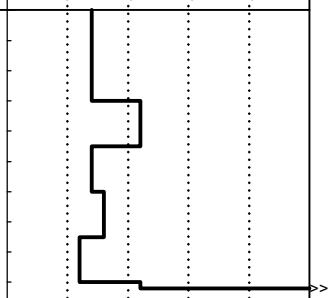
TEST PIT LOG

CLIENT: Marsden Park Developments Pty Ltd
PROJECT: Proposed Industrial Development
LOCATION: Astoria Street, Marsden Park

SURFACE LEVEL: 45.8 mAHD
EASTING: 298490
NORTHING: 6266896

PIT No: 115
PROJECT No: 94616.00
DATE: 30/6/2020
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing: Type	Depth	Sample	Results & Comments	Water	Dynamic Penetrometer Test (blows per 150mm)
	0.1	FILL/ROADBASE: 20 mm, fine to medium, grey, igneous		D	0.0				
		FILL / Silty CLAY CH: low to medium plasticity, brown, trace gravel, (igneous and siltstone) w < PL, appears well compacted		D	0.1 0.4				
	0.5	FILL / Gravelly CLAY CH: medium to high plasticity, red-brown, gravel (siltstone), w,PL, appears well compacted		D D	0.6 0.7				
45	1	1.1m: gravel band (150mm)		D	1.0				1
				D	1.5				
44	1.9	Silty CLAY CH: medium to high plasticity, red-brown, trace ironstone gravel, w < PL, very stiff, residual		D	2.0		pp = 350		2
	2.1	Pit discontinued at 2.1m							
43	3								3
42	4								4
41									



RIG: 14 tonne excavator - 600mm bucket
LOGGED: RB
SURVEY DATUM: MGA94

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

☐ Sand Penetrometer AS1289.6.3.3
☒ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND

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

Douglas Partners
Geotechnics / Environment / Groundwater

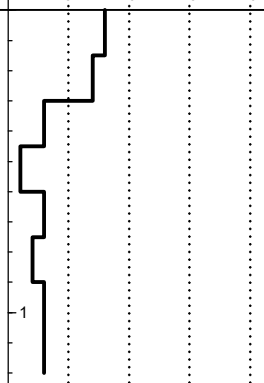
TEST PIT LOG

CLIENT: Marsden Park Developments Pty Ltd
PROJECT: Proposed Industrial Development
LOCATION: Astoria Street, Marsden Park

SURFACE LEVEL: 46.1 mAHD
EASTING: 298435
NORTHING: 6266864

PIT No: 116
PROJECT No: 94616.00
DATE: 30/6/2020
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing: Type	Depth	Sample	Results & Comments	Water	Dynamic Penetrometer Test (blows per 150mm)
46	0.15	FILL / TOPSOIL: gravelly clay CL, medium plasticity, dark-brown, with gravel and rootlets throughout, w < PL		D	0.1				
		FILL /CLAY CH: medium to high plasticity, dark-brown, trace rootlets, with siltstone gravel, w ~ PL, poorly compacted			0.4				
				B	0.5				
				D	0.6				
45	1			D	1.0				1
				D	1.5				
44	2	1.9m: brown, w < PL, appears well compacted below 1.9 m		D	2.0				2
				D	2.5				
		2.9m: metal fragments							
43	3 3.0	Pit discontinued at 3.0m		D	3.0				3
42	4								4



RIG: 14 tonne excavator - 600mm bucket

LOGGED: RB

SURVEY DATUM: MGA94

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

☐ Sand Penetrometer AS1289.6.3.3
☒ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND

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

Douglas Partners
Geotechnics / Environment / Groundwater

TEST PIT LOG

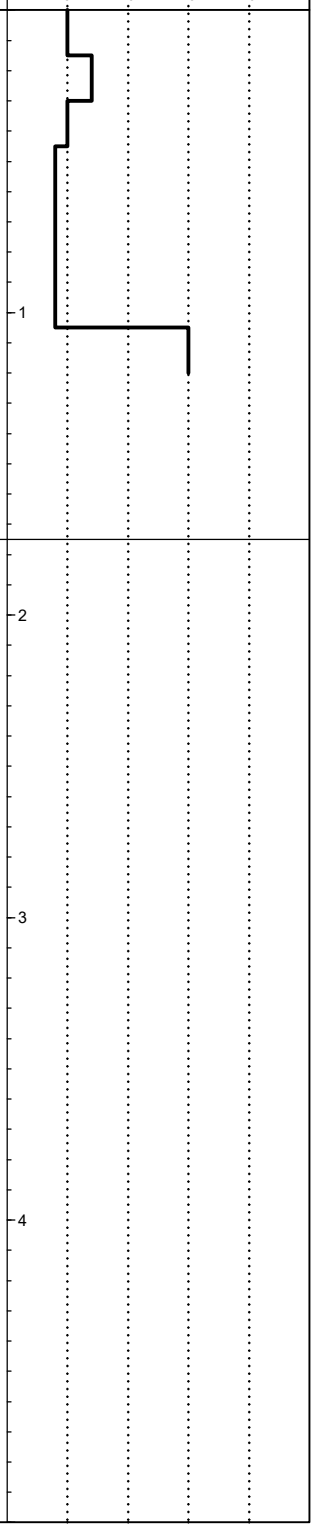
CLIENT: Marsden Park Developments Pty Ltd
PROJECT: Proposed Industrial Development
LOCATION: Astoria Street, Marsden Park

SURFACE LEVEL: 42.5 mAHD
EASTING: 298347
NORTHING: 6266885

PIT No: 117
PROJECT No: 94616.00
DATE: 30/6/2020
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing: Type	Depth	Sample	Results & Comments	Water
	0.15	FILL / TOPSOIL: silty clay CH, medium to high plasticity, dark-brown, with siltstone/sandstone gravel, trace cobbles, with rootlets throughout		D	0.1			
42		Silty CLAY CH: medium to high plasticity, red-brown and grey, with ironstone gravel, with tree roots to 0.6m depth, w < PL, stiff, residual		D	0.5			
	1 1.0	Silty CLAY CH: medium to high plasticity, red-brown mottled grey, with ironstone gravel, w < PL, very stiff, residual		D	1.0			
41				D	1.5		pp = 300	
	1.65	SANDSTONE: fine to medium grained, grey-brown, very low to low strength, highly weathered, Bringelly Shale		D	1.7			
	1.75	Pit discontinued at 1.75m Practical refusal on at least low strength sandstone						
	2							
40								
	3							
39								
	4							
38								

Dynamic Penetrometer Test (blows per 150mm)



RIG: 14 tonne excavator - 600mm bucket

LOGGED: RB

SURVEY DATUM: MGA94

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

☐ Sand Penetrometer AS1289.6.3.3
☒ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND

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

Douglas Partners
Geotechnics / Environment / Groundwater

TEST PIT LOG

CLIENT: Marsden Park Developments Pty Ltd
PROJECT: Proposed Industrial Development
LOCATION: Astoria Street, Marsden Park

SURFACE LEVEL: 41.3 mAHD
EASTING: 298271
NORTHING: 6266894

PIT No: 118
PROJECT No: 94616.00
DATE: 30/6/2020
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing: Type	Depth	Sample	Results & Comments	Water	Dynamic Penetrometer Test (blows per 150mm)
	0.1	FILL / TOPSOIL: silty clay CH, medium to high plasticity, dark-brown, with siltstone gravel and rootlets throughout		D	0.05				
41		Silty CLAY CH: medium to high plasticity, red-brown and grey, with ironstone gravel, w < PL, stiff to very stiff, residual (possibly disturbed to 0.4m)		D	0.5				
	1			D	1.0				1
40					1.5		pp = 300		
	1.7				1.7				
	1.8	SILTSTONE: grey, very low to low strength, highly weathered, Bringelly Shale		D	1.8				
		Pit discontinued at 1.8m Practical refusal on at least low strength siltstone							
	2								2
39									
	3								3
38									
	4								4
37									

Dynamic Penetrometer Test (blows per 150mm): 5, 10, 15, 20

RIG: 14 tonne excavator - 600mm bucket

LOGGED: RB

SURVEY DATUM: MGA94

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

☐ Sand Penetrometer AS1289.6.3.3
☒ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND

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

Douglas Partners
Geotechnics / Environment / Groundwater

TEST PIT LOG

CLIENT: Marsden Park Developments Pty Ltd
PROJECT: Proposed Industrial Development
LOCATION: Astoria Street, Marsden Park

SURFACE LEVEL: 39.6 mAHD
EASTING: 298134
NORTHING: 6266885

PIT No: 119
PROJECT No: 94616.00
DATE: 30/6/2020
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing: Type	Depth	Sample	Results & Comments	Water	Dynamic Penetrometer Test (blows per 150mm)
		FILL / TOPSOIL: silty clay CH, low to medium plasticity, brown, trace sand and gravel, with rootlets throughout		D	0.1				
	0.2	FILL / Gravelly CLAY CH: low to medium plasticity, grey, trace cobbles (gravel and cobbles are silstone estimated to be of low and medium strength), w < PL, appears well compacted (ripped shale)		B	0.3				
				D	0.4				
				B	0.6				
39	0.95	Silty CLAY CH: medium to high plasticity, red-brown, with ironstone gravel, w < PL, stiff to very stiff, residual (possibly disturbed to 1.2m)		D	1.1				
	1								1
38				D	1.5				
	2	2.0m: grey with red-brown, hard (possiblyt extremely weathered siltstone)		D	2.0		pp = 400		2
37					2.5		pp >400		
	2.8	SILTSTONE: grey, very low to low strength, highly weathered, with clay bands, Bringelly Shale		D	2.8				
	2.9	Pit discontinued at 2.9m Practical refusal on at least low strength siltstone			2.9				
	3								3
36									
	4								4
35									

RIG: 14 tonne excavator - 600mm bucket

LOGGED: RB

SURVEY DATUM: MGA94

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

☐ Sand Penetrometer AS1289.6.3.3
☒ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND

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

Douglas Partners
Geotechnics / Environment / Groundwater

TEST PIT LOG

CLIENT: Marsden Park Developments Pty Ltd
PROJECT: Proposed Industrial Development
LOCATION: Astoria Street, Marsden Park

SURFACE LEVEL: 41.5 mAHD
EASTING: 298204
NORTHING: 6266866

PIT No: 120
PROJECT No: 94616.00
DATE: 30/6/2020
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing: Type	Depth	Sample	Results & Comments	Water
	0.15	FILL / TOPSOIL: silty clay CH, low to medium plasticity, brown, trace sand and gravel, with rootlets throughout		D	0.1			
		FILL / Silty CLAY CH: medium to high plasticity, dark-brown, with gravel and trace rootlets, w >PL, poorly compacted			0.4			
41				B	0.5			
				D	0.6			
	0.9	FILL / Gravelly CLAY: low to medium plasticity, grey, with cobbles and boulders (gravel, cobbles and boulders are siltstone estimated to be of medium or high strength), w < PL, variably compacted (ripped shale)		D	1.0			
40	1.5	Silty CLAY CH: medium to high plasticity, red-brown and grey, with ironstone gravel, w < PL, very stiff to hard, residual		D	1.6			
	2				2.0		pp = 250	
39		2.5m: with ironstone bands		D	2.5		pp = 350	
	3			D	3.0			
	3.3	Pit discontinued at 3.3m						
38								
	4							
37								

Dynamic Penetrometer Test (blows per 150mm): 5, 10, 15, 20; 1, 2, 3, 4

RIG: 14 tonne excavator - 600mm bucket
LOGGED: RB
SURVEY DATUM: MGA94

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

☐ Sand Penetrometer AS1289.6.3.3
☒ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND

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

Douglas Partners
Geotechnics / Environment / Groundwater

TEST PIT LOG

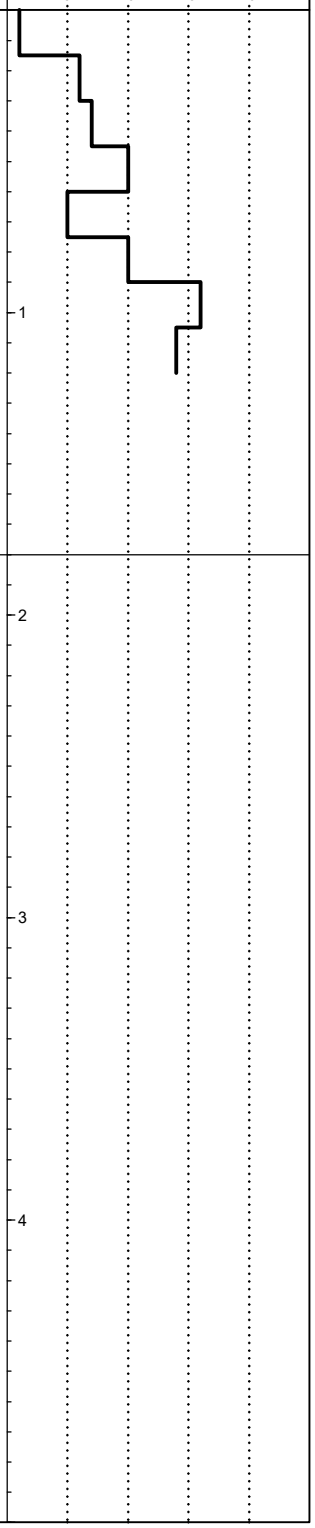
CLIENT: Marsden Park Developments Pty Ltd
PROJECT: Proposed Industrial Development
LOCATION: Astoria Street, Marsden Park

SURFACE LEVEL: 41.8 mAHD
EASTING: 298342
NORTHING: 6266848

PIT No: 121
PROJECT No: 94616.00
DATE: 30/6/2020
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing: Type	Depth	Sample	Results & Comments	Water
	0.1	FILL / TOPSOIL: silty clay CH, low to medium plasticity, brown, trace gravel, with rootlets throughout		D	0.1			
		FILL / Silty CLAY CH: medium to high plasticity, brown to dark-brown, with gravel, cobbles and boulders (siltstone estimated to be of medium or high strength), w < PL, variably compacted (ripped shale)		D	0.5			
	0.7	Silty CLAY CH: medium to high plasticity, red-brown and grey, trace ironstone gravel and rootlets, w < PL, very stiff to hard (possibly disturbed to 0.9m)		D	1.0			
					1.2			
				D D	1.5		pp = 250	
	1.7	SANDSTONE: fine grained, grey brown, very low to low strength, highly weathered, Bringelly Shale			1.8			
	1.8	Pit discontinued at 1.8m Practical refusal on at least low strength sandstone						

Dynamic Penetrometer Test (blows per 150mm)



RL: 41, 40, 39, 38, 37

RIG: 14 tonne excavator - 600mm bucket

LOGGED: RB

SURVEY DATUM: MGA94

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

☐ Sand Penetrometer AS1289.6.3.3
☒ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND

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

Douglas Partners
Geotechnics / Environment / Groundwater

TEST PIT LOG

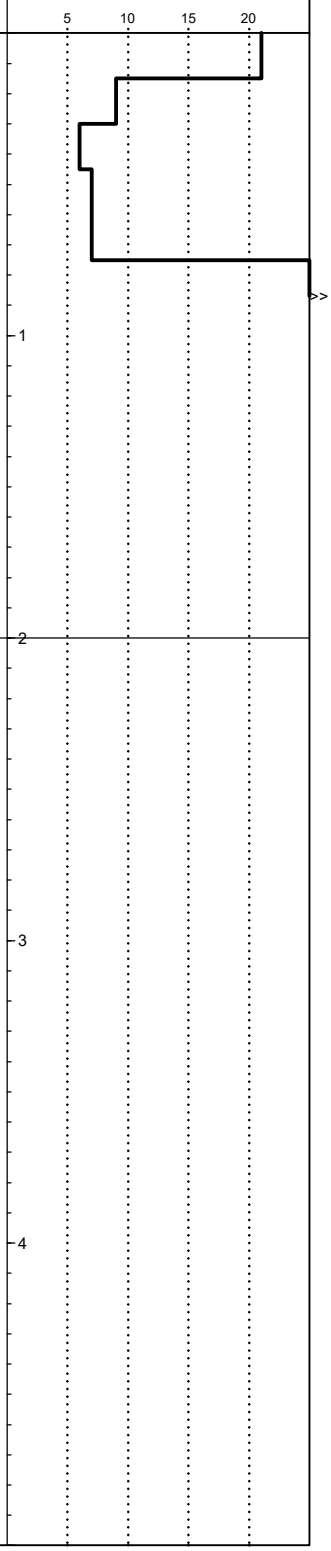
CLIENT: Marsden Park Developments Pty Ltd
PROJECT: Proposed Industrial Development
LOCATION: Astoria Street, Marsden Park

SURFACE LEVEL: 45.6 mAHD
EASTING: 298480
NORTHING: 6266835

PIT No: 122
PROJECT No: 94616.00
DATE: 30/6/2020
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing: Type	Depth	Sample	Results & Comments	Water
		FILL / TOPSOIL: silty clay CH, low to medium plasticity, brown, trace sand and gravel, with rootlets throughout		D	0.1			
	0.2	FILL / Gravelly CLAY CH: medium plasticity, dark-brown, with cobbles (siltstone estimated to be medium strength), w < PL, appears well compacted		B	0.4			
				D	0.5			
45								
	1			D	1.0			
				D	1.5			
44								
				D	1.9			
	2 2.0	Pit discontinued at 2.0m Practical refusal. Very slow progress in fill			2.0			
43								
	3							
42								
	4							
41								

Dynamic Penetrometer Test (blows per 150mm)



RIG: 14 tonne excavator - 600mm bucket

LOGGED: RB

SURVEY DATUM: MGA94

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

☐ Sand Penetrometer AS1289.6.3.3
☒ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND

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

Douglas Partners
Geotechnics / Environment / Groundwater

TEST PIT LOG

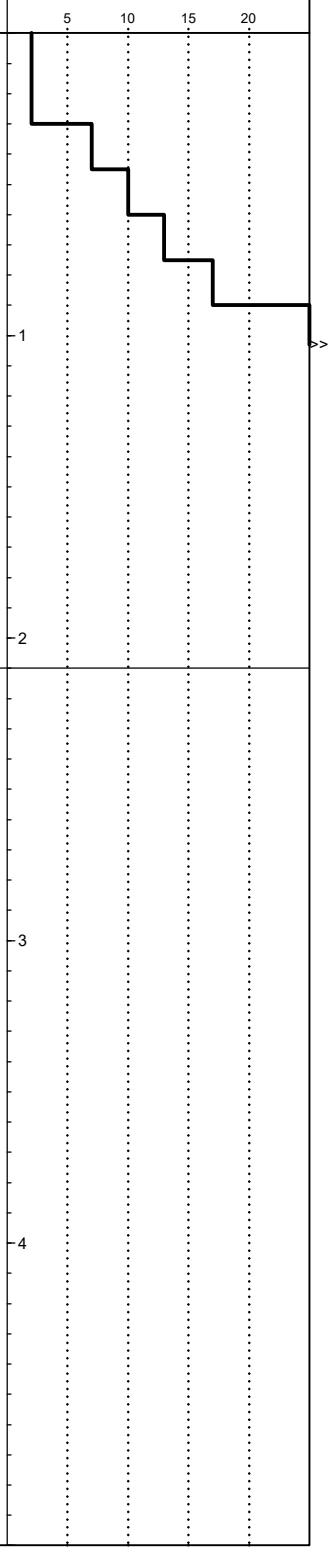
CLIENT: Marsden Park Developments Pty Ltd
PROJECT: Proposed Industrial Development
LOCATION: Astoria Street, Marsden Park

SURFACE LEVEL: 43.1 mAHD
EASTING: 298450
NORTHING: 6266807

PIT No: 123
PROJECT No: 94616.00
DATE: 30/6/2020
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing: Type	Depth	Sample	Results & Comments	Water
43		FILL / TOPSOIL: silty clay CH, low to medium plasticity, brown, trace gravel and cobbles, with rootlets throughout		D	0.1			
	0.25	FILL / Gravelly CLAY CH: medium plasticity, dark-brown, with cobbles (siltstone estimated to be of medium strength), w < PL, appears well compacted (ripped shale)		D	0.4			
	1			D	1.0			
42	1.1	FILL / Gravelly CLAY CH: medium to high plasticity, dark brown, with gravel (siltstone and river gravel), w < PL, appears well compacted (mixture of ripped shale and river gravel)		D	1.4			
	1.6	Silty CLAY CH: medium to high plasticity, brown and grey, with ironstone gravel, w < PL, hard, residual		D	1.9		pp >400	
	2							
41	2.1	Pit discontinued at 2.1m						
	3							
40								
	4							
39								

Dynamic Penetrometer Test (blows per 150mm)



RIG: 14 tonne excavator - 600mm bucket

LOGGED: RB

SURVEY DATUM: MGA94

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

☐ Sand Penetrometer AS1289.6.3.3
☒ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND

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

Douglas Partners
Geotechnics / Environment / Groundwater

TEST PIT LOG

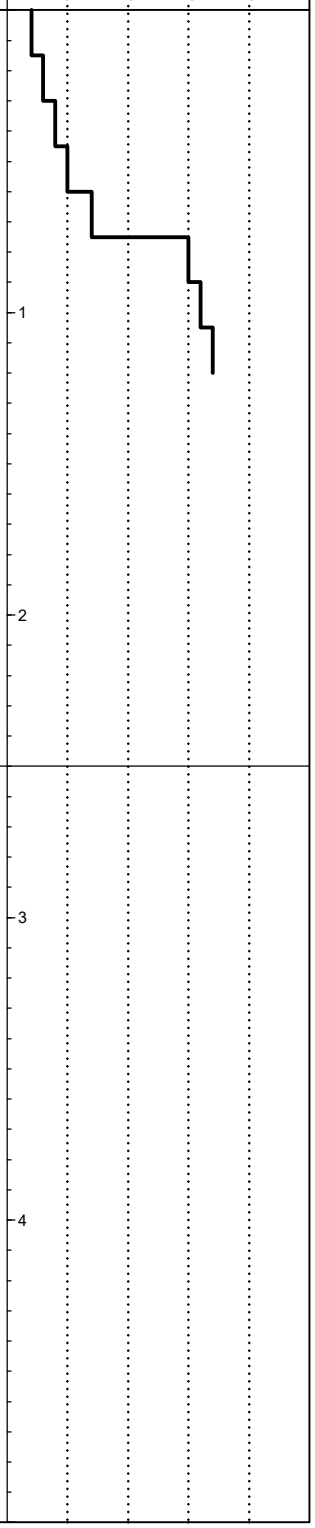
CLIENT: Marsden Park Developments Pty Ltd
PROJECT: Proposed Industrial Development
LOCATION: Astoria Street, Marsden Park

SURFACE LEVEL: 43.1 mAHD
EASTING: 298334
NORTHING: 6266796

PIT No: 124
PROJECT No: 94616.00
DATE: 26/6/2020
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing: Type	Depth	Sample	Results & Comments	Water
43	0.15	FILL / Topsoil: silty clay CH, medium to high plasticity, red-brown and dark brown, with rootlets and gravel		D	0.05 0.1			
		FILL / Silty CLAY CH: medium to high plasticity, brown and grey, with gravel (siltstone), w<PL, variably compacted		D	0.4 0.5			
	0.6	FILL / Gravelly CLAY CL: medium plasticity, grey, trace siltstone cobbles and boulders , w < PL, appears well compacted (ripped shale)		D	0.9 1.0			
42	1							
41	2							
	2.5	- siltstone boulders (estimated to be high or very high strength) up to 0.5 m diameter at 2.4m						
		Pit discontinued at 2.5m = Practical Refusal. Very slow progress in fill						
40	3							
39	4							

Dynamic Penetrometer Test (blows per 150mm)



RIG: 8 tonne excavator - 600mm bucket

LOGGED: RB

SURVEY DATUM: MGA94

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

☐ Sand Penetrometer AS1289.6.3.3
☒ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND

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

Douglas Partners
Geotechnics / Environment / Groundwater

TEST PIT LOG

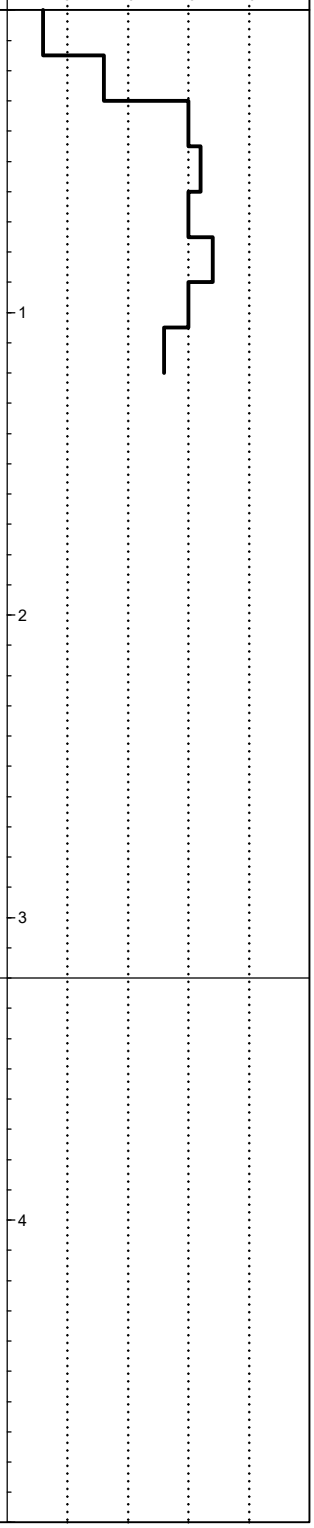
CLIENT: Marsden Park Developments Pty Ltd
PROJECT: Proposed Industrial Development
LOCATION: Astoria Street, Marsden Park

SURFACE LEVEL: 41.9 mAHD
EASTING: 298231
NORTHING: 6266796

PIT No: 125
PROJECT No: 94616.00
DATE: 29/6/2020
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing: Type	Depth	Sample	Results & Comments	Water
		FILL / TOPSOIL: silty clay CH, low to medium plasticity, brown, trace sand and gravel, with rootlets throughout		D	0.0–0.1			
	0.2	FILL / Gravelly CLAY CH: low to medium plasticity, grey, with cobbles and trace boulders (gravel, cobbles and boulders are siltstone estimated to be of medium and high strength), w < PL, appears well compacted (ripped shale and sandstone)		D	0.3–0.4			
41	1			D	1.0–1.2			
40	2			D	2.0–2.1			
39	3							
	3.1	Silty CLAY CH: medium to high plasticity, grey and red-brown, ironstone gravel, w < PL, very stiff, residual		D	3.1–3.2		pp = 300	
	3.2	Pit discontinued at 3.2m						
38	4							
37								

Dynamic Penetrometer Test (blows per 150mm)



RIG: 14 tonne excavator - 600mm bucket

LOGGED: RB

SURVEY DATUM: MGA94

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

☐ Sand Penetrometer AS1289.6.3.3
☒ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND

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

Douglas Partners
Geotechnics / Environment / Groundwater

TEST PIT LOG

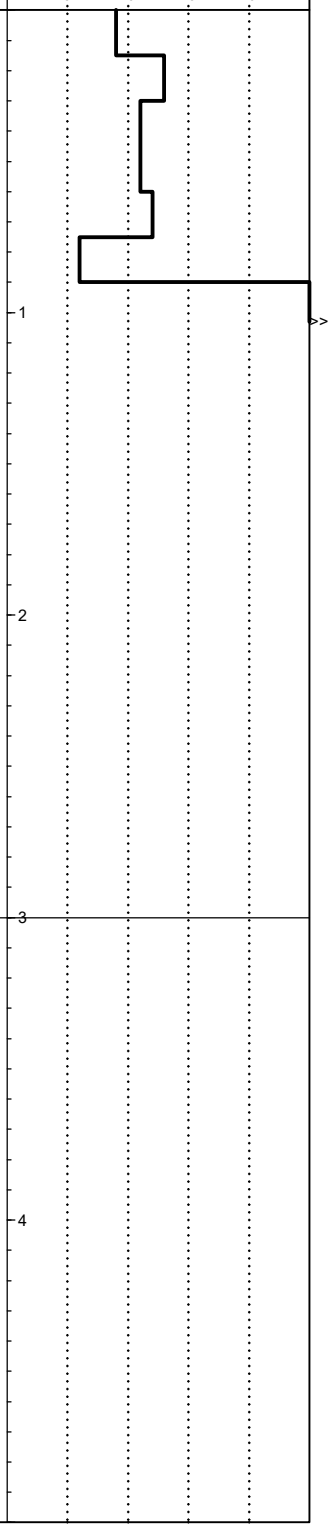
CLIENT: Marsden Park Developments Pty Ltd
PROJECT: Proposed Industrial Development
LOCATION: Astoria Street, Marsden Park

SURFACE LEVEL: 41.4 mAHD
EASTING: 298199
NORTHING: 6266811

PIT No: 126
PROJECT No: 94616.00
DATE: 29/6/2020
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing: Type	Depth	Sample	Results & Comments	Water
	0.15	FILL / TOPSOIL: silty clay CH, low to medium plasticity, brown, trace sand and gravel, with rootlets throughout		D	0.1			
41		FILL / Gravelly CLAY CH: low to medium plasticity, grey, with cobbles and trace boulders (gravel, cobbles and boulders are siltstone and sandstone estimated to be of medium and high strength), w < PL, appears well compacted (ripped shale and sandstone)		D	0.5			
	2.3	Silty CLAY CH: medium to high plasticity, grey and red-brown, trace ironstone gravel, w < PL, stiff to very stiff, residual		D	2.5		pp = 200	
				D	2.9			
	3.0	Pit discontinued at 3.0m			3.0		pp = 300	

Dynamic Penetrometer Test (blows per 150mm)



RIG: 14 tonne excavator - 600mm bucket

LOGGED: RB

SURVEY DATUM: MGA94

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

☐ Sand Penetrometer AS1289.6.3.3
☒ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND

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

Douglas Partners
Geotechnics / Environment / Groundwater

TEST PIT LOG

CLIENT: Marsden Park Developments Pty Ltd
PROJECT: Proposed Industrial Development
LOCATION: Astoria Street, Marsden Park

SURFACE LEVEL: 39.1 mAHD
EASTING: 298125
NORTHING: 6266805

PIT No: 127
PROJECT No: 94616.00
DATE: 29/6/2020
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing: Type	Depth	Sample	Results & Comments	Water	Dynamic Penetrometer Test (blows per 150mm)
39	0.15	FILL / TOPSOIL: silty clay CH, low to medium plasticity, brown, trace sand and gravel, with rootlets throughout		D	0.1				
		FILL / Silty CLAY CH: medium plasticity, brown, trace sand, gravel, cobbles and boulders (gravel, cobbles and boulders are siltstone estimated to be medium or high strength), w < PL, poorly compacted (ripped shale)		D	0.5				
38	1.2	FILL / Sandy GRAVEL GC: fine to coarse, grey, with clay, cobbles and boulders (gravel, cobbles and boulders are a mixture of sub-rounded river gravel and silstone estimated to be of medium and high strength), wet, variably compacted (a mixture of river gravels and ripped shale)		D	1.5				
37	1.7	Silty CLAY CH: medium to high plasticity, grey and red-brown, ironstone gravel, w < PL, stiff to very stiff, residual		D	1.9				
					2.0		pp = 250		
					2.5		pp = 200		
36	2.9	SILTSTONE: grey brown, very low to low strength, highly weathered, Bringelly Shale		D	3.0				
	3.0	Pit discontinued at 3.0m							
35									

Dynamic Penetrometer Test (blows per 150mm): 5, 10, 15, 20

RIG: 14 tonne excavator - 600mm bucket

LOGGED: RB

SURVEY DATUM: MGA94

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

☐ Sand Penetrometer AS1289.6.3.3
☒ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND

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

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TEST PIT LOG

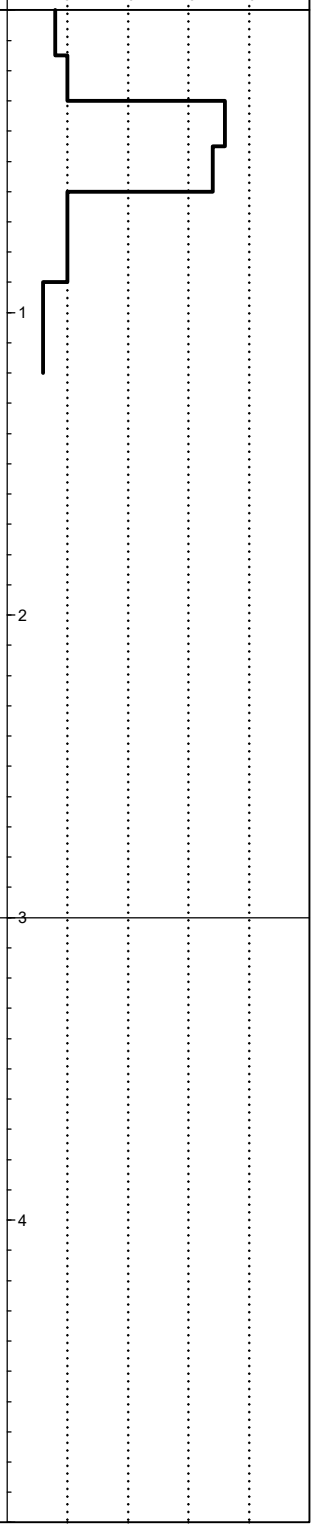
CLIENT: Marsden Park Developments Pty Ltd
PROJECT: Proposed Industrial Development
LOCATION: Astoria Street, Marsden Park

SURFACE LEVEL: 38.8 mAHD
EASTING: 298116
NORTHING: 6266750

PIT No: 128
PROJECT No: 94616.00
DATE: 29/6/2020
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing: Type	Depth	Sample	Results & Comments	Water
	0.15	FILL / TOPSOIL: silty clay CH, low to medium plasticity, brown, trace gravel and glass fragments, with rootlets throughout		D	0.1			
		FILL / Gravelly CLAY CH: medium to high plasticity, dark brown, trace cobbles (gravel and cobbles are siltstone estimated to be of medium and high strength), w < PL, appears well compacted (ripped shale)		D	0.5			
	0.6	Silty CLAY CH: medium to high plasticity, grey and red-brown, with ironstone gravel, w < PL, firm to stiff, residual						
38	1			D	1.0			
	1.5	Silty CLAY CH: medium to high plasticity, grey and red-brown, with ironstone gravel, w < PL, stiff to very stiff, residual		D	1.5		pp = 200	
37	2				2.0		pp = 200	
				D	2.5		pp = 250	
36	3							
	3.0	Pit discontinued at 3.0m		D	3.0			
35	4							
34								

Dynamic Penetrometer Test (blows per 150mm)



RIG: 14 tonne excavator - 600mm bucket

LOGGED: RB

SURVEY DATUM: MGA94

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

☐ Sand Penetrometer AS1289.6.3.3
☒ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND

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

Douglas Partners
Geotechnics / Environment / Groundwater

TEST PIT LOG

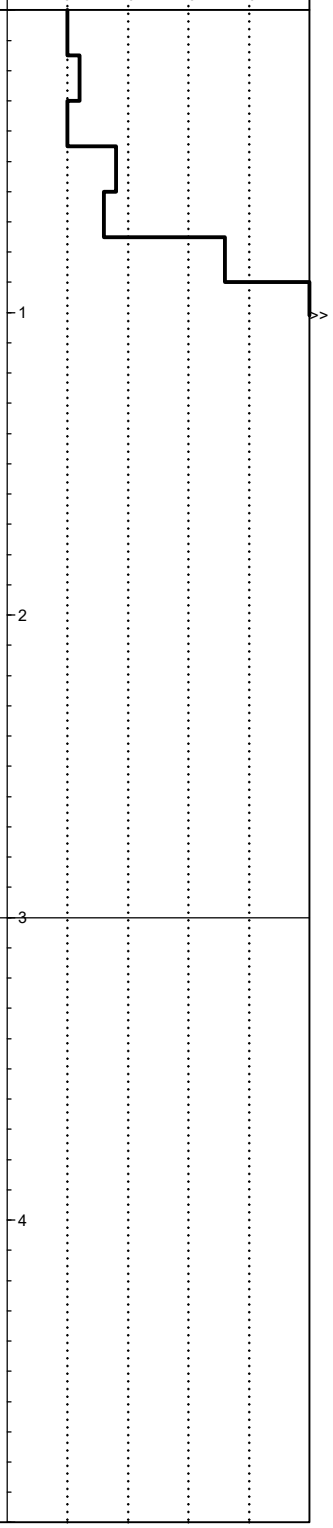
CLIENT: Marsden Park Developments Pty Ltd
PROJECT: Proposed Industrial Development
LOCATION: Astoria Street, Marsden Park

SURFACE LEVEL: 42.3 mAHD
EASTING: 298200
NORTHING: 6266748

PIT No: 129
PROJECT No: 94616.00
DATE: 29/6/2020
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing: Type	Depth	Sample	Results & Comments	Water
	0.15	FILL / TOPSOIL: silty clay CH, low to medium plasticity, brown, trace gravel and cobbles with rootlets throughout		D	0.1			
42		FILL / Gravelly CLAY CH: medium to high plasticity, dark brown, trace cobbles (gravel and cobbles are siltstone and sandstone estimated to be of medium and high strength), w < PL, appears well compacted (ripped shale)		D	0.5			
	1			D	1.0			
41				D	1.5			
	2			D	2.0			
40								
	3							
	3.0	Pit discontinued at 3.0m						
39								
	4							
38								

Dynamic Penetrometer Test (blows per 150mm)



RIG: 14 tonne excavator - 600mm bucket

LOGGED: RB

SURVEY DATUM: MGA94

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

☐ Sand Penetrometer AS1289.6.3.3
☒ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND

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

Douglas Partners
Geotechnics / Environment / Groundwater

TEST PIT LOG

CLIENT: Marsden Park Developments Pty Ltd
PROJECT: Proposed Industrial Development
LOCATION: Astoria Street, Marsden Park

SURFACE LEVEL: 43.6 mAHD
EASTING: 298278
NORTHING: 6266741

PIT No: 130
PROJECT No: 94616.00
DATE: 26/6/2020
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing: Type	Depth	Sample	Results & Comments	Water	Dynamic Penetrometer Test (blows per 150mm)
	0.05	FILL / TOPSOIL: silty clay CH, low plasticity, brown, trace fine gravel, with vegetation throughout							
		FILL / Gravelly CLAY CL: low plasticity, grey, trace cobbles and boulders up to 400mm diameter (siltstone and sandstone estimated to be up to very high strength), w < PL, appears well compacted (ripped shale and sandstone)		D	0.1 0.2				
				D	0.4 0.5				
43	1								1
				D	1.4 1.5				
42	2								2
41									
	2.8	Pit discontinued at 2.8m = Practical Refusal. Very slow progress in fill							
	3								3
40									
	4								4
39									

Dynamic Penetrometer Test (blows per 150mm): 5, 10, 15, 20

RIG: 8 tonne excavator - 600mm bucket

LOGGED: RB

SURVEY DATUM: MGA94

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

☐ Sand Penetrometer AS1289.6.3.3
☒ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND

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

Douglas Partners
Geotechnics / Environment / Groundwater

TEST PIT LOG

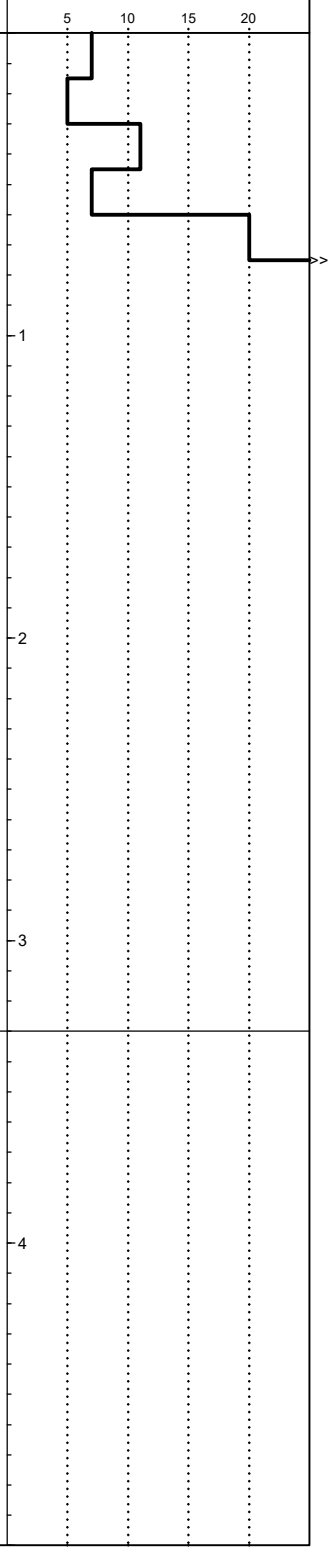
CLIENT: Marsden Park Developments Pty Ltd
PROJECT: Proposed Industrial Development
LOCATION: Astoria Street, Marsden Park

SURFACE LEVEL: 43.7 mAHD
EASTING: 298329
NORTHING: 6266750

PIT No: 131
PROJECT No: 94616.00
DATE: 29/6/2020
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing: Type	Depth	Sample	Results & Comments	Water
		FILL / TOPSOIL: silty clay CH, low plasticity, brown, trace fine gravel, with rootlets throughout, w < PL		D	0.1			
	0.2	FILL / Gravelly CLAY CL: low to medium plasticity, grey, with cobbles and trace boulders (gravel, cobbles and boulders are siltstone estimated to be high or very high strength), w < PL, variably compacted (ripped shale)		D	0.5			
43	1	- grading brown at 1.4m						
42	1.9	FILL / Sandy GRAVEL: fine to coarse, brown, trace cobbles and boulders (gravel, cobbles and boulders are siltstone and sandstone estimated to be high or very high strength), moist, appears well compacted (ripped shale)		D	2.0			
41	2.6	FILL / Gravelly CLAY CL: low to medium plasticity, dark brown, with sand, cobbles and boulders (cobbles and boulders are siltstone estimated to be of medium and high strength), w < PL, appears well compacted (ripped shale)		D	2.8 2.9			
40	3.3	Pit discontinued at 3.3m						
39								

Dynamic Penetrometer Test (blows per 150mm)



RIG: 14 tonne excavator - 600mm bucket

LOGGED: RB

SURVEY DATUM: MGA94

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

☐ Sand Penetrometer AS1289.6.3.3
☒ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND

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

Douglas Partners
Geotechnics / Environment / Groundwater

TEST PIT LOG

CLIENT: Marsden Park Developments Pty Ltd
PROJECT: Proposed Industrial Development
LOCATION: Astoria Street, Marsden Park

SURFACE LEVEL: 43.4 mAHD
EASTING: 298397
NORTHING: 6266783

PIT No: 132
PROJECT No: 94616.00
DATE: 26/6/2020
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing: Type	Depth	Sample	Results & Comments	Water	Dynamic Penetrometer Test (blows per 150mm)
		FILL / TOPSOIL: silty clay CH, low plasticity, brown, trace fine gravel, with rootlets throughout		D	0.05				
	0.15	FILL / Gravelly CLAY CH: medium plasticity, brown, trace cobbles (gravel and cobbles are either siltstone and estimated to be medium or high strength or river gravel), w < PL, appears well compacted (predominantly ripped shale)			0.1				
43				D	0.4				
					0.5				
	1								1
42					1.5				
	2								2
					2.1				
				D	2.3				
41	2.4	Pit discontinued at 2.4m = Practical Refusal. Very slow progress in fill			2.4				
	3								3
40									
	4								4
39									

RIG: 14 tonne excavator - 600mm bucket

LOGGED: RB

SURVEY DATUM: MGA94

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

☐ Sand Penetrometer AS1289.6.3.3
☒ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND

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

Douglas Partners
Geotechnics / Environment / Groundwater

TEST PIT LOG

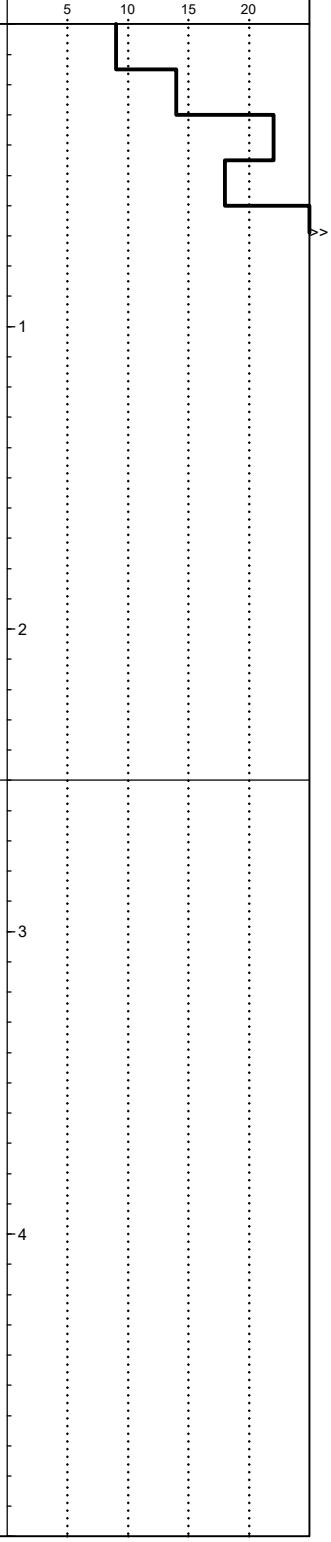
CLIENT: Marsden Park Developments Pty Ltd
PROJECT: Proposed Industrial Development
LOCATION: Astoria Street, Marsden Park

SURFACE LEVEL: 43.6 mAHD
EASTING: 298486
NORTHING: 6266776

PIT No: 133
PROJECT No: 94616.00
DATE: 29/6/2020
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing: Type	Depth	Sample	Results & Comments	Water
	0.15	FILL / TOPSOIL: silty clay CH, low to medium plasticity, brown, trace gravel and cobbles with rootlets throughout		D	0.1			
		FILL / Gravelly CLAY CH: medium plasticity, brown, trace cobbles and boulders (siltstone estimated to be medium or high strength), w<PL, well compacted (ripped shale)			0.4			
				B	0.6			
43	1							
42	1.6	Silty CLAY: medium to high plasticity, red-brown then brown, trace ironstone gravel, w < PL, very stiff to hard, residual						
	2			D	2.0		pp >400	
				D	2.4		pp = 350	
	2.5	Pit discontinued at 2.5m						
41	3							
40	4							
39								

Dynamic Penetrometer Test (blows per 150mm)



RIG: 14 tonne excavator - 600mm bucket

LOGGED: RB

SURVEY DATUM: MGA94

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

☐ Sand Penetrometer AS1289.6.3.3
☒ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND

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

Douglas Partners
Geotechnics / Environment / Groundwater

TEST PIT LOG

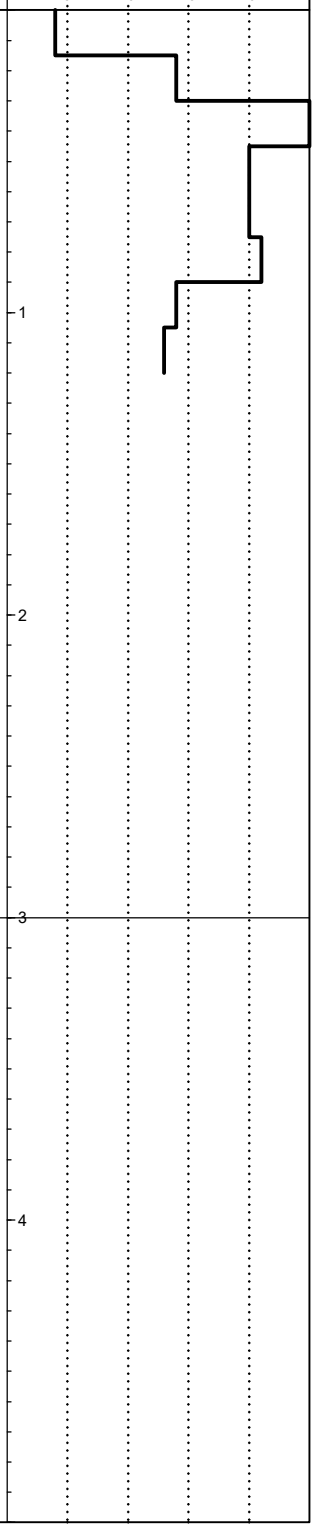
CLIENT: Marsden Park Developments Pty Ltd
PROJECT: Proposed Industrial Development
LOCATION: Astoria Street, Marsden Park

SURFACE LEVEL: 45.3 mAHD
EASTING: 298454
NORTHING: 6266707

PIT No: 134
PROJECT No: 94616.00
DATE: 26/6/2020
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing: Type	Depth	Sample	Results & Comments	Water
	0.05	FILL / TOPSOIL: silty clay CH, low plasticity, brown, trace gravel, with rootlets throughout, w < PL		D	0.05			
	0.25	FILL / CLAY CH: medium to high plasticity, dark brown, with gravel (shale), trace subrounded cobbles and boulders (river gravel), w < PL, poorly compacted			0.1			
45		FILL / Gravelly CLAY CH: medium plasticity, dark brown, trace subrounded cobbles and boulders, trace shale cobbles and boulders, w < PL, appears well compacted		D Bx2	0.4			
					0.5			
					0.6			
44				D	1.5			
				D	2.1			
					2.2			
43	2.3	Silty CLAY CH: medium to high plasticity, red-brown, with gravel, w < PL, very stiff, residual		D	2.9		pp = 250	
	3.0	Pit discontinued at 3.0m			3.0			
42								
41								

Dynamic Penetrometer Test (blows per 150mm)



RIG: 14 tonne excavator - 600mm bucket

LOGGED: RB

SURVEY DATUM: MGA94

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

☐ Sand Penetrometer AS1289.6.3.3
☒ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND

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

Douglas Partners
Geotechnics / Environment / Groundwater

TEST PIT LOG

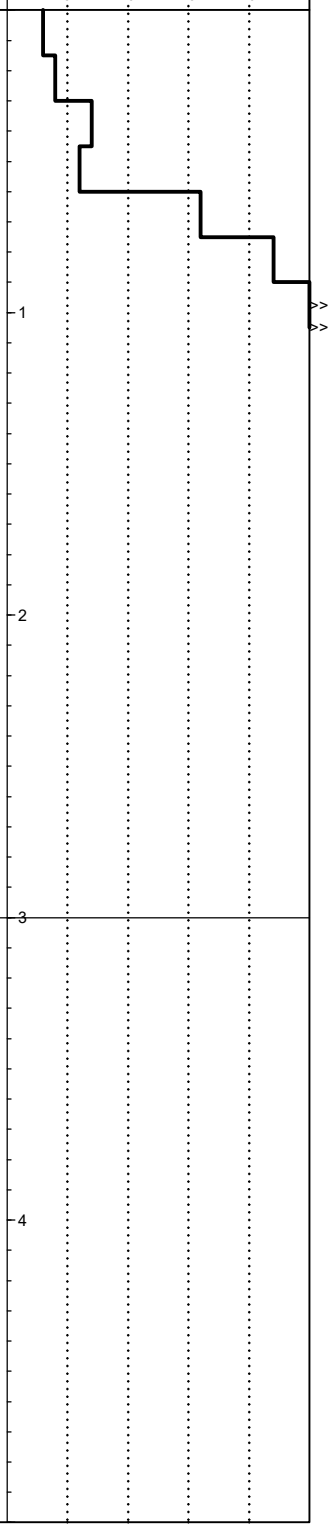
CLIENT: Marsden Park Developments Pty Ltd
PROJECT: Proposed Industrial Development
LOCATION: Astoria Street, Marsden Park

SURFACE LEVEL: 45.1 mAHD
EASTING: 298438
NORTHING: 6266709

PIT No: 135
PROJECT No: 94616.00
DATE: 26/6/2020
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing: Type	Depth	Sample	Results & Comments	Water
45	0.1	FILL / TOPSOIL: silty clay CH, low plasticity, brown, trace fine gravel, with rootlets throughout, w < PL		D	0.05 0.1			
		FILL / Silty CLAY CH: medium plasticity, red-brown and dark brown, with gravel and trace cobbles (gravel and cobbles a mixture of siltstone estimated to be medium and high strength and subrounded river gravel), w < PL, variably compacted		D	0.4 0.5			
	0.6	FILL / Gravelly CLAY CH: medium plasticity, brown, trace cobbles and boulders (gravel, cobbles and boulders are siltstone estimated to be high or very high strength), variably compacted (ripped shale)		D	0.9 1.0			
44	1							
43	2			D	2.0 2.1			
				D	2.8 2.9			
42	3 / 3.0	Pit discontinued at 3.0m						
41	4							

Dynamic Penetrometer Test (blows per 150mm)



RIG: 8 tonne excavator - 600mm bucket

LOGGED: RB

SURVEY DATUM: MGA94

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

☐ Sand Penetrometer AS1289.6.3.3
☒ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND

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

Douglas Partners
Geotechnics / Environment / Groundwater

TEST PIT LOG

CLIENT: Marsden Park Developments Pty Ltd
PROJECT: Proposed Industrial Development
LOCATION: Astoria Street, Marsden Park

SURFACE LEVEL: 44.8 mAHD
EASTING: 298355
NORTHING: 6266659

PIT No: 136
PROJECT No: 94616.00
DATE: 29/6/2020
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing: Type	Depth	Sample	Results & Comments	Water	Dynamic Penetrometer Test (blows per 150mm)
		FILL / TOPSOIL: gravelly clay CH, medium plasticity, brown, with rootlets throughout							
	0.2	FILL / Gravelly CLAY CH: medium plasticity, grey, siltstone and sandstone, angular to subangular, w < PL, variably compacted, with cobbles, trace boulders, w < PL, variably compacted							
	0.6	FILL / Gravelly CLAY CH: medium plasticity, grey, with cobbles and trace boulders (gravel, cobbles and boulders are a mixture of siltstone and sandstone estimated to be of medium or high strength) , w < PL, appears well compacted							
44	1			D	1.0				1
43	2			D	1.6				2
	2.7	Silty CLAY CH: medium to high plasticity, grey and red-brown, trace ironstone gravel, w < PL, very stiff, residual (first 300mm possibly disturbed)			2.8		pp = 250		
42	3								3
	3.0	Pit discontinued at 3.0m							
41	4								4
40									

RIG: 14 tonne excavator - 600mm bucket

LOGGED: RB

SURVEY DATUM: MGA94

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

☐ Sand Penetrometer AS1289.6.3.3
☒ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND

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

Douglas Partners
Geotechnics / Environment / Groundwater

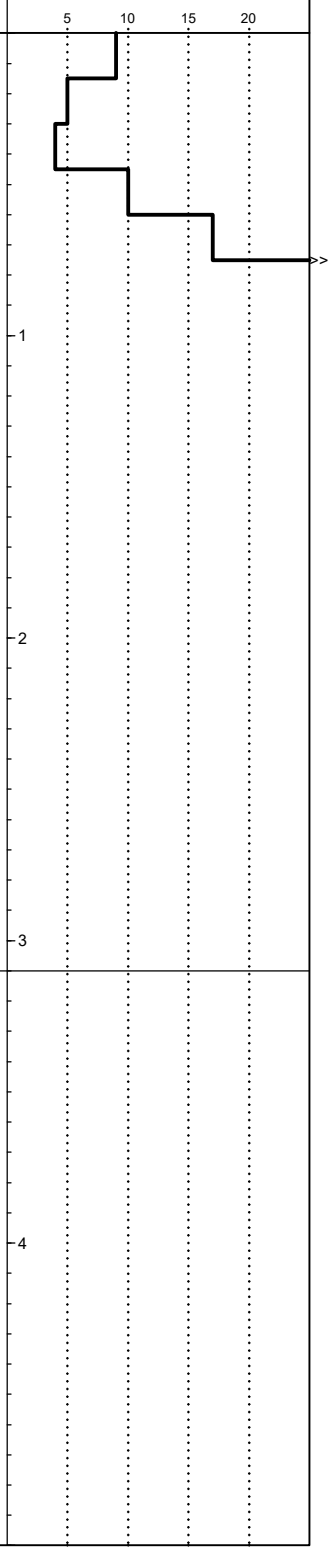
TEST PIT LOG

CLIENT: Marsden Park Developments Pty Ltd
PROJECT: Proposed Industrial Development
LOCATION: Astoria Street, Marsden Park

SURFACE LEVEL: 41.8 mAHD
EASTING: 298173
NORTHING: 6266667

PIT No: 137
PROJECT No: 94616.00
DATE: 29/6/2020
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing: Type	Depth	Sample	Results & Comments	Water	Dynamic Penetrometer Test (blows per 150mm)
		FILL / TOPSOIL: silty clay CH, low plasticity, brown, trace gravel and cobbles, with rootlets throughout, w < PL		D	0.0 0.1				
	0.15	FILL / Gravelly CLAY CH: medium plasticity, grey, with cobbles and boulders (gravel, cobbles and boulders siltstone estimated to be of medium or high strength), w < PL, appears generally well compacted below 0.6 m depth		D	0.5				
41	1			D	1.0				1
40	2								2
	2.7	Silty CLAY CL: medium to high plasticity, pale brown and red-brown, w<PL, very stiff, residual							
39	3			D	3.0		pp = 250		3
	3.1	Pit discontinued at 3.1m							
38	4								4
37									



RIG: 14 tonne excavator - 600mm bucket
LOGGED: RB
SURVEY DATUM: MGA94

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

☐ Sand Penetrometer AS1289.6.3.3
☒ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND

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

Douglas Partners
Geotechnics / Environment / Groundwater

TEST PIT LOG

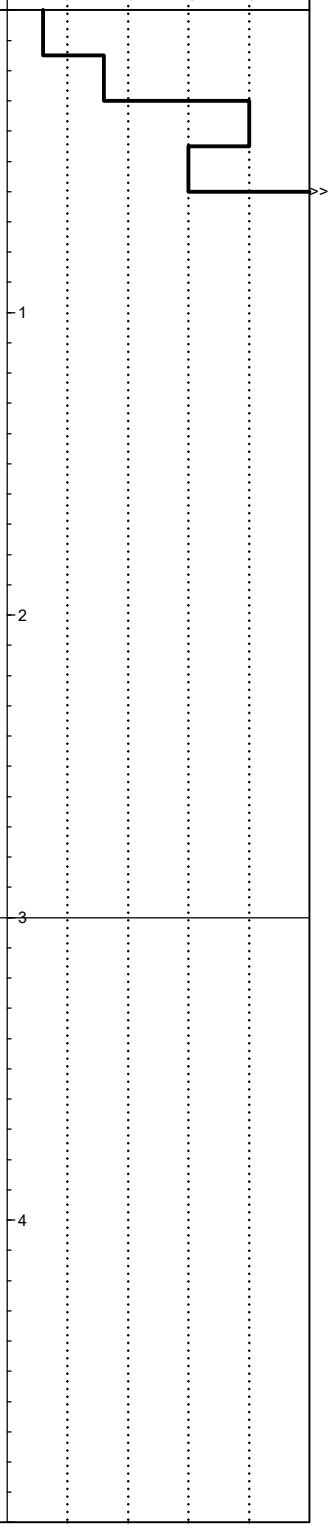
CLIENT: Marsden Park Developments Pty Ltd
PROJECT: Proposed Industrial Development
LOCATION: Astoria Street, Marsden Park

SURFACE LEVEL: 42.8 mAHD
EASTING: 298223
NORTHING: 6266562

PIT No: 138
PROJECT No: 94616.00
DATE: 29/6/2020
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing: Type	Depth	Sample	Results & Comments	Water
	0.1	FILL / TOPSOIL: silty clay CH low plasticity, brown, trace fine gravel, with rootlets throughout, w < PL		E,D	0.1			
	0.3	FILL / Silty CLAY CH: medium to high plasticity, brown, trace gravel and ironstone, w < PL, variably compacted						
		FILL / Gravelly CLAY CL: medium plasticity, grey, with cobbles and trace boulders (gravel, cobbles and boulders a mixture of river gravel and siltstone estimated to be of medium or high strength, w < PL, appears well compacted		E, D	0.5			
42	1			E,D	1.0			
	1.55			E,D	1.5			
		Gravelly CLAY CL: medium to high plasticity, brown, ironstone, angular to subangular, very stiff, w < PL, residual (top 300mm possibly disturbed)						
41	1.9							
	2	Silty CLAY CH: medium to high plasticity, red-brown, with ironstone gravel, w < PL, very stiff, residual			2.0			
				D	2.5		pp = 250	
40	3	3.0		D	3.0		pp = 250	
		Pit discontinued at 3.0m						
39	4							
38								

Dynamic Penetrometer Test (blows per 150mm)



RIG: 14 tonne excavator - 600mm bucket

LOGGED: RB

SURVEY DATUM: MGA94

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

☐ Sand Penetrometer AS1289.6.3.3
☒ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND

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

Douglas Partners
Geotechnics / Environment / Groundwater

TEST PIT LOG

CLIENT: Marsden Park Developments Pty Ltd
PROJECT: Proposed Industrial Development
LOCATION: Astoria Street, Marsden Park

SURFACE LEVEL: 44.6 mAHD
EASTING: 298309
NORTHING: 6266570

PIT No: 139
PROJECT No: 94616.00
DATE: 29/6/2020
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing: Type	Depth	Sample	Results & Comments	Water	Dynamic Penetrometer Test (blows per 150mm)
	0.15	FILL / TOPSOIL: silty clay CH low plasticity, brown, trace fine gravel, with rootlets throughout, w < PL		D	0.1				
44		FILL / Gravelly CLAY CH: low to medium plasticity, grey and brown, with cobbles and trace boulders (gravel, cobbles and boulders are siltstone and sandstone estimated to be of medium, high and very high strength), w < PL, appears well compacted		D	0.5				
	1			D	1.0				1
				D,E	1.3				
	1.5	Silty CLAY CH: medium to high plasticity, red-brown and grey, trace ironstone gravel, trace decomposed rootlets, w < PL, very stiff, residual			1.5				
43	2			D,E	2.0		pp = 300		2
42				D	2.5		pp = 250		
	3								3
	3.2	Pit discontinued at 3.2m							
41	4								4
40									

RIG: 14 tonne excavator - 600mm bucket

LOGGED: RB

SURVEY DATUM: MGA94

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

☐ Sand Penetrometer AS1289.6.3.3
☒ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND

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

Douglas Partners
Geotechnics / Environment / Groundwater

TEST PIT LOG

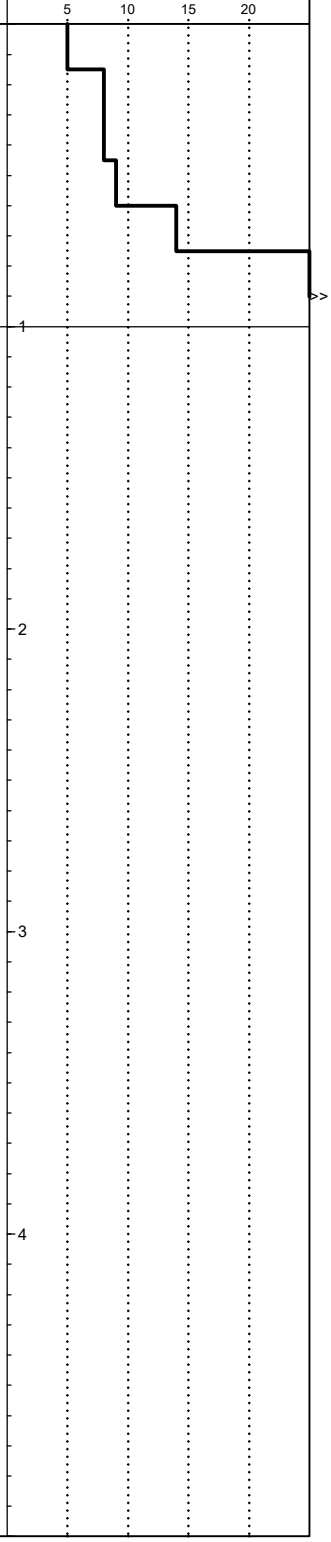
CLIENT: Marsden Park Developments Pty Ltd
PROJECT: Proposed Industrial Development
LOCATION: Astoria Street, Marsden Park

SURFACE LEVEL: 46.8 mAHD
EASTING: 298311
NORTHING: 6266479

PIT No: 140
PROJECT No: 94616.00
DATE: 29/6/2020
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing: Type	Depth	Sample	Results & Comments	Water
	0.1	FILL / TOPSOIL: silty clay CH, low plasticity, brown, trace gravel, with rootlets throughout, w < PL		D	0.1			
	0.25	FILL / Silty CLAY CH: low to medium plasticity, dark brown, with rootlets and sand, trace gravel, w < PL, variably compacted						
		Silty CLAY CH: medium to high plasticity, red-brown, w < PL, very stiff, residual		D	0.5			
46		- extremely weathered sandstone from 0.7m		D	0.8			
	0.9	SANDSTONE: very low strength, highly weathered, red-brown and grey, sandstone, Bringelly Shale						
	1 1.0	Pit discontinued at 1.0m						
		- Practical refusal on at least low strengh sandstone						
45								
44								
43								
42								

Dynamic Penetrometer Test (blows per 150mm)



RIG: 14 tonne excavator - 600mm bucket

LOGGED: RB

SURVEY DATUM: MGA94

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

☐ Sand Penetrometer AS1289.6.3.3
☒ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND

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

Douglas Partners
Geotechnics / Environment / Groundwater

TEST PIT LOG

CLIENT: Marsden Park Developments Pty Ltd
PROJECT: Proposed Industrial Development
LOCATION: Astoria Street, Marsden Park

SURFACE LEVEL: 45.9 mAHD
EASTING: 298442
NORTHING: 6266653

PIT No: 141
PROJECT No: 94616.00
DATE: 26/6/2020
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing: Type	Depth	Sample	Results & Comments	Water	Dynamic Penetrometer Test (blows per 150mm)
		FILL / TOPSOIL: silty clay CH, brown, with siltstone gravel, trace sand and rootlets throughout		D	0.0 0.1				
	0.2	FILL / Clayey GRAVEL: grey, with trace cobbles (gravel and cobbles are siltstone estimated to be of medium to high strength), w < PL, variably compacted		D	0.2 0.3				
	0.4	FILL / Silty CLAY CH: medium to high plasticity, grey-brown, with gravel, cobbles and boulders (gravel and cobbles are siltstone and sandstone estimated to be of medium and high strength), w < PL, appears well compacted (ripped shale)		B	0.5 0.6				
45	1			D	0.9 1.0				1
				D	1.4 1.5				
44	2								2
	2.4	Silty CLAY CH: medium to high plasticity, grey mottled red-brown, trace rootlets, w < PL, very stiff to hard, residual (possibly fill)		D	2.5		pp = 400		
	2.6	Pit discontinued at 2.6m			2.6				
43	3								3
42	4								4
41									

RIG: 14 tonne excavator - 600mm bucket

LOGGED: RB

SURVEY DATUM: MGA94

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

☐ Sand Penetrometer AS1289.6.3.3
☒ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND

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

Douglas Partners
Geotechnics / Environment / Groundwater

TEST PIT LOG

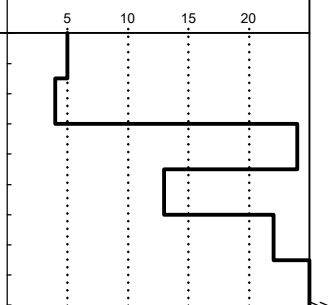
CLIENT: Marsden Park Developments Pty Ltd
PROJECT: Proposed Industrial Development
LOCATION: Astoria Street, Marsden Park

SURFACE LEVEL: 46.0 mAHD
EASTING: 298494
NORTHING: 6266691

PIT No: 142
PROJECT No: 94616.00
DATE: 26/6/2020
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing: Type	Depth	Sample	Results & Comments	Water
46		FILL / TOPSOIL: silty clay CH, brown, with siltstone gravel, trace sand and rootlets throughout		D	0.0 0.1			
	0.2	FILL / Gravelly CLAY CL: brown, gravel (siltstone gravel), w < PL, appears well compacted		D	0.4 0.5			
	0.6	FILL / GRAVEL: grey, with sub-rounded cobbles and boulders (river gravel estimated to be medium and high strength), trace clay, dry, appears variable compacted		D	0.9 1.0			
45	1							
	1.1	FILL / Silty CLAY CH: medium to high plasticity, grey-brown, with gravel and cobbles (ironstone and siltstone estimated to be medium and high strength), w < PL, appears well compacted - siltstone boulder (up to 300mm diameter) at 1.7m		D	1.4 1.5			
44	2							
				D	2.6 2.7			
	2.8	Silty CLAY CH: medium to high plasticity, pale grey mottled red-brown, trace rootlets, w < PL, hard, residual		D	2.8 2.9		pp >400	
43	3 3.0	Pit discontinued at 3.0m						
42	4							

Dynamic Penetrometer Test (blows per 150mm)



RIG: 14 tonne excavator - 600mm bucket

LOGGED: RB

SURVEY DATUM: MGA94

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

☐ Sand Penetrometer AS1289.6.3.3
☒ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND

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

Douglas Partners
Geotechnics / Environment / Groundwater

TEST PIT LOG

CLIENT: Marsden Park Developments Pty Ltd
PROJECT: Proposed Industrial Development
LOCATION: Astoria Street, Marsden Park

SURFACE LEVEL: 48.2 mAHD
EASTING: 298591
NORTHING: 6266624

PIT No: 143
PROJECT No: 94616.00
DATE: 26/6/2020
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing: Type	Depth	Sample	Results & Comments	Water	Dynamic Penetrometer Test (blows per 150mm)
	0.1	FILL / TOPSOIL: silty clay CH, low plasticity, brown, trace fine gravel, with rootlets throughout, w < PL		D	0.0 0.1				
48	0.2	FILL / Silty CLAY CH: low to medium plasticity, dark brown, with gravel, w < PL, poorly compacted							
	0.5	Silty CLAY CH: medium to high plasticity, pale brown grey, w < PL, soft to firm, residual (possibly disturbed)		D	0.5		pp = 100		
		Silty CLAY CH: medium to high plasticity, pale brown and red brown, with ironstone gravel, w < PL,stiff, residual		D	0.8 0.9		pp = 150		
	1 1.0	Silty CLAY CH: medium to high plasticity, pale brown and red brown, with ironstone gravel, w < PL, hard, residual							1
47	1.2	(extremely weathered sandstone)		D	1.2				
	1.3	SANDSTONE: very low and low strength, red-brown and grey, Bringelly Shale			1.3				
		Pit discontinued at 1.3m - Practical refusal on at least low strengh sandstone							
	2								2
46									
	3								3
45									
	4								4
44									

Dynamic Penetrometer Test (blows per 150mm): 5, 10, 15, 20

RIG: 14 tonne excavator - 600mm bucket

LOGGED: RB

SURVEY DATUM: MGA94

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

☐ Sand Penetrometer AS1289.6.3.3
☒ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND

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

Douglas Partners
Geotechnics / Environment / Groundwater

TEST PIT LOG

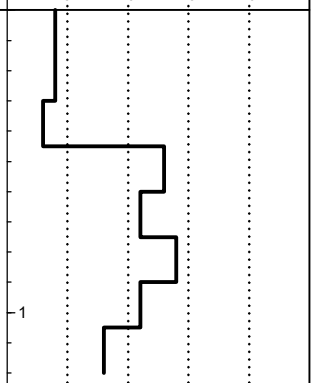
CLIENT: Marsden Park Developments Pty Ltd
PROJECT: Proposed Industrial Development
LOCATION: Astoria Street, Marsden Park

SURFACE LEVEL: 49.5 mAHD
EASTING: 298541
NORTHING: 6266571

PIT No: 144
PROJECT No: 94616.00
DATE: 29/6/2020
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing: Type	Depth	Sample	Results & Comments	Water
		FILL / TOPSOIL: gravelly clay CH, low to medium plasticity, brown, with rootlets throughout		D	0.0 0.1			
	0.2	FILL / Sandy GRAVEL GM: fine to coarse, dark brown, with cobbles (sandstone estimated to be of medium strength), moist, variably compacted		B D	0.3 0.5			
49	0.6	Silty CLAY CH: medium to high plasticity, red-brown, trace ironstone gravel, w < PL, very stiff, residual (top 300mm possibly disturbed)		D	1.0			
48	1.5	Silty CLAY CH: medium to high plasticity, red-brown mottled grey, trace ironstone gravel, w < PL, very stiff, residual		D	1.5		pp >400	
				D	2.0		pp >400	
47				D	2.5		pp >400	
	3.2	Pit discontinued at 3.2m						
46								
45								

Dynamic Penetrometer Test (blows per 150mm)



RIG: 14 tonne excavator - 600mm bucket

LOGGED: RB

SURVEY DATUM: MGA94

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

☐ Sand Penetrometer AS1289.6.3.3
☒ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND

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

Douglas Partners
Geotechnics / Environment / Groundwater

TEST PIT LOG

CLIENT: Marsden Park Developments Pty Ltd
PROJECT: Proposed Industrial Development
LOCATION: Astoria Street, Marsden Park

SURFACE LEVEL: 47.8 mAHD
EASTING: 298484
NORTHING: 6266573

PIT No: 145
PROJECT No: 94616.00
DATE: 26/6/2020
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing: Type	Depth	Sample	Results & Comments	Water	Dynamic Penetrometer Test (blows per 150mm)
		FILL / TOPSOIL: silty clay CH, medium plasticity, dark brown, with siltstone gravel and rootlets, trace sand		D	0.0 0.1				
	0.2	Silty CLAY CL: medium to high plasticity, red-brown and grey, trace gravel, w < PL, stiff, residual (top 200mm possibly disturbed)		D	0.5		pp = 250		
47				B	0.7 0.9		pp = 250		
	1 1.0	SANDSTONE: very low strength, brown and grey, Bringelly Shale		D	1.0 1.1				1
	1.1	Pit discontinued at 1.15m - Practical refusal on at least low strengh sandstone							
46	2								2
45	3								3
44	4								4
43									

Dynamic Penetrometer Test (blows per 150mm): 5, 10, 15, 20

RIG: 14 tonne excavator - 600mm bucket

LOGGED: RB

SURVEY DATUM: MGA94

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

☐ Sand Penetrometer AS1289.6.3.3
☒ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND

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

Douglas Partners
Geotechnics / Environment / Groundwater

TEST PIT LOG

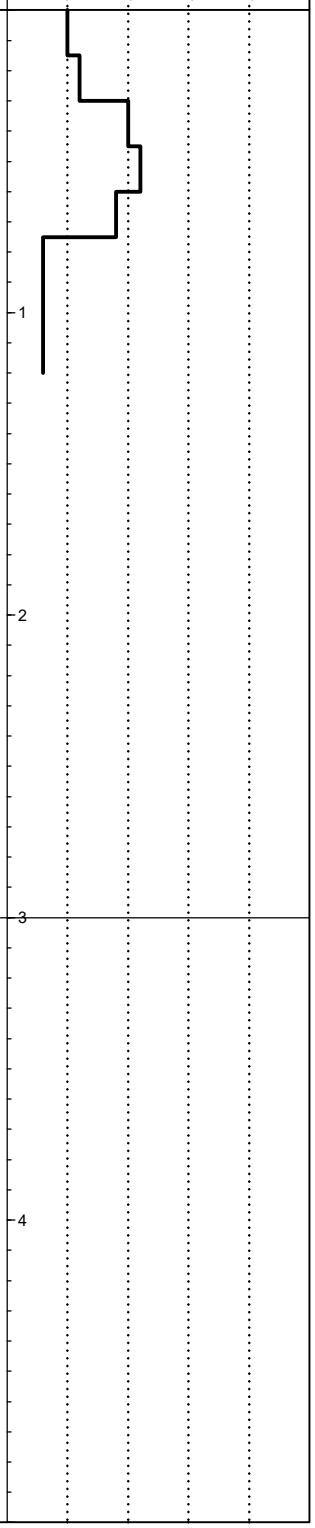
CLIENT: Marsden Park Developments Pty Ltd
PROJECT: Proposed Industrial Development
LOCATION: Astoria Street, Marsden Park

SURFACE LEVEL: 46.6 mAHD
EASTING: 298438
NORTHING: 6266580

PIT No: 146
PROJECT No: 94616.00
DATE: 26/6/2020
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing: Type	Depth	Sample	Results & Comments	Water
	0.0–0.2	FILL / TOPSOIL: silty clay CH, brown, trace sand, with siltstone gravel and rootlets throughout		D	0.0–0.1			
	0.2–0.4	FILL / Silty CLAY CH: medium to high plasticity, trace ironstone gravel and rootlets, w < PL, variably compacted		D	0.2–0.3			
46	0.4–0.9	FILL / Silty CLAY CL: low plasticity, brown, trace gravel (siltstone) and sand, w < PL, variably compacted		D	0.4–0.5			
	0.9–3.0	Silty CLAY CH: medium to high plasticity, pale grey mottled orange and red, trace ironstone gravel, w < PL, stiff to very stiff, residual		B	0.9–1.0		pp = 200	
45				D	2.4–2.5		pp = 300	
44								
43								
42								
	3.0	Pit discontinued at 3.0m						

Dynamic Penetrometer Test (blows per 150mm)



RIG: 14 tonne excavator - 600mm bucket

LOGGED: RB

SURVEY DATUM: MGA94

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

☐ Sand Penetrometer AS1289.6.3.3
☒ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND

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

Douglas Partners
Geotechnics / Environment / Groundwater

TEST PIT LOG

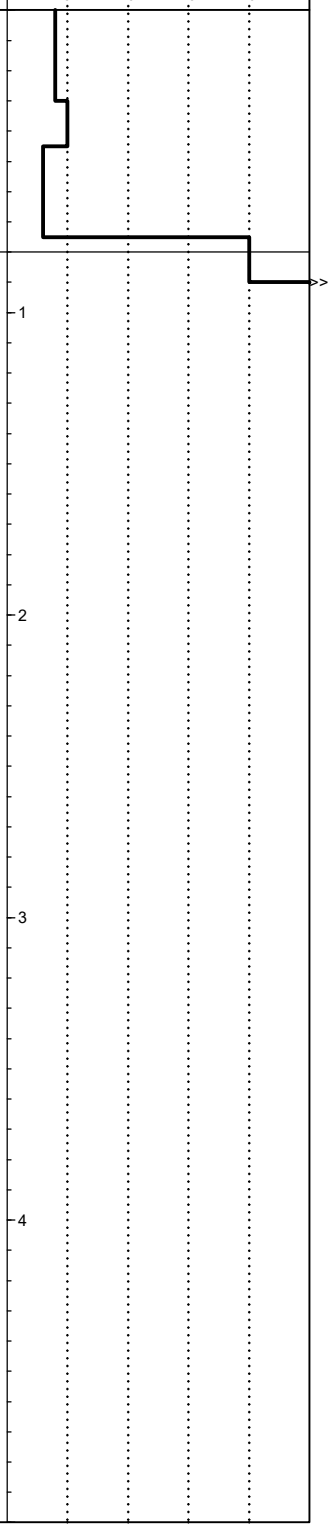
CLIENT: Marsden Park Developments Pty Ltd
PROJECT: Proposed Industrial Development
LOCATION: Astoria Street, Marsden Park

SURFACE LEVEL: 48.3 mAHD
EASTING: 298434
NORTHING: 6266522

PIT No: 147
PROJECT No: 94616.00
DATE: 26/6/2020
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing: Type	Depth	Sample	Results & Comments	Water
		FILL / TOPSOIL: silty clay CH, low plasticity, brown, trace sand and rootlets, glass shard fragments observed with rootlets throughout		D	0.0 0.1			
	0.2	Silty CLAY CH: medium plasticity, mottled grey and orange, with gravel, w < PL, stiff, residual (0.2 - 0.5m possibly disturbed)		D	0.4 0.6		pp = 150	
	0.7	SANDSTONE: fine grained, grey, very low strength, Bringelly Shale		D	0.7			
	0.8	Pit discontinued at 0.8m - Practical refusal on at least low strengh sandstone			0.8			

Dynamic Penetrometer Test (blows per 150mm)



RIG: 14 tonne excavator - 600mm bucket

LOGGED: RB

SURVEY DATUM: MGA94

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

☐ Sand Penetrometer AS1289.6.3.3
☒ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND

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

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Geotechnics / Environment / Groundwater

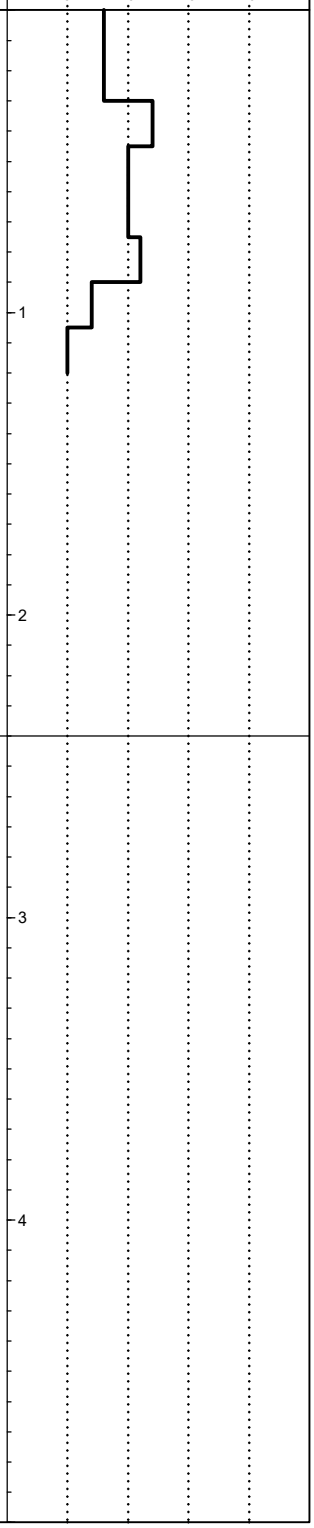
TEST PIT LOG

CLIENT: Marsden Park Developments Pty Ltd
PROJECT: Proposed Industrial Development
LOCATION: Astoria Street, Marsden Park

SURFACE LEVEL: 50.1 mAHD
EASTING: 298515
NORTHING: 6266539

PIT No: 148
PROJECT No: 94616.00
DATE: 26/6/2020
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing: Type	Depth	Sample	Results & Comments	Water	Dynamic Penetrometer Test (blows per 150mm)
50	0.07	FILL / TOPSOIL: silty clay CH, medium plasticity, dark brown, with gravel and rootlets throughout		D	0.05 0.1				
		FILL / Silty CLAY: medium plasticity, brown with gravel, trace cobbles (siltstone), w<PL, appears well compacted		B D	0.4 0.5				
	0.8	Silty CLAY CH: medium to high plasticity, red-brown and grey, with ironstone gravel, w < PL, stiff to very stiff, residual			1.5		pp = 300		
49	1.9	SANDSTONE: fine grained, very low and low strength, grey, Bringelly Shale		D	1.9 2.0				
48	2.4	Pit discontinued at 2.4m - Practical refusal on at least low strengh sandstone							
47									
46									



RIG: 14 tonne excavator - 600mm bucket
LOGGED: RB
SURVEY DATUM: MGA94

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

☐ Sand Penetrometer AS1289.6.3.3
☒ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND

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

Douglas Partners
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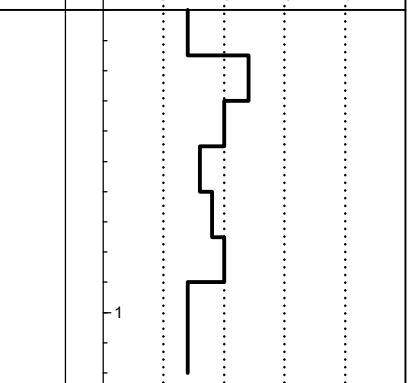
TEST PIT LOG

CLIENT: Marsden Park Developments Pty Ltd
PROJECT: Proposed Industrial Development
LOCATION: Astoria Street, Marsden Park

SURFACE LEVEL: 50.4 mAHD
EASTING: 298538
NORTHING: 6266514

PIT No: 149
PROJECT No: 94616.00
DATE: 26/6/2020
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing: Type	Depth	Sample	Results & Comments	Water	Dynamic Penetrometer Test (blows per 150mm)
	0.1	FILL / TOPSOIL: silty clay CH, medium plasticity, dark brown, with gravel and rootlets throughout		D	0.05 0.1				
		Silty CLAY CH: medium to high plasticity, dark brown then brown, with rootlets, w < PL, very stiff, residual (possibly fill)		D	0.25 0.3				
50	0.5	Silty CLAY CH: medium to high plasticity, grey with brown, trace ironstone gravel, w < PL, very stiff, residual		D	0.6 0.7				
49	1			D	1.4 1.5		pp = 300		1
	1.9	SANDSTONE: very low to low strength, highly weathered, sandstone		D	1.9 2.0				2
48	2 2.1	Pit discontinued at 2.1m - Practical refusal on at least low strengh sandstone							
47	3								3
46	4								4



RIG: 14 tonne excavator - 600mm bucket
LOGGED: RB
SURVEY DATUM: MGA94

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

☐ Sand Penetrometer AS1289.6.3.3
☒ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND

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

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Geotechnics / Environment / Groundwater

TEST PIT LOG

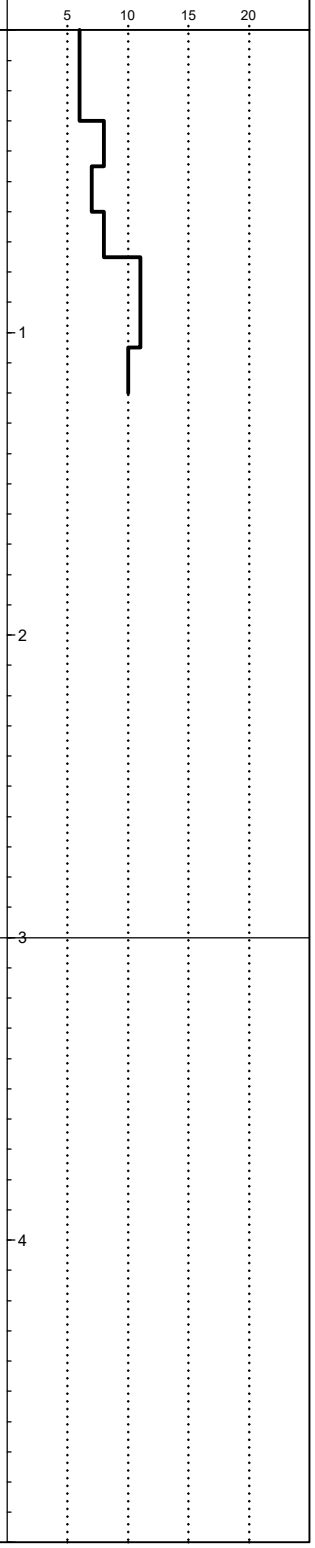
CLIENT: Marsden Park Developments Pty Ltd
PROJECT: Proposed Industrial Development
LOCATION: Astoria Street, Marsden Park

SURFACE LEVEL: 50.4 mAHD
EASTING: 298573
NORTHING: 6266487

PIT No: 150
PROJECT No: 94616.00
DATE: 26/6/2020
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing: Type	Depth	Sample	Results & Comments	Water
	0.05	FILL / TOPSOIL: silty clay CH, medium plasticity, dark brown, with gravel and rootlets throughout		D,E	0.0			
		Silty CLAY CH: medium to high plasticity, brown and grey, with ironstone gravel, w < PL, very stiff, residual			0.1			
50				D	0.5			
	0.9	Gravelly CLAY CH: medium to high plasticity, grey and red brown, with ironstone gravel, w < PL, very stiff to hard, residual						
	1			D	1.0			
49				D	1.5		pp >400	
	2			D	2.0			
48				D	2.5			
	2.9	SANDSTONE: fine grained, very low to low strength, yellow brown and grey, Bringelly Shale			2.9			
	3 3.0	Pit discontinued at 3.0m			3.0			
47								
	4							
46								

Dynamic Penetrometer Test (blows per 150mm)



RIG: 14 tonne excavator - 600mm bucket

LOGGED: RB

SURVEY DATUM: MGA94

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

☐ Sand Penetrometer AS1289.6.3.3
☒ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND

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

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Geotechnics / Environment / Groundwater

TEST PIT LOG

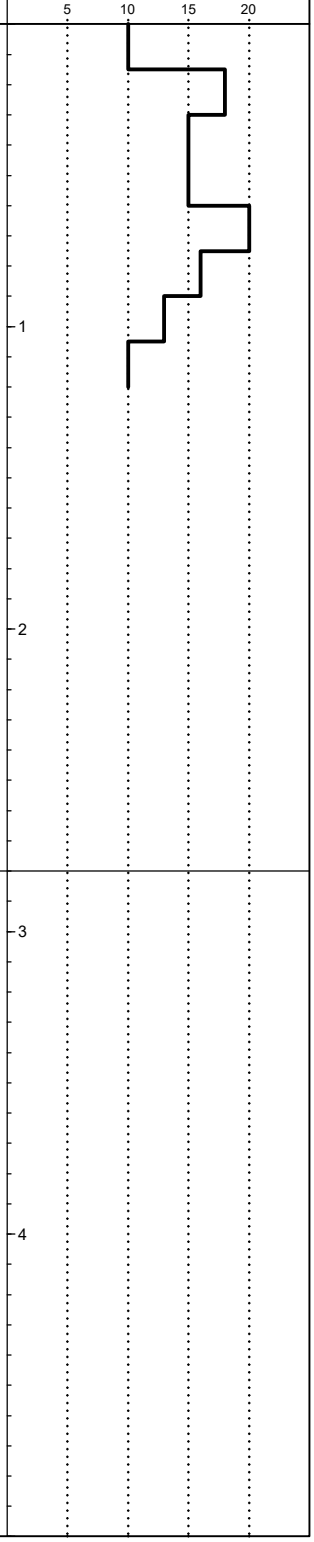
CLIENT: Marsden Park Developments Pty Ltd
PROJECT: Proposed Industrial Development
LOCATION: Astoria Street, Marsden Park

SURFACE LEVEL: 50.7 mAHD
EASTING: 298487
NORTHING: 6266478

PIT No: 151
PROJECT No: 94616.00
DATE: 26/6/2020
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing: Type	Depth	Sample	Results & Comments	Water
	0.05	FILL / TOPSOIL: silty clay CH, medium plasticity, dark brown, with gravel and rootlets throughout		D,E	0.01			
	0.15	FILL / Gravelly CLAY CH: low plasticity, dark brown, with sand and rootlets, trace siltstone cobbles, w < PL, variably compacted		D	0.1			
		FILL/ Gravelly CLAY CH : low plasticity, brown, trace cobbles and boulders (siltstone estimated to be low and medium strength), w < PL, appears well compacted (ripped shale)		D, E	0.5			
50	0.7	Silty CLAY CH: medium to high plasticity, red-brown, trace gravel, ironstone, w < PL, very stiff to hard, residual						
	1				1.0		pp >400	
				D	1.5		pp >400	
49								
	2				2.0		pp >400	
					2.2			
				D	2.5			
				D				
48	2.7	SILTSTONE: very low to low strength, grey, Bringelly Shale						
	2.8	Pit discontinued at 2.8m			2.8			
	3	- Practical refusal on at least low strengh siltstone						
47								
	4							
46								

Dynamic Penetrometer Test (blows per 150mm)



RIG: 14 tonne excavator - 600mm bucket

LOGGED: RB

SURVEY DATUM: MGA94

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

☐ Sand Penetrometer AS1289.6.3.3
☒ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND

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

Douglas Partners
Geotechnics / Environment / Groundwater

TEST PIT LOG

CLIENT: Marsden Park Developments Pty Ltd
PROJECT: Proposed Industrial Development
LOCATION: Astoria Street, Marsden Park

SURFACE LEVEL: 49.2 mAHD
EASTING: 298428
NORTHING: 6266420

PIT No: 152
PROJECT No: 94616.00
DATE: 26/6/2020
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing: Type	Depth	Sample	Results & Comments	Water	Dynamic Penetrometer Test (blows per 150mm)
	0.05	FILL / TOPSOIL: silty clay CH, medium plasticity, dark brown, with gravel and rootlets throughout		D,E	0.0 0.1				
49	0.3	FILL / Silty CLAY CH: medium to high plasticity, brown, with rootlets and gravel (mixture of siltstone and river gravel), trace sand, w < PL, appears well compacted			0.4				
		Silty CLAY CH: medium to high plasticity, red-brown and grey, trace roots to 0.6m depth, trace ironstone gravel, w < PL, very stiff, residual,		Bx2 D,S	0.5 0.6				
	1			D,S	1.0				1
48					1.2				
				D					
	1.7	SANDSTONE: fine grained, very low to low strength, red-brown and grey, Bringelly Shale			1.8				
	1.9	Pit discontinued at 1.9m - Practical refusal on at least low strengh sandstone							
	2								2
47									
	3								3
46									
	4								4
45									

Dynamic Penetrometer Test (blows per 150mm): 5, 10, 15, 20

RIG: 14 tonne excavator - 600mm bucket

LOGGED: RB

SURVEY DATUM: MGA94

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

☐ Sand Penetrometer AS1289.6.3.3
☒ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND

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

Douglas Partners
Geotechnics / Environment / Groundwater

TEST PIT LOG

CLIENT: Marsden Park Developments Pty Ltd
PROJECT: Proposed Industrial Development
LOCATION: Astoria Street, Marsden Park

SURFACE LEVEL: 50.8 mAHD
EASTING: 298491
NORTHING: 6266395

PIT No: 153
PROJECT No: 94616.00
DATE: 26/6/2020
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing: Type	Depth	Sample	Results & Comments	Water	Dynamic Penetrometer Test (blows per 150mm)
	0.05	FILL / TOPSOIL: silty clay CH, medium plasticity, dark brown, with gravel and rootlets throughout		D	0.0 0.1				
	0.3	Silty CLAY CH: medium to high plasticity, brown, with rootlets, trace gravel, w < PL, very stiff, residual (possibly disturbed)							
		Silty CLAY CH: medium to high plasticity, red-brown and grey, trace roots to 0.6m, w < PL, stiff to very stiff, residual		D	0.5				
50	1								1
				D	1.5		pp >400		
49	2				2.0		pp >400		2
				D	2.5		pp >400		
48		2.9m: hard (extremely weathered siltstone)							
	3 3.0	Pit discontinued at 3.0m							3
47	4								4
46									

Dynamic Penetrometer Test (blows per 150mm): 5, 10, 15, 20

RIG: 14 tonne excavator - 600mm bucket

LOGGED: RB

SURVEY DATUM: MGA94

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

☐ Sand Penetrometer AS1289.6.3.3
☒ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND

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

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Geotechnics / Environment / Groundwater

TEST PIT LOG

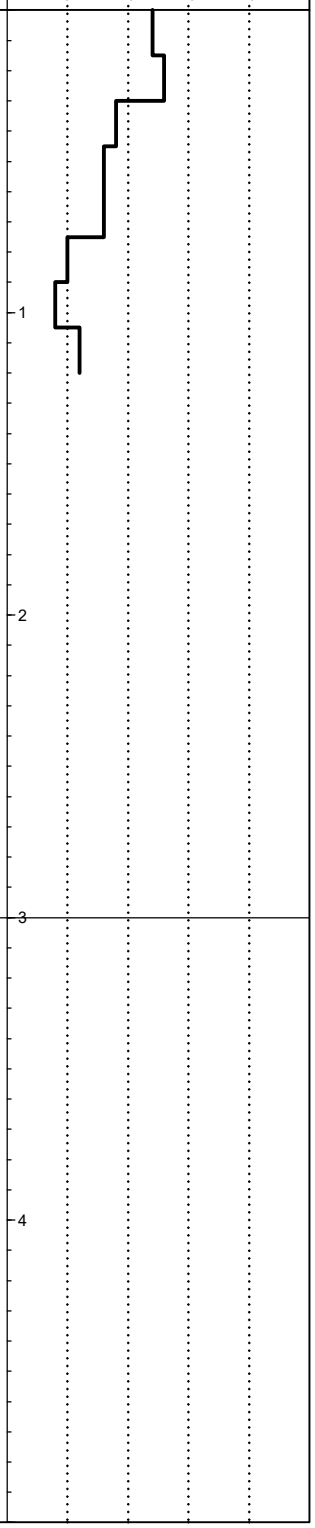
CLIENT: Marsden Park Developments Pty Ltd
PROJECT: Proposed Industrial Development
LOCATION: Astoria Street, Marsden Park

SURFACE LEVEL: 51.3 mAHD
EASTING: 298568
NORTHING: 6266364

PIT No: 154
PROJECT No: 94616.00
DATE: 26/6/2020
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing: Type	Depth	Sample	Results & Comments	Water
	0.15	FILL / TOPSOIL: silty clay CH, medium plasticity, dark brown, with gravel and rootlets throughout		D	0.1			
51		Silty CLAY CH: medium to high plasticity, red-brown, with rootlets to 0.5m, w < PL, stiff to very stiff, residual		D	0.5			
50	1.5	Silty CLAY CH: medium to high plasticity, red-brown, with ironstone gravel, w < PL, stiff to very stiff, residual		D	1.5		pp >400	
49		2.8m: ironstone bands		D	2.0		pp <=400	
	3.0	Pit discontinued at 3.0m						

Dynamic Penetrometer Test (blows per 150mm)



RIG: 14 tonne excavator - 600mm bucket

LOGGED: RB

SURVEY DATUM: MGA94

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

☐ Sand Penetrometer AS1289.6.3.3
☒ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND

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

Douglas Partners
Geotechnics / Environment / Groundwater

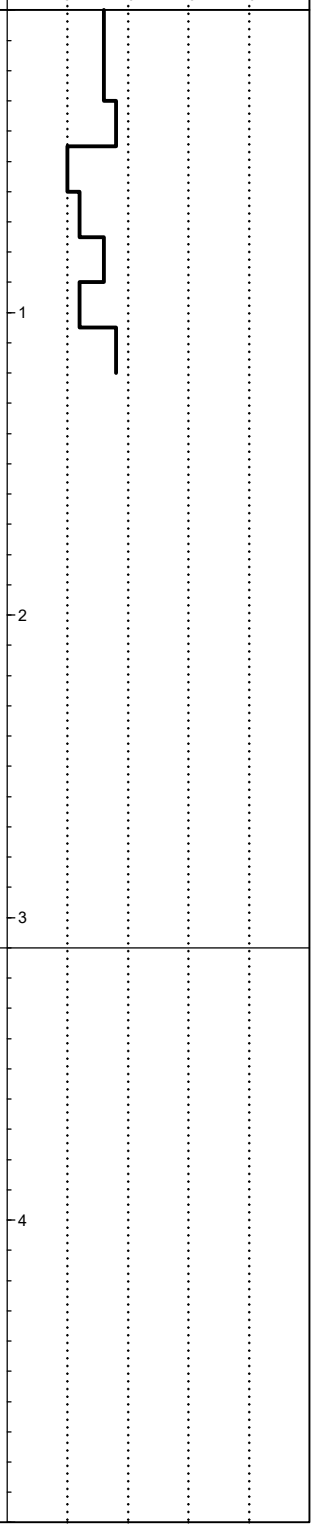
TEST PIT LOG

CLIENT: Marsden Park Developments Pty Ltd
PROJECT: Proposed Industrial Development
LOCATION: Astoria Street, Marsden Park

SURFACE LEVEL: 52.0 mAHD
EASTING: 298487
NORTHING: 6266325

PIT No: 155
PROJECT No: 94616.00
DATE: 26/6/2020
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing: Type	Depth	Sample	Results & Comments	Water	Dynamic Penetrometer Test (blows per 150mm)
52		FILL / TOPSOIL: silty clay CH, medium plasticity, dark brown, with gravel and rootlets throughout		D,E	0.0				
	0.1	Silty CLAY CH: medium to high plasticity, brown, with rootlets, w<PL, very stiff, residual (possibly disturbed)			0.1				
	0.45	Silty CLAY CH: medium to high plasticity, pale brown, with ironstone gravel, w < PL, very stiff, residual		D	0.5				
51	1			D	1.0				1
				D	1.5		pp = 300		
50	2			D	2.0		pp = 350		2
				D	2.5		pp = 350		
49	3			D	3.0				3
	3.1	Pit discontinued at 3.1m							
48	4								4



RIG: 14 tonne excavator - 600mm bucket

LOGGED: RB

SURVEY DATUM: MGA94

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

☐ Sand Penetrometer AS1289.6.3.3
☒ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND

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

Douglas Partners
Geotechnics / Environment / Groundwater

TEST PIT LOG

CLIENT: Marsden Park Developments Pty Ltd
PROJECT: Proposed Industrial Development
LOCATION: Astoria Street, Marsden Park

SURFACE LEVEL: 51.1 mAHD
EASTING: 298423
NORTHING: 6266341

PIT No: 156
PROJECT No: 94616.00
DATE: 26/6/2020
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing: Type	Depth	Sample	Results & Comments	Water	Dynamic Penetrometer Test (blows per 150mm)
				E,D	0.0				
51	0.1	FILL / TOPSOIL: silty clay CH, low plasticity, brown, trace fine gravel, with rootlets throughout			0.1				
		FILL / Gravelly CLAY CH: medium plasticity, brown, trace sand, cobbles and boulders (gravel, cobbles and boulders siltstone estimated to be of medium or high strength), w < PL, appears well compacted							
	0.8	Silty CLAY CH: medium to high plasticity, red-brown, trace gravel, w < PL, very stiff, residual		D	0.8				
					0.9				
	1			B	1.0		pp = 250		1
50				D	1.1				
				D	1.5		pp = 350		
		1.8m: grading to grey with red-brown							
	2			D	2.0		pp = 250		2
49									
				D	2.5		pp = 300		
		- hard, possibly extremely weathered sandstone							
	3			D	3.0				3
48	3.1				3.1				
	3.2	SANDSTONE: fine grained, very low to low strength, grey and brown, Bringelly Shale		D	3.2				
		Pit discontinued at 3.2m							
	4								4
47									

Dynamic Penetrometer Test (blows per 150mm): 5, 10, 15, 20

RIG: 14 tonne excavator - 600mm bucket

LOGGED: RB

SURVEY DATUM: MGA94

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

☐ Sand Penetrometer AS1289.6.3.3
☒ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND

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

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Appendix D

Summary Table: Laboratory Tests and Assessments

Test Bore or Pit	Sample Depth	pH	Chloride Concentration	Sulphate Concentration	Resistivity	Soil Condition	Sample Aggressivity Class				
					By inversion of EC1:5		Aggr. to Concrete - from sample pH	Aggr. to Concrete - from Sulphate conc.	Aggr. to Steel - from sample pH	Aggr. to Steel - from Chloride conc.	Aggr. to Steel - from sample Resistivity
	(m bgl)	(pH units)	(mg/kg)	(mg/kg)	Ω.cm	[AS2159-2009]	[AS2159-2009]				
14	0.5	5.1			9091	B	Mild		Non-Aggressive		Non-Aggressive
	1.0	5	360	170	2941	B	Mild	Non-Aggressive	Non-Aggressive	Non-Aggressive	Non-Aggressive
	1.5	6.1			1818	B	Non-Aggressive		Non-Aggressive		Mild
	2.0	6	770	160	1724	B	Non-Aggressive	Non-Aggressive	Non-Aggressive	Non-Aggressive	Mild
	2.5	5.8			2000	B	Non-Aggressive		Non-Aggressive		Non-Aggressive
.	3.0	6.9			1250	B	Non-Aggressive		Non-Aggressive		Mild
19	0.5	4.6			1099	B	Mild		Non-Aggressive		Mild
	1.0	4.8			1923	B	Mild		Non-Aggressive		Mild
	1.5	5.1	510	170	2381	B	Mild	Non-Aggressive	Non-Aggressive	Non-Aggressive	Non-Aggressive
	2.0	5			1087	B	Mild		Non-Aggressive		Mild
.	2.5	5.7			2273	B	Non-Aggressive		Non-Aggressive		Non-Aggressive
26	0.5	8.1			2703	B	Non-Aggressive		Non-Aggressive		Non-Aggressive
	1.0	8.9	640	170	1754	B	Non-Aggressive	Non-Aggressive	Non-Aggressive	Non-Aggressive	Mild
	1.5	9.2			2439	B	Non-Aggressive		Non-Aggressive		Non-Aggressive
	2.0	9.3	350	220	2326	B	Non-Aggressive	Non-Aggressive	Non-Aggressive	Non-Aggressive	Non-Aggressive
	2.5	9.2			3704	B	Non-Aggressive		Non-Aggressive		Non-Aggressive
.	3.0	9.2			3226	B	Non-Aggressive		Non-Aggressive		Non-Aggressive
28	0.5	5.4			1923	B	Mild		Non-Aggressive		Mild
	1.0	5.3			1818	B	Mild		Non-Aggressive		Mild
	1.5	4.7			2703	B	Mild		Non-Aggressive		Non-Aggressive
	2.0	4.9			2778	B	Mild		Non-Aggressive		Non-Aggressive
	2.5	5.2	490	260	2128	B	Mild	Non-Aggressive	Non-Aggressive	Non-Aggressive	Non-Aggressive
.	3.0	5.5			2273	B	Mild		Non-Aggressive		Non-Aggressive
29	0.5	5.8			1695	B	Non-Aggressive		Non-Aggressive		Mild
	1.0	7.8	1000	160	1351	B	Non-Aggressive	Non-Aggressive	Non-Aggressive	Non-Aggressive	Mild
	1.5	7.2			1176	B	Non-Aggressive		Non-Aggressive		Mild
	2.0	7.7	1000	160	1408	B	Non-Aggressive	Non-Aggressive	Non-Aggressive	Non-Aggressive	Mild
	2.5	7.9			1316	B	Non-Aggressive		Non-Aggressive		Mild
.	3.0	7.8			1316	B	Non-Aggressive		Non-Aggressive		Mild

Test Bore or Pit	Sample Depth	Exchangeable Sodium (Na) Concentration	Cation Exchange Capacity	Sodicity	Sodicity Class	Emerson Crumb Class Number	Dispersion?	Soil Texture Group	Textural Factor (M)	$EC_{1:5}$	EC_e	Sample Salinity Class
				[Na/CEC]			(from Emerson Class)	(for detailed soil logs see Report Appendix)		[Lab.]	[M x $EC_{1:5}$]	(Based on sample ECe)
	(m bgl)	(meq/100g)	(meq/100g)	(%)	[after DLWC]		[AS1289.3.8.1]	[after DLWC]	[after DLWC]	(microS/cm)	(deciS/m)	[Richards 1954]
14	0.5	0.58	6.8	8	Sodic			Heavy clay	6	110	0.7	Non-Saline
	1.0							Heavy clay	6	340	2.0	Slightly Saline
	1.5					2	Some	Heavy clay	6	550	3.3	Slightly Saline
	2.0							Light medium clay	8	580	4.6	Moderately Saline
	2.5							Light clay	8.5	500	4.3	Moderately Saline
.	3.0							Light medium clay	8	800	6.4	Moderately Saline
19	0.5							Medium clay	7	910	6.4	Moderately Saline
	1.0							Medium clay	7	520	3.6	Slightly Saline
	1.5	2.3	9.4	24	Highly Sodic			Medium clay	7	420	2.9	Slightly Saline
	2.0							Medium clay	7	920	6.4	Moderately Saline
.	2.5							Medium clay	7	440	3.1	Slightly Saline
26	0.5	1.9	15	12	Sodic			Medium clay	7	370	2.6	Slightly Saline
	1.0							Medium clay	7	570	4.0	Slightly Saline
	1.5							Medium clay	7	410	2.9	Slightly Saline
	2.0							Sandy loam	14	430	6.0	Moderately Saline
	2.5							Sand	17	270	4.6	Moderately Saline
.	3.0							Sandy loam	14	310	4.3	Moderately Saline
28	0.5							Light medium clay	8	520	4.2	Moderately Saline
	1.0					5	No	Medium clay	7	550	3.9	Slightly Saline
	1.5							Light clay	8.5	370	3.1	Slightly Saline
	2.0							Light clay	8.5	360	3.1	Slightly Saline
	2.5							Light medium clay	8	470	3.8	Slightly Saline
.	3.0							Clay loam	9	440	4.0	Slightly Saline
29	0.5							Heavy clay	6	590	3.5	Slightly Saline
	1.0							Medium clay	7	740	5.2	Moderately Saline
	1.5							Light medium clay	8	850	6.8	Moderately Saline
	2.0							Loam	10	710	7.1	Moderately Saline
	2.5							Light medium clay	8	760	6.1	Moderately Saline
.	3.0							Clay loam	9	760	6.8	Moderately Saline

Test Bore or Pit	Sample Depth	pH	Chloride Concentration	Sulphate Concentration	Resistivity	Soil Condition	Sample Aggressivity Class				
					By inversion of EC1:5		Aggr. to Concrete - from sample pH	Aggr. to Concrete - from Sulphate conc.	Aggr. to Steel - from sample pH	Aggr. to Steel - from Chloride conc.	Aggr. to Steel - from sample Resistivity
	(m bgl)	(pH units)	(mg/kg)	(mg/kg)	Ω.cm	[AS2159-2009]	[AS2159-2009]				
30	0.5	9.1	780	570	1266	B	Non-Aggressive	Non-Aggressive	Non-Aggressive	Non-Aggressive	Mild
	1.0	9.6			2857	B	Non-Aggressive		Non-Aggressive		Non-Aggressive
	1.5	9.5			5556	B	Non-Aggressive		Non-Aggressive		Non-Aggressive
	2.0	9.5			5882	B	Non-Aggressive		Non-Aggressive		Non-Aggressive
	2.5	9.4	90	50	4545	B	Non-Aggressive	Non-Aggressive	Non-Aggressive	Non-Aggressive	Non-Aggressive
.	3.0	9.4			3030	B	Non-Aggressive		Non-Aggressive		Non-Aggressive
33	0.5	8.2			1299	B	Non-Aggressive		Non-Aggressive		Mild
	1.5	8.7	330	270	2326	B	Non-Aggressive	Non-Aggressive	Non-Aggressive	Non-Aggressive	Non-Aggressive
	2.0	5			3030	B	Mild		Non-Aggressive		Non-Aggressive
	2.5	5			2326	B	Mild		Non-Aggressive		Non-Aggressive
.	3.0	5.5			1563	B	Mild		Non-Aggressive		Mild
35	0.5	4.7	1000	330	1299	B	Mild	Non-Aggressive	Non-Aggressive	Non-Aggressive	Mild
	1.0	6.6			1235	B	Non-Aggressive		Non-Aggressive		Mild
	1.5	7.3	620	91	2222	B	Non-Aggressive	Non-Aggressive	Non-Aggressive	Non-Aggressive	Non-Aggressive
	2.0	8			1852	B	Non-Aggressive		Non-Aggressive		Mild
	2.5	6.8			1449	B	Non-Aggressive		Non-Aggressive		Mild
.	3.0	8			2500	B	Non-Aggressive		Non-Aggressive		Non-Aggressive
36	0.5	5.3			3226	B	Mild		Non-Aggressive		Non-Aggressive
	1.0	5	870	390	1370	B	Mild	Non-Aggressive	Non-Aggressive	Non-Aggressive	Mild
	1.5	4.9			1493	B	Mild		Non-Aggressive		Mild
	2.0	5.2	1200	370	1000	B	Mild	Non-Aggressive	Non-Aggressive	Non-Aggressive	Mild
	2.5	6.1			1299	B	Non-Aggressive		Non-Aggressive		Mild
.	3.0	5.8			1449	B	Non-Aggressive		Non-Aggressive		Mild
38	0.5	5.8	160	270	4000	B	Non-Aggressive	Non-Aggressive	Non-Aggressive	Non-Aggressive	Non-Aggressive
	1.0	5.8			1887	B	Non-Aggressive		Non-Aggressive		Mild
	1.5	6.7			2439	B	Non-Aggressive		Non-Aggressive		Non-Aggressive
	2.0	7.1	450	160	2632	B	Non-Aggressive	Non-Aggressive	Non-Aggressive	Non-Aggressive	Non-Aggressive
	2.5	7			1471	B	Non-Aggressive		Non-Aggressive		Mild
.	3.0	6.9			1667	B	Non-Aggressive		Non-Aggressive		Mild

Test Bore or Pit	Sample Depth	Exchangeable Sodium (Na) Concentration	Cation Exchange Capacity	Sodicity	Sodicity Class	Emerson Crumb Class Number	Dispersion?	Soil Texture Group	Textural Factor (M)	$EC_{1:5}$	EC_e	Sample Salinity Class
				[Na/CEC]			(from Emerson Class)	(for detailed soil logs see Report Appendix)		[Lab.]	[M x $EC_{1:5}$]	(Based on sample ECe)
	(m bgl)	(meq/100g)	(meq/100g)	(%)	[after DLWC]		[AS1289.3.8.1]	[after DLWC]	[after DLWC]	(microS/cm)	(deciS/m)	[Richards 1954]
30	0.5							Light clay	8.5	790	6.7	Moderately Saline
	1.0	3.7	45	8	Sodic			Sand	17	350	6.0	Moderately Saline
	1.5							Sand	17	180	3.1	Slightly Saline
	2.0							Clay loam	9	170	1.5	Non-Saline
	2.5							Sandy loam	14	220	3.1	Slightly Saline
.	3.0							Heavy clay	6	330	2.0	Non-Saline
33	0.5							Medium clay	7	770	5.4	Moderately Saline
	1.5							Medium clay	7	430	3.0	Slightly Saline
	2.0							Medium clay	7	330	2.3	Slightly Saline
	2.5							Medium clay	7	430	3.0	Slightly Saline
.	3.0							Medium clay	7	640	4.5	Moderately Saline
35	0.5							Medium clay	7	770	5.4	Moderately Saline
	1.0							Light medium clay	8	810	6.5	Moderately Saline
	1.5	4.4	14	31	Highly Sodic			Sandy loam	14	450	6.3	Moderately Saline
	2.0							Sandy loam	14	540	7.6	Moderately Saline
	2.5							Sandy loam	14	690	9.7	Very Saline
.	3.0							Sand	17	400	6.8	Moderately Saline
36	0.5							Clay loam	9	310	2.8	Slightly Saline
	1.0							Heavy clay	6	730	4.4	Moderately Saline
	1.5					5	No	Medium clay	7	670	4.7	Moderately Saline
	2.0							Heavy clay	6	1000	6.0	Moderately Saline
	2.5							Medium clay	7	770	5.4	Moderately Saline
.	3.0							Medium clay	7	690	4.8	Moderately Saline
38	0.5							Heavy clay	6	250	1.5	Non-Saline
	1.0							Medium clay	7	530	3.7	Slightly Saline
	1.5	4.5	17	27	Highly Sodic			Medium clay	7	410	2.9	Slightly Saline
	2.0							Medium clay	7	380	2.7	Slightly Saline
	2.5							Heavy clay	6	680	4.1	Moderately Saline
.	3.0							Medium clay	7	600	4.2	Moderately Saline

Test Bore or Pit	Sample Depth	pH	Chloride Concentration	Sulphate Concentration	Resistivity	Soil Condition	Sample Aggressivity Class				
					By inversion of EC1:5		Aggr. to Concrete - from sample pH	Aggr. to Concrete - from Sulphate conc.	Aggr. to Steel - from sample pH	Aggr. to Steel - from Chloride conc.	Aggr. to Steel - from sample Resistivity
	(m bgl)	(pH units)	(mg/kg)	(mg/kg)	Ω.cm	[AS2159-2009]	[AS2159-2009]				
138/	0.5	9.1			2615	B	Non-Aggressive		Non-Aggressive		Non-Aggressive
	1.0	9.5			2157	B	Non-Aggressive		Non-Aggressive		Non-Aggressive
	1.5	5			1886	B	Mild		Non-Aggressive		Mild
	2.0	4.8	28	75	1565	B	Mild	Non-Aggressive	Non-Aggressive	Non-Aggressive	Mild
	2.5	4.9			1643	B	Mild		Non-Aggressive		Mild
.	3.0	5.2			1328	B	Mild		Non-Aggressive		Mild
139/	0.5	9.6			3736	B	Non-Aggressive		Non-Aggressive		Non-Aggressive
	1.0	8.4			2793	B	Non-Aggressive		Non-Aggressive		Non-Aggressive
	1.5	9.1			2234	B	Non-Aggressive		Non-Aggressive		Non-Aggressive
	2.0	5.2	27	72	1207	B	Mild	Non-Aggressive	Non-Aggressive	Non-Aggressive	Mild
	2.5	5			1218	B	Mild		Non-Aggressive		Mild
.	3.0	5.5			1376	B	Mild		Non-Aggressive		Mild
140/	0.5	6.6			26316	B	Non-Aggressive		Non-Aggressive		Non-Aggressive
.	0.8	5.8			6061	B	Non-Aggressive		Non-Aggressive		Non-Aggressive
150/	0.5	4.9			1708	B	Mild		Non-Aggressive		Mild
	1.0	4.8			1326	B	Mild		Non-Aggressive		Mild
	1.5	4.7			1252	B	Mild		Non-Aggressive		Mild
	2.0	4.8			1258	B	Mild		Non-Aggressive		Mild
	2.5	5.2			1085	B	Mild		Non-Aggressive		Mild
.	3.0	5.9			1247	B	Non-Aggressive		Non-Aggressive		Mild
151/	0.5	9	10	29	12392	B	Non-Aggressive	Non-Aggressive	Non-Aggressive	Non-Aggressive	Non-Aggressive
	1.0	7.8			4496	B	Non-Aggressive		Non-Aggressive		Non-Aggressive
	1.5	5.1			1972	B	Mild		Non-Aggressive		Mild
	2.0	5.1			1753	B	Mild		Non-Aggressive		Mild
.	2.5	5.3			1550	B	Mild		Non-Aggressive		Mild
152/	0.5	4.9			1700	B	Mild		Non-Aggressive		Mild
	1.0	4.8			1478	B	Mild		Non-Aggressive		Mild
.	1.5	5.5			1468	B	Mild		Non-Aggressive		Mild

Test Bore or Pit	Sample Depth	Exchangeable Sodium (Na) Concentration	Cation Exchange Capacity	Sodicity	Sodicity Class	Emerson Crumb Class Number	Dispersion?	Soil Texture Group	Textural Factor (M)	$EC_{1:5}$	EC_e	Sample Salinity Class
				[Na/CEC]			(from Emerson Class)	(for detailed soil logs see Report Appendix)		[Lab.]	[M x $EC_{1:5}$]	(Based on sample ECe)
	(m bgl)	(meq/100g)	(meq/100g)	(%)	[after DLWC]		[AS1289.3.8.1]	[after DLWC]	[after DLWC]	(microS/cm)	(deciS/m)	[Richards 1954]
138/	0.5	2.5	31	8	Sodic			Loam	10	382.4	3.8	Slightly Saline
	1.0							Loam	10	463.5	4.6	Moderately Saline
	1.5							Light medium clay	8	530.3	4.2	Moderately Saline
	2.0							Light medium clay	8	638.9	5.1	Moderately Saline
	2.5							Light clay	8.5	608.8	5.2	Moderately Saline
.	3.0							Light medium clay	8	753.1	6.0	Moderately Saline
139/	0.5							Clay loam	9	267.7	2.4	Slightly Saline
	1.0							Clay loam	9	358	3.2	Slightly Saline
	1.5							Clay loam	9	447.7	4.0	Moderately Saline
	2.0							Heavy clay	6	828.8	5.0	Moderately Saline
	2.5							Heavy clay	6	821.2	4.9	Moderately Saline
.	3.0							Medium clay	7	727	5.1	Moderately Saline
140/	0.5							Heavy clay	6	38	0.2	Non-Saline
.	0.8							Heavy clay	6	165	1.0	Non-Saline
150/	0.5							Heavy clay	6	585.4	3.5	Slightly Saline
	1.0							Heavy clay	6	754.3	4.5	Moderately Saline
	1.5							Medium clay	7	798.8	5.6	Moderately Saline
	2.0							Light medium clay	8	794.6	6.4	Moderately Saline
	2.5							Light medium clay	8	921.6	7.4	Moderately Saline
.	3.0							Clay loam	9	801.8	7.2	Moderately Saline
151/	0.5	0.6	54	1	Non-Sodic	4	No	Loam	10	80.7	0.8	Non-Saline
	1.0							Heavy clay	6	222.4	1.3	Non-Saline
	1.5							Medium clay	7	507.1	3.5	Slightly Saline
	2.0							Medium clay	7	570.6	4.0	Slightly Saline
.	2.5							Medium clay	7	645.2	4.5	Moderately Saline
152/	0.5							Heavy clay	6	588.2	3.5	Slightly Saline
	1.0							Heavy clay	6	676.5	4.1	Moderately Saline
.	1.5							Medium clay	7	681.1	4.8	Moderately Saline

Test Bore or Pit	Sample Depth	pH	Chloride Concentration	Sulphate Concentration	Resistivity	Soil Condition	Sample Aggressivity Class				
					By inversion of EC1:5		Aggr. to Concrete - from sample pH	Aggr. to Concrete - from Sulphate conc.	Aggr. to Steel - from sample pH	Aggr. to Steel - from Chloride conc.	Aggr. to Steel - from sample Resistivity
	(m bgl)	(pH units)	(mg/kg)	(mg/kg)	Ω.cm	[AS2159-2009]	[AS2159-2009]				
155/	0.5	4.6			1454	B	Mild		Non-Aggressive		Mild
	1.0	4.6			1141	B	Mild		Non-Aggressive		Mild
	1.5	4.7			1004	B	Mild		Non-Aggressive		Mild
	2.0	4.7	21	58	984	B	Mild	Non-Aggressive	Non-Aggressive	Non-Aggressive	Moderate
	2.5	4.7			966	B	Mild		Non-Aggressive		Moderate
.	3.0	4.8			962	B	Mild		Non-Aggressive		Moderate
156/	0.5	9.1			9634	B	Non-Aggressive		Non-Aggressive		Non-Aggressive
	1.0	5.6			1066	B	Non-Aggressive		Non-Aggressive		Mild
	1.5	5			1272	B	Mild		Non-Aggressive		Mild
	2.0	5.3	20	54	1086	B	Mild	Non-Aggressive	Non-Aggressive	Non-Aggressive	Mild
106/	4.0	9.8			2439	B	Non-Aggressive		Non-Aggressive		Non-Aggressive
	5.0	9.4			2174	B	Non-Aggressive		Non-Aggressive		Non-Aggressive
.	6.0	9.8			2500	B	Non-Aggressive		Non-Aggressive		Non-Aggressive
108/	4.0	9.1			3704	B	Non-Aggressive		Non-Aggressive		Non-Aggressive
	5.0	8.6			2778	B	Non-Aggressive		Non-Aggressive		Non-Aggressive
.	6.0	9.3			3571	B	Non-Aggressive		Non-Aggressive		Non-Aggressive
109/	4.0	7.5			1613	B	Non-Aggressive		Non-Aggressive		Mild
	5.0	7.4			1351	B	Non-Aggressive		Non-Aggressive		Mild
.	6.0	8			2041	B	Non-Aggressive		Non-Aggressive		Non-Aggressive
110/	4.0	6.9			1053	B	Non-Aggressive		Non-Aggressive		Mild
	5.0	8.5			2273	B	Non-Aggressive		Non-Aggressive		Non-Aggressive
.	6.0	8.9			2778	B	Non-Aggressive		Non-Aggressive		Non-Aggressive

Test Bore or Pit	Sample Depth	Exchangeable Sodium (Na) Concentration	Cation Exchange Capacity	Sodicity	Sodicity Class	Emerson Crumb Class Number	Dispersion?	Soil Texture Group	Textural Factor (M)	$EC_{1:5}$	EC_e	Sample Salinity Class
				[Na/CEC]			(from Emerson Class)	(for detailed soil logs see Report Appendix)		[Lab.]	[M x $EC_{1:5}$]	(Based on sample ECe)
	(m bgl)	(meq/100g)	(meq/100g)	(%)	[after DLWC]		[AS1289.3.8.1]	[after DLWC]	[after DLWC]	(microS/cm)	(deciS/m)	[Richards 1954]
155/	0.5							Heavy clay	6	687.9	4.1	Moderately Saline
	1.0							Heavy clay	6	876.6	5.3	Moderately Saline
	1.5							Medium clay	7	996	7.0	Moderately Saline
	2.0	3.3	11	31	Highly Sodic			Medium clay	7	1016	7.1	Moderately Saline
	2.5							Heavy clay	6	1035	6.2	Moderately Saline
.	3.0							Heavy clay	6	1040	6.2	Moderately Saline
156/	0.5							Loam	10	103.8	1.0	Non-Saline
	1.0							Heavy clay	6	937.8	5.6	Moderately Saline
	1.5							Medium clay	7	786.1	5.5	Moderately Saline
	2.0							Light medium clay	8	920.8	7.4	Moderately Saline
106/	4.0							Heavy clay	6	410	2.5	Slightly Saline
	5.0							Heavy clay	6	460	2.8	Slightly Saline
.	6.0							Sandy loam	14	400	5.6	Moderately Saline
108/	4.0							Sandy loam	14	270	3.8	Slightly Saline
	5.0							Sandy loam	14	360	5.0	Moderately Saline
.	6.0							Sandy loam	14	280	3.9	Slightly Saline
109/	4.0							Medium clay	7	620	4.3	Moderately Saline
	5.0							Medium clay	7	740	5.2	Moderately Saline
.	6.0							Heavy clay	6	490	2.9	Slightly Saline
110/	4.0							Medium clay	7	950	6.7	Moderately Saline
	5.0							Heavy clay	6	440	2.6	Slightly Saline
.	6.0							Medium clay	7	360	2.5	Slightly Saline

Appendix E

NATA Reports and Chain of Custody sheets

Material Test Report

Douglas Partners
Geotechnics / Environment / Groundwater
Douglas Partners Pty Ltd
Macarthur Laboratory
18 Waler Crescent Smeaton Grange NSW 2567
Phone: (02) 4647 0075
Fax: (02) 4646 1886
Email: meregal.henakaa@douglaspartners.com.au

Accredited for compliance with ISO/IEC 17025 - Testing

Approved Signatory: Meragal Henaka Arachchi
clean lab

NATA Accredited Laboratory Number: 828

Report Number: **94616.00-1**
Issue Number: 1
Date Issued: 09/07/2020
Client: Marsden Park Developments Pty Ltd
920 Richmond Road, Marsden Park NSW 2765
Contact: Michael Gray
Project Number: 94616.01
Project Name: Proposed Industrial Development
Project Location: Lot 36, Lot 4 and Lot 5, Marsden Park
Work Request: 3062
Sample Number: MA-3062AO
Date Sampled: 26/06/2020
Dates Tested: 06/07/2020 - 08/07/2020
Sample Location: **TP151 (0.5 m)**
Material: Soil

Emerson Class Number of a Soil (AS 1289 3.8.1)		Min	Max
Emerson Class	**4 ***		
Soil Description	Gravelly CLAY - dark brown gravelly clay		
Nature of Water	Distilled water		
Temperature of Water (^{o}C)	23		
* Mineral Present	Carbonate		

Material Test Report

Report Number: **94616.00-1**
Issue Number: 1
Date Issued: 09/07/2020
Client: Marsden Park Developments Pty Ltd
920 Richmond Road, Marsden Park NSW 2765
Contact: Michael Gray
Project Number: 94616.01
Project Name: Proposed Industrial Development
Project Location: Lot 36, Lot 4 and Lot 5, Marsden Park
Work Request: 3062
Dates Tested: 06/07/2020 - 08/07/2020

Douglas Partners
Geotechnics / Environment / Groundwater
Douglas Partners Pty Ltd
Macarthur Laboratory
18 Waler Crescent Smeaton Grange NSW 2567
Phone: (02) 4647 0075
Fax: (02) 4646 1886
Email: meregal.henakaa@douglaspartners.com.au

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NATA
WORLD RECOGNISED ACCREDITATION

Approved Signatory: Meragal Henaka Arachchi
clean lab
NATA Accredited Laboratory Number: 828

Determination of EC of Soil (In-House) DP MAC2

Sample Number	Location	Depth (m)	Material	EC Value (µS/cm)
MA-3062A	TP138	0.5 m	Soil	382.40
MA-3062B	TP138	1.0 m	Soil	463.50
MA-3062C	TP138	1.5 m	Soil	530.30
MA-3062D	TP138	2.0 m	Soil	638.90
MA-3062E	TP138	2.5 m	Soil	608.80
MA-3062F	TP139	3.0 m	Soil	753.10
MA-3062G	TP139	0.5 m	Soil	267.70
MA-3062H	TP139	1.0 m	Soil	358.00
MA-3062I	TP139	1.5 m	Soil	447.70
MA-3062J	TP139	2.0 m	Soil	828.80
MA-3062K	TP139	2.5 m	Soil	821.20
MA-3062L	TP139	3.0 m	Soil	727.00
MA-3062M	TP140	0.5 m	Soil	38.00
MA-3062N	TP140	0.8 m	Soil	165.00
MA-3062O	TP145	0.5 m	Soil	307.70
MA-3062P	TP145	1.1 m	Soil	407.60
MA-3062Q	TP150	0.5 m	Soil	585.40
MA-3062R	TP150	1.0 m	Soil	754.30
MA-3062S	TP150	1.5 m	Soil	798.80
MA-3062T	TP150	2.0 m	Soil	794.60
MA-3062U	TP150	2.5 m	Soil	921.60
MA-3062V	TP150	3.0 m	Soil	801.80
MA-3062W	TP151	0.5 m	Soil	80.70
MA-3062X	TP151	1.0 m	Soil	222.40
MA-3062Y	TP151	1.5 m	Soil	507.10
MA-3062Z	TP151	2.0 m	Soil	570.60
MA-3062AA	TP151	2.5 m	Soil	645.20
MA-3062AB	TP152	0.5 m	Soil	588.20
MA-3062AC	TP152	1.0 m	Soil	676.50
MA-3062AD	TP152	1.5 m	Soil	681.10
MA-3062AE	TP155	0.5 m	Soil	687.90
MA-3062AF	TP155	1.0 m	Soil	876.60
MA-3062AG	TP155	1.5 m	Soil	996.00
MA-3062AH	TP155	2.0 m	Soil	1016.00
MA-3062AI	TP155	2.5 m	Soil	1035.00

Sample Number	Location	Depth (m)	Material	EC Value (µS/cm)
MA-3062AJ	TP155	3.0 m	Soil	1040.00
MA-3062AK	TP156	0.5 m	Soil	103.80
MA-3062AL	TP156	1.0 m	Soil	937.80
MA-3062AM	TP156	1.5 m	Soil	786.10
MA-3062AN	TP156	2.0 m	Soil	920.80

Material Test Report

Report Number: **94616.00-1**
Issue Number: 1
Date Issued: 09/07/2020
Client: Marsden Park Developments Pty Ltd
920 Richmond Road, Marsden Park NSW 2765
Contact: Michael Gray
Project Number: 94616.01
Project Name: Proposed Industrial Development
Project Location: Lot 36, Lot 4 and Lot 5, Marsden Park
Work Request: 3062
Dates Tested: 06/07/2020 - 08/07/2020

Douglas Partners
Geotechnics / Environment / Groundwater
Douglas Partners Pty Ltd
Macarthur Laboratory
18 Waler Crescent Smeaton Grange NSW 2567
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NATA
WORLD RECOGNISED ACCREDITATION

Approved Signatory: Meragal Henaka Arachchi
clean lab
NATA Accredited Laboratory Number: 828

Determination of pH of Soil (In-House) DP MAC1

Sample Number	Location	Depth (m)	Material	pH Value
MA-3062A	TP138	0.5 m	Soil	9.1
MA-3062B	TP138	1.0 m	Soil	9.5
MA-3062C	TP138	1.5 m	Soil	5.0
MA-3062D	TP138	2.0 m	Soil	4.8
MA-3062E	TP138	2.5 m	Soil	4.9
MA-3062F	TP139	3.0 m	Soil	5.2
MA-3062G	TP139	0.5 m	Soil	9.6
MA-3062H	TP139	1.0 m	Soil	8.4
MA-3062I	TP139	1.5 m	Soil	9.1
MA-3062J	TP139	2.0 m	Soil	5.2
MA-3062K	TP139	2.5 m	Soil	5.0
MA-3062L	TP139	3.0 m	Soil	5.5
MA-3062M	TP140	0.5 m	Soil	6.6
MA-3062N	TP140	0.8 m	Soil	5.8
MA-3062O	TP145	0.5 m	Soil	5.6
MA-3062P	TP145	1.1 m	Soil	5.7
MA-3062Q	TP150	0.5 m	Soil	4.9
MA-3062R	TP150	1.0 m	Soil	4.8
MA-3062S	TP150	1.5 m	Soil	4.7
MA-3062T	TP150	2.0 m	Soil	4.8
MA-3062U	TP150	2.5 m	Soil	5.2
MA-3062V	TP150	3.0 m	Soil	5.9
MA-3062W	TP151	0.5 m	Soil	9.0
MA-3062X	TP151	1.0 m	Soil	7.8
MA-3062Y	TP151	1.5 m	Soil	5.1
MA-3062Z	TP151	2.0 m	Soil	5.1
MA-3062AA	TP151	2.5 m	Soil	5.3
MA-3062AB	TP152	0.5 m	Soil	4.9
MA-3062AC	TP152	1.0 m	Soil	4.8
MA-3062AD	TP152	1.5 m	Soil	5.5
MA-3062AE	TP155	0.5 m	Soil	4.6
MA-3062AF	TP155	1.0 m	Soil	4.6
MA-3062AG	TP155	1.5 m	Soil	4.7
MA-3062AH	TP155	2.0 m	Soil	4.7
MA-3062AI	TP155	2.5 m	Soil	4.7

Sample Number	Location	Depth (m)	Material	pH Value
MA-3062AJ	TP155	3.0 m	Soil	4.8
MA-3062AK	TP156	0.5 m	Soil	9.1
MA-3062AL	TP156	1.0 m	Soil	5.6
MA-3062AM	TP156	1.5 m	Soil	5.0
MA-3062AN	TP156	2.0 m	Soil	5.3

Douglas Partners
Geotechnics / Environment / Groundwater

CHAIN OF CUSTODY DESPATCH SHEET

Project No:	94616.01	**Suburb:**	Marsden Park	**To:**	Envirolab Services
Project Name:	Proposed Open Space Development	**Order Number**			12 Ashley St, Chatswood
Project Manager:	Rod Gray	**Sampler:**	Jeremie Young	**Attn:**	Aileen Hie
Emails:	rod.gray@douglaspartners.com.au				
Date Required:	Same day ☐ 24 hours ☐ 48 hours ☐ 72 hours ☐ Standard ☑				
Prior Storage:	☐ Esky ☐ Fridge ☐ Shelved	Do samples contain 'potential' HBM?	Yes ☐	No ☐	(If YES, then handle, transport and store in accordance with FPM HAZID)

Sample ID	Lab ID	Date Sampled	Sample Type (S - soil, W - water)	Container Type (G - glass, P - plastic)	Analytes: Combo 6a	Combo 8a	Metals + PAH	Combo 3a	Chloride and sulphate					Notes/preservation
TP138-0.1	1	29/06/20	S	G		x								
TP138-0.5	2	29/06/20	S	G										hold
TP138-1.5	3	29/06/20	S	G				x						
TP138-2.0	4	29/06/20	S	G					x					
TP139-0.1	5	29/06/20	S	G	x									
TP139-0.5	6	29/06/20	S	G										hold
TP139-1.1-1.3	7	29/06/20	S	G				x						
TP139-2.0	8	29/06/20	S	G					x					
TP140-0.1	9	29/06/20	S	G	x									
TP145-0.1	10	26/06/20	S	G		x								
TP150-0.1	11	26/06/20	S	G	x									
TP151-0.1	12	26/06/20	S	G	x									
TP151-0.5	13	26/06/20	S	G					x					
TP152-0.1	14	26/06/20	S	G	x									
PQL (S) mg/kg													**ANZECC PQLs req'd for all water analytes** ☐	

Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200

Job No: 246224
Date Received: 3/7/20
Time Received: 1110
Received by: UM
Temp: Cool/Ambient
Cooling: Ice/Icepack
Security: Intact/Broken/None

PQL = practical quantitation limit. If none given, default to Laboratory Method Detection Limit

Metals to Analyse: 8HM unless specified here:

Lab Report/Reference No:

Total number of samples in container: **Relinquished by:** **Transported to laboratory by:**

Send Results to: Douglas Partners Pty Ltd **Address:** 18 Waler Cres, Smeaton Grange NSW 2567 **Phone:** **Fax:**

Signed: **Received by:** EUS JYU UMCHEM **Date & Time:** 3/7/20 1110

Douglas Partners
Geotechnics / Environment / Groundwater

246224 CM

CHAIN OF CUSTODY DESPATCH SHEET

Project No:	94616.01	**Suburb:**	Marsden Park	**To:**	Envirolab Services
Project Name:	Proposed Open Space Development	**Order Number**			12 Ashley St, Chatswood
Project Manager:	Rod Gray	**Sampler:**	Jeremie Young	**Attn:**	Aileen Hie
Emails:	rod.gray@douglaspartners.com.au				
Date Required:	Same day ☐ 24 hours ☐ 48 hours ☐ 72 hours ☐ Standard ☑				
Prior Storage:	☐ Esky ☐ Fridge ☐ Shelved	Do samples contain 'potential' HBM?	Yes ☐	No ☐	(If YES, then handle, transport and store in accordance with FPM HAZID)

Sample ID	Lab ID	Sampling Date	Sample Type (S - soil, W - water)	Container Type (G - glass, P - plastic)	Analytes: Combo 6a	Combo 8a	metals and PAH	BTEX	Chloride and sulphate					Notes/preservation
TP155-0.1	15	26/06/20	S	G	x									
TP155-2.0	16	26/06/20	S	G					x					
TP156-0.1	17	26/06/20	S	G	x									
TP156-2.0	18	26/06/20	S	G					x					
BD1	19	29/06/20	S	G			x							
TS	20		S	G				x						
TB	21		S	G			x							
TP150 0.5	22		S	- Extra received										
PQL (S) mg/kg												**ANZECC PQLs req'd for all water analytes** ☐		

PQL = practical quantitation limit. If none given, default to Laboratory Method Detection Limit

Metals to Analyse: 8HM unless specified here:

Lab Report/Reference No:

Total number of samples in container: **Relinquished by:** **Transported to laboratory by:**

Send Results to: Douglas Partners Pty Ltd **Address:** 18 Waler Cres, Smeaton Grange NSW 2567 **Phone:** **Fax:**

Signed: **Received by:** **Date & Time:**

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 246224

Client Details

Client	Douglas Partners Pty Ltd
Attention	Rod Gray
Address	96 Hermitage Rd, West Ryde, NSW, 2114

Sample Details

Your Reference	**94616.01, Proposed Open Space Development**
Number of Samples	22 Soil
Date samples received	03/07/2020
Date completed instructions received	03/07/2020

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	10/07/2020
Date of Issue	09/07/2020

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Asbestos Approved By
Analysed by Asbestos Approved Identifier: Lucy Zhu
Authorised by Asbestos Approved Signatory: Lucy Zhu

Results Approved By
Diego Bigolin, Team Leader, Inorganics
Dragana Tomas, Senior Chemist
Loren Bardwell, Senior Chemist
Lucy Zhu, Asbestos Supervisor
Manju Dewendrage, Chemist
Priya Samarawickrama, Senior Chemist

Authorised By

Nancy Zhang, Laboratory Manager

Miscellaneous Inorg - soil						
Our Reference		246224-4	246224-8	246224-13	246224-16	246224-18
Your Reference	UNITS	TP138-2.0	TP139-2.0	TP151-0.5	TP155-2.0	TP156-2.0
Date Sampled		29/06/2020	29/06/2020	26/06/2020	26/06/2020	26/06/2020
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	08/07/2020	08/07/2020	08/07/2020	08/07/2020	08/07/2020
Date analysed	-	08/07/2020	08/07/2020	08/07/2020	08/07/2020	08/07/2020
Sulphate, SO4 1:5 soil:water	mg/kg	75	72	29	58	54
Chloride, Cl 1:5 soil:water	mg/kg	28	27	10	21	20

QUALITY CONTROL: Misc Soil - Inorg						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	[NT]
Date prepared	-			06/07/2020	[NT]	[NT]	[NT]	[NT]	06/07/2020	[NT]
Date analysed	-			06/07/2020	[NT]	[NT]	[NT]	[NT]	06/07/2020	[NT]
Total Phenolics (as Phenol)	mg/kg	5	Inorg-031	<5	[NT]	[NT]	[NT]	[NT]	102	[NT]

QUALITY CONTROL: Miscellaneous Inorg - soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	[NT]
Date prepared	-			08/07/2020	4	08/07/2020	08/07/2020		08/07/2020	[NT]
Date analysed	-			08/07/2020	4	08/07/2020	08/07/2020		08/07/2020	[NT]
Sulphate, SO4 1:5 soil:water	mg/kg	10	Inorg-081	<10	4	75	72	4	100	[NT]
Chloride, Cl 1:5 soil:water	mg/kg	10	Inorg-081	<10	4	28	27	4	106	[NT]

Result Definitions

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

Quality Control Definitions

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

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 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.

Report Comments

8 metals in soil:
- The laboratory RPD acceptance criteria has been exceeded for 246224-17 for Cr. Therefore a triplicate result has been issued as laboratory sample number 246224-23.
- # Percent recovery is not possible to report due to the inhomogeneous nature of the element/s in the sample/s. However an acceptable recovery was obtained for the LCS.

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

Andrew (Fitzy) Fitzsimons

From: Aileen Hie
Sent: Monday, 6 July 2020 10:29 AM
To: Andrew (Fitzy) Fitzsimons
Subject: FW: Sample Receipt for 246224 94616.01, Proposed Open Space Development

Follow Up Flag: Follow up
Flag Status: Flagged

246224-A
Due: 13/7/20

Kind Regards,

Aileen Hie | Customer Service Coordinator | Envirolab Services Pty Ltd
(Monday to Friday 10am to 6pm)
***Celebrating 15 years of* Great Science. Great Service.**
12 Ashley Street Chatswood NSW 2067
T 612 9910 6200 **F** 612 9910 6201
E ahie@envirolab.com.au | **W** www.envirolab.com.au

View reduced sampling bottle provision for PFAS in water | **COVID-19 Update**

Please note that all samples submitted to the Envirolab Group laboratories will be analysed under the Envirolab Group Terms and Conditions. The Terms and Conditions are accessible by clicking this link

From: Rod Gray <Rod.Gray@douglaspartners.com.au>
Sent: Monday, 6 July 2020 10:14 AM
To: Aileen Hie <AHie@envirolab.com.au>
Subject: RE: Sample Receipt for 246224 94616.01, Proposed Open Space Development

Hi Aileen,

Could I please also get sodicity on samples:

- 2 – 138-0.5
- 13 – 151-0.5
- 16 – 155-2.0

Thanks

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 246224-A

Client Details

Client	Douglas Partners Pty Ltd
Attention	Rod Gray
Address	96 Hermitage Rd, West Ryde, NSW, 2114

Sample Details

Your Reference	**94616.01, Proposed Open Space Development**
Number of Samples	22 Soil
Date samples received	03/07/2020
Date completed instructions received	06/07/2020

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.

Report Details

Date results requested by	13/07/2020
Date of Issue	09/07/2020

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
Jaimie Loa-Kum-Cheung, Metals Supervisor

Authorised By

Nancy Zhang, Laboratory Manager

ESP/CEC				
Our Reference		246224-A-2	246224-A-13	246224-A-16
Your Reference	UNITS	TP138-0.5	TP151-0.5	TP155-2.0
Date Sampled		29/06/2020	26/06/2020	26/06/2020
Type of sample		Soil	Soil	Soil
Date prepared	-	08/07/2020	08/07/2020	08/07/2020
Date analysed	-	08/07/2020	08/07/2020	08/07/2020
Exchangeable Ca	meq/100g	14	36	<0.1
Exchangeable K	meq/100g	0.6	0.4	0.3
Exchangeable Mg	meq/100g	14	17	7.1
Exchangeable Na	meq/100g	2.5	0.60	3.3
Cation Exchange Capacity	meq/100g	31	54	11
ESP	%	8	1	31

Method ID	Methodology Summary
Metals-020	Determination of exchangeable cations and cation exchange capacity in soils using 1M Ammonium Chloride exchange and ICP-AES analytical finish.

QUALITY CONTROL: ESP/CEC						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date prepared	-			08/07/2020	[NT]	[NT]	[NT]	[NT]	08/07/2020	[NT]
Date analysed	-			08/07/2020	[NT]	[NT]	[NT]	[NT]	08/07/2020	[NT]
Exchangeable Ca	meq/100g	0.1	Metals-020	<0.1	[NT]	[NT]	[NT]	[NT]	102	[NT]
Exchangeable K	meq/100g	0.1	Metals-020	<0.1	[NT]	[NT]	[NT]	[NT]	102	[NT]
Exchangeable Mg	meq/100g	0.1	Metals-020	<0.1	[NT]	[NT]	[NT]	[NT]	99	[NT]
Exchangeable Na	meq/100g	0.1	Metals-020	<0.1	[NT]	[NT]	[NT]	[NT]	93	[NT]

Result Definitions

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

Quality Control Definitions

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

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 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.

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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.

Orion Consulting
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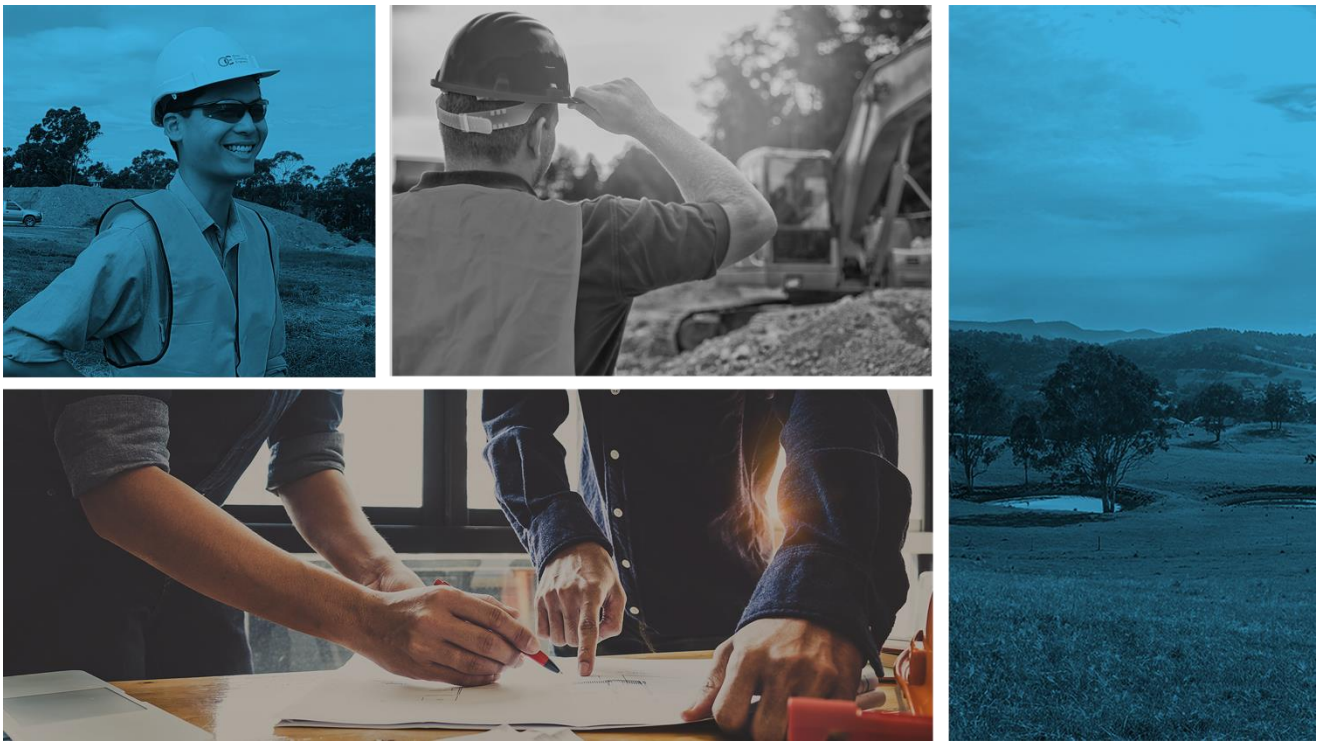
(02) 8660 0035

For Sydney Business Park

Stormwater Management and Servicing Report

Sydney Business Park – Stage 3 - Subdivision
Roads, Drainage and Basin A extension
Astoria Street, Marsden Park
Subdivision Works Certificate



February 2021 | For Sydney Business Park | Revision A

Commercial in Confidence

Contact

Orion Consulting Engineers Pty Ltd

ABN 25 604 069 981
Suite 4.04, No. 12 Century Circuit
Baulkham Hills NSW 2153

P: 02 8660 0035
E: info@orionconsulting.com.au

Prepared by:

David Healy
Senior Civil Design Engineer

Effective Date: 3 Feb 2021

Approved by:

Mariano Polisciuk
Engineering Design Manager

Effective Date: 5 Feb 2021

Document Control

Revision	Prepared	Reviewed	Approved	Date	Description	Project Reference
A	David Healy	Mariano Polisciuk	Mariano Polisciuk	5 Feb 2021	Issued for Construction Certificate Approval	20-0127-04-CC

Table of Contents

List of Figures

Executive Summary

Orion Consulting has been engaged by Sydney Business Park to prepare Civil Engineering Plans and an accompanying Stormwater Management and Servicing Report to support the Subdivision Works Certificate approval for an industrial subdivision located at Astoria Street, Marsden Park NSW.

This report outlines the site-specific strategy for managing the stormwater quantity and quality to achieve the requirements and targets set out in the Marsden Park Industrial Development Control Plan. This report also aims to communicate the utility servicing requirements and availability for the future occupants of the development.

Basin A is a regional basin proposed for delivery under Blacktown City Council's section 7.11 Contributions Plan. Basin A is being delivered by Council as part of a wider package of stormwater works for the Little Creek catchment. Council approved the Review of Environmental Factors for the works in January 2020. The concept approval is pending, subject to approval by Transgrid due to easement and stanchion locations. Basin A is located within the wider property boundary to the west of the development site and much of the development site will drain to this basin once it is constructed. Sydney Business Park is proposing to enter into an agreement with Council to partially deliver Basin A on Council's behalf (under Council's approval), which would enable the basin to be used as a temporary basin for the proposed development.

Run-off from the public roads will be treated via pit inserts (Ocean Protect OceanGuards or approved equivalent) for gross pollutant capture in the interim until the permanent Gross Pollutant Trap (GPT) upstream of the Basin A inlet and extension of Hollinsworth Road is completed. The discharge from the roads will be further treated by the raingarden located at the northern end of Basin A (upon completion).

The availability of utilities to service the site has also been investigated. Potable water supply to the development will be extended from existing mains in Hollinsworth Road and Astoria Street. The cross connection of the water supply network between Hollinsworth Road and Astoria Street via the North-South subdivision Road (Road 1) will facilitate a ringed supply in the area.

Sewer connection to Warehouse 1 is possible by two options, via either Astoria Street or South Street. Warehouses 2, 3 and 4 can be readily serviced by extending the existing sewer constructed under case number 182934WW directly south along the alignment of the north-south collector road (Road 1).

Electricity is available within 700m of the development site provided by a recently completed substation located on Hollinsworth Road. In addition to this substation, Hollinsworth Road and Astoria Street both have 11kv feeders installed in the road reserve with the provision of conduits to facilitate future feeder upgrades.

Telecommunication connection to the development will be via the NBN as there are existing pit and pipe infrastructure in the existing roads. This network is to be extended during the construction of the proposed road extension of Hollinsworth Road and the North-South Road (Road 1).

At present no gas is required as part of this application, however gas is available within the Marsden Park Industrial Precinct and can be extended on as required between the site users and Jemena.

1 Introduction

Orion Consulting has been engaged by Sydney Business Park to prepare Civil Engineering Plans and an accompanying Stormwater Management Strategy and Servicing Report to support the Subdivision Works Certificate approval for the roads and drainage within an industrial subdivision located at Astoria Street, Marsden Park NSW.

This report outlines the site-specific strategy for managing the stormwater quantity and quality to achieve the requirements and targets set out in the Marsden Park Industrial Development Control Plan and utility servicing requirements and availability for the development.

1.1 Site Description

The proposed industrial development is located over the properties Lot 4 DP 1210172, Pt 50 and 51 DP 1265695, Astoria Street, Marsden Park within the Blacktown City Council Local Government Area (LGA) and is part of the Marsden Park Industrial Precinct within North-West Growth Centre.

The total development footprint comprises of approximately 17.3 hectares in area. This report concentrates on the road and drainage required to access the future warehouses within the site. The figure below shows the existing boundary extents, proposed road extents (blue) and future warehouse locations (purple).

Figure 1 – Existing and proposed Boundary Extent - Stage 3 Sydney Business Park (Imagery courtesy of Nearmap ©)

Figure 2 shows the extent of the existing property boundaries and is zoned Industrial IN1 (General Industrial), IN2 Light Industrial and SP2 Infrastructure (Local Road) and SP2 (Local Drainage) under the State Environmental Planning Policy (Sydney Regional Growth Centre) 2006.

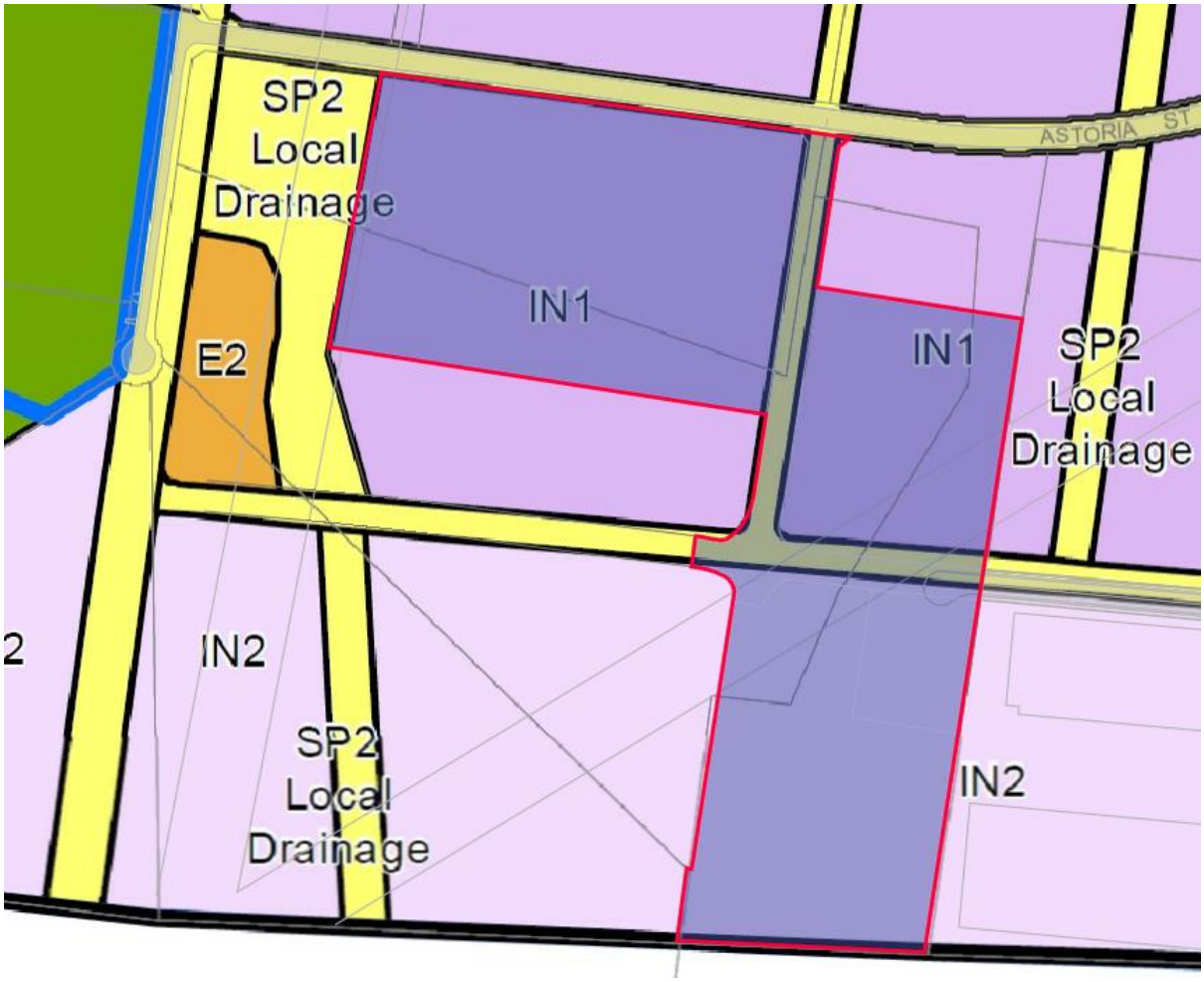


Figure 2 – Land Zoning Map, Blacktown Local Environment Plan Amendment (SRGC – North West Growth Centre)

The Stage 3 development area ('the site') incorporates warehouse allotments and road reserves. This report will primarily cover the road reserve and Basin A requirements.

The Stage 3 site extents are bordered by South Street to the west and Astoria Street to the north, open space vegetated land to the south with development under construction to the east. Hollinsworth Road intersects the property boundary at the east and will be extended through the site and will eventually tie into the South Street extension. This application proposes the extent of Hollinsworth from the east of the site to, and including, the roundabout.

The existing terrain consists of moderate grades of 2% to 3% and generally falls from east to west toward a proposed regional detention basin and South Street. The regional basin is known as 'Basin A' and a concept design has been prepared by Cardno (reference: 80218059-CI) on behalf of Blacktown City Council. A Review of Environmental Factors has been approved by Council in January, 2020, with concept approval pending, subject to Transgrid approval due to easement and stanchion locations.

Sydney Business Park is proposing to enter into an agreement with Council to partially construct the basin (under Council's approval) to aid with fulfilling the on-site detention requirements.

1.2 The Proposed Development

The development will ultimately involve the subdivision of the existing lot parcels and construction of:

- A new public collector road (Road 1) running north-south that will connect Astoria Street to Hollinsworth Road extension
- Hollinsworth Road extension towards the western boundary
- A new roundabout at the intersection of the collector road (Road 1) and Hollinsworth Road
- Four (4) industrial sites with warehouses, hardstand and landscaped areas, office space and carparks
- The regional detention basin, Basin A, in the Marsden Park Industrial Precinct Development Control Plan (under a future and separate agreement with Council)
- Associated service reticulation and augmentation

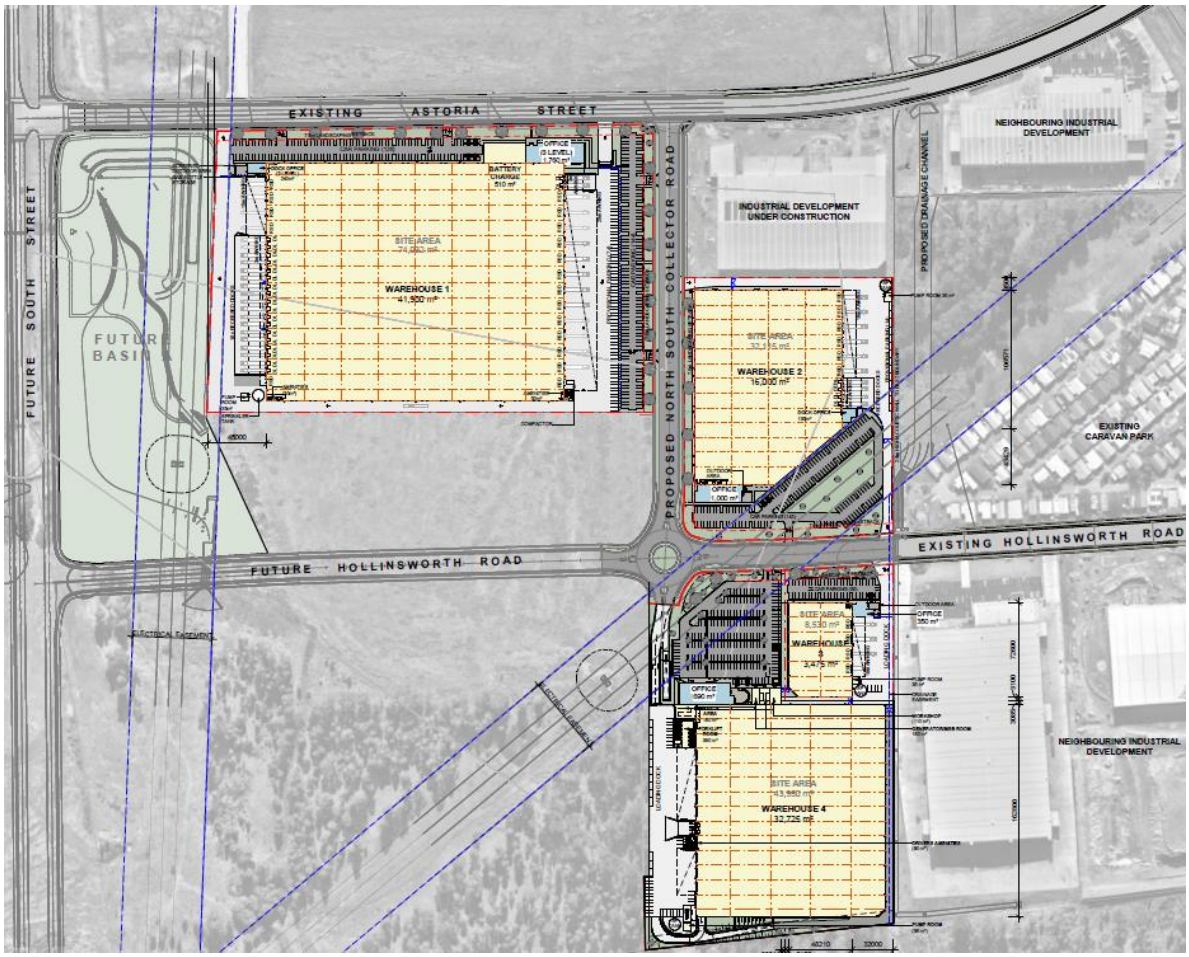


Figure 3 – Site plan by architect

The development has been designed to discharge into the regional stormwater basin 'Basin A' which will ultimately discharge into the receiving waters further downstream at Little Creek. A concept design has been prepared by Cardno for Blacktown City Council with the REF being approved by Council in January 2020.

Basin A will be partially constructed by Sydney Business Park (under Council's approval) and will be permanently developed and commissioned at a later stage in accordance with the section 94 (section 7.11) Council Contributions Plan. Basin A has been designed to cater for the permanent on-site detention requirements for the development and applicable post-development catchment as well as ultimately provide water quality treatment for the public domain roads.

1.3 Stormwater Management Objectives

The Integrated Water Cycle Management (IWCM) strategy for the Marsden Park Industrial Release Area was developed by J Wyndham Prince (JWP) in 2010, with the precinct wide stormwater management objectives adopted under the Marsden Park Development Control Plan.

2 Water Quality

The proposed public roads will be treated by pit insert GPT baskets (OceanGuard or approved equivalent) to provide treatment in the interim until the GPT proposed at Basin A is constructed. Once the GPT is constructed, the pit inserts within the public roads are to be removed.

3 On-Site Detention

The road levels and finished surface levels within the warehouse allotments have been designed with consideration for the post-development catchments determined by J.Wyndham Prince and the ultimate stormwater management strategy for the Marsden Park Industrial precinct. Both permanent and temporary on-site detention for the development will be provided through the regional basin 'Basin A', which is located to the west of the development site.

Bulk earthworks and temporary stormwater infrastructure for Basin A will be constructed by Sydney Business Park (under Council's Basin A approval), generally in-line with the concept design by Cardno undertaken on behalf of Blacktown City Council. Until Basin A is permanent, it will be used as an interim means to satisfy Council's on-site detention requirement. The Deemed to Comply spreadsheet has been used to determine the storage requirements for the overall site. The proposed roads constitute a small area of the overall site for detention purposes.

Basin A is designed (by others) to drain through a diversion line towards Stockland's Elara Development. If this connection is not available, excess runoff volume would be transferred from the little creek catchment to the Marsden Creek catchment via Basin E as per the currently approved and operating system for Basin B. This scenario is also applicable in the Interim situation when a sediment basin is in place.

The proposed roads provide a method of draining several catchments within the overall site and conveying them to the detention in Basin A. The catchment plan in Figure 4 shows the catchments draining towards and through the proposed roads and catchments bypassing the proposed roads. A small section of Road 1 bypasses Basin A and drains to the north and connects to the existing drainage in Astoria Street.

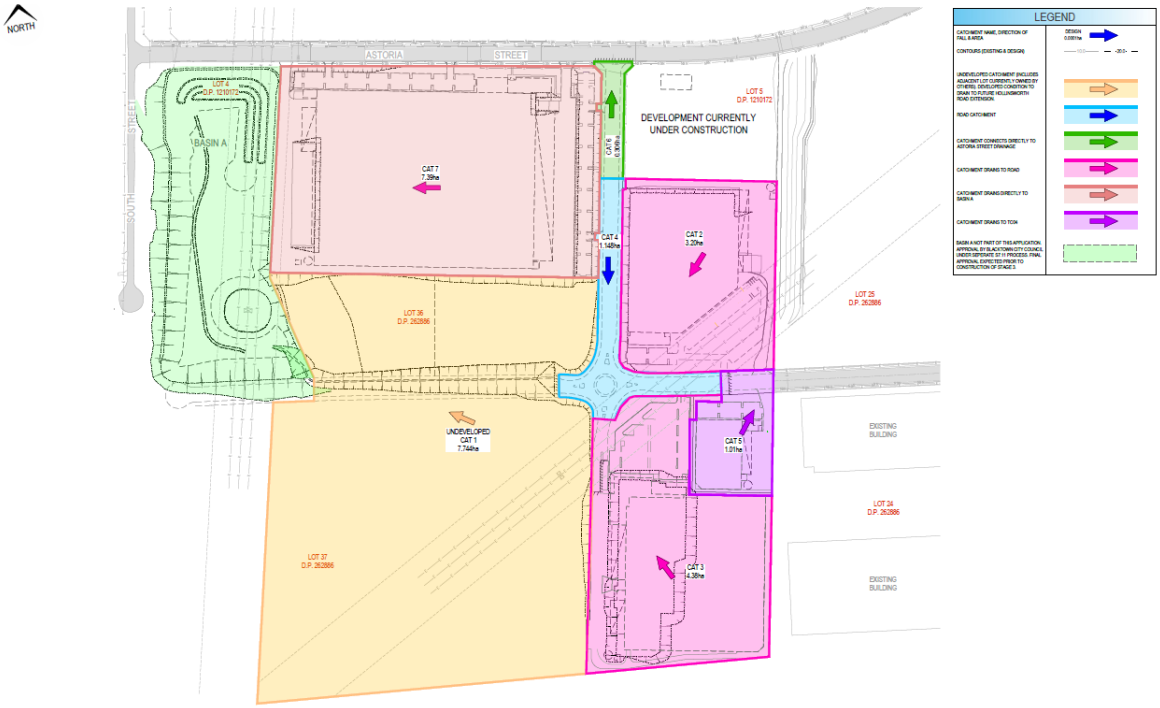


Figure 4 – Overall Catchment Plan

The catchment area draining to the Basin A detention basin is approximately 242,212m^2 including the undeveloped portion. The required volume for an interim detention basin for this development only is approximately 11,387m^3 and has been calculated using the Deemed to Comply Tool. The concept design undertaken by Cardno, reports an overall volume of 76,000m^3 which is greater than the volume required by this development. Council has provided updated DRAINS modelling for Basin A which results in an available volume of approximately 36,956m^3 at RL 40m. This volume is also larger than the required volume necessary for the development. The volume provided also considers an allowance for 42mm of dead storage over the entire catchment including the development of Sydney Business Park Stage 3.

The interim Bulk Earthworks for the overall site including Basin A is intended to be completed under a separate package of works and will be in place prior to the construction of the roads and drainage.

As part of the construction of the roads and drainage, the previous Interim Basin A earthworks will be expanded to the final footprint as per the design plans prepared by Cardno under Blacktown City Council's guidance.

The low flow pipe (line 301 between pit 301/07 and 301/13) is proposed as part of the subdivision works to facilitate the diversion of low flows from the road catchments to the future raingarden within Basin A.

The remainder of the drainage infrastructure within Basin A is to be constructed in accordance with the plans prepared by Cardno and approved by Blacktown City Council.

4 Servicing

4.1 Water Supply

The application proposes the development of four warehouses, new public roads and associated infrastructure. A requirement for the development is to employ rainwater harvesting and reuse to minimise the impact on potable water use. Water demand for warehousing is typically very low. The proposed warehouses are primarily used for the storage and transfer of containerised goods and have low potable water demands, mainly usage for staff facilities such as kitchens and toilets.

Potable water supply to the development will be extended from existing mains in Hollinsworth Road and Astoria Street. The cross connection of the water supply network between Hollinsworth Road and Astoria Street via Road 1 will facilitate a ringed supply in the area, thereby improving the security of the network. In the future, the water supply network will be extended east towards South Street and cross connected with major water supply infrastructure to be provided from Mt Druitt.

4.2 Sewer System

The proposed development will result in very low sewerage generation rates. Notwithstanding this, the Sydney Water standard sewer generation rates for the IN1 and IN2 zoning (45EP/Ha) have been adopted in the planning and design of sewerage system upgrades to service this development.

Planning and design work completed to date by Qalchek for the development site and the broader zoned wastewater catchment indicates that the existing sewer system that terminates on the southern side of Astoria Street at the intersection with South Street at an invert level of 35.04 can be extended by either:

- Option 1: running east along Astoria Street, within the site boundary of Warehouse 1 and extending South or
- Option 2: extending directly south along the future alignment of South Street.

These extensions would service Warehouse 1 and future development on the zoned land to the south.

Warehouses 2, 3 and 4 can be readily serviced by extending the existing sewer constructed under case number 182934WW directly south along the alignment of Road 1, which will be constructed as part of this application. Upgrades to the trunk sewer system by constructing the missing link of gravity sewer contemplated under case number 179024WW has been committed to by Marsden Park Developments Pty Ltd as evidenced by the recent signing of a novation deed with Sydney Water Corporation which legally commits to the construction of this infrastructure.

4.3 Electricity Supply

Marsden Park Industrial Precinct has recently had the benefit of the completion of major electricity infrastructure in the form of the South Marsden Park Zone substation located in Hollinsworth Road at Marsden Park. The Zone Substation is located 700 metres east of the subject site. The substation benefits from transmission supply at N-1 via connections to Rouse Hill and Marsden Park North Zone substations. The Zone substation currently has a firm capacity of 45MVA at N-1 and an installed capacity of 90MVA (2 x 45MVA). Current peak demand at this facility is 11MVA.

The expected demand on the network from the subject development is expected to be approximately 5.5 – 6.0 MVA. This bulk supply can be readily met by the existing zone capacity. Further Hollinsworth Road and Astoria

Street both have new underground 11KV feeders located in the road reserve together with conduits to facilitate future feeder upgrades. It is proposed that as part of the Hollinsworth Road extension and the North-South Road 1 construction, the 11KV network would be extended and cross linked between Hollinsworth Road and Astoria Street. This will improve the reliability of the 11KV network in the area by enabling back up supply during outages or if any damage occurs.

4.4 Telecommunications

The telecommunication network in the Marsden Park Industrial Precinct is gradually being completed by NBNCo. The existing network consists of a pit and pipe network constructed in all existing roads to NBN standards. This network of pits and conduits will be extended in new roads as part of the proposed construction of Hollinsworth Road extension and Road 1 construction. Fibre has been extended by NBN and Telstra in both Hollinsworth Road and Astoria Street to service existing users and it is expected that this will be readily rolled out to the new premises proposed in this application.

4.5 Gas

No gas supply is required as part of this application. However, gas supply is available within the Marsden Park Industrial Precinct and is extended on an as required basis with commercial agreements between the users and Jemena.

5 Summary

Orion Consulting has been engaged by Sydney Business Park to prepare Civil Engineering Plans and an accompanying Stormwater Management Strategy and Servicing Report to support Subdivision Works Certificate application for an industrial subdivision located at Astoria Street, Marsden Park NSW.

The construction of the roads and drainage for the development will provide connection for the future warehouses proposed within the development. The expansion of the Basin A footprint will provide Council with the basis for the completion of Basin A which will ultimately provide water quality treatment for the proposed roads when the pit inserts (OceanGuards) are removed.

An investigation into the servicing strategy and provision of utilities for the development have indicated that existing connections can be made available for the supply of potable water, wastewater removal, electricity and telecommunications. Gas is not a mandated requirement for the site, but a supply point is available to be connected into should the customers require it. Reticulation design of services will be undertaken by others during detail design phase of the warehouses.

6 References

Australian Rainfall and Runoff: A Guide to Flood Estimation, Ball J, Babister M, Nathan R, Weeks W, Weinmann E, Retallick M, Testoni I, (Editors), Commonwealth of Australia (Geoscience Australia) 2019

Blacktown City Council: "Engineering Guide for Development" 2005

Queensland Urban Drainage Design Manual, Third Edition, Queensland Government Department of Energy and Water Supply 2013

Concept Design Report – Section 94 CP21 Marsden Park Industrial Precinct – Package 1 Little Creek Tributary, Prepared by Cardno, 3 March 2020

Marsden Park Developments Pty Ltd
PO Box 262
Riverstone
New South Wales 2765

2 February 2021

Chris Ritchie
Director
Industry Assessments
Department of Planning, Industry and Environment
12 Darcy St, Parramatta NSW 2150

Dear Chris,

RE: STATE SIGNIFICANT DEVELOPMENT 20-10477 - STAGE 3 SYDNEY BUSINESS PARK ABORIGINAL CULTURAL HERITAGE MANAGEMENT PLAN

As per Condition B24 & B25 of State Significant Development Approval 20-10477, we submit the Aboriginal Cultural Heritage Management Plan to the Department of Planning, Industry and Environment for review and approval.

Should you have any queries regarding the satisfaction of this condition, please do not hesitate to contact me.

Yours sincerely
SYDNEY BUSINESS PARK

OWEN WALSH
Development Director

Stage 3 Facilities, Sydney Business Park

Aboriginal Cultural Heritage Management Plan

February 2021

Prepared by:

pjep environmental planning pty ltd, abn. 73 608 508 176
tel. 02 9918 0830
striving for balance between economic, social and environmental ideals…

PJEP Ref: ACHMP_Feb21

Prepared for:

Marsden Park Developments Pty Ltd (Sydney Business Park)
25 Harris Avenue
MARSDEN PARK NSW 2765

Together with:

Australian Pharmaceutical Industries Ltd
11 Grand Avenue
CAMELLIA NSW 2142

TJX Australia Pty Ltd
Level 3, 189 O'Riordan Street
MASCOT NSW 2020

Revision	*Date*	*Description*	*Author*	*Approved*
DRAFT	22 Dec 20	Draft for consultation	P. Jones, B.App.Sc	
FINAL	1 Feb 21	Final	P. Jones, B.App.Sc	

CONTENTS

TABLES

FIGURES

APPENDICES

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1 INTRODUCTION

Marsden Park Developments Pty Ltd (Sydney Business Park) is developing four warehouse and distribution facilities in the 'Stage 3' area of Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney (see **Figure 1**).

This Aboriginal Cultural Heritage Management Plan (ACHMP) has been prepared by PJEP Environmental Planning Pty Ltd (PJEP) on behalf of Sydney Business Park, to provide guidance on the management of Aboriginal cultural heritage during the development of the Stage 3 Facilities.

The ACHMP has been prepared with the assistance of the Project Archaeologist, Matthew Kelleher of Kelleher Nightingale Consulting (KNC), and in consultation with the Registered Aboriginal Parties (RAPs) for the development.

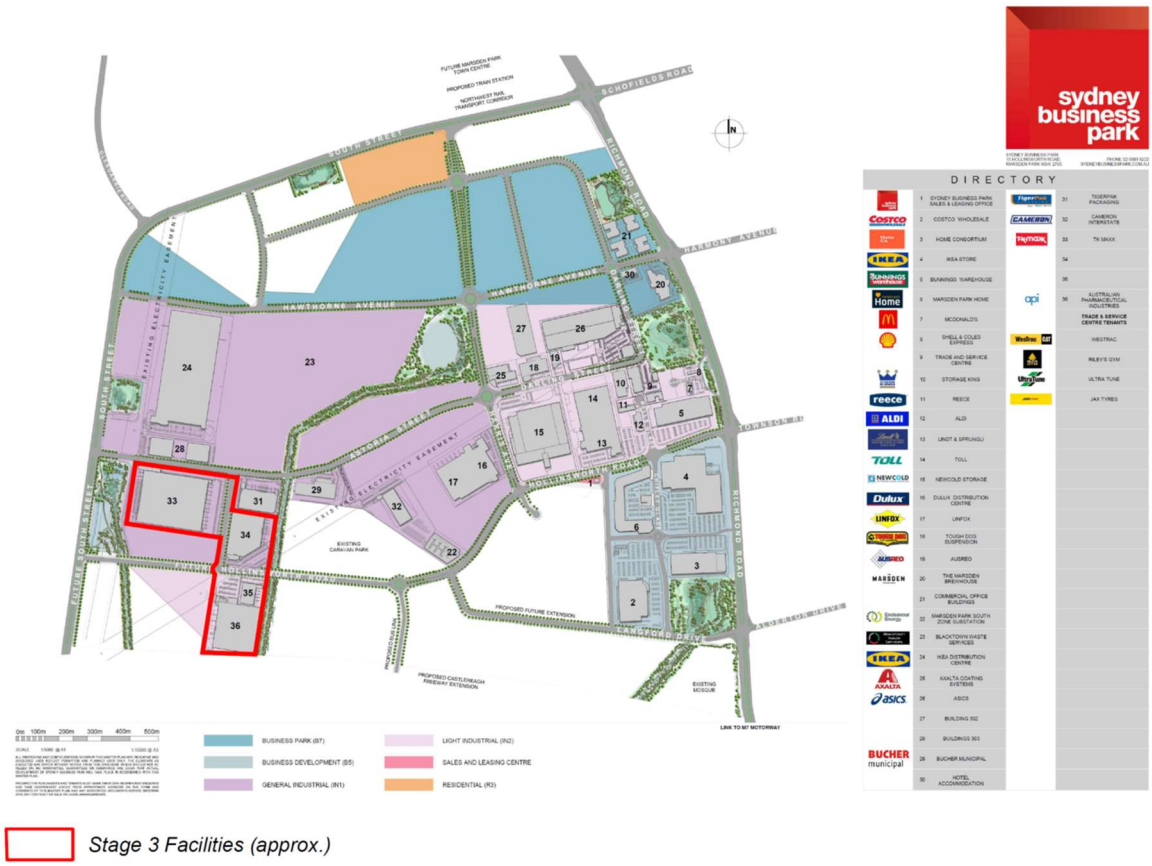

Figure 1: *Sydney Business Park Master Plan (Source: Sydney Business Park)*

1.1 Development Summary

Sydney Business Park is developing four world-class warehouse and distribution facilities within the Stage 3 area of Sydney Business Park. The development is classified as State Significant Development, and the Minister for Planning and Public Spaces (or his delegate) is the consent authority for the development.

The master plan for the Stage 3 development is shown on **Figure 2**, and the main components of the development are outlined in **Table 1**.

A full description of the development is provided in the Environmental Impact Statement (EIS) and other supporting documentation, which can be viewed on the Department of Planning, Industry and

Environment's (the Department's) website at: Sydney Business Park - Stage 3 | Major Projects - Department of Planning and Environment (nsw.gov.au).

Table 1: *Stage 3 Facilities Development Summary*

Development Summary	**Development of the Sydney Business Park Stage 3 Facilities, including:** • **subdivision;** • **vegetation clearing and earthworks;** • **construction of two estate roads and associated intersections;** • **construction and operation of four warehouse and distribution facilities, including ancillary offices; and** • **ancillary development including car parking, infrastructure provision and landscaping**
Proposed Use	Warehousing and distribution, with ancillary office. Warehouse 1 will be used for storage and distribution of TJX Australia Pty Ltd's (TJX's) range of general consumer products, including clothing, footwear, home wares, beauty products, accessories and related consumer products. Warehouses 2 and 3 will also be used for storage and distribution of general consumer products by as-yet unidentified end users. Warehouse 4 will be used for storage and distribution of Australian Pharmaceutical Industries Ltd's (API's) range of pharmaceutical and related consumer products, including pharmaceutical and therapeutic goods
Subdivision	Lots 4, 5 and 36 will be subdivided to provide seven development lots, one lot for precinct stormwater infrastructure (which will be dedicated to Council), and a lot for the proposed roads (which will also be dedicated to Council)
Clearing, Demolition and Earthworks	Vegetation clearing across the site will be undertaken to facilitate the development. Most of the site is already cleared, though there are some trees in the south-eastern part of the site. Demolition of minor site structures (mainly fencing and a small section of road) will be undertaken, along with bulk and detailed earthworks across the site to facilitate the development
Facility Development	Construction and operation of the Stage 3 Facilities, including: • Warehouse 1 (TJX Facility) – 44,560 m^2 total building area; • Warehouse 2 (unspecified end user) – 16,835 m^2 total building area; • Warehouse 3 (unspecified end user) – 3,860 m^2 total building area; and • Warehouse 4 (API Facility) – 34,201 m^2 total building area. All warehouse facilities will include attached ancillary offices. The warehousing facilities in Warehouse 4 will include a basement level and mezzanine level. Warehouses 1 and 4 will be temperature-controlled warehouses, and Warehouses 2 and 3 will be ambient-temperature warehouses
Landscaping	Implementation of site landscaping consistent with estate landscaping, including street trees in roadways and landscaping within each individual warehouse facility site
Signage	Building identification, business identification and directional signage
Hours of Operation	24 hours a day, 7 days a week
Capital Investment Value	$157.4 million (exc. GST)
Employment[1]	Construction: 670 Operation: 610

Infrastructure and Services	
Roads	Sydney Business Park will extend Hollinsworth Road to the western side of the site, and construct a new north-south collector road between Hollinsworth Road and Astoria Street, as well as constructing associated intersections. The proposal also involves construction of internal driveways, hardstand and parking for each warehouse facility
Stormwater	Development of site stormwater infrastructure will be undertaken for the facilities, draining to estate stormwater infrastructure (including existing Basin E and future Basin A).
Potable Water, Sewer, Electricity and Telecoms	Extension and connection to existing mains in Hollinsworth Road and Astoria Street and/or South Street, and reticulation through the site

1 Estimate

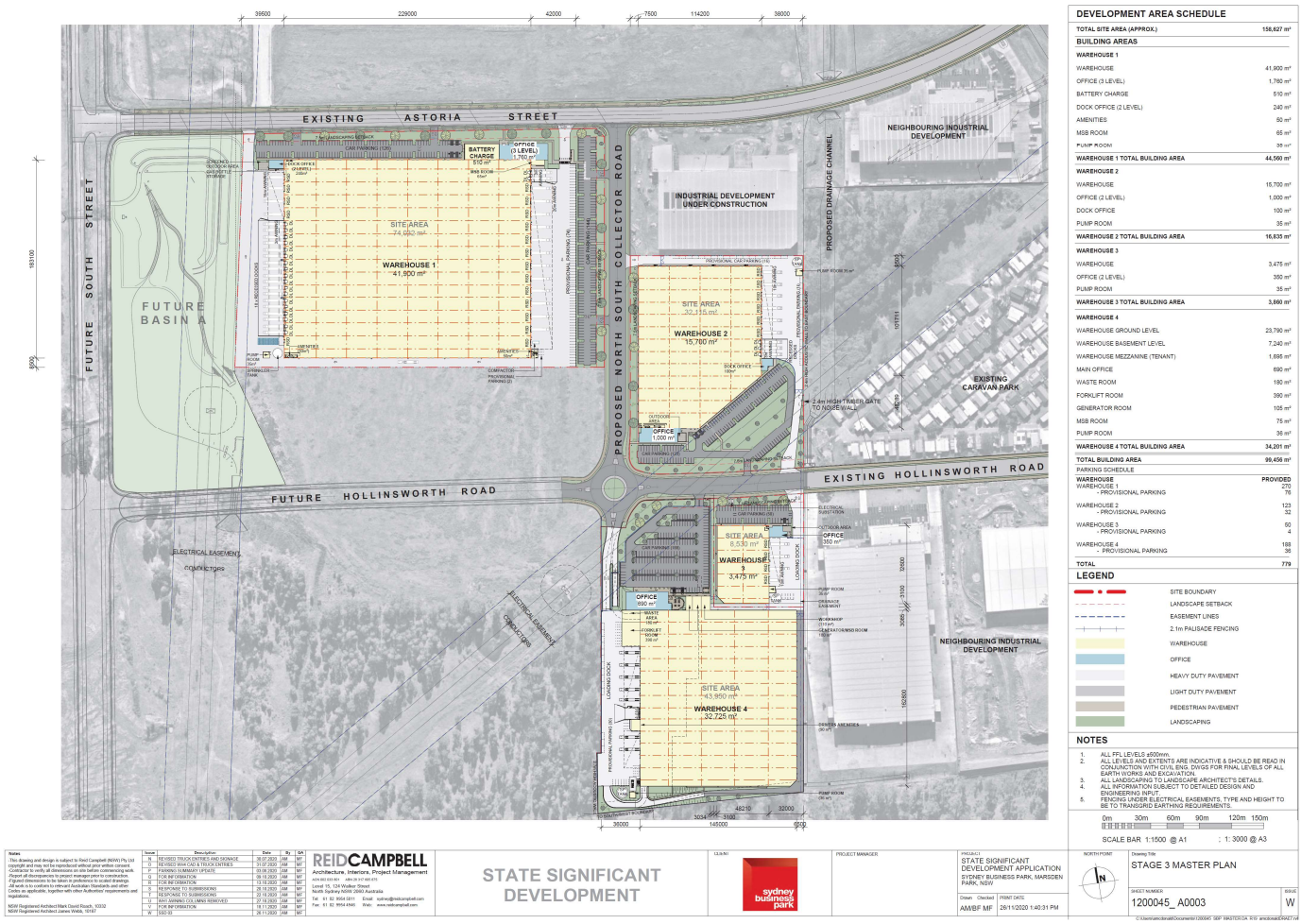

Figure 2: *Stage 3 Master Plan (Source: Reid Campbell)*

2 PURPOSE AND APPLICATION

2.1 Purpose

The purpose of this ACHMP is to describe how Aboriginal heritage will be protected and managed during the construction of the Stage 3 Facilities development.

2.2 Objectives

The key objective of this ACHMP is to ensure that Aboriginal heritage is protected and managed in accordance with the:

- EIS for the Stage 3 Facilities development, including the response to submissions documents;
- the Aboriginal Cultural Heritage Assessment (ACHA) prepared for the development (see Section 3); and
- conditions of development consent.

2.3 Targets

The following targets have been established for the management of Aboriginal heritage impacts during the development:

- Comply with the relevant legislative requirements, conditions of approval and mitigation measures;
- Follow procedures for the mitigation and management of extant Aboriginal sites and any unexpected Aboriginal sites or objects identified during the development;
- Undertake collection and management of extant sites and any additional sites or objects identified during the development, in consultation with the RAPs; and
- Provide heritage awareness training to all personnel including sub-contractors as part of the induction training before they start work onsite and in toolbox talks throughout construction.

2.4 Personnel

Environmental management of the Stage 3 Facilities site and wider Sydney Business Park is the responsibility of all Sydney Business Park employees, end-user employees, contractors and visitors to the site.

All of these stakeholders are responsible for complying with the requirements of this ACHMP, and for complying with wider legal responsibilities, including the development consent for the Stage 3 Facilities development.

Management at all levels and supervising personnel are to lead by example and set the highest standards for environmental and cultural heritage management, in accordance with the Sydney Business Park Environmental Policy and this ACHMP. They are to act immediately to correct any non-conforming condition of behaviours and promote environmental and cultural heritage awareness, good environmental housekeeping and continual improvement at every opportunity.

The key personnel and stakeholders involved in the implementation of this ACHMP include:

- *Sydney Business Park Project Managers* – who will have day-to-day responsibility to ensure that all construction and development activities are undertaken in accordance with this ACHMP, the Environmental Management Plans (EMPs) and all legal and other requirements including the development consent and for ensuring that all contractors and visitors are aware of the ACHMP and their related responsibilities;
- *Project Archaeologist* – Sydney Business Park will retain a suitably qualified archaeologist (nominated as Matthew Kelleher of KNC, or other archaeologist of similar qualification and experience) to review this ACHMP, co-ordinate the collection and management of extant

Aboriginal sites within the Stage 3 Facilities site in consultation with the RAPs, and manage any unexpected Aboriginal sites identified during the development; and

- *Registered Aboriginal Parties (RAPs)* – who will be involved in collection and management of extant Aboriginal sites within the Stage 3 Facilities site, and in the management of any unexpected Aboriginal sites or objects identified during the development.

Additional responsibilities in relation to implementation of the ACHMP are detailed in the following sections.

2.4.1 Registered Aboriginal Parties

As part of the Aboriginal heritage assessment for the development (see Section 3), Aboriginal stakeholders were invited to register an interest in a process of community consultation.

Stakeholders who registered an interest and/or who participated in the assessment are listed in the following table.

Table 2: *Registered Aboriginal Parties*

Group / Individual[1]	***Representative / Contact***
Deerubbin Local Aboriginal Land Council (LALC)	CEO
A1 Indigenous Services (A1)	Carolyn Hickey
Amanda Hickey Cultural Services (AHCS)	Amanda DeZwart
Barraby Cultural Services (BCS)	Lee Field
Butucarbin Aboriginal Corporation (BAC)	Lowanna Gibson
Darug Custodian Aboriginal Corporation (DCAC)	Justine Coplin
Dhinawan Culture and Heritage Pty Ltd (DCH)	Stephen Fields
Didge Ngunawal Clan (DNC)	Paul Boyd & Lilly Carroll
Freeman & Marx Pty Ltd (F&M)	Clive Freeman
Kamilaroi Yankuntjatjara Working Group (KYWG)	Phil Khan
Merrigarn	Shaun Carroll
Muragadi Heritage Indigenous Corporation (MHIC)	Jesse Johnson
Murra Bidgee Mullangari Aboriginal Corporation (MBMAC)	Ryan Johnson
Registered Aboriginal Stakeholder	Details Withheld
Registered Aboriginal Stakeholder	Details Withheld
Tocomwall	Scott Franks
Waawaar Awaaa Aboriginal Corporation (WAAC)	Rodney Gunther
Wailwan Aboriginal Group (WAG)	Phil Boney
Warragil Cultural Services (WCS)	Aaron Slater
Widescope Indigenous Group (WIG)	Steven Hickey
Wurrumay Pty Ltd	Vicky Slater
Yulay Cultural Services (YCS)	Arika Jalomaki
Yurrandaali Pty Ltd	Bo Field

1. Two additional Aboriginal stakeholders registered for the development but have chosen to withhold their details in accordance with item 4.1.5 of the *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010*.

This ACHMP has been prepared in consultation with the RAPs[1]. Responses were received from DCAC, DCH, MBMAC, MHIC and Tocomwall, and are attached in **Appendix B**. All of the responses apart from DCAC either supported the ACHMP or did not raise any issues. DCAC noted that it did not support the survey recommendation as it was not invited to the survey. KNC notes that DCAC was consulted (as a RAP) during the preparation of the ACHA (see **Appendix A**), and participated in the original survey in 2009 (see below). All RAPs will continue to be consulted during the implementation of the ACHMP.

3 ABORIGINAL HERITAGE ASSESSMENT

The Marsden Park Industrial Precinct has been subject to comprehensive archaeological assessments, including a precinct-wide assessment undertaken by KNC for the Department in 2009.

An additional Aboriginal Cultural Heritage Assessment (ACHA) for the Stage 3 Facilities development was prepared by KNC in September 2020, in consultation with the RAPs. The ACHA is attached as **Appendix A**.

The ACHA identified that two extant Aboriginal sites remain in the southern area of the Stage 3 Facilities site, within the footprint of the Warehouse 4 Facility. No other Aboriginal sites within the Stage 3 Facilities site are identified on the NSW Aboriginal Heritage Information System (AHIMS), or were identified during site surveys.

The two extant sites are shown on **Figure 3**, and include:

- MPIP 17 (AHIMS 45-5-3748) – comprising two stone artefacts (red silcrete); and
- MPIP 18 (AHIMS 45-5-3749) – comprising a scatter of eight stone artefacts (yellow and red silcrete).

The MPIP 17 site was identified during the original 2009 survey. The location of the site was confirmed during the 2020 survey, however the two previously recorded artefacts were not able to be relocated during the visit. The ACHA notes that the area has been subject to ongoing disturbance since the first survey.

The MPIP 18 was identified during the original 2009 survey. The artefact scatter could also not be relocated in the 2020 survey, although two additional silcrete artefacts (comprising one core and one retouched flake) were identified along an eroded vehicle access track. The ACHA notes that the area has been subject to ongoing disturbance since the first survey.

Both the MPIP 17 and MPIP 18 sites were assessed as having low archaeological significance.

The proposed development will effectively cover the entirety of the Stage 3 Facilities site and impact sites MPIP 17 and MPIP 18. Impacts to these sites are unavoidable due to the nature of the development, which requires bulk earthworks across the site to create level building pads for the warehouses.

Part of MPIP 18 lies outside the development site, and this portion of the site will not be impacted by the development (see **Figure 3**).

[1] Via email from KNC dated 23 December 2020.

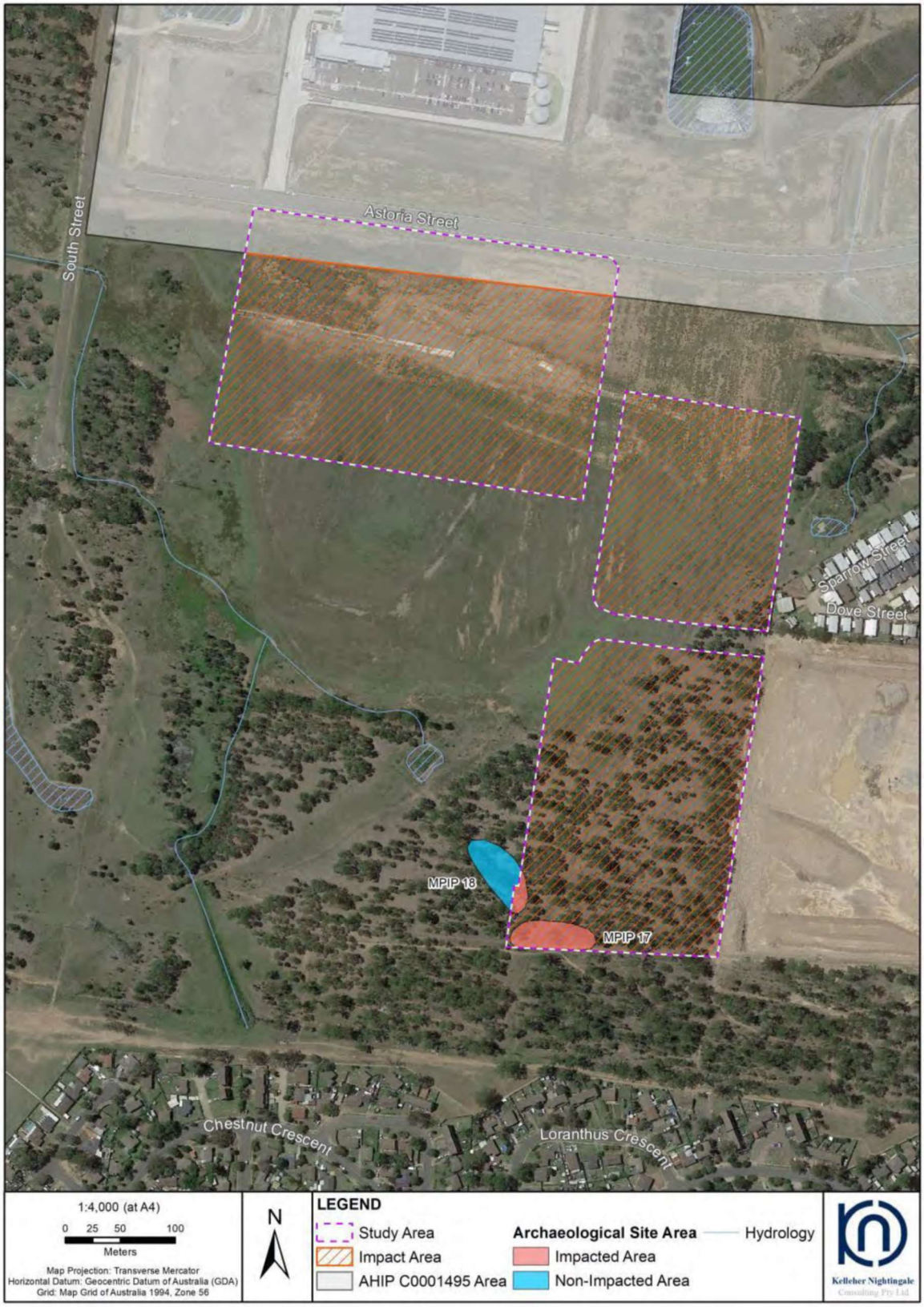

Figure 3: *Aboriginal Sites (Source: KNC)*

4 MITIGATION AND MANAGEMENT

4.1 Mitigating Harm

Consistent with the recommendations of the ACHA, the measures outlined in **Table 3** will be undertaken by Sydney Business Park to mitigate the impacts of the development on Aboriginal cultural heritage.

Table 3: *Mitigation Measures for Impacted Aboriginal Sites*

Site Name	*AHIMS Number*	*Impact Assessment*	*Assessed Significance*	*Harm Mitigation*	*When*	*Responsibility*
MPIP 17	45-5-3748	Direct / total	Low	Community collection, and subsequent management, of surface artefacts.	Prior to disturbance of MPIP 17	Project archaeologist, with RAPs
MPIP 18	45-5-3749	Direct / partial	Low	Community collection, and subsequent management, of surface artefacts.	Prior to disturbance of MPIP 18	Project archaeologist, with RAPs
				Protective fencing of non-impacted portion of site during construction	Prior to and during construction of Warehouse 4	Project Manager
				Identify non-impacted portion of site in Construction Environmental Management Plan (CEMP)	Prior to construction of Warehouse 4	Project Manager
				Include ACHMP training in site induction	Prior to and during construction of Warehouse 4	Project Manager

4.1.1 Method of Collection

Prior to any disturbance of the extant Aboriginal sites, the RAPs will be notified and provided with an opportunity to attend the site with the Project Archaeologist and collect the surface artefacts in accordance with the methodology below.

The objects and their location have been recorded as part of the assessment process (ACHA, archaeological survey and site card). Collection will involve the physical picking up of the objects and the completion of an Aboriginal Site Impact Recording Form (ASIRF).

Collection will only occur after development consent for the Stage 3 Facilities development is granted, and will occur in accordance with the development consent.

4.1.2 Management of Non-Impacted Portion of MPIP 18

Management measures will be implemented for site MPIP 18 to ensure that the non-impacted portion of site is avoided by the development and construction activities.

Management measures to be implemented include the demarcation of the non-impacted portion of MPIP 18 with protective fencing and identification of this area as an environmentally sensitive “no-go zone”.

The site will also be identified within the Construction Environmental Management Plan (CEMP) for the development. Documented toolbox talks will be held to ensure all on-site staff and contractors are aware of obligations and requirements regarding the protection of Aboriginal heritage.

4.2 Management Procedures

4.2.1 Management Policy for Aboriginal Heritage

The policy for the management and conservation of Aboriginal heritage in relation to collection activities and construction activities (or fencing, geotechnical investigations, minor clearing, establishing site compounds, adjustment to services/utilities etc.) is described below:

Responsibility for Compliance with Management Policy

1. Sydney Business Park will ensure all of its employees, contractors and subcontractors and agents are made aware of and comply with this management policy.

2. Sydney Business Park will appoint a suitably qualified and experienced Project Manager who is responsible for overseeing the activities related to this management policy.

3. Sydney Business Park will appoint a suitably qualified and experienced Project Archaeologist who is responsible for overseeing, for and on behalf of Sydney Business Park, the archaeological activities relating to the construction of the development.

Construction Constraints

4. Where the surface collection of artefacts has been nominated for the impacted site, no construction activities (or fencing, geotechnical investigations, minor clearing, establishing site compounds, adjustment to services/utilities etc.) can occur in the vicinity of the Aboriginal sites until the relevant surface collection at the nominated site has been completed.

5. Prior to the commencement of early works activity (eg. fencing, minor clearing, establishing site compounds etc.) a construction heritage site map identifying the Aboriginal site requiring the collection of surface artefacts and the Aboriginal sites to be avoided (for all sites in proximity to the project boundary) must be prepared. The construction heritage site map should be prepared to the satisfaction of Sydney Business Park.

6. All employees, contractors, subcontractors and agents carrying out early works activities (eg. fencing, minor clearing, geotechnical investigations, establishing site compounds etc) must undertake a project induction (including the distribution of a construction heritage site map) to ensure that they have an understanding and are aware of the Aboriginal heritage issues affecting the development.

Areas of Aboriginal Archaeological Sites and Objects to be Impacted

7. The areas of archaeological sites and objects identified as being impacted by construction activities are listed in **Table 3** of this plan and are in accordance with the ACHMP and any development consent.

8. No disturbance of Aboriginal sites and objects can occur before a development consent for the Stage 3 Facilities is granted, and all disturbance must be in accordance with the development consent.

Human Remains

9. This management policy does not authorise any damage of human remains.

10. If potential human remains are disturbed the Proponent must follow the procedures outlined in Section 4.3 below.

Involvement of Aboriginal Stakeholders

11. Opportunity must be provided to the RAPs to be involved in the surface collection, which will be undertaken in accordance with the methodology specified in Section 4.1.

Long-Term Care and Management of Collected Aboriginal Objects

12. Recovered Aboriginal objects will be handled in accordance with Requirement 26 "Stone artefact deposition and storage" in the *Code of Practice for Archaeological Investigation of Aboriginal Objects in NSW* as required.

Reporting Requirements

13. A written archaeological report documenting the collection must be provided to Sydney Business Park by the Project Archaeologist within a reasonable time following the completion of the archaeological program.

14. An Aboriginal Site Impact Recording Form (ASIRF) must be completed and lodged with Heritage NSW for the archaeological sites listed in **Table 3** within a reasonable time after the approved activities have been completed.

Incident Notification and Reporting

15. Incident reporting requirements in accordance with the development consent is to include Aboriginal heritage.

4.3 Procedures for Handling Human Remains

Development consents do not provide approval for the destruction of Aboriginal or non-Aboriginal human remains.

This section outlines the procedure for handling human remains in accordance with the *Skeletal Remains – Guidelines for the Management of Human Skeletal Remains under the Heritage Act 1977* (NSW Heritage Office 1998) and the *Aboriginal Cultural Heritage Standards and Guidelines Kit* (NPWS 1997).

In the event that construction activity reveals possible human skeletal material (remains), the following procedure is to be followed:

1. As soon as remains are exposed, all work is to halt at that location immediately and the Project Manager is to be immediately notified to allow assessment and management, including:
   i. stopping all activities; and
   ii. securing the site.

2. Contact Police – the discovery of human remains triggers a process which assumes that they are associated with a crime. The NSW Police retain carriage of the process until such time as the remains are confirmed to be Aboriginal or historic.

3. The Department, as the consent authority, will be notified when human remains are found.

4. Once the Police process is complete and if remains are not associated with a contemporary crime contact the Department. The Department will determine the process, in consultation with Heritage NSW as appropriate:
   i. if the remains are identified as Aboriginal, the site is to be secured and the Department and all Aboriginal stakeholders are to be notified in writing. The Department will act in consultation with Heritage NSW as appropriate. Heritage NSW will be notified in writing according to the Department's instructions; or
   ii. if the remains are identified as non-Aboriginal (historical) remains, the site is to be secured and the Department is to be contacted. The Department will act in consultation with the Heritage NSW as appropriate.

5. Once the Police process is complete and if the remains are identified as not being human, work can recommence once the appropriate clearances have been given.

4.4 Procedures for Handling Unexpected Aboriginal Objects

This section outlines the procedure for handling unexpected archaeological sites and objects.

In the event that construction activity reveals possible Aboriginal objects other than those identified in **Table 3**, the following procedure is to be followed:

1. All work is to halt at that location immediately and the Project Manager is to be immediately notified to allow assessment and management, including:
   i. stopping all activities; and
   ii. securing the site.

2. Contact the Project Archaeologist to assess the find and determine if it is consistent with the development consent:
   i. if the find is consistent, the archaeologist will allow work to continue;
   ii. if the find is inconsistent, Heritage NSW will be notified as soon as practical on 131555 providing any details of the Aboriginal object and its location. Work cannot recommence unless authorised in writing by Heritage NSW.

4.5 Procedure for Changes to the Approved Development

Sydney Business Park recognises that during the construction of the development, design alterations or other changes to the approved development may be required.

Any changes that increase the impacted area of MPIP 18 would need to be assessed as part of a modification application or other development approval under the *Environmental Planning and Assessment Act 1979*. Any such application would likely require consultation with the RAPs and applicable government authorities including Heritage NSW.

5 REVIEW

Sydney Business Park will review, and if necessary revise, this ACHMP within 3 months of:[2]

- the identification of any unexpected Aboriginal sites or objects on the site;
- the submission of any incident report required under the development consent involving Aboriginal heritage matters;
- the submission of any environmental audit reports required under the development consent involving Aboriginal heritage matters;
- the approval of any modification of the development consent; or
- the issue of a direction of the Planning Secretary of the Department which requires a review.

[2] Or as otherwise required under the development consent.

If necessary to either improve the performance of the development, cater for a modification or comply with a direction, the plans shall be revised to the satisfaction of the Planning Secretary. [3]

Where revisions are required, the revised document should be submitted to the Planning Secretary for approval within 6 weeks of the review. Any revision involving material changes to the ACHMP should be prepared in consultation with the RAPs and Heritage NSW.

[3] As required under the development consent.

APPENDIX A

STAGE 3 FACILITIES SYDNEY BUSINESS PARK
MARSDEN PARK, NSW

Aboriginal Cultural Heritage Assessment Report

Prepared for Marsden Park Developments Pty Ltd

Blacktown Local Government Area

September 2020

Ref. 1947

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Document Information

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Project Number	1947
Version	Final
Client Name	Marsden Park Developments Pty Ltd
Recipient	Michael Gray
Issue Date	30 September 2020
Prepared by	Dr Matthew Kelleher; Mark Rawson; Madeline Harding; Ben Anderson
Approved by	Dr Matthew Kelleher

Executive Summary

Marsden Park Developments Pty Ltd proposes to develop warehouse and distribution facilities in the area known as 'Stage 3' of Sydney Business Park within the Marsden Park Industrial Precinct. The study area comprises lands located in Part Lots 4 and 5 DP1210172 and Part Lot 36 DP262886 at Marsden Park in the Blacktown Local Government Area (LGA).

The project is State Significant Development (SSD-10477) and subject to approval under Part 5.1 of the *Environmental Planning and Assessment Act* 1979 (EP&A Act). Department of Planning, Environment, Industry and Environment (DPIE) approval would be required prior to any harm to Aboriginal objects. Impacts to Aboriginal heritage will be assessed in accordance with the Secretary's Environmental Assessment Requirements (SEARs) issued for the project on 24 July 2020.

To support an application for project approval, Marsden Park Developments Pty Ltd is preparing an Environmental Impact Statement (EIS) and has undertaken Aboriginal heritage assessment for the project. Kelleher Nightingale Consulting (KNC) was engaged by Marsden Park Developments Pty Ltd to assist in the preparation of an Aboriginal cultural heritage assessment report (CHAR) for Aboriginal objects that will be harmed by the proposal.

The study area has been previously assessed in a comprehensive Aboriginal heritage report for the Marsden Park Industrial Precinct (2009). The results from the current assessment are consistent with the existing 2009 cultural heritage assessment results. Background research and archaeological assessment including comprehensive field survey has identified two previously registered archaeological sites within the study area. These sites comprised two low density surface artefact scatter sites: MPIP 17 (AHIMS 45-5-3748) and MPIP 18 (AHIMS 45-5-3749). Recent archaeological field survey confirmed the findings of previous archaeological assessments undertaken across the study area. The study area has been subject to extensive and widespread landuse disturbance. Disturbed deposits were identified at both MPIP 17 and MPIP 18 site locations; despite the presence of additional artefacts recorded at MPIP18. Intensive vegetation clearance, stripping and earthmoving activities across the study area had resulted in extensive disturbance and related erosion, with limited potential for intact or significant subsurface archaeology to occur. Significance assessment completed as part of the CHAR process confirmed that sites MPIP 17 and MPIP 18 displayed little to no intact archaeological deposit and low archaeological significance.

MPIP 17 and MPIP 18 are located within IN1 and IN2 zoned lands and would be at least partially impacted by the proposed works. Mitigation for the identified impact to the sites in the form of salvage excavation is not warranted as the sites are of low archaeological significance. Similarly, non-practicable avoidance measures are not warranted for the impacted archaeology. The impacted archaeological sites are located in a disturbed landscape context and are not considered likely to retain any intact subsurface archaeological deposit. While Aboriginal objects exist within the disturbed landscape context of the study area, these offer little intrinsic scientific value, being examples of regionally common raw materials and artefact types. Surface artefact collection is recommended for both sites identified within the study area: MPIP17 and MPIP18. Surface collection would be undertaken with registered Aboriginal stakeholders.

Impact assessment determined that MPIP 18 will be partially impacted by the proposed development. Management measures must be implemented for site MPIP 18 to ensure that the non-impacted portion of the site is avoided by proposed development and construction activities. Management measures to be implemented include the demarcation of the non-impacted portion of MPIP 18 with protective fencing and identification of this area as an environmentally sensitive "no-go zone". The site will also be identified on any construction environmental managements plans (or similar), and documented toolbox talks will be held to ensure all on-site staff and contractors are aware of obligations and requirements regarding the protection of Aboriginal heritage.

The proposed works overlaps an area that has been previously assessed for its Aboriginal cultural heritage values and is covered under an existing Aboriginal Heritage Impact Permit (AHIP) held by Marsden Park Development Pty Ltd (AHIP# C0001495). Any works undertaken within the existing AHIP area must be undertaken in accordance with AHIP conditions.

Project approval will be required prior to the impacts to the following Aboriginal archaeological sites:

MPIP 17	AHIMS 45-5-3748	Total impact	Low significance
MPIP 18	AHIMS 45-5-3749	Partial impact	Low significance

This CHAR has been prepared to address the Aboriginal heritage requirements identified in the SEARs for the project. The purpose of this technical paper is to identify and assess the Aboriginal heritage impacts of the project. The CHAR complies with the Heritage NSW *Code of Practice for Archaeological Investigation of Aboriginal Objects in* NSW and *Guide to investigating, assessing and reporting on Aboriginal cultural heritage in NSW*. A consultation process has been undertaken in accordance with Heritage NSW requirements for the preparation of the CHAR.

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Tables

1 Introduction

1.1 Proponent and consultants

Marsden Park Developments Pty Ltd proposes to develop warehouse and distribution facilities in the area known as 'Stage 3' of Sydney Business Park within the Marsden Park Industrial Precinct. The study area comprises lands located in Part Lots 4 and 5 DP1210172 and Part Lot 36 DP262886 at Marsden Park in the Blacktown Local Government Area (LGA). The location of the study area is shown on Figures 1 and 2.

The project is State Significant Development (SSD-10477) and subject to approval under Part 5.1 of the *Environmental Planning and Assessment Act 1979* (EP&A Act). Department of Planning, Environment, Industry and Environment (DPIE) approval would be required prior to any harm to Aboriginal objects. Impacts to Aboriginal heritage will be assessed in accordance with the Secretary's Environmental Assessment Requirements (SEARs) issued for the project on 24 July 2020.

To support an application for project approval, Marsden Park Developments Pty Ltd is preparing an Environmental Impact Statement (EIS) and has undertaken Aboriginal heritage assessment for the project. Kelleher Nightingale Consulting (KNC) was engaged by Marsden Park Developments Pty Ltd to assist in the preparation of an Aboriginal cultural heritage assessment report (CHAR) for Aboriginal objects that will be harmed by the proposal. The proposed development area has been previously assessed in an Aboriginal heritage report for the Marsden Park Industrial Precinct (2009). The results from the current comprehensive assessment are consistent with the existing 2009 cultural heritage assessment results.

1.2 Location and scope of activity

The study area is situated in Marsden Park in Sydney, approximately 50 kilometres northwest of the Sydney CBD (Figure 1). The study area comprises lands located at Astoria Street, Marsden Park, NSW 2765. The study area is generally bound by Astoria Road to the north, private property to the east, SP2 infrastructure zoned lands to the south and South Street and private property to west (Figure 2).

The proposed physical works occur within lands zoned IN1 General Industrial, IN2 Light Industrial and SP2 Infrastructure (Local Roads) under the Marsden Park Industrial Precinct Plan. The proposed activities associated with the subdivision and development would likely include:

- Site subdivision;
- Vegetation clearing, demolition of minor structures and earthworks (including cut/fill operations);
- Construction of two estate roads and associated intersections;
- Stormwater infrastructure (including potential temporary estate basin);
- Construction and operation of four warehouse and distribution facilities; and
- Ancillary development including car parking, infrastructure provision and landscaping.

1.3 Project requirements

This CHAR has been prepared to address the Aboriginal heritage requirements identified in the SEARs for the project for the purpose of seeking project approval under Part 5.1 of the EP&A Act. The purpose of this technical paper is to identify and assess the Aboriginal heritage impacts of the project. The objectives of the CHAR combine Aboriginal community consultation with an archaeological investigation in accordance with:

- Secretary's environmental assessment requirements;
- *Code of Practice for Archaeological Investigation of Aboriginal Objects in NSW* (OEH 2010a);
- *Guide to investigation, assessing and reporting on Aboriginal Cultural Heritage in NSW* (OEH 2011); and
- *Aboriginal cultural heritage consultation requirements for proponents 2010* (OEH 2010b).

Aboriginal cultural heritage assessment for the project was designed to meet the SEARs. This included:

- Sufficient assessment of Aboriginal cultural heritage items and value of the site and surrounding area;
- Consultation with Aboriginal communities, including Deerubbin Local Aboriginal Land Council and registered Aboriginal stakeholders for the project, to assess impacts and develop mitigation measures; and
- Identification of mitigation and management measures.

Specific requirements of the SEARs in relation to Aboriginal heritage are outlined in the table below.

Table 1. SEARs for Aboriginal heritage

Secretary's Environmental Assessment Requirements	Where addressed in this document
12. Heritage – including:	
– an assessment of Aboriginal and non-Aboriginal cultural heritage items and values of the site and surrounding areas including sufficient detail that is proportional to the predicted impacts. The assessment is to be informed by any previous Aboriginal Cultural Heritage Assessment Report or other heritage assessment undertaken for the site or other projects in the surrounding area (if available), in accordance with the relevant Heritage NSW guidelines.	Sections 1-7
– justification for the level of consultation undertaken with interested stakeholders	Sections 5 and 7
– a description of any measures to avoid, mitigate, and/or manage any impacts.	Sections 8, 9 and 10

Figure 1. Study area location

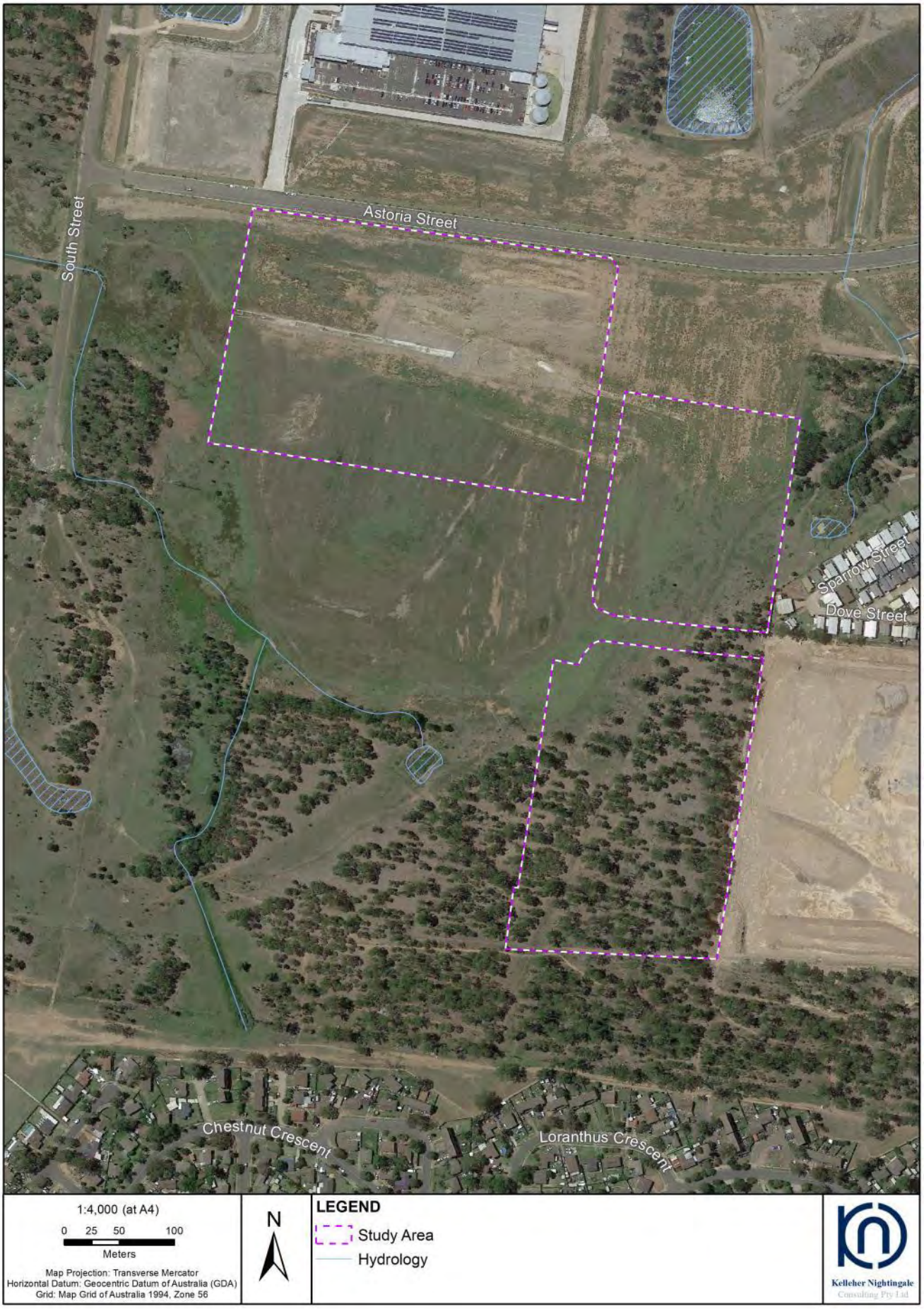

Figure 2. Detail of study area

2 Environmental Context

2.1 Landform, geology and soils

The study area is located in the north west of the Cumberland Plain, a gently undulating and generally low-lying physiographic region of the Sydney Basin. The Sydney Basin is a large geological feature that stretches from Batemans Bay to Newcastle and west to Lithgow. The formation of the basin began between 300 to 250 million years ago when river deltas gradually replaced the ocean that had extended as far west as Lithgow (Pickett and Alder 1997). The oldest, Permian layers of the Sydney Basin consist of marine, alluvial and deltaic deposits that include shales and mudstone overlain by coal measures.

The underlying geology of the study area is entirely composed of Bringelly Shale (Rwb) (Figure 3). The Bringelly Shale Formation consists of shale, carbonaceous claystone, claystone, laminate, fine to medium-grained lithic sandstone, rare coal and tuff. Underlying geology of the study area was generally composed of unsuitable raw materials for the creation of stone artefacts. However, several sources of suitable raw material for artefact production have previously been identified in St Marys Formation and Rickabys Creek Gravel geologies which are present in the general region.

Soils across the study area derive from the Berkshire Park and Blacktown soil landscapes (Figure 3). The majority of the study area comprises Berkshire Park soils, which are characterised by weakly pedal orange heavy clays and clayey sands, often mottled. Iron nodules are common throughout the profile (Bannerman and Hazelton 1989). Solods, yellow Podzolic soils, red Podzolic soils, chocolate soils, structure plastic clays and structure clays are all present within the soil profile. Berkshire Park soils are susceptible to flooding and becoming waterlogged, as well as erosion if vegetation clearance has occurred. The residual Blacktown soil landscape is developed in situ on the slopes from underlying Bringelly Shale geology and is present within the southern portion of the study area. These soils consist of shallow to moderately deep hard-setting red, brown and yellow podzolic soils. Blacktown Soils are subject to minor erosion where surface vegetation is not maintained. The soil landscape is often close to water sources and associated resources without being within flooding areas. Aboriginal objects and archaeological sites may be present in the Berkshire Park and Blacktown soil landscapes but their context and stratigraphic integrity will be variably affected by disturbance through erosion.

The topography of the study area comprises the very gentle slopes descending north and east towards an ephemeral drainage tributary of Little Creek. Little Creek flows generally north into South Creek; a major watercourse which is located approximately 4.5 kilometres northwest of the study area.

2.2 Vegetation and land use history

The distribution of native vegetation within the study area has been affected by historic and contemporary European land use practices in the region. Prior to 1788, a mixture of native vegetation communities would have extended across the entirety of the Cumberland Plain with distribution determined by a combination of factors including soil, terrain and climate. Within the locality, areas of native vegetation are predominantly classified as Shale Gravel Transition Forest. Shale Gravel Transition Forest occurs in areas with shallow deposits of tertiary alluvium overlying shale or in areas of localised iron-indurated gravel. Shale Gravel Transition Forest is characterised by a canopy dominated by *Eucalyptus fibrosa* with *E. moluccana* and *E. tereticornis* occurring less frequently, a sparse shrub stratum typically of *Bursaria spinosa*, *Daviesia ulicifolia* and *Lissanthe strigose*, and a variety of forb species (NSW National Parks and Wildlife Service 2002).

Limited native vegetation remains within the current study area with scattered regrowth Shale Plains Woodland occurring in the southern portion of the study area. Shale Plain Woodlands mostly comprises *Eucalyptus moluccana* and *E. tereticornis* and are widely distributed across the Cumberland Plain; predominantly on soils derived from the underlying Wianamatta Shale geology and in areas containing Holocene alluvial deposits (NSW National Parks and Wildlife Service 2002).

Historic and contemporary land use practices have drastically altered the landscape within and surrounding the study area. The majority of the study area has been subject to agricultural land use and vegetation clearing and/or stripping activities. Aerial photography captured in 1977 demonstrates historic vegetation stripping activities related to the installation of several transmission line corridors across the study area. Further vegetation clearance appears to have since taken place overtime for a multitude of land use management purposes. A number of large dams have been constructed throughout the area within former creek channels, altering the area's hydrology and drainage patterns.

More recent land use disturbance in the locality is related to ongoing development and construction of the Marsden Park Industrial Precinct. Road construction, utilities installation, the creation of water and water related infrastructure and the construction of warehouse facilities immediately to the north and east have contributed to further alteration of the surrounding landscape.

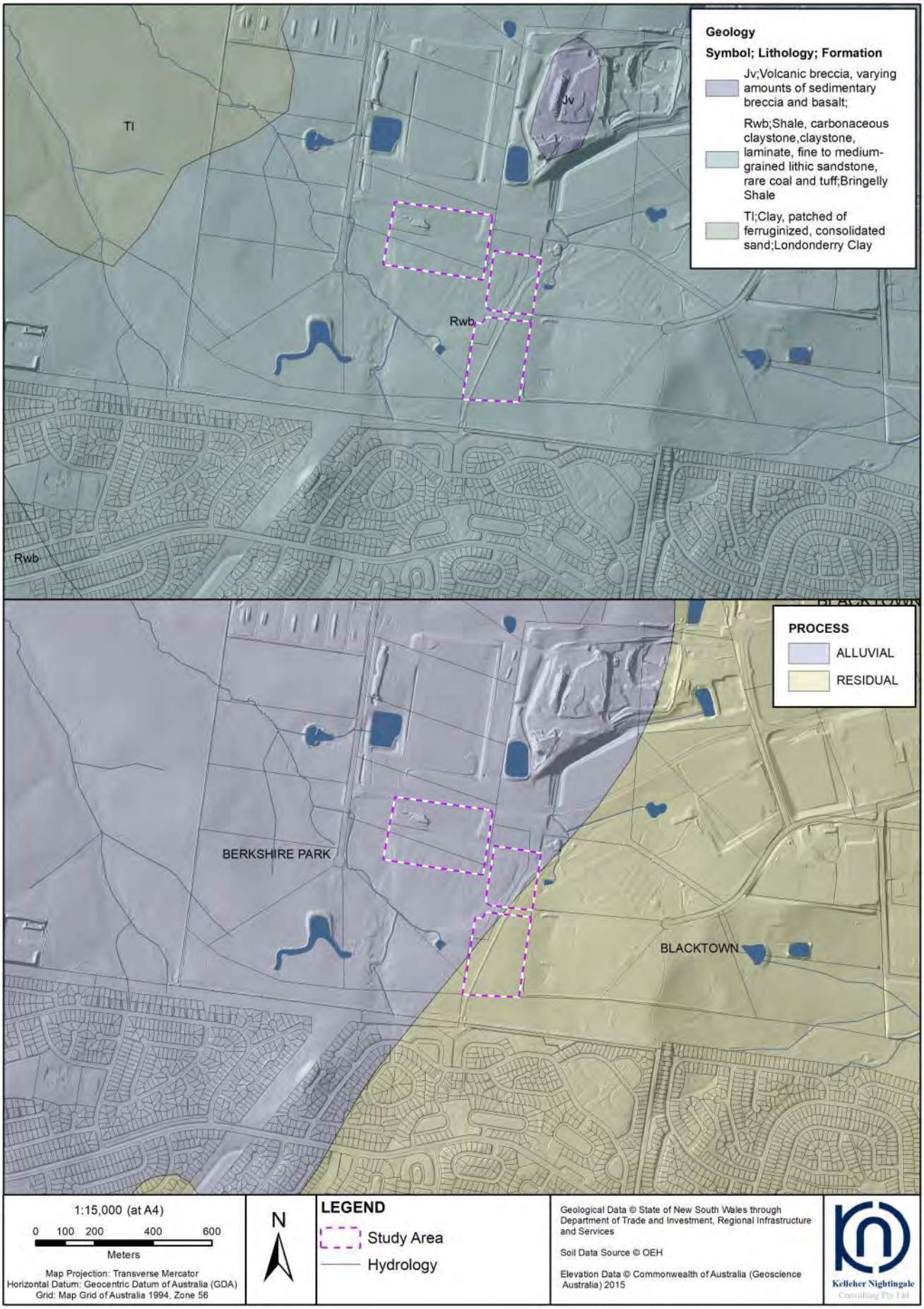

Figure 3. Geology and soil landscapes of the study area

3 Ethnohistoric context

Aboriginal people living throughout Australia at the time of European invasion belonged to a multitude of groups that spoke approximately 250 distinct languages and several hundred dialects (Walsh 1993: 1). Historical descriptions of the social organisation, culture and practices of Aboriginal people living in the Sydney region at the time of European invasion is fragmentary due to the generalised nature of early European accounts which provide vague and at times contradictory information. It should also be noted that the early British accounts are observations of Aboriginal people living in the Sydney region during the late 18th and 19th centuries and should not be used to infer the cultural practices of Aboriginal people living in the preceding millennia which are highly unlikely to have been static. The study area lies within a landscape which was important to, and intensively used by, past Aboriginal peoples (Attenbrow 2002).

The diversity of the groups living in the Sydney region was apparent to the British from their earliest interactions despite having arrived with an almost total ignorance of the land and its people. Watkin Tench, a captain-lieutenant of the marines, was part of several expeditions undertaken to explore the wider Sydney area. Tench documented that on one expedition, two Aboriginal men who had been brought from the coast as guides were unfamiliar with the area west of Rose Hill (Parramatta) (Tench 1793:117-118) and that when the men conversed with an Aboriginal man further inland "they conversed on a par and understood each other perfectly, yet they spoke different dialects of the same language; many of the most common and necessary words used in life bearing no similitude, and others being slightly different" (Tench 1793:122). David Collins, deputy judge advocate and lieutenant-governor of the colony, noted that the Aboriginal people living inland, who he referred to as the 'woods tribes', and the Aboriginal people living along the coast had different dialects, songs, dances, subsistence and some implements (Collins 1798: 557-589). Collins noted that the inland groups had spears inlaid with stones instead of oyster shell and used a type of mesh unlike the nets of the people living along the coast (Collins 1798: 589).

Tench (1793:230) noted that the inland groups 'depend but little on fish, as the river yields only millets and that their principal support is derived from small animals which they kill and some roots (a species of wild yam chiefly) which they dig out of the earth'. Along the rivers and larger creeks, bandicoots and wallabies were caught in traps and snares, while birds were snared using decoys (Collins 1798: 555; Tench 1793). The open woodland of the Cumberland Plain would have played host to possums and gliders and these likely formed a major component of the diet. These were hunted in a number of ways, including smoking out the animal by lighting a fire in the base of a hollow tree, burning large tracts of land and gathering the stranded animals, as well as cutting toe-holds in trees and climbing up to reach them (Kohen 1993:10; Tench 1793:82). Berries, Banksia flowers and wild honey were also recorded as foods of the local inhabitants (Collins 1798 [Kohen 1985:9]). A particularly important plant food was the Burrawong (Macrozamia communis), which provided a nutritious nut that was pounded and soaked in running water to leach out toxins before the flour-like extract was made into small cakes and baked over a fire (Kohen 1993:8).

The arrival of the British in 1788 began a cataclysmic series of events which radically changed the lifestyle of Aboriginal people on the Cumberland Plain. Contact with introduced diseases, such as smallpox, drastically altered the size and structure of the Aboriginal population, the expansion of settlements and establishment of farmland subsumed the traditional areas used to meet subsistence needs and successive government policies were introduced to make Aboriginal people adopt European culture, religion and lifestyle (Attenbrow 2002; Brook and Kohen 1991). British observations from the late 18th and early 19th centuries did not make reference to the Aboriginal name of the language that the 'woods tribes' they encountered spoke and it was only in the late 19th Century that the name Darug (also referred to as Daruk, Dharuk, Dharook, and Dharug) was used to refer to the language of the traditional inhabitants of the Cumberland Plain (Attenbrow 2002:33). In the early twentieth century, anthropologist/linguist R H Matthews noted that "the Dharuk speaking people adjoined the Thurrawal on the north, extending along the coast to the Hawkesbury River, and inland to what are now Windsor, Penrith, Campbelltown, and intervening towns" (Matthews 1901:155 [in Attenbrow 2002: 32]).

Further east of the study area is the Colebee and Nurragingy land grant, a thirty acre area granted to two Darug men named Colebee and Nurragingy by Governor Macquarie in 1816. It represents the first land grant to an Aboriginal person after colonisation and is a site of exceptional historical, social and Aboriginal cultural heritage significance. The land grant was a reward for the two men's assistance as guides in punitive expeditions sent by Macquarie to capture or kill Aboriginal people who had been involved in skirmishes with the British. The expansion of British settlement along the Nepean and Hawkesbury Rivers in the early nineteenth century and a period of drought during 1814-1816 saw another period of intensive conflict involving a series of raids and retaliatory killings between Aboriginal groups and settlers at Bringelly, Appin and along the Nepean and Hawkesbury Rivers. Many officials, including the then Governor Lachlan Macquarie, often recognised that these conflicts were initiated by the settlers; however, in 1816, Macquarie issued a proclamation that banned Aboriginal people from carrying weapons, banned traditional customs relating to punishment and limited the number of Aboriginal people allowed to gather within the colony (Campbell 1816: 1). The proclamation also stated Macquarie's intention to change how the Aboriginal people of the Cumberland Plains lived and encourage them to adopt the lifestyle of the British (Campbell 1816: 1).

In addition, punitive expeditions were dispatched to capture or kill those Aboriginal people involved in the conflict (Brook and Kohen 1991:23). Three groups of soldiers were sent from Sydney to Cowpastures, the Airds and Appin district and to Parramatta, Windsor, the Grose and the banks of the Nepean respectively (Brook and Kohen 1991: 23). Several Aboriginal guides took part in the punitive expeditions, including Colebee and Nurragingy. Brook and Kohen (1991: 34) note that of the three punitive expedition parties sent out, the two with Aboriginal guides did not make any significant contact with Aboriginal groups, whereas the one party without Aboriginal guides did, leading to the suggestion that the Aboriginal guides were 'cunningly and successfully shielding their "wild" compatriots'. Nevertheless, Colebee and Nurragingy were invited to select a parcel of land as a reward for their assistance.

The actual location of the grant within the District of Bathurst was selected by Colebee and Nurragingy. Brook and Kohen (1991: 44-45) suggest that they chose this location based on its proximity to the abundant raw materials located at Plumpton Ridge and proximity to the important watercourses of Eastern Creek and Bells Creek. These features would have been significant to local Aboriginal groups at the time (Brook and Kohen 1991). The grant was registered in 1819 with only Colebee's name (Brook and Kohen 1991: 38). Colebee did not stay long on the grant, instead becoming a constable at Windsor in 1822, before marrying an Aboriginal girl called Kitty from the Black Town. The 'Colebee and Nurragingy Land Grant' is listed on the State Heritage Register (SHI 01877) and has been recorded as a Potential Archaeological Deposit (PAD) on the AHIMS database.

Located opposite the Colebee and Nurragingy Land Grant heritage item is the Blacktown Native Institution site. The site is located 2.5 kilometres south east of the current study area and is of historical, social and cultural significance to the contemporary Aboriginal community. The Native Institution was established by Governor Macquarie in the early years of the nineteenth century as a residential school for Aboriginal children and Reserve. In addition to the schoolhouse, residence, kitchen and stables, the Reserve had both a garden and a stockyard with 22 head of cattle. Water was gathered from Bells Creek, (then called Gidley Chain of Ponds) which bisected the area, the only supply for all fresh water needs. The site was one of the earliest schools for Aboriginal children in the colony, operating between 1823 and 1829. From 1822 onwards, historical records also indicate that a number of Aboriginal people were present in the area, and were camping along Bells Creek in order to remain near their children who were in the Institution (Bickford 1981:15). The site is especially important as a place of early and sustained cross-cultural engagement between the British and Aboriginal people, particularly in the context of educational and missionary programs reflecting the British desire to 'civilise' the Indigenous people. The Blacktown Native Institution is a registered contact/mission site listed on the NSW State Heritage Register (SHI 01866).

The value of the Marsden Park area and surrounds to both the past and the present Aboriginal community is underscored by the presence of two important places of post-European settlement history: the Colebee and Nurragingy Land Grant and the Blacktown Native Institution. Aboriginal culture endures to this day across the Cumberland Plain and has influenced many aspects of Australian culture including in the names of animals, localities, creeks and rivers (Walsh 1993). Members of the contemporary Aboriginal community continue to experience connection with the area through cultural and family associations.

4 Archaeological context

4.1 Database searches (AHIMS) and known information sources

4.1.1. AHIMS web services

The Aboriginal Heritage Information Management System (AHIMS) is a database operated by Heritage NSW and regulated under section 90Q of the *National Parks and Wildlife Act 1974*. AHIMS contains information and records pertaining to registered Aboriginal archaeological sites (Aboriginal objects, as defined under the Act) and declared Aboriginal places (as defined under the Act) in NSW.

A search of AHIMS was conducted on 21 July 2020 to identify registered (known) Aboriginal sites or declared Aboriginal places within or adjacent to the study area (AHIMS Client Service ID: 521834). The AHIMS search results are attached as Appendix C.

The AHIMS Web Service database search was conducted within the following coordinates (GDA, Zone 56):

Eastings:	297387 – 299192
Northings:	6265766 – 6267406
Buffer:	0 metres (coordinates included a buffer around the study area)

The AHIMS search results showed:

32	**Aboriginal sites are recorded in or near the above location**
0	**Aboriginal places have been declared in or near the above location**

The distribution of recorded Aboriginal sites within these coordinates is shown on Figure 4. The frequencies of site types within the AHIMS database search area are listed in Table 2.

Table 2. Site features and context from AHIMS database search

Site Context	Site Feature	Number	*Frequency (%)*
Open	Artefact	31	*96.9*
	Potential Archaeological Deposit	1	*3.1*
Total		***32***	***100***

AHIMS records and site information show that there are two previously registered sites (AHIMS 45-5-3748 & 45-5-3749) located within the study area. Seven registered AHIMS sites have also been destroyed according to the AHIMS search results.

4.1.2. Other heritage registers and databases

A search was undertaken of the following statutory and non-statutory heritage registers for Aboriginal heritage items:

- Blacktown Local Environment Plan (LEP) 2015
- Sydney Water Heritage Register
- Roads and Maritime Heritage Register
- State Heritage Register and State Heritage Inventory
- Commonwealth Heritage List
- National Heritage List
- Australian Heritage Database
- Australian Heritage Places Inventory and
- Register of the National Estate - note the Register was closed in 2007 and is no longer a statutory list. It is maintained on a non-statutory basis as a publicly available archive and educational resource.

No Aboriginal archaeological sites or Aboriginal heritage items were recorded on these databases within the study area.

Figure 4. AHIMS search results

4.2 Previous archaeological investigations

Several Aboriginal heritage assessments have been undertaken for large scale development projects and precinct planning in Marsden Park and neighbouring suburbs. Previous archaeological investigations have been undertaken bordering and within the current study area. The pertinent studies as they relate to the study area are discussed in this chapter.

Marsden Park Industrial Precinct

The current study area has been previously assessed as part of a comprehensive Aboriginal heritage assessment undertaken for the Marsden Park Industrial Precinct (MPIP) in 2009. This existing Aboriginal cultural heritage assessment was completed in accordance with the Growth Centres Commission (GCC) *Precinct assessment method and Protocol for Aboriginal heritage assessment* and *Aboriginal community consultation and stakeholder involvement*. Following completion of the GCC assessment, a number of Aboriginal Heritage Impact Permits (AHIPs) issued under Section 90 of the National Parks and Wildlife Act 1979 have since been granted for various developments within the Marsden Park Industrial Precinct, resulting in the removal of some previously identified Aboriginal archaeological sites in proximity to the current study area.

The MPIP assessment area was generally bound by South Street to the north and west, Bells Creek to the east and the suburbs of Bidwell and Hassall Grove to the south. The area also incorporated some smaller land parcels to the east of Bells Creek and west of South Street. The assessment included the entirety of the current study area.

The assessment encompassed an archaeological survey and desktop review of previous investigations, the environmental context and ethno-historical background of the area. A full and detailed Aboriginal community consultation program was also completed as part of the GCC assessment. A total of 63 archaeological sites, one area of high cultural significance (Colebee and Nurragingy's Land Grant) and four potential archaeological deposits were identified within the assessment area. Sites identified generally comprised artefact scatters and isolated finds. Artefacts types identified at these sites were predominantly proximal, medial and distal flakes and flaked pieces. Several cores were also recorded. The predominant artefact raw material was silcrete, with occasional occurrences of chert, tuff, quartz, petrified wood and other raw materials. Naturally fractured silcrete was also observed across the assessment area and at site locations.

Four areas of PAD were assessed as demonstrating potential for subsurface archaeological deposits due to: their relatively stable soil profiles, relative elevation, moderate slope, proximity to water and proximity to known archaeological sites. PAD areas were assessed as demonstrating moderate archaeological potential. Analysis of the spatial distribution of the artefact scatters determined that 31 of the archaeological sites were located within 12 distinct concentrations with lower levels of disturbance and moderate to high heritage significance. The remaining 32 archaeological sites were found in disturbed contexts and were assessed as having low heritage significance.

Two Aboriginal archaeological sites identified as a result of the MPIP assessment were identified within the current study area. These include sites MPIP 17 (AHIMS 45-5-3748) and MPIP 18 (AHIMS 45-5-3749). Site MPIP 17 consisted of a low density artefact scatter containing two red silcrete flaked pieces identified on a gentle slope landform along the southern boundary of the current study area. Site MPIP 18 consisted of an artefact scatter containing six red and yellow silcrete flaked pieces and two complete flakes recorded along the south western boundary of the current study area. The site was recorded across a gentle slope landform. Both Aboriginal sites were identified as displaying some (low) archaeological significance based upon site frequency and disturbance assessment. The MPIP assessment recommended that a Section 90 Consent should be obtained for sites of some (Low) archaeological significance prior to the commencement of any works affecting these sites.

South Street, Marsden Park

An archaeological survey was undertaken for Lots 37 to 42, DP 262886 at South Street, Marsden Park in 1996 (AMBS 1996). The assessment included lands bordering the southwestern portion of the current study area. The surveyed area encompassed approximately 20 hectares located on the western side and southern end of South Street. The survey identified a total of seven Aboriginal archaeological sites comprising four low density surface artefact scatters and three isolated artefacts. One site of low archaeological significance SROS5; (AHIMS 45-5-2384) recorded during the survey was located within proximity to the western boundary of the current study area. The Aboriginal sites were predominantly located on crest landforms and within the northern portion of the assessment area in the vicinity of the unnamed northeast flowing creek. The majority of artefacts identified were made from silcrete, while one chert broken flake was also recorded. The artefact assemblage predominantly consisted of flakes, broken flakes and flaked pieces with one scraper and one backed blade also identified. Significance assessment identified that four of the seven sites were of low archaeological significance and did not require further archaeological assessment. Three sites were determined to have potential for subsurface archaeological deposit with a program of subsurface investigation recommended prior to any impacts.

Sydney Business Park – Marsden Park Industrial Stage 3.01

Archaeological assessment was undertaken for lands known as Marsden Park Industrial Stage 3.01 within the Sydney Business Park at Marsden Park (KNC 2015). The assessment included the preparation of a CHAR, a process of Aboriginal community consultation and a limited test excavation program. The assessment overlaps a portion of the current study area Testing was undertaken at site MPIP23 (includes MPIP 23A) (AHIMS 45-5-3756), a previously identified isolated find with PAD. Testing was undertaken to determine the nature and extent of the deposit at this site location. Three artefacts were recovered from 23, 50x50 centimetre test squares excavated across the site. The artefacts were recovered from three separate squares and consisted of one silcrete proximal flake fragment, one tuff proximal flake fragment and one tuff medial flake fragment. The site was found to be disturbed, with poor soil integrity and impacts from previous easement construction and maintenance activities, agricultural practice and natural erosional processes present.

The assessment identified three valid Aboriginal archaeological sites (comprising five AHIMS registrations) within the proposed works area. The sites consisted of MPIP22 (includes MPIP22A) (AHIMS 45-5-3754 & 45-5-3755), MPIP23 (includes MPIP23A) and MP 12 Marsden Park (AHIMS45-5-2040). Three additional AHIMS registered sites had been destroyed by previous quarrying works and were listed as destroyed on the AHIMS database. Significance assessment determined that sites MPIP 23 (includes MPI23A) and MP 12 Marsden Park were of low archaeological significance, with no further archaeological mitigation required. Site MPIP22 (includes MPIP 22A) was determined to have moderate archaeological potential, with mitigation measures including archaeological salvage excavation prior to the commencement of works. AHIP #C0001495 was granted for the project on 12 November 2015 and covers a portion of the current study area (see Figure 1). MPIP22 (includes MPIP 22A) was subsequently subject to salvage works which recovered a low density, disturbed subsurface archaeological deposit. All five AHIMS registrations have since been destroyed on the AHIMS database in accordance with AHIP conditions.

Marsden Park Industrial Precinct S94 Stormwater Infrastructure Works, Package 1

Eco Logical Australia Pty Ltd undertook archaeological investigations for proposed stormwater infrastructure related to the Marsden Park Industrial Precinct and included lands adjacent to the western and southern portions of the study area. The assessment included archaeological field survey, a test excavation program, a process of community consultation and the preparation of a CHAR (Eco Logical Australia Pty Ltd 2017). Archaeological survey undertaken for the project identified two newly recorded low density artefact scatter sites: Glengarrie Rd 1 (AHIMS 45-5-4900) and South St 1 (AHIMS 45-5-4904). Newly recorded site South St 1 was determined to be located outside of the assessment area. Archaeological survey revealed that the majority of the assessment corridor contained low to nil archaeological potential and had been subject to disturbance by current land use activities related to dam construction, oval equestrian training tracks, tree clearance, bulk earthworks activities, grading and levelling activities and road culvert construction.

Subsequent archaeological test excavation was undertaken across the project area and encompassed locations associated with four previously identified sites (three previously identified surface scatters and one registered PAD area). The testing program identified archaeological deposit at four site locations. A total of 102 artefacts were identified across 59, 50x 50cm test squares excavated across the project area. Artefacts consisted primarily of flakes and angular fragments (30%). Smaller numbers of split flakes, flake fragments, cores and core fragments were also recorded. One silcrete retouched flake and one medial flake fragment displaying evidence of usewear were among the artefacts recovered. The primary raw material type identified was silcrete (n=74), followed by lesser numbers of quartz (n=16) and tuff (n=12). Site Glengarrie Rd 1 (AHIMS 45-5-4900) was the highest density site, with 45 artefacts recovered. The site was located within the northern portion of the project corridor and was found to contain an intact archaeological deposit revealing the presence of a probable knapping event. Test excavation at site MPIP 21 (includes MPIP 21A) (AHIMS 45-5-3752 & 45-5-3753) identified a subsurface archaeological deposit containing 40 artefacts; 23 of which were recovered from one test square and surrounding expansion test squares. Both Glengarrie Rd 1 and MPIP 21 (includes MPIP 21A) were determined to have moderate archaeological significance with further investigations likely to contribute to an understanding of the Aboriginal landscape in the region. The remaining four valid sites (including nearby site MPIP PAD 3 (AHIMS 45-5-4620)) within the assessment area were found to be of low archaeological significance; having been subject to severe disturbance. These sites contained low to nil further archaeological potential.

Lot 2 DP1233067 and Lot 37 DP 262886 at 38 South Street, Marsden Park

OzArk Environment & Heritage recently undertook Aboriginal cultural heritage assessment of Lot 2 DP1233067 and Lot 37 DP 262886 at 38 South Street, Marsden Park (OzArk Environment & Heritage 2019). The project area borders the current study area immediately to the south and west. The assessment included a due diligence assessment with visual inspection, a review of previous archaeological investigations within the assessment area, a process of community consultation and significance and impact assessment of the proposed works formulated within a CHAR.

A total of five previously recorded Aboriginal archaeological sites (comprising six AHIMS registrations) were identified within the assessment area. These comprised AHIMS sites: South St 1 (AHIMS 45-5-4904), SROS5 (AHIMS 45-5-2384), MPIP PAD 3 (AHIMS 45-5-4620), MPIP 21 (includes MPIP 21A) (AHIMS 45-5-3752 & 45-5-3753) and MPIP 20 (AHIMS 45-5-3751).

The overall archaeological assessment confirmed the findings of previous studies (AMBS 1996; KNC 2009; Eco Logical 2017a) undertaken within the assessment area. One additional isolated artefact was identified during an Aboriginal Focus Group (AFG) meeting held onsite during the course of the project. The site was subsequently registered on AHIMS as a silcrete flaked piece (AHIMS 45-5-5217) and included in the proceeding assessment.

The assessment area was found to have been subject to moderate to high levels of disturbance consistent with impacts related to agricultural land use practices. Significance assessment confirmed that five of the six sites were of low archaeological significance, representing commonly occurring site types within the local area, with little potential for further intact subsurface deposits. Community consultation undertaken for the project determined that all sites within the assessment area were identified as having high social and cultural value for the contemporary Aboriginal community given their locations between Bells Creek and Eastern Creek. MPIP 21 (includes MPIP 21A) was confirmed to display moderate archaeological significance, with further archaeological salvage likely to contribute a greater understanding of Aboriginal landscape use in the region.

It was determined that five of the six sites would be impacted by the proposal; MPIP 21 (includes MPIP 21A) was not to be impacted, based upon its location within E2 zoned lands. Recommended mitigation measures for impacted sites included surface collection at AHIMS sites 45-5-4904, 45-5-5217, 45-52384 and 45-5-4620, followed by artefact reburial within E2 zoned lands within the assessment area. No further archaeological assessment or management and mitigations measures were recommended for MPIP PAD 3 (AHIMS 45-5-4620). A further five sites within the overall project assessment area (not subject to testing) were included within significance assessment: including three sites covered under existing AHIPs (#C0002345 and #C0001495). In total, two of the sites were identified as being of moderate archaeological significance MPIP 21A (AHIMS 45-5-3753) and Glengarrie Rd 1 (AHIMS 45-5-4900) and requiring further archaeological assessment in the form of salvage excavation. The remaining sites were determined to be of low archaeological significance with no further archaeological mitigation required. It was recommended that an AHIP be sought for all valid sites located within the project area not covered under existing AHIPs.

4.3 Aboriginal archaeological survey 2020 – Stage 3 Facilities Sydney Business Park, Marsden Park

A full archaeological survey of the Stage 3 Sydney Business Park project area was undertaken in August 2020. The survey was completed with the Deerubbin Local Aboriginal Land Council. The 2020 survey confirmed the 2009 Marsden Park Industrial Precinct assessment.

Background research identified two previously registered Aboriginal archaeological sites within the current study area: MPIP 17 (AHIMS 45-5-3748) and MPIP 18 (AHIMS 45-5-3749). Both sites were originally recorded as a result of the Marsden Park Industrial Precinct assessment and comprised low density surface artefact scatters. The study area was inspected on 5 August 2020 by Mark Rawson (KNC) and Steve Randall (Deerubbin Local Aboriginal Land Council). The study area was divided into three survey units based upon the proposed works layout and study area location. The surveyed area comprised the gentle slope landform descending towards an ephemeral drainage line located to the south and west.

Survey commenced in the north western portion of the study area within Survey Unit 1. This survey unit comprised lands located immediately south of Astoria Street. The large block had been subject to extensive land use disturbance (see Figure 5). Several large mounds of redeposited soil associated with earth moving activities could be seen across the survey unit. Artificial drainage had also been constructed through the central portion of Survey Unit 1. The southern portion of Survey Unit 1 contained evidence of old furrows, previous cattle grazing and former earthmoving activities related to overburden from former quarrying activities (see Figure 5). Vegetation across the survey unit had been cleared, with only low grasses remaining. The site location for destroyed AHIMS site MPIP 22 (included MPIP 22A) was revisited and assessed. The site was confirmed to have been destroyed by previous AHIP approved project works. Ground surface exposure within the survey unit varied, with the majority of the survey unit covered in low weeds and grasses. Increased visibility and exposure was present in stripped areas or areas displaying high levels of visible ground surface disturbance. No new Aboriginal objects or areas of archaeological potential were identified within the highly modified Survey Unit 1.

Plate 1. View south-west. Photo shows artificial drainage across the large block in Survey Unit 1. Note cattle grazing in background.

Plate 2. Facing west in southern portion of Survey Unit 1. Note furrows and uneven ground surface from previous landuse activities.

Plate 3. Facing south east. Photo shows previous earthmoving activities in Survey Unit 2.

Plate 4. View to north. From top former railway mound in Survey Unit 2.

Survey Unit 2 comprised a smaller block located south of Astoria Road and west of Sparrow Street. The entirety of the lot had been subject to vegetation clearance, with only high grasses remaining. The northern half of the survey unit had been subject to extensive disturbance with evidence of earthworks activities and large mounds of redeposited soil present. Surface exposures were carefully inspected for any evidence of Aboriginal objects, however none were identified. The southern half of the survey unit contained a former railway embankment and was covered in high grasses. Ground surface visibility within this part of the survey unit was very low to zero. Evidence of uneven ground surfaces was present in the form of a large drainage channel ditch present across the central part of the survey unit (see Figure 5). The entirety of Survey Unit 2 was found to be extensively disturbed. No Aboriginal archaeological sites, objects or areas of potential archaeological deposit were identified within this part of the study area.

The survey team continued south in Survey Unit 3 which sloped gently towards the southwest of the study area. Survey Unit 3 was characterised by a large block containing regrowth vegetation in the form of Ironbark and Grey Box Eucalypts, low grass cover and small shrubs. Ground surface visibility was impeded by vegetation cover. Some areas of exposure were present in erosion scours and along vehicle access tracks. Visibility on exposures along a vehicle access track running along the eastern boundary of the survey unit ranged from 20% to 70% and was impeded by leaf litter and fine ironstone gravels. Visible surface disturbance was limited within Survey Unit 3.

Plate 5. Facing north from eastern boundary in Survey Unit 3. Example of surface exposure on access track.

Plate 6. Facing north. View along risen former railway embankment dissecting Survey unit 3.

The central portion of the survey unit was dissected by the southwest to northeast running former railway embankment. Survey continued within the remaining portion of the study area located in Survey Unit 3, west of the former railway track. The site location for registered site MPIP 18 (AHIMS 45-5-3749) was revisited during the survey. The artefacts recorded during the original site recording could not be relocated.

Two additional artefacts were recorded at the site location during the current survey. The artefacts were recorded approximately eight metres apart on an exposure present along a section of the vehicle access track bordering the western boundary of the current study area. Visibility on the exposure was approximately 50% with a background of leaf litter and fine ironstone gravels present. The newly recorded artefacts consisted of one pink red silcrete elongated core containing four negative flake scars and one pale pink silcrete flake with evidence of retouching on the right ventral surface and a scarred platform. The site was determined to retain low potential for further subsurface archaeological deposit, consistent with its original site recording.

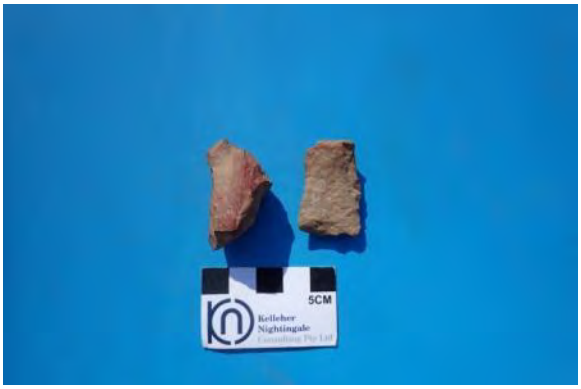

Plate 7. Newly recorded silcrete artefacts identified at registered site MPIP 18 (AHIMS 45-5-3749).

Plate 8. Facing north. View along western boundary in Survey Unit 3 showing newly recorded artefact location at MPIP 18 (AHIMS 45-5-3749) within study area.

Survey continued south. The site location for MPIP 17 was revisited by the survey team. The site was previously recorded along a vehicle access track exposure present along the southern boundary of the study area. Field survey did not identify any previously or newly recorded artefacts at the site location. Assessment of the site area confirmed that MPIP 17 displayed low archaeological potential for subsurface archaeological deposit, consistent with its original site recording.

Plate 9. Facing west. Site location of MPIP 17 (AHIMS 45-5-3748). Note generally low visibility on surface exposure.

Plate 10. Facing east at MPIP 17 (AHIMS 45-5-3748). Photo demonstrates typical regrowth vegetation cover present within Survey Unit 3.

Field survey of the study area confirmed that the majority of the study area had been subject to extensive land use disturbance related to former railway embankment construction, overburden deposits from former quarrying activities, bulk earthworks and drainage related infrastructure (Figure 5). Significant portions of the study area had been subject to extensive vegetation stripping, clearance and revegetation and were actively being utilised for cattle grazing at the time of survey. As a result of historic and contemporary land use practices, the likelihood of intact deposits occurring across the study area was considered to be low.

The results from the 2020 assessment were consistent with the existing 2009 cultural heritage assessment results.

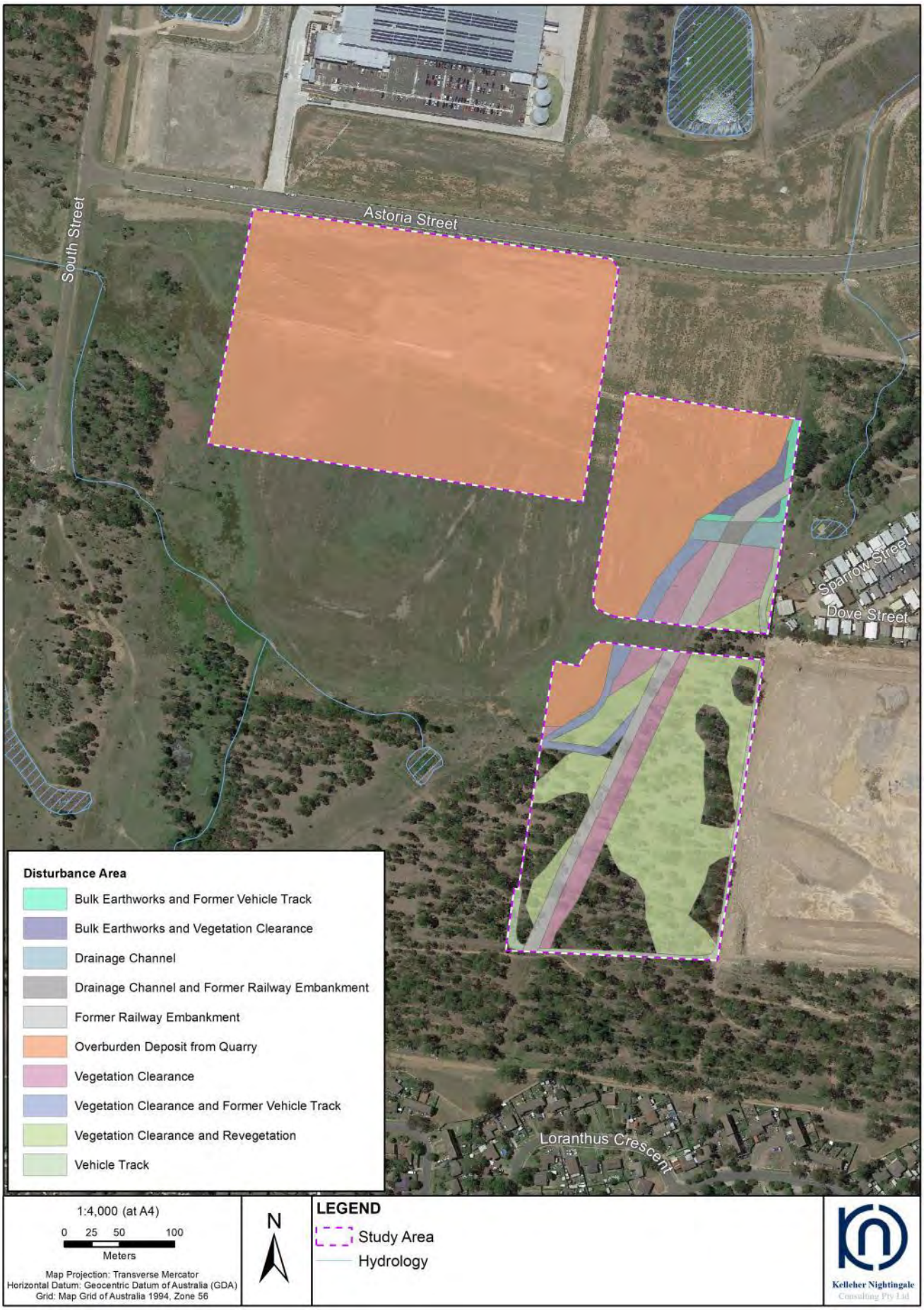

Figure 5. Disturbance map of the study area

5 Consultation Process

5.1 Stakeholder identification and consultation

The aim of consultation is to integrate cultural and archaeological knowledge and ensure registered stakeholders have information to make decisions on Aboriginal cultural heritage. For the preparation of this CHAR, consultation with Aboriginal people has been undertaken in accordance with the Heritage NSW *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010* (OEH 2010a) and the requirements of Clause 60 of the *National Parks and Wildlife Regulation 2019*. Consultation records are attached as Appendix D. The formal consultation process has included:

- Notification of Aboriginal persons, including register of native title determinations search and government agency notification letters;
- advertising for registered stakeholders in local print media (Appendix A);
- notification of closing date for registration (31/07/2020)
- record of registration of interest (Heritage NSW and DLALC notified 3/08/2020);
- provision of project-specific information (17/06/2020 and 31/07/2020);
- provision of assessment methodology for review (28 day review period ending on 28/08/2020)
- invitation to advise on Aboriginal cultural value of the study area;
- provision of draft CHAR for review (28 day review period ending on 28/09/2020); and
- ongoing consultation with the local Aboriginal community including regular project updates.

5.2 Registration of interest

Aboriginal people who hold knowledge relevant to determining the cultural heritage significance of Aboriginal objects and Aboriginal places in the study area were invited to register an interest in a process of community consultation. Investigations for the current project have included consultation with Aboriginal community individuals and groups as listed in Table 1*.

Table 3. Registered Aboriginal Stakeholders*

Group / Individual	Representative / Contact
Deerubbin Local Aboriginal Land Council	CEO
A1 Indigenous Services	Carolyn Hickey
Amanda Hickey Cultural Services	Amanda DeZwart
Barraby Cultural Services	Lee Field
Butucarbin Aboriginal Corporation	Lowanna Gibson
Darug Custodian Aboriginal Corporation	Justine Coplin
Dhinawan Culture and Heritage Pty Ltd	Stephen Fields
Didge Ngunawal Clan	Paul Boyd & Lilly Carroll
Freeman & Marx Pty Ltd	Clive Freeman
Kamilaroi Yankuntjatjara Working Group	Phil Khan
Merrigarn	Shaun Carroll
Muragadi Heritage Indigenous Corporation	Jesse Johnson
Murra Bidgee Mullangari Aboriginal Corporation	Ryan Johnson
Registered Aboriginal Stakeholder	Details Withheld
Registered Aboriginal Stakeholder	Details Withheld
Tocomwall	Scott Franks
Waawaar Awaaa Aboriginal Corporation	Rodney Gunther
Wailwan Aboriginal Group	Phil Boney
Warragil Cultural Services	Aaron Slater

Group / Individual	Representative / Contact
Widescope Indigenous Group	Steven Hickey
Wurrumay Pty Ltd	Vicky Slater
Yulay Cultural Services	Arika Jalomaki
Yurrandaali Pty Ltd	Bo Field

*two additional Aboriginal stakeholder has registered for the project but has chosen to withhold their details in accordance with item 4.1.5 of the *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010* (OEH 2010b).

5.3 Consultation regarding the land and proposed activity

Following on from Stage 1 of the consultation process undertaken by KNC (stakeholder identification and registration), project-specific consultation was undertaken. Information regarding the proposed development was provided to registered Aboriginal stakeholder groups in a letter dated 31/07/2020. Information included an outline of the proposal, location of the study area and an invitation to consult during the assessment.

Stakeholders were also provided with the proposed assessment methodology for the Cultural Heritage Assessment Report, and invited to review and provide feedback (review period of 28 days, closing on 28/08/2020). An invitation was extended for Aboriginal cultural knowledge holders and stakeholders to provide comments on the proposed cultural heritage assessment methodology, including any protocols regarding the gathering of information and any matters such as issues/areas of cultural significance that might affect, inform or refine the assessment methodology.

5.4 Stakeholder responses to the proposed assessment methodology for the Cultural Heritage Assessment Report

Formal responses to the proposed assessment methodology were received from A1 Indigenous Services (A1), Barraby Cultural Services (BCS), Didge Ngunawal Clan (DNC), Kamilaroi Yunkuntjatjara Working Group (KYWG), Murra Bidgee Mullangari Aboriginal Corporation (MBMAC), Muragadi Heritage Indigenous Corporation (MHIC), Wailwan Aboriginal Group (WAG), Yurrandaali Cultural Services and Yulay Cultural Services. Responses generally expressed support and did not result in any changes to the assessment methodology.

A1 stated that they had reviewed and supported the project information and proposed assessment methodology provided. A1 expressed interest in being involved in any fieldwork undertaken for the project (email dated 11/08/2020).

BCS stated that they supported the methodology for the project (email dated 4/08/2020).

DNC expressed that they agreed with the proposed assessment methodology (email dated 1/08/2020).

KYWG expressed that they had read the proposed assessment methodology and noted that the area was highly significant to Aboriginal people due to its general proximity to Bells Creek (email dated 24/082020).

MBMAC read the project information and methodology letter for the project. MBMAC endorsed the proposed assessment methodology (email dated 5/08/2020).

MHIC stated that they had read the project information and methodology letter for the Sydney Business Park Stage 3 Marsden Park project. They endorsed the proposed assessment methodology (email dated 6/08/2020).

WAG indicated that they had read the methodology for the project and added that they did not have any issues with the project or the proposed assessment methodology (email dated 2/08/2020).

Yulay Cultural Services supported the proposed assessment methodology for the project (email dated 27/08/2020).

Yurrandaali Cultural Services supported the proposed assessment methodology for the project (email dated 6/08/2020).

5.5 Review of draft CHAR

The draft CHAR was provided to stakeholders for a 28 day review and comment period (letters dated 31/08/2020). Stakeholders were invited to comment on the Aboriginal cultural significance of the study area and the identified sites, along with the management recommendations presented in the report. Formal responses were received from A1

DCAC, DNC, MBMAC and WAG. Comments and information received from stakeholders during this period are attached in full in Appendix B and summarised below.
A1 indicated that they had reviewed the draft CHAR and supported the recommendations (email dated 6/09/2020).

DCAC expressed overall support for the project and reiterated their connection to and knowledge of the study area (email and letter dated 3/09/2020).

DNC indicated general support for the project (email dated 31/08/2020).

KYWG reiterated that the area was of high significance for his group. They noted a spiritual attachment to the area guided by the knowledge that their people had camped in the area. KYWG agreed that salvage excavation was not warranted for the sites located within the study area and supported ongoing management of the sites which would involve both archaeologists and Aboriginal representatives (surface artefact collection undertaken with registered Aboriginal stakeholders). KYWG also expressed support for the recommended management measures for the non-impacted portion of MPIP 18 (late response received by email dated 29/09/2020).

MBMAC stated that they had read the draft CHAR for the project and endorsed the recommendations made (email dated 3/09/2020).

WAG supported the heritage assessment undertaken by KNC, indicating that they had no additional comments to add and that they were happy with the Aboriginal cultural heritage assessment undertaken for the project (email dated 1/09/2020).

5.6 Aboriginal cultural values

It has been identified during the consultation process that the wider study area has cultural heritage value to the local Aboriginal community. Some of the Aboriginal cultural heritage values expressed by stakeholders include:

- strong association with the land and the local area
- responsibility to look after the land, including the heritage sites, plants and animals, creeks and the land itself
- scarred trees
- artefact sites and landscape features
- creek lines, especially South Creek and Bells Creek, their tributaries and their floodplains
- indigenous plants and animals

Additional cultural values for the Marsden Park area have been provided by stakeholders throughout the registration of interest period and consultation process.

A1 stated that they held cultural knowledge of, and maintained a cultural connection to the study area (email dated 28/07/2020).

Amanda Hickey Cultural Services (AHCS) expressed that they held cultural knowledge relevant to determining the significance of Aboriginal objects and areas within the project area (email dated 3/08/2020).

DCAC expressed that their group held a vast knowledge of the Marsden Park area. They noted the significance of the area to Darug people, based upon the connection of sites and continued occupation of the area (email/letter dated 27/07/2020).

One stakeholder who chose to withheld their details in accordance with item 4.1.5 of the *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010* (OEH 2010b) has expressed strong connection to the area but has chosen to withhold the specifics from publication (letter dated 17/07/2020).

One additional stakeholder who chose to withheld their details in accordance with item 4.1.5 of the *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010* (OEH 2010b) has expressed strong connection to the area but has chosen to withhold the specifics from publication (letter dated 17/07/2020).

Waawaar Awaaa Aboriginal Corporation (WAAC) stated that their organisation comprised Aboriginal people who had an interest in the study area. Their members also held a cultural connection & knowledge relevant to the study area. They expressed a deep interest and responsibility related to impacts to Aboriginal heritage within the traditional cultural areas of Dharawal, Gundungurra and Darug lands, and within the boundary areas of Tharawal, Deerubbin, Gandangara, La Perouse and Metropolitan local Aboriginal land councils (email and letter dated 20/0/2020).

Widescope indicated that they had members who were recognised as cultural knowledge holders. They stated that they held cultural knowledge of, and maintained a cultural connection to the study area and its surrounds (email dated 26/07/2020).

Wurrumay Pty Ltd stated that they held knowledge and connection to Country through Ancestral ties with Black Kitty (related to the history of the Blacktown Native Institution) (email dated 17/07/2020).

6 Summary and Analysis of Background Information

Analysis of the background information presented in the preceding chapters allows an assessment of the cultural heritage values within the study area to be made. Combining data from historical/ethnographic sources, landscape evaluation and archaeological context provides an insight into how the landscape was used and what sort of events took place in the past.

Culturally, the general Marsden Park area has demonstrated importance to the contemporary Aboriginal community. Many registered stakeholders expressed their personal family and cultural connections to the area. Stakeholders also expressed the responsibility and importance associated with caring for the land, including the heritage sites, plants and animals, creeks and the land itself. The interconnectivity of sites through the landscape has also been highlighted.

Archaeological evidence of past Aboriginal occupation and use of the landscape shows that the types and preservation of archaeological sites in the vicinity of the project area are highly influenced by geology, soil landscapes and ground surface disturbance. Archaeological site types in the vicinity of the study area generally comprise open artefact scatters and isolated finds. Artefact density and site frequency in the region is influenced by the reliability and permanence of fresh water sources, with higher site frequency and artefact density in the vicinity of the higher order watercourses of Bells Creek and South Creek. The study area and immediate surrounds are located in an area of ephemeral fresh water supply and sites are typified by low density artefact surface scatters and isolated artefacts indicative of intermittent occupation.

Archaeologically, open artefact scatters with stratigraphic integrity provide the most archaeological research potential. The residual soil landscape present within the study area is generally favourable for the preservation of in situ archaeological material; however, natural processes and land use practices can have a detrimental effect on the preservation of archaeological sites.

Comprehensive archaeological assessment was undertaken by KNC as part of the CHAR process in 2020. The archaeological field survey confirmed the disturbed nature of the soils across the majority of the study area and the low potential for any intact archaeological deposit to remain. The current study area has been subject to repeated episodes of vegetation clearance and stripping as well as significant earthmoving activities related to former quarrying activities which have left visible ditches and mounds across the landscape. This has resulted in significant ground surface disturbance across the study area.

6.1 Archaeological sites within the study area

Background assessment and field survey have identified two Aboriginal archaeological sites within the study area. Sites MPIP 17 and MPIP 18 are shown on Figure 6.

Site name: **MPIP 17**
AHIMS site ID: **45-5-3748**

MPIP 17 consisted of a low density artefact scatter recorded along an unformed vehicle access track. The site comprised two artefacts recorded approximately 40 metres apart. The artefacts consisted of two silcrete flaked pieces. The site was identified across a gentle midslope descending to the south-west towards an ephemeral drainage line. Ground surface visibility on exposures at the time of survey was low to moderate (up to 50%). Disturbance at the site consisted of land clearing activities and the presence of a raised access track running perpendicular to the property boundary fence. The raised track was located between the two recorded surface artefacts and was determined to likely be an old railway embankment given its constant height and gradient. The site was surrounded by occasional regrowth eucalypt trees.

Survey was undertaken as part of the current Aboriginal heritage assessment for the Stage 3 Facilities at the Sydney Business Park. The location of the site was confirmed. However, the previously recorded artefacts were not relocated during the revisit. Since its original recording, the site had been subject to continual disturbance associated with modern land use and increased erosion across the property. Based upon the archaeological assessment, the site was assessed as exhibiting low significance, consistent with its original site recording.

Site name: **MPIP 18**
AHIMS site ID: **45-5-3749**

Site MPIP 18 comprised a low density artefact scatter recorded along an unformed vehicle access track present along a property boundary fence. Eight artefacts were recorded across the track and consisted of six yellow and red silcrete flaked pieces and two complete yellow silcrete flakes. Some vehicle damage was evident at the time of recording. The site was identified in a mid slope context, across a gentle slope descending to the west and northwest. The area surrounding the site consisted of occasional regrowth eucalypt trees with increased grass cover around the track. The site was identified on a large surface exposure with visibility up to 75%.

Archaeological survey undertaken for the current project could not relocate the artefacts originally recorded at the site location. Two additional silcrete artefacts (comprising one core and one retouched flake) were identified along the eroded vehicle access track. Ongoing agricultural land use disturbance since the time of original recording had further reduced the likelihood of any intact deposits remaining. Based on the archaeological assessment, the site was confirmed to exhibit low archaeological significance. The results were consistent with the original site recording.

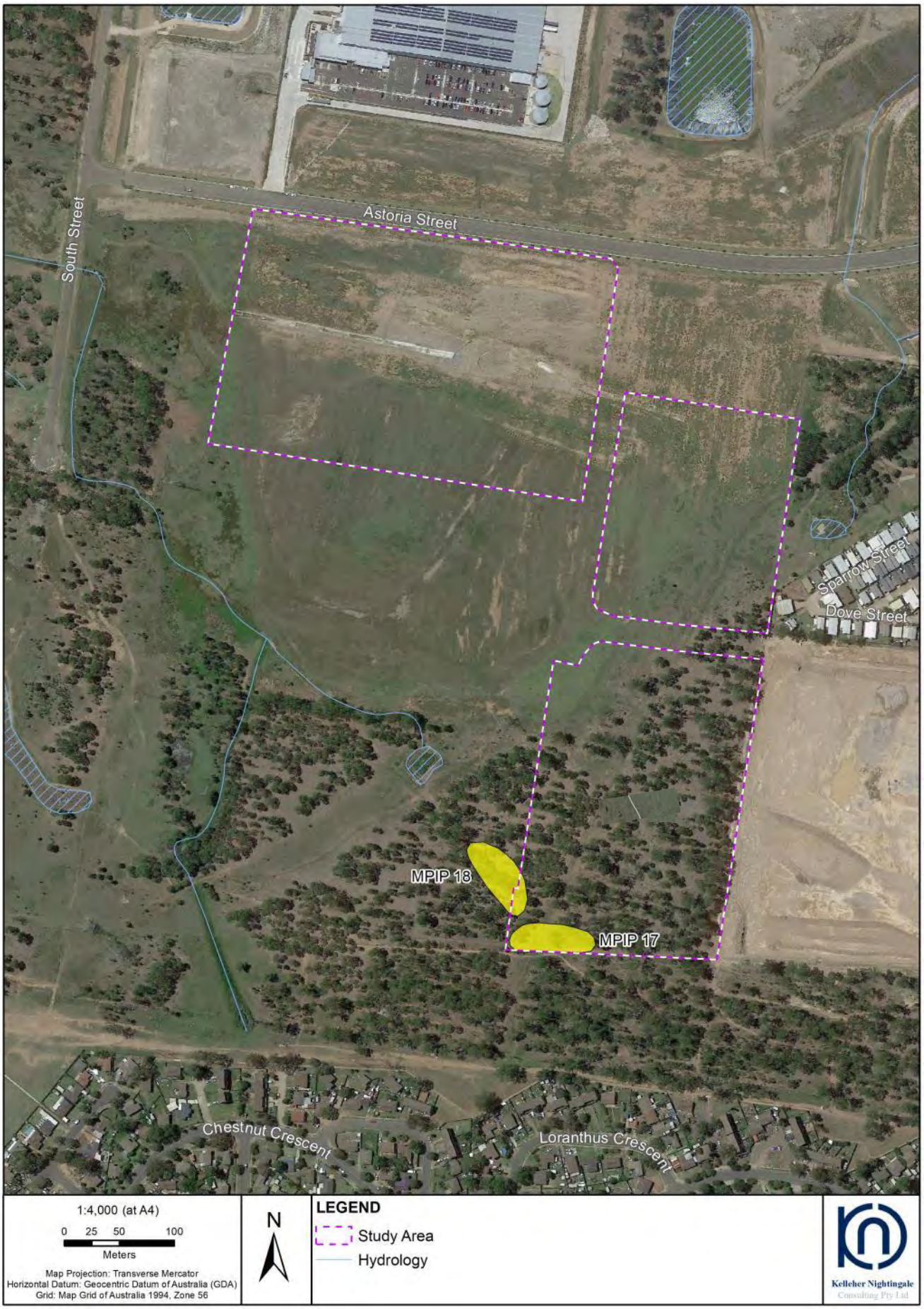

Figure 6. Identified Aboriginal archaeological sites in the study area

7 Cultural Heritage Values and Statement of Significance

7.1 Significance assessment criteria

One of the primary steps in the process of cultural heritage management is the assessment of significance. Not all sites are equally significant and not all are worthy of equal consideration and management (Sullivan and Bowdler 1984, Pearson and Sullivan 1995:7). The determination of significance can be a difficult process as the social and scientific context within which these decisions are made is subject to change (Sullivan and Bowdler 1984). This does not lessen the value of the heritage approach, but enriches both the process and the long-term outcomes for future generations, as the nature of what is conserved and why, also changes over time.

Significance assessments can generally be described under three broad headings (Pearson and Sullivan 1995:7):

- value to groups such as Aboriginal communities
- value to scientists and other information gatherers
- value to the general public in the context of regional, state and national heritage.

The assessment of significance is a key step in the process of impact assessment for a proposed activity as the significance or value of an object, site or place will be reflected in resultant recommendations for conservation, management or mitigation.

The *Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales* (OEH 2010b) requires significance assessment according to criteria established in the *Australia ICOMOS Burra Charter* (Australia ICOMOS 2013). The *Burra Charter* and its accompanying guidelines are considered best practice standard for cultural heritage management, specifically conservation, in Australia. Guidelines to the *Burra Charter* set out four criteria for the assessment of cultural significance:

- Aesthetic value - relates to the sense of the beauty of a place, object, site or item;
- Historic value - relates to the association of a place, object, site or item with historical events, people, activities or periods;
- Scientific value - scientific (or research) value relates to the importance of the data available for a place, object, site or item, based on its rarity, quality or representativeness, as well as on the degree to which the place (object, site or item) may contribute further substantial information; and
- Social value - relates to the qualities for which a place, object, site or item has become a focus of spiritual, political, national or other cultural sentiment to a group of people. In accordance with the Heritage NSW *Guide to investigating, assessing and reporting on Aboriginal cultural heritage in NSW*, the social or cultural value of a place (object, site or item) may be related to spiritual, traditional, historical or contemporary associations. “Social or cultural value can only be identified though consultation with Aboriginal people” (OEH 2011:8).

Significance assessment for identified archaeological sites focusses on the social/cultural, historic, scientific and aesthetic significance of Aboriginal heritage values as identified in *The Burra Charter* (Australia ICOMOS 2013). The identification of significance is developed in consultation with the registered Aboriginal stakeholders. Assessed values for the sites within the study area are detailed below.

Cultural / social significance
This area of assessment concerns the value(s) of a place, feature or site to a particular community group, in this case the local Aboriginal community. Aspects of social significance are relevant to sites, objects and landscapes that are important or have become important to the local Aboriginal community. This importance involves both traditional links with specific areas as well as an overall concern by Aboriginal people for sites generally and their continued protection. Aboriginal cultural significance may include social, spiritual, historic and archaeological values and is determined by the Aboriginal community.

It has been identified during the consultation process that the local area has cultural heritage value (social value) to the local Aboriginal community. No specific cultural or social values for the sites within the study area were provided by the registered Aboriginal stakeholders following the review of the draft CHAR.

Historic significance
Community consultation and historical research has not identified any information regarding specific historical significance of identified Aboriginal archaeological sites in or near the study area. No specific historical values for the sites within the study area were provided by the registered Aboriginal stakeholders following the review of the draft CHAR. Archaeologically, the study area does not contain these values in relation to Aboriginal heritage.

Scientific / archaeological significance

For archaeologists, scientific significance refers to the potential of a site to contribute to current research questions. Alternately, a site may be an in situ repository of demonstrably important information, for example rare artefacts of unusually high antiquity.

Scientific significance is assessed using criteria to evaluate the contents of a site, state of preservation, integrity of deposits, representativeness of the site type, rarity/uniqueness and potential to answer research questions on past human behaviour. Heritage NSW's recommended criteria for assessing archaeological significance include:

- Archaeological Research Potential - significance may be based on the potential of a site or landscape to explain past human behaviour and can incorporate the intactness, stratigraphic integrity or state of preservation of a site, the association of the site to other sites in the region (connectivity), or a datable chronology.

- Representativeness - all sites are representative of those in their class (site type/subtype) however the issue here relates to whether particular sites should be conserved to ensure a representative sample of the archaeological record is retained. Representativeness is based on an understanding of the regional archaeological context in terms of site variability in and around the study area, the resources already conserved and the relationship of sites across the landscape.

- Rarity – which defines how distinctive a site may be, based on an understanding of what is unique in the archaeological record and consideration of key archaeological research questions (i.e. some sites are considered more important due to their ability to provide certain information). It may be assessed at local, regional, state and national levels.

High significance is usually attributed to sites which are so rare or unique that the loss of the site would affect our ability to understand an aspect of past Aboriginal use/occupation of an area. In some cases a site may be considered highly significant because it is now rare due to destruction of the archaeological record through development. Moderate (medium) significance is attributed to sites which provide information on an established research question.

Sites with moderate significance are those that offer the potential to yield information that will contribute to the growing holistic understanding of the Aboriginal cultural landscape of the project area. Archaeological investigation of moderately significant sites will contribute knowledge regarding site type interrelationships, cultural use of landscape features and occupation patterns

Low significance is attributed to sites which cannot contribute new information about past Aboriginal use/occupation of an area. This may be due to site disturbance or the nature of the site's contents.

Aesthetic Values

Aesthetic values are often closely related to the social values of a site or broader cultural landscape. Aspects may include scenic sights, smells and sounds, architectural fabric and creative aspects of a place. No specific aesthetic values for the sites within the study area were provided by the registered Aboriginal stakeholders following the review of the draft CHAR. Archaeologically; the study area does not contain these values.

7.2 Statement of significance

The study area has cultural value for the local Aboriginal community. The identified cultural value is a feeling of attachment and responsibility for the land. These values become tangible when tied to identified Aboriginal objects found at the archaeological sites. In this way, the Aboriginal objects can be seen as exhibiting both scientific information and cultural meaning, knowledge about the past tied with social values and belief systems.

The study area contains two identified Aboriginal archaeological sites as defined under the *National Parks and Wildlife Act 1974*. Significance assessment is based on a consideration of the research value, representativeness, intactness and rarity of the sites in a local and regional context. The significance of the sites within the study area is outlined below.

MPIP 17 (AHIMS 45-5-3748)
MPIP 17 represents a commonly occurring site type, comprising a low density surface artefact scatter identified on a mid slope descending towards an ephemeral drainage line. The artefacts at the site are typical of the region in terms of type and raw material. The site has been subject to extensive disturbance from historic/contemporary land use practices and associated environmental factors. The site is located in a disturbed context and has low to nil potential for intact subsurface deposit. The recorded surface artefacts form part of a disturbed deposit. The site demonstrates low archaeological potential and scientific value and it is unlikely that further investigation could contribute to our understanding of Aboriginal landscape use in the region. Based on the intactness, representativeness and research potential of the site, MPIP 17 is determined to have low archaeological significance.

MPIP 18 (AHIMS 45-5-3749)
MPIP 18 represents a commonly occurring site type, consisting of a low density surface artefact scatter recorded on a mid slope descending towards an ephemeral drainage line. The artefacts at the site are typical of the region in terms of type and raw material. The site has been subject to extensive disturbance from historic/contemporary land use practices and associated environmental factors. MPIP 18 is located in a disturbed context and has low to nil potential for intact subsurface deposit. The recorded surface artefacts form part of a disturbed deposit. The site demonstrates low archaeological potential and scientific value and it is unlikely that further investigation could contribute to our understanding of Aboriginal landscape use in the region. Based on the intactness, representativeness and research potential of the site, MPIP 18 is determined to have low archaeological significance.

8 Impact Assessment and Mitigation Strategies

8.1 Proposed activity

Marsden Park Developments Pty Ltd proposes to develop warehouse and distribution facilities in the area known as 'Stage 3' of Sydney Business Park within the Marsden Park Industrial Precinct. The proposal includes the construction of several local roads and associated infrastructure works to support the new development in the IN1 General Industrial, IN2 Light Industrial, and SP2 Infrastructure (Local Roads) zoned lands. The proposed activities associated with the subdivision and development include:

- Site subdivision;
- Vegetation clearing, demolition of minor structures and earthworks (including cut/fill operations);
- Construction of two estate roads and associated intersections;
- Stormwater infrastructure (including potential temporary estate basin);
- Construction and operation of four warehouse and distribution facilities; and
- Ancillary development including car parking, infrastructure provision and landscaping.

The proposal would effectively cover the entirety of the study area and impact sites MPIP 17 and MPIP 18. Impacts to the sites are unavoidable due to the scale of the project and requirements for the proposal. Assessed impact to the identified sites within the study area is shown on Figure 7 and listed in Table 4 below.

Table 4. Proposed impact to Aboriginal archaeological sites within the project area

Site name	AHIMS number	Type of harm	Degree of harm	Consequence of harm	Significance of harm
MPIP 17	45-5-3748	Direct	Total	Total loss of value	Low
MPIP 18	45-5-3749	Direct	Partial	Partial loss of value	Low

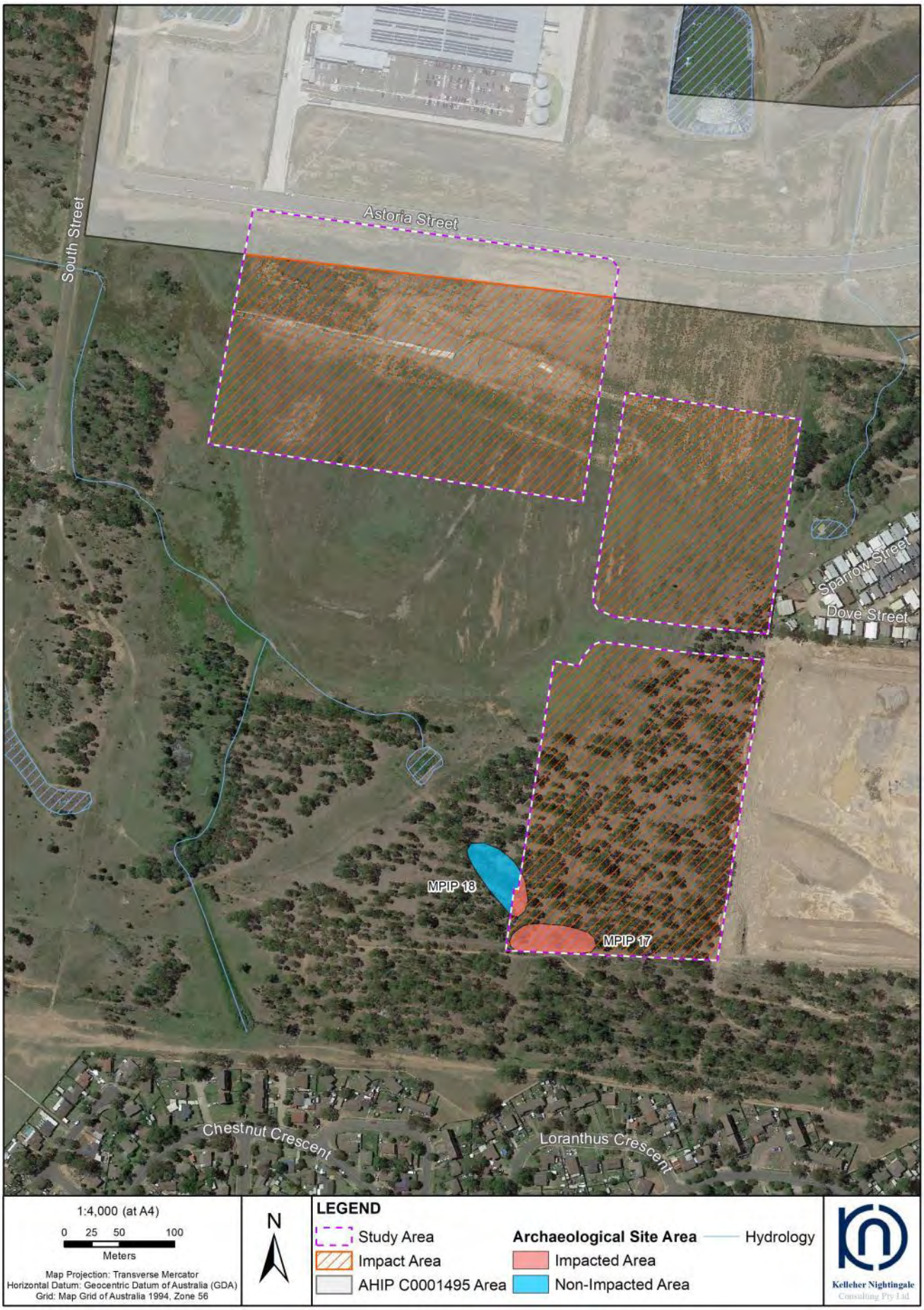

Figure 7. Impact assessment for archaeological sites in the study area

8.2 Mitigating harm

The identified Aboriginal archaeological sites recorded within the study area have been considered by Marsden Park Developments Pty Ltd in relation to the proposed warehouse development activities. Unfortunately, direct impacts to sites MPIP 17 and MPIP 18 could not be avoided for the current project due to the requirement for bulk earthworks and given the topographic context of the sites. Both MPIP 17 and MPIP 18 will be at least partially impacted by the proposal.

Archaeological mitigation (salvage) is generally recommended where sites of moderate significance or higher are to be impacted. Mitigation for the identified impact to the sites within the study area by the proposed activities in the form of salvage excavation is not warranted as both MPIP 17 and MPIP 18 are considered to display low archaeological significance based on scientific value and potential to inform on Aboriginal landscape use in the area. The impacted archaeological sites are located in a disturbed landscape context and are unlikely to retain intact subsurface archaeological deposit. Based on their assessed significance, the sites do no warrant non-practicable avoidance or conservation measures.

Consultation with Aboriginal stakeholders has determined that the loss of intrinsic Aboriginal cultural value of impacted sites cannot be offset; however, information recovered from mitigation activities is equally as valuable to the contemporary Aboriginal community. Suitable recommendations for the identified impacts to both sites have been developed based on environmental context and condition, background research and consultation with stakeholders.

Proposed mitigation measures include the collection of recorded surface artefacts at MPIP 17 and the impacted portion of MPIP 18. Measures for mitigating harm to the site are outlined in Table 5 below. Additional measures will be put in place to ensure no impacts upon the non-impacted portion of MPIP 18 (see Table 5 and Chapter 9).

Table 5. Proposed mitigation measures for impacted Aboriginal sites

Site Name	AHIMS Number	Impact Assessment	Assessed Significance	Mitigation Harm
MPIP 17	45-5-3748	Direct / Total	Low	Disturbed deposit. Community collection of surface artefacts. Relevant project approval required prior to commencement of works affecting the site.
MPIP 18	45-5-3749	Direct / Partial	Low	Disturbed deposit. Community collection of surface artefacts. Management measures to be implemented including protective fencing of non-impacted portion of site during construction. Identify non-impacted portion of site on construction environmental management plan and included within site induction to ensure no impact. Relevant project approval required prior to commencement of works affecting the site.

Method of Collection

Following project approval registered Aboriginal stakeholders for the project should be provided with an opportunity to attend site and collect the surface artefacts in accordance with the methodology below.

The objects and their location have been recorded as part of the assessment process (CHAR, archaeological survey and site card). Collection would involve the physical picking up of the objects and the completion of an Aboriginal Site Impact Recording Form (ASIRF).

9 Management Outcomes

The following general management outcomes will be implemented in accordance with the mitigation strategy for the proposal as outlined in Chapter 10.

9.1 Mitigation through the collection of surface artefacts

The archaeological sites listed in Table 6 are of low archaeological significance and will be impacted by the project.

The sites would require the collection of surface artefacts to mitigate the impact. Collection can only occur after Project Approval is obtained.

The collection must be completed prior to any activities which may harm Aboriginal objects at these site locations. The collection would be undertaken in accordance with the methodology presented in section 8.2.

Table 6. Aboriginal sites requiring mitigation (collection)

Archaeological sites requiring mitigation (collection)	
Archaeological Sites (requiring the collection of surface artefacts)	MPIP17
	MPIP18

9.2 Management of non-impacted portion of Aboriginal site MPIP 18

Impact assessment determined that MPIP 18 will be partially impacted by the proposed development. Management measures must be implemented for site MPIP 18 to ensure that the non-impacted portion of site is avoided by proposed development and construction activities. Management measures to be implemented include the demarcation of the non-impacted portion of MPIP 18 with protective fencing and identification of this area as an environmentally sensitive “no-go zone”. The site will also be identified on any construction environmental managements plans (or similar), and documented toolbox talks will be held to ensure all on-site staff and contractors are aware of obligations and requirements regarding the protection of Aboriginal heritage. Recommendations for the management and site protection for non-impacted portion of MPIP 18 include:

- The boundaries of the non-impacted portion of MPIP 18 should be demarcated with protective fencing and identified as an environmentally sensitive “no-go zone”.
- The location of the non-impacted portion of MPIP 18 should be included on construction environmental management plans (or similar) and identified as an environmentally sensitive “no-go zone”.
- All site workers inducted as to appropriate site protection measures for the non-impacted portion of MPIP 18.

10 Management Procedures

10.1 Management Policy for Aboriginal Heritage

The policy for the management and conservation of Aboriginal heritage in relation to salvage activities and construction activities (or fencing, geotechnical investigations, minor clearing, establishing site compounds, adjustment to services/utilities etc.) is described below:

Responsibility for compliance with Management Policy

1. The Proponent must ensure all of its employees, contractors and subcontractors and agents are made aware of and comply with this management policy.
2. The Proponent must appoint a suitably qualified and experienced environmental manager who is responsible for overseeing the activities related to this management policy.
3. The Proponent must appoint a suitably qualified and experienced Archaeologist who is responsible for overseeing, for and on behalf of the Proponent, the archaeological activities relating to the project.

Construction constraints

4. Where the surface collection of artefacts has been nominated for the impacted site, no construction activities (or fencing, geotechnical investigations, minor clearing, establishing site compounds, adjustment to services/utilities etc.) can occur on the lands to be investigated until the relevant surface collection at the nominated site has been completed.
5. Prior to the commencement of early works activity (e.g. fencing, minor clearing, establishing site compounds etc.) a construction heritage site map identifying the Aboriginal site requiring the collection of surface artefacts and the Aboriginal sites to be avoided (for all sites in proximity to the project boundary) must be prepared. The construction heritage site map should be prepared to the satisfaction of Marsden Park Developments Pty Ltd.
6. All employees, contractors, subcontractors and agents carrying out early works activities (e.g. fencing, minor clearing, geotechnical investigations, establishing site compounds etc) must undertake a Project induction (including the distribution of a construction heritage site map) to ensure that they have an understanding and are aware of the Aboriginal heritage issues affecting the activity.

Areas of Aboriginal archaeological sites and objects to be impacted

7. The areas of archaeological sites and objects identified as being impacted by construction activities are listed in Table 6 of this report and are in accordance with the Project Approval.

Human Remains

8. This management policy does not authorise any damage of human remains.
9. If potential human remains are disturbed the Proponent must follow the procedures outlined in section 10.2 below.

Involvement of Aboriginal groups and/or individuals

10. Opportunity must be provided to the registered Aboriginal stakeholders to be involved in the following activities:
    a. assist with the surface collection in accordance with the methodology specified in Chapter 8.

Conservation of salvaged/collected Aboriginal objects

11. Department of Planning, Industry and Environment (DPIE), as the approval authority, will be consulted.
12. Recovered Aboriginal objects should be handled in accordance with Requirement 26 "Stone artefact deposition and storage" in the *Code of Practice for Archaeological Investigation of Aboriginal Objects in NSW* as required.

Reporting requirements

13. A written archaeological report documenting the salvage collection must be provided to Marsden Park Developments Pty Ltd within a reasonable time in accordance with the Project Approval following the completion of the archaeological program.
14. An Aboriginal Site Impact Recording Form (ASIRF) must be completed and lodged with Heritage NSW for the archaeological sites listed in Table 6 within a reasonable time after the approved activities have been completed.

Notification and reporting about incidents that breach this management policy

15. Incident reporting requirements in accordance with the Project Approval is to include Aboriginal heritage.

10.2 Procedures for Handling Human Remains

- **Note that Project Approvals do not include the destruction of Aboriginal remains**

This section outlines the procedure for handling human remains in accordance with the Skeletal Remains – Guidelines for the Management of Human Skeletal Remains under the *Heritage Act 1977* (NSW Heritage Office 1998) and the *Aboriginal Cultural Heritage Standards and Guidelines Kit* (NPWS 1997). In the event that construction activity reveals possible human skeletal material (remains), the following procedure is to be followed:

1. as soon as remains are exposed, all work is to halt at that location immediately and the Project environmental manager on site is to be immediately notified to allow assessment and management;
    i. stop all activities; and
    ii. secure the site.
2. contact police, the discovery of human remains triggers a process which assumes that they are associated with a crime. The NSW Police retain carriage of the process until such time as the remains are confirmed to be Aboriginal or historic;
3. DPIE, as the approval authority, will be notified when human remains are found;
4. once the police process is complete and if remains are not associated with a contemporary crime contact DPIE. DPIE will determine the process, in consultation with Heritage NSW as appropriate;
    i. if the remains are identified as Aboriginal, the site is to be secured and DPIE and all Aboriginal stakeholders are to be notified in writing. DPIE will act in consultation with Heritage NSW as appropriate. Heritage NSW will be notified in writing according to DPIE instructions; or
    ii. if the remains are identified as non-Aboriginal (historical) remains, the site is to be secured and the DPIE is to be contacted. DPIE will act in consultation with the Heritage NSW as appropriate.
5. once the police process is complete and if the remains are identified as not being human work can recommence once the appropriate clearances have been given.

10.3 Procedures for Handling Unexpected Aboriginal Objects

This section outlines the procedure for handling unexpected archaeological sites and objects. In the event that construction activity reveals possible Aboriginal objects other than those identified in Table 10, the following procedure is to be followed:

1. all work is to halt at that location immediately and the Project environmental manager on site is to be immediately notified to allow assessment and management;
    i. stop all activities; and
    ii. secure the site.
2. contact the project archaeologist to assess the find and determine if it is consistent with the Project Approval;
    i. if the find is consistent, the archaeologist will allow work to continue
    ii. if the find is inconsistent, Heritage NSW will be notified as soon as practical on 131555 providing any details of the Aboriginal object and its location. Work cannot recommence unless authorised in writing by Heritage NSW.

10.4 Procedure for proposed changes to the Approved Project

Marsden Park Developments Pty Ltd recognises that during the construction of the project design alterations or other changes to the Approved Project may be required.

A proposed change to the Approved Project (such as an alteration of the current design, the location of ancillary facilities) within the project corridor may result in a:

- Reduced impact to Aboriginal cultural heritage; or an
- Increased impact to Aboriginal cultural heritage.

Note: the use of the word impact in this section is defined as an impact on the significance of Aboriginal cultural heritage rather than simply an increased physical impact.

To ensure consistency with the Approved Project and this document any change in the overall impact on Aboriginal cultural heritage will need to be considered. The process to determine consistency is outlined in section 10.4.1 below.

Where a proposed change to the Approved Project occurs outside of the project boundary considered for the EIS further heritage assessment will be required to determine if there would be an impact on Aboriginal cultural heritage and whether this represents a modification to the Approved Project (outlined below).

10.4.1. Changes in heritage impact

Where the Proponent seeks to make a change to the design and construction of the Approved Project which changes the assessed impact on Aboriginal cultural heritage the Proponent will need to prepare an assessment of the new impacts of this work in consultation with the appointed Archaeologist. The continued involvement of the Aboriginal stakeholders in this process is outlined in section 10.5.

- New impacts consistent with previously identified impacts

If a proposed change to the Approved Project is considered to have a neutral or lesser significant impact on Aboriginal cultural heritage than that identified in this document it would be considered a consistent impact.

If the proposed change is considered to be consistent with the Approved Project Marsden Park Developments Pty Ltd may approve the change with no requirements to seek further approval. However, in certain circumstances, further consultation with Aboriginal stakeholders may still be required (see section 10.5 below).

- New impacts inconsistent with previously identified impacts

If a proposed change to the Approved Project is considered to have a more significant impact on Aboriginal cultural heritage than that identified in the EIS it would be considered an inconsistent impact.

If the proposed change is considered inconsistent with the assessed impact on Aboriginal cultural heritage, as detailed in the Project Approval, Marsden Park Developments Pty Ltd would require an amendment to the mitigation measures agreed in this report. If this proposed change is considered inconsistent with the Approved Project Marsden Park Developments Pty Ltd would require a modification of the Approved Project. Further consultation with Aboriginal stakeholders will be undertaken (see 10.5 below).

10.5 Process for continued consultation with Aboriginal stakeholders

The extent to which Marsden Park Developments Pty Ltd will continue to consult with Aboriginal stakeholders is dependent upon the level of impact and whether the area was assessed as part of the EIS. The types of potential impacts are identified as reduced impacts, increased impacts or unknown impacts.

a) Reduced or neutral impact
If as a result of alterations to the project design a previously identified impact to an Aboriginal heritage item is reduced or neutral then no further consultation is required.

If as a result of alterations to the project design an impact to an Aboriginal heritage item is proposed that results in a reduced impact on the overall heritage significance of the project area (i.e. the cumulative impact is reduced), then further consultation with Aboriginal stakeholders will be undertaken. This consultation may entail a phone call and phone log of comments received or the provision of a report for comment (10 working days).

b) Increased Impact
Where as a result of alterations to the project design an impact on Aboriginal heritage is considered to be greater than identified by the Approved Project further consultation will be undertaken. This consultation will either entail a phone call and phone log of comments received or the provision of a report for comment (10 working days).

c) Unknown impacts: Assessment process
Where a proposed change is an area located outside of the project boundary assessed as part of the Approved Project the impact on Aboriginal cultural heritage is considered to be unknown. This area would require preliminary assessment to determine any impacts upon Aboriginal heritage. Should no impacts be identified then no additional consultation with Aboriginal stakeholders is required. Should potential impacts be identified, consultation with Aboriginal stakeholders will be undertaken. This consultation will entail the provision of a report for stakeholder comment (10 working days) detailing the impacts and mitigation strategies proposed.

References

Attenbrow, V., 2002. Sydney's Aboriginal Past: Investigating the Archaeological and Historical Records. University of New South Wales Press, Sydney.

Australia ICOMOS, 2013. *The Burra Charter: The Australia ICOMOS Charter for Places of Cultural Significance, 2013*.

Australian Museum Business Services, 1997. Archaeological Survey for Aborirignal Sites on lots 45 and 46, DP 262886, Glengarrie Road, Marsden Park Report repapred for Hollinsworth Pty Ltd.

Bannerman, S.M., Hazelton, P.A., and Tille, P.J., 1990. Penrith 1:100,000 Soil Landscape Series Sheet 9030. Soil Conservation Service of NSW, Sydney.

Brook, J. and J Kohen, 1991. *The Parramatta Native Institution and the Black Town: A History.* NSW University Press, Kensington NSW.

Clark, N.R. and Jones, D.C., (Eds) 1991. Penrith 1:100,000 Geological Sheet 9030. New South Wales Geological Survey, Sydney

Collins, D., 1798 [1975]. An Account of the English Colony in New South Wales. Vol. 1. Fletcher, B.H. (ed), T. Cadell Jun. and W. Davies. The Strand, London [Republished by AH and AW Reed in association with the Royal Historical Society, Sydney].

Eco Logical Australia Pty Ltd, 2017. Marsden Park Industrial Precinct S94 Stormwater Infrastructure Works, Package 1: Aboriginal Archaeological Technical Report. Report prepared for Blacktown City Council.

Kelleher Nightingale Consulting Pty Ltd (KNC) , 2009. Marsden Park Industrial Precinct: Aboriginal Heritage Assessment. Report prepared for Department of Planning.

KNC, 2015. Sydney Business Park Marsden park Industrial Stage 3.01: Cultural Heritage Assessment Report. Report prepared for Marsden Park Developments Pty Ltd.

Kohen, J.L., 1985. Aborigines in the West: Prehistory to Present. Power, J. and West, P. (eds), Western Sydney Project 1985, Seven Hills, Sydney

Kohen, J.L., 1986. Prehistoric Settlement in the Western Cumberland Plain: Resources, Environment and Technology. PhD Thesis, School of Earth Sciences, Macquarie University, Sydney.

Kohen, J.L., 1993. The Darug and Their Neighbours. The Traditional Aboriginal Owners of the Sydney Region. Darug Link in association with Blacktown and District Historical Society, Sydney.

NSW National Parks and Wildlife Service (NPWS), 2002. Native Vegetation of the Cumberland Plain, Western Sydney – 1:25,000 Map Series – Map 12 of 16. NSW NPWS, Hurstville.

Office of Environment and Heritage (OEH), 2010a. *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010: Part 6 National Parks and Wildlife Act 1974.* Department of Environment, Climate Change and Water NSW, Sydney.

OEH, 2010b. *Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales: Part 6 National Parks and Wildlife Act 1974.* Department of Environment, Climate Change and Water NSW, Sydney.

OEH, 2011. *Guide to Investigating, Assessing, and Reporting on Aboriginal Cultural Heritage in New South Wales*. Part 6 *National Parks and Wildlife Act 1974*. Office of Environment and Heritage, Sydney.

OzArk Environment & Heritage, 2019. Aboriginal Cultural heritage Assessment Report: Industrial Subdivision of Lot 2 DP1233067 and Lot 37 DP26288, 38 South Street, Marsden park, Sydney NSW. Report prepared for New State and Marsden Park Nominees No. 7.

Pearson, M. and Sullivan, S. 1995. Looking After Heritage Places: The Basics of Heritage Planning for Managers, Landowners and Administrators Melbourne University Press.

Sullivan, S. and Bowdler, S. 1984. *Site Survey and Significance Assessment in Australian Archaeology*. Canberra: RSPacS, Australian National University.

Tench, W., 1793. Complete Account of the Settlement at Port Jackson. G. Nicol and J. Sewell, London

Appendix A Advertisement for Registration for Interest

‹ Back to results › All Classifieds › Notices ›

Notice for Registration of Interest

Date listed: 17/7/2020

Marsden Park Developments Pty Ltd is proposing to develop warehouse and distribution facilities in the area known as 'Stage 3' of Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW. The project is located in the Blacktown local government area. The proponent is Marsden Park Developments Pty Ltd (Michael Gray, Infrastructure Director: 15 Hollinsworth Road, Marsden Park NSW 2765).

Marsden Park Developments Pty Ltd will be seeking approval through a State Significant Development (SSD) application under the NSW *Environmental Planning & Assessment Act 1979*. Marsden Park Developments Pty Ltd proposes to carry out consultation with Aboriginal communities in accordance with the Heritage NSW *Aboriginal cultural heritage consultation requirements for proponents 2010*. The purpose of this consultation process is to inform the preparation of an Environmental Impact Statement and to assist Heritage NSW (as part of the Department of Premier and Cabinet) in its consideration of the proposal. Kelleher Nightingale Consulting Pty Ltd has been engaged by Marsden Park Developments Pty Ltd to facilitate the consultation process.

Marsden Park Developments Pty Ltd invites Aboriginal groups and/or Aboriginal people who hold cultural knowledge relevant to determining the significance of Aboriginal objects and/or places at Marsden Park, NSW to register interest in a process of community consultation with the contact shown below (on behalf of Marsden Park Developments Pty Ltd):

Kelleher Nightingale Consulting

Level 10, 25 Bligh Street

Sydney NSW 2000

phone 9232 5373

The closing date for registration is 31 July 2020.

Please be advised that in accordance with Heritage NSW requirements, we are required to record the names and contact details of each Aboriginal person who has registered an interest in this project and provide a copy of that record to the relevant Heritage NSW office and Local Aboriginal Land Council. If you are registering your interest, please let us know if you do not want your details forwarded to these organisations.

Published 17/07/2020. Listed in 'Public Notices' section for Marsden Park, NSW.

Published online via *The Daily Telegraph* at: https://www.dailytelegraph.com.au/classifieds/notices/public-notices/notice-for-registration-of-interest/5489267/

Appendix B Aboriginal Stakeholder Responses to Proposed Assessment Methodology and Draft CHAR

Zac Thomas

From:	Carolyn .H <cazadirect@live.com>
Sent:	Tuesday, 11 August 2020 10:46 AM
To:	Zac Thomas
Subject:	Re: Project Info & Methodology Letter - 1947 Sydney Business Park Stage 3, Marsden Park - A1
Follow Up Flag:	Follow up
Flag Status:	Completed

A1 INDIGENOUS SERVICES PTY LTD

Contact: Carolyn Hickey
M: 0411650057
E: Cazadirect@live.com
A: 10 Marie Pitt Place, Glenmore Park, NSW 2745
ACN: 639 868 876

Hi Zac,
I have reviewed the document and support the Information and Methodology.
A1 would like to be involved in any future field work.
Kind regards
Carolyn Hickey

From: Zac Thomas <zac.thomas@knconsult.com.au>
Sent: Friday, 31 July 2020 5:19 PM
To: Caza X <cazadirect@live.com>
Subject: Project Info & Methodology Letter - 1947 Sydney Business Park Stage 3, Marsden Park - A1

Dear registered Aboriginal stakeholder,

Thank you for registering your interest to be involved in the Aboriginal cultural heritage consultation process for the proposed
warehouse and distribution facilities in the area known as 'Stage 3' of Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW. Kelleher Nightingale Consulting has been contracted to assist with Aboriginal cultural heritage assessment for the project.

This email is to inform registered stakeholders about project information and the proposed assessment methodology in accordance with the Heritage NSW Aboriginal cultural heritage consultation requirements for proponents 2010.

Please see the attached project information and proposed assessment methodology.

Comments on the proposed assessment methodology, including relevant cultural information that might affect, refine or inform the proposed methodology, should be provided by **28 August 2020**, using the contact details on the attached letter.

1

Zac Thomas

From: Lee Field <barrabyculturalservices@gmail.com>
Sent: Tuesday, 4 August 2020 11:15 AM
To: Zac Thomas
Subject: Re: Project Info & Methodology Letter - 1947 Sydney Business Park Stage 3, Marsden Park - BCS

Dear Zac

Barraby supports the methodology for this project

Thanks
Lee Field

On 31 Jul 2020, at 5:20 pm, Zac Thomas <zac.thomas@knconsult.com.au> wrote:

Dear registered Aboriginal stakeholder,

Thank you for registering your interest to be involved in the Aboriginal cultural heritage consultation process for the proposed
warehouse and distribution facilities in the area known as 'Stage 3' of Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW. Kelleher Nightingale Consulting has been contracted to assist with Aboriginal cultural heritage assessment for the project.

This email is to inform registered stakeholders about project information and the proposed assessment methodology in accordance with the Heritage NSW Aboriginal cultural heritage consultation requirements for proponents 2010.

Please see the attached project information and proposed assessment methodology.

Comments on the proposed assessment methodology, including relevant cultural information that might affect, refine or inform the proposed methodology, should be provided by **28 August 2020**, using the contact details on the attached letter.

Kind regards,

Zac Thomas
Heritage Administration Assistant
Kelleher Nightingale Consulting Pty Ltd
Level 10, 25 Bligh St
Sydney NSW 2000
p 02 9232 5373

<4.2-4.3_BCS_310720.pdf>

1

Zac Thomas

From:	Lilly Carroll <didgengunawalclan@yahoo.com.au>
Sent:	Saturday, 1 August 2020 8:36 PM
To:	Zac Thomas
Subject:	Re: Project Info & Methodology Letter - 1947 Sydney Business Park Stage 3, Marsden Park - DNC

Hi Zac

DNC agrees to all proposals of the methodology

Kind regards DNC
Paul Boyd & Lilly Carroll
0426823944

Sent from myMail for iOS

Friday, 31 July 2020, 5:23 pm +1000 from Zac Thomas <zac.thomas@knconsult.com.au>:

Dear registered Aboriginal stakeholder,

Thank you for registering your interest to be involved in the Aboriginal cultural heritage consultation process for the proposed

warehouse and distribution facilities in the area known as 'Stage 3' of Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW. Kelleher Nightingale Consulting has been contracted to assist with Aboriginal cultural heritage assessment for the project.

This email is to inform registered stakeholders about project information and the proposed assessment methodology in accordance with the Heritage NSW Aboriginal cultural heritage consultation requirements for proponents 2010.

Please see the attached project information and proposed assessment methodology.

Comments on the proposed assessment methodology, including relevant cultural information that might affect, refine or inform the proposed methodology, should be provided by **28 August 2020**, using the contact details on the attached letter.

1

Zac Thomas

From: philip khan <philipkhan.acn@live.com.au>
Sent: Monday, 24 August 2020 8:34 PM
To: Zac Thomas
Subject: Re: Project Info & Methodology Letter - 1947 Sydney Business Park Stage 3, Marsden Park - KYWG

Follow Up Flag: Follow up
Flag Status: Completed

Dear Zac,

I have reviewed your methodology for Sydney Business Park, within the Marsden Park Industrial Precinct, this area is highly significant to us Aboriginal People & it is also near Bells Creek ,therefore I agree to your methodology recommending further testing is required.

Warm regards

Phil Khan

From: Zac Thomas <zac.thomas@knconsult.com.au>
Sent: Friday, 31 July 2020 5:25 PM
To: philip khan <philipkhan.acn@live.com.au>
Subject: Project Info & Methodology Letter - 1947 Sydney Business Park Stage 3, Marsden Park - KYWG

Dear registered Aboriginal stakeholder,

Thank you for registering your interest to be involved in the Aboriginal cultural heritage consultation process for the proposed
warehouse and distribution facilities in the area known as 'Stage 3' of Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW. Kelleher Nightingale Consulting has been contracted to assist with Aboriginal cultural heritage assessment for the project.

This email is to inform registered stakeholders about project information and the proposed assessment methodology in accordance with the Heritage NSW Aboriginal cultural heritage consultation requirements for proponents 2010.

Please see the attached project information and proposed assessment methodology.

1

Zac Thomas

From: Darleen Johnson <murrabidgeemullangari@yahoo.com.au>
Sent: Wednesday, 5 August 2020 5:36 PM
To: Zac Thomas
Subject: Re: Project Info & Methodology Letter - 1947 Sydney Business Park Stage 3, Marsden Park - MBMAC

Follow Up Flag: Follow up
Flag Status: Flagged

Hi Zac
I have read the project information and methodology for the above project, I endorse the recommendations made.
Kind regards
Darleen Johnson

This email is to inform registered stakeholders about project information and the proposed assessment methodology in accordance with the Heritage NSW Aboriginal cultural heritage consultation requirements for proponents 2010.

Please see the attached project information and proposed assessment methodology.

Comments on the proposed assessment methodology, including relevant cultural information that might affect, refine or inform the proposed methodology, should be provided by **28 August 2020**, using the contact details on the attached letter.

Kind regards,

Zac Thomas

Heritage Administration Assistant

Kelleher Nightingale Consulting Pty Ltd

Level 10, 25 Bligh St

Sydney NSW 2000

p 02 9232 5373

1

Zac Thomas

From: jesse johnson <muragadi@yahoo.com.au>
Sent: Thursday, 6 August 2020 12:06 PM
To: Zac Thomas
Subject: Re: Project Info & Methodology Letter - 1947 Sydney Business Park Stage 3, Marsden Park - MHIC

Hi Zac,
I have read the project information and methodology for the Sydney business park, Marsden Park. I agree with the recommendations made.
Thanks
Jesse Johnson

On Friday, 31 July 2020, 05:26:18 pm AEST, Zac Thomas <zac.thomas@knconsult.com.au> wrote:

Dear registered Aboriginal stakeholder,

Thank you for registering your interest to be involved in the Aboriginal cultural heritage consultation process for the proposed

warehouse and distribution facilities in the area known as 'Stage 3' of Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW. Kelleher Nightingale Consulting has been contracted to assist with Aboriginal cultural heritage assessment for the project.

This email is to inform registered stakeholders about project information and the proposed assessment methodology in accordance with the Heritage NSW Aboriginal cultural heritage consultation requirements for proponents 2010.

Please see the attached project information and proposed assessment methodology.

Comments on the proposed assessment methodology, including relevant cultural information that might affect, refine or inform the proposed methodology, should be provided by **28 August 2020**, using the contact details on the attached letter.

Kind regards,

Zac Thomas

Heritage Administration Assistant

Kelleher Nightingale Consulting Pty Ltd

Level 10, 25 Bligh St

Sydney NSW 2000

1

Zac Thomas

From: Phillip Boney <Waarlan12@outlook.com>
Sent: Sunday, 2 August 2020 9:06 PM
To: Zac Thomas
Subject: Re: Project Info & Methodology Letter - 1947 Sydney Business Park Stage 3, Marsden Park - WAG

Hi Zac,

Phil Boney here. I have read the methodology report for this project and I do not have any issues about this project or its methodology. Thank you.

With regards, Phil Boney
Wailwan Aboriginal Group

From: Zac Thomas <zac.thomas@knconsult.com.au>
Sent: Friday, 31 July 2020 12:27 AM
To: Phillip Boney <Waarlan12@outlook.com>
Subject: Project Info & Methodology Letter - 1947 Sydney Business Park Stage 3, Marsden Park - WAG

Dear registered Aboriginal stakeholder,

Thank you for registering your interest to be involved in the Aboriginal cultural heritage consultation process for the proposed
warehouse and distribution facilities in the area known as 'Stage 3' of Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW. Kelleher Nightingale Consulting has been contracted to assist with Aboriginal cultural heritage assessment for the project.

This email is to inform registered stakeholders about project information and the proposed assessment methodology in accordance with the Heritage NSW Aboriginal cultural heritage consultation requirements for proponents 2010.

Please see the attached project information and proposed assessment methodology.

Comments on the proposed assessment methodology, including relevant cultural information that might affect, refine or inform the proposed methodology, should be provided by **28 August 2020**, using the contact details on the attached letter.

Kind regards,

Zac Thomas
Heritage Administration Assistant
Kelleher Nightingale Consulting Pty Ltd
Level 10, 25 Bligh St
Sydney NSW 2000
p 02 9232 5373

1

Zac Thomas

From:	Arika Jalomaki <yulayculturalservices@gmail.com>
Sent:	Thursday, 27 August 2020 1:06 PM
To:	Zac Thomas
Subject:	Re: Project Info & Methodology Letter - 1947 Sydney Business Park Stage 3, Marsden Park - YCS

Dear Zac,

I on behalf of Yulay cultural service's support the methodology for the above project.

Kind regards,
Arika Jalomaki

On Fri, 31 Jul 2020 at 5:29 pm, Zac Thomas <zac.thomas@knconsult.com.au> wrote:

Dear registered Aboriginal stakeholder,

Thank you for registering your interest to be involved in the Aboriginal cultural heritage consultation process for the proposed

warehouse and distribution facilities in the area known as 'Stage 3' of Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW. Kelleher Nightingale Consulting has been contracted to assist with Aboriginal

cultural heritage assessment for the project.

1

Zac Thomas

From:	Bo <yurrandaali_cs@hotmail.com>
Sent:	Thursday, 6 August 2020 8:16 PM
To:	Zac Thomas
Subject:	Re: Project Info & Methodology Letter - 1947 Sydney Business Park Stage 3, Marsden Park - Yurrandaali
Follow Up Flag:	Follow up
Flag Status:	Flagged

Hi Zac

Yurrandaali supports the methodology associated with this project

Thanks
Bo Field

On Fri, 31 Jul 2020 at 5:30 pm, Zac Thomas <zac.thomas@knconsult.com.au> wrote:

Dear registered Aboriginal stakeholder,

Thank you for registering your interest to be involved in the Aboriginal cultural heritage consultation process for the proposed

warehouse and distribution facilities in the area known as ?Stage 3? of Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW. Kelleher Nightingale Consulting has been contracted to assist with Aboriginal cultural heritage assessment for the project.

This email is to inform registered stakeholders about project information and the proposed assessment methodology in accordance with the Heritage NSW Aboriginal cultural heritage consultation requirements for proponents 2010.

Please see the attached project information and proposed assessment methodology.

Comments on the proposed assessment methodology, including relevant cultural information that might affect, refine or inform the proposed methodology, should be provided by **28 August 2020**, using the contact details on the attached letter.

Kind regards,

1

Zac Thomas

From: Carolyn .H <cazadirect@live.com>
Sent: Sunday, 6 September 2020 9:58 PM
To: Zac Thomas
Subject: Re: 1947 Draft CHAR Review - Sydney Business Park Stage 3, Marsden Park - A1

A1 INDIGENOUS SERVICES PTY LTD

Contact: Carolyn Hickey
M: 0411650057
E: Cazadirect@live.com
A: 10 Marie Pitt Place, Glenmore Park, NSW 2745
ACN: 639 868 876
ABN: 31 639 868 876

Hi,
I have reviewed the document and support the Draft ACHAR.
A1 would like to be involved in any future Meetings and field work.
Kind regards
Carolyn Hickey

From: Zac Thomas <zac.thomas@knconsult.com.au>
Sent: Monday, 31 August 2020 4:58 PM
To: Caza X <cazadirect@live.com>
Subject: 1947 Draft CHAR Review - Sydney Business Park Stage 3, Marsden Park - A1

Dear Registered Aboriginal Stakeholder,

Please find attached a cover letter and a copy of the draft Aboriginal Cultural Heritage Assessment Report for the proposed warehouse and distribution facilities in the area known as 'Stage 3' of Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW.

As a registered Aboriginal stakeholder for this project, we would like to invite you to review the report and provide us with any comments or feedback regarding the assessment and the Aboriginal cultural heritage significance of the study area/Aboriginal archaeological sites.

Please forward any comments to myself or the office by **28 September 2020**. Thank you and we look forward to receiving your comments.

Kind regards,

Zac Thomas
Heritage Administration Assistant
Kelleher Nightingale Consulting Pty Ltd

1

Zac Thomas

From:	justinecoplin@optusnet.com.au
Sent:	Thursday, 3 September 2020 10:46 AM
To:	Zac Thomas
Subject:	Proposed Cultural Heritage Assessment Report Methodology
Attachments:	Proposed Cultural Heritage Assessment Report Methodology.pdf
Follow Up Flag:	Follow up
Flag Status:	Completed

Message protected by MailGuard: e-mail anti-virus, anti-spam and content filtering.
http://www.mailguard.com.au/mg

Report this message as spam

1

DARUG CUSTODIAN
ABORIGINAL CORPORATION

DARUG CUSTODIAN
ABORIGINAL
CORPORATION

PO BOX 81 WINDSOR 2756
PHONE: 0245775181 FAX: 0245775098
MOBILE: 0415770163 Leanne Watson
0414962766 Justine Coplin
EMAIL: mulgokiwi@bigpond.com / justinecoplin@optusnet.com.au

Attention: KNC **Date:03092020**

Subject: Proposed Cultural Heritage Assessment Report Methodology 'Stage 3' of Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW.

Dear Zac

Our group is a non-profit organisation that has been active for over forty years in Western Sydney, we are a Darug community group with over three hundred members. The main aim in our constitution is the care of Darug sites, places, wildlife and to promote our culture and provide education on the Darug history.

Our group promotes Darug Culture and works on numerous projects that are culturally based as a proud and diverse group. It has been discussed by our group and with many consultants and researches that our history is generic and is usually from an early colonists perspective or solely based on archaeology and sites. These histories are adequate but they lack the people's stories and parts of important events and connections of the Darug people and also other Aboriginal people that now call this area home and have done so for numerous generations.

This area is significant to the Darug people due to the evidence of continued occupation, within close proximity to this project site there is a complex of significant sites.

Landscapes and landforms are significant to us for the information that they hold and the connection to Darug people. Aboriginal people (Darug) had a complex lifestyle that was

based on respect and belonging to the land, all aspects of life and survival did not impact on the land but helped to care for and conserve land and the sustenance that the land provided. As Darug people moved through the land there were no impacts left, although there was evidence of movement and lifestyle, the people moved through areas with knowledge of their areas

and followed signs that were left in the landscape. Darug people knew which areas were not to be entered and respected the areas that were sacred.

Knowledge of culture, lifestyle and lore have been part of Darug people's lives for thousands of years, this was passed down to the next generations and this started with birth and continued for a lifetime. Darug people spent a lifetime learning and as people grew older they passed through stages of knowledge, elders became elders with the learning of stages of knowledge not by their age, being an elder is part of the kinship system this was a very complicated system based on respect.

Darug sites are all connected, our country has a complex of sites that hold our heritage and past history, evidence of the Darug lifestyle and occupation are all across our country, due to the rapid development of Sydney many of our sites have been destroyed, our sites are thousands of years old and within the short period of time that Australia has been developed pre contact our sites have disappeared.

The *Aboriginal cultural heritage consultation requirements for proponents* Section 4.1.8 refers to "Aboriginal organisations representing Aboriginal people who hold cultural knowledge". Recent consultation meetings have revealed that many of these Aboriginal organisations and individuals do not hold cultural knowledge of the Western Sydney area. The increasing involvement of such parties in cultural heritage management means that genuine local Aboriginal organisations are unable to properly care for our cultural heritage.

Many Aboriginal organisations listed in the OEH response letter do not contribute to the Aboriginal community of Western Sydney. Individuals listed in the OEH response letter do not represent the community and while they may be consulted with, should not be employed for their own personal financial benefit.

Our organisation is committed to providing benefits back to our local Aboriginal community through such measures as funding the local Aboriginal juniors' touch football team, painting classes for the local children and donating money to various charities. Employment in cultural heritage activities is source of income that organisations such as ours can use to contribute to beneficial activities and support within the community.

Darug custodian Aboriginal Corporation's site officers have knowledge of Darug land, Darug Culture,Oral histories, landforms, sites, Darug history, wildlife, flora and legislative

requirements. We have worked with consultants and developers for many years in Western Sydney (Darug Land) for conservation, site works, developments and interpretation/education strategie

Darug Custodian Aboriginal Corporation have received and reviewed the Proposed Cultural Heritage Assessment Report Methodology.

We look forward to receiving the methodology for review for this project.

Please contact us with all further enquiries on the above contacts.

Regards

Justine Coplin

Zac Thomas

From: lilly carroll <didgengunawalclan@yahoo.com.au>
Sent: Monday, 31 August 2020 6:30 PM
To: Zac Thomas
Subject: Re: 1947 Draft CHAR Review - Sydney Business Park Stage 3, Marsden Park - DNC

Hi Zac,

As always DNC he's happy for the methodology towards the project at Sydney business Park Marsden Park

Kind regards
Paul Boyd & Lilly Carroll
Directors DNC

Sent from Yahoo Mail for iPhone

On Monday, August 31, 2020, 5:02 pm, Zac Thomas <zac.thomas@knconsult.com.au> wrote:

Dear Registered Aboriginal Stakeholder,

Please find attached a cover letter and a copy of the draft Aboriginal Cultural Heritage Assessment Report for the proposed warehouse and distribution facilities in the area known as 'Stage 3' of Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW.

As a registered Aboriginal stakeholder for this project, we would like to invite you to review the report and provide us with any comments or feedback regarding the assessment and the Aboriginal cultural heritage significance of the study area/Aboriginal archaeological sites.

Please forward any comments to myself or the office by **28 September 2020**. Thank you and we look forward to receiving your comments.

Kind regards,

Zac Thomas

Heritage Administration Assistant

Kelleher Nightingale Consulting Pty Ltd

Level 10, 25 Bligh St

1

Zac Thomas

From: philip khan <philipkhan.acn@live.com.au>
Sent: Tuesday, 29 September 2020 2:39 PM
To: Zac Thomas
Subject: RE: 1947 Draft CHAR Review - Sydney Business Park Stage 3, Marsden Park - KYWG

Hi Zac,

Thank you for your Draft CHAR, to us Aboriginal People this area still holds high significance & spiritual feelings as it was a area that our people camped & there could be the possibility of burial sites. I understand where you are coming from and support your impact to the site in the form of salvage excavation is not warranted in this place, I would like to see that the area is monitored by a archaeologist & Aboriginal Reps. MP1P17 AHIMS 45 – 5-3748 & MP1P18 AHIMS 45 – 5 – 3749 & support all your recommendations that the Non-Impacted Portion of the situ is divided by Proposed Development & Construction activities management measures to be implemented including demarcation of MP1P with protective fencing & identification of this area as a environmental sensitive "No Go Zone" , I think this will make our spirit people happy & our people still at Bidwill.

Kind Regards
Phil Khan

Sent from Mail for Windows 10

From: Zac Thomas
Sent: Monday, 31 August 2020 5:03 PM
To: philip khan
Subject: 1947 Draft CHAR Review - Sydney Business Park Stage 3, Marsden Park - KYWG

Dear Registered Aboriginal Stakeholder,

Please find attached a cover letter and a copy of the draft Aboriginal Cultural Heritage Assessment Report for the proposed warehouse and distribution facilities in the area known as 'Stage 3' of Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW.

As a registered Aboriginal stakeholder for this project, we would like to invite you to review the report and provide us with any comments or feedback regarding the assessment and the Aboriginal cultural heritage significance of the study area/Aboriginal archaeological sites.

Please forward any comments to myself or the office by **28 September 2020**. Thank you and we look forward to receiving your comments.

1

Zac Thomas

From:	Darleen Johnson <murrabidgeemullangari@yahoo.com.au>
Sent:	Thursday, 3 September 2020 5:25 PM
To:	Zac Thomas
Subject:	Re: 1947 Draft CHAR Review - Sydney Business Park Stage 3, Marsden Park - MBMAC

Hi Zac,
I have read the project information and ACHAR for the above project, I endorse the recommendations made
Kind regards
Darleen Johnson

On Monday, 31 August 2020, 05:03:29 pm AEST, Zac Thomas <zac.thomas@knconsult.com.au> wrote:

Dear Registered Aboriginal Stakeholder,

Please find attached a cover letter and a copy of the draft Aboriginal Cultural Heritage Assessment Report for the proposed warehouse and distribution facilities in the area known as 'Stage 3' of Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW.

As a registered Aboriginal stakeholder for this project, we would like to invite you to review the report and provide us with any comments or feedback regarding the assessment and the Aboriginal cultural heritage significance of the study area/Aboriginal archaeological sites.

Please forward any comments to myself or the office by **28 September 2020**. Thank you and we look forward to receiving your comments.

Kind regards,

Zac Thomas

Heritage Administration Assistant

Kelleher Nightingale Consulting Pty Ltd

Level 10, 25 Bligh St

Sydney NSW 2000

p 02 9232 5373

1

Zac Thomas

From: Phillip Boney <Waarlan12@outlook.com>
Sent: Tuesday, 1 September 2020 8:54 PM
To: Zac Thomas
Subject: Re: 1947 Draft CHAR Review - Sydney Business Park Stage 3, Marsden Park - WAG

Hi Zac,

Phil here. At this stage I have nothing more to add to this assessment regarding Aboriginal cultural heritage you guys did a great job in that respect.

Regards, Phil Boney
Wailwan Aborignal Group

From: Zac Thomas <zac.thomas@knconsult.com.au>
Sent: Monday, 31 August 2020 12:04 AM
To: Phillip Boney <Waarlan12@outlook.com>
Subject: 1947 Draft CHAR Review - Sydney Business Park Stage 3, Marsden Park - WAG

Dear Registered Aboriginal Stakeholder,

Please find attached a cover letter and a copy of the draft Aboriginal Cultural Heritage Assessment Report for the proposed warehouse and distribution facilities in the area known as 'Stage 3' of Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW.

As a registered Aboriginal stakeholder for this project, we would like to invite you to review the report and provide us with any comments or feedback regarding the assessment and the Aboriginal cultural heritage significance of the study area/Aboriginal archaeological sites.

Please forward any comments to myself or the office by **28 September 2020**. Thank you and we look forward to receiving your comments.

Kind regards,

Zac Thomas
Heritage Administration Assistant
Kelleher Nightingale Consulting Pty Ltd
Level 10, 25 Bligh St
Sydney NSW 2000
p 02 9232 5373

1

Appendix C AHIMS Search Results

Office of Environment & Heritage NSW

AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : 1947

Client Service ID : 521834

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status	SiteFeatures	SiteTypes	Reports
45-5-2031	MP3 Marsden Park	GDA	56	298664	6266959	Open site	Destroyed	Artefact : -	Open Camp Site	4152
Contact		Recorders	Helen Brayshaw,Matthew Kelleher,Ms.Laila Haglund,Kelleher Nightingale Consultin					Permits		
45-5-2032	MP4 Marsden Park	GDA	56	299144	6267239	Open site	Destroyed	Artefact : -	Open Camp Site	4152
Contact		Recorders	Helen Brayshaw,Matthew Kelleher,Ms.Laila Haglund,Kelleher Nightingale Consultin					Permits		
45-5-2040	MP 12 Marsden Park	GDA	56	299115	6267040	Open site	Destroyed	Artefact : -	Open Camp Site	4152
Contact		Recorders	Helen Brayshaw,Ms.Laila Haglund,Kelleher Nightingale Consulting Pty Ltd,Miss.Kri					Permits	3909	
45-5-3315	Western Sydney 3	GDA	56	298624	6266125	Open site	Valid	Artefact : 2		100559
Contact	Searle	Recorders	Navin Officer Heritage Consultants Pty Ltd					Permits		
45-5-2380	SROS1;	AGD	56	297880	6266910	Open site	Valid	Artefact : -	Open Camp Site	3759
Contact		Recorders	Mr.Neville Baker,Central West Archaeological and Heritage Services Pty Ltd					Permits		
45-5-3863	MPIF 31	AGD	56	297712	6266594	Open site	Valid	Artefact : 4		
Contact	Deerubbin LALC	Recorders	Kelleher Nightingale Consulting Pty Ltd					Permits		
45-5-3864	MPIF 29	AGD	56	297610	6266194	Open site	Valid	Artefact : 5		
Contact	Deerubbin LALC	Recorders	Kelleher Nightingale Consulting Pty Ltd					Permits		
45-5-3865	MPIF 30	AGD	56	297491	6266623	Open site	Valid	Artefact : -		
Contact	Deerubbin LALC	Recorders	Kelleher Nightingale Consulting Pty Ltd					Permits		
45-5-1022	ADF-17;	AGD	56	298950	6266040	Open site	Valid	Artefact : -	Open Camp Site	
Contact		Recorders	Margrit Koettig,Rex Silcox,Miss.Marjorie Sullivan,Phil Hughes					Permits		
45-5-2381	SROS2;	AGD	56	297720	6267160	Open site	Valid	Artefact : -	Open Camp Site	3759
Contact		Recorders	Mr.Neville Baker,Central West Archaeological and Heritage Services Pty Ltd					Permits		
45-5-2382	SROS7;	AGD	56	297800	6267210	Open site	Valid	Artefact : -	Open Camp Site	3759
Contact		Recorders	Mr.Neville Baker,Central West Archaeological and Heritage Services Pty Ltd					Permits	870	
45-5-2384	SROS5;	GDA	56	297944	6266709	Open site	Valid	Artefact : -	Open Camp Site	3759
Contact		Recorders	Mr.Neville Baker,Central West Archaeological and Heritage Services Pty Ltd,OzArk					Permits	892	
45-5-2386	SROS3;	AGD	56	297720	6267120	Open site	Valid	Artefact : -	Open Camp Site	3759
Contact		Recorders	Mr.Neville Baker,Central West Archaeological and Heritage Services Pty Ltd					Permits		
45-5-3744	MPIF 15	GDA	56	299090	6266400	Open site	Valid	Artefact : 1		
Contact		Recorders	Kelleher Nightingale Consulting Pty Ltd					Permits	4171	
45-5-3745	MPIF 15A	GDA	56	299072	6266474	Open site	Valid	Artefact : 1		
Contact		Recorders	Kelleher Nightingale Consulting Pty Ltd					Permits	4171	
45-5-3747	MPIF 16	GDA	56	299143	6266957	Open site	Valid	Artefact : 2		
Contact		Recorders	Kelleher Nightingale Consulting Pty Ltd					Permits		
45-5-3748	MPIF 17	GDA	56	298438	6266288	Open site	Valid	Artefact : 2		
Contact		Recorders	Kelleher Nightingale Consulting Pty Ltd					Permits		

Report generated by AHIMS Web Service on 21/07/2020 for Matthew Kelleher for the following area at Datum :GDA, Zone : 56, Eastings : 297387 - 299192, Northings : 6265766 - 6267406 with a Buffer of 0 meters. Additional Info : Arch Assessment. Number of Aboriginal sites and Aboriginal objects found is 32

This information is not guaranteed to be free from error omission. Office of Environment and Heritage (NSW) and its employees disclaim liability for any act done or omission made on the information and consequences of such acts or omission.

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Office of Environment & Heritage NSW

AHIMS Web Services (AWS)

Extensive search - Site list report

Your Ref/PO Number : 1947
Client Service ID : 521834

SiteID	SiteName	Datum	Zone	Easting	Northing	Context	Site Status	SiteFeatures	SiteTypes	Reports
45-5-3749	MPIP 18	GDA	56	298368	6266361	Open site	Valid	Artefact : 9		
Contact		Recorders	Kelleher Nightingale Consulting Pty Ltd					Permits		
45-5-3750	MPIP 19	GDA	56	298236	6266549	Open site	Valid	Artefact : 2		
Contact		Recorders	Kelleher Nightingale Consulting Pty Ltd					Permits	3928	
45-5-3751	MPIP 20	GDA	56	297986	6266350	Open site	Valid	Artefact : 1		
Contact		Recorders	Kelleher Nightingale Consulting Pty Ltd					Permits		
45-5-3752	MPIP 21	GDA	56	298020	6266770	Open site	Valid	Artefact : 1		
Contact		Recorders	Kelleher Nightingale Consulting Pty Ltd					Permits		
45-5-3753	MPIP 21A	GDA	56	297998	6266831	Open site	Valid	Artefact : 4		
Contact		Recorders	Kelleher Nightingale Consulting Pty Ltd					Permits		
45-5-3754	MPIP 22	GDA	56	298150	6267010	Open site	Destroyed	Artefact : 1		
Contact		Recorders	Kelleher Nightingale Consulting Pty Ltd,Kelleher Nightingale Consulting Pty Ltd,Mi					Permits	3909	
45-5-3755	MPIP 22A	GDA	56	298160	6266975	Open site	Destroyed	Artefact : 3		
Contact		Recorders	Kelleher Nightingale Consulting Pty Ltd,Kelleher Nightingale Consulting Pty Ltd,Mi					Permits	3909	
45-5-3756	MPIP 23	GDA	56	298170	6267395	Open site	Destroyed	Artefact : 1		
Contact		Recorders	Kelleher Nightingale Consulting Pty Ltd,Kelleher Nightingale Consulting Pty Ltd,Mi					Permits	3909	
45-5-2034	MPS Marsden Park	GDA	56	299154	6267359	Open site	Destroyed	Artefact : -	Open Camp Site	4152
Contact		Recorders	Helen Brayshaw,Matthew Kelleher,Ms.Laila Haglund,Kelleher Nightingale Consultin					Permits		
45-5-4179	MPP-16	GDA	56	297789	6266917	Open site	Valid	Artefact : 3		
Contact		Recorders	Kelleher Nightingale Consulting Pty Ltd					Permits		
45-5-4180	MPP-17	GDA	56	297954	6266788	Open site	Valid	Artefact : 1		
Contact		Recorders	Kelleher Nightingale Consulting Pty Ltd					Permits		
45-5-4620	MPIP PAD 3	GDA	56	298179	6266413	Open site	Valid	Potential Archaeological Deposit (PAD) : -		
Contact		Recorders	Kelleher Nightingale Consulting Pty Ltd					Permits		
45-5-5217	South St 2	GDA	56	298056	6266363	Open site	Valid	Artefact : -		
Contact		Recorders	OzArk Environmental and Heritage Management,Miss.Stephanie Rusden.					Permits		
45-5-4904	South St 1	GDA	56	298002	6266477	Open site	Valid	Artefact : 1		
Contact		Recorders	Eco Logical Australia Pty Ltd - Sydney - Individual users,Beebe Tyler					Permits		
45-5-4894	Hollinsworth Industrial IF2	GDA	56	298648	6266553	Open site	Valid	Artefact : -		
Contact		Recorders	Mr.Oliver Brown,Associates Archaeology and Heritage					Permits	4171	

Report generated by AHIMS Web Service on 21/07/2020 for Matthew Kelleher for the following area at Datum : GDA, Zone : 56, Eastings : 297387 - 299192, Northings : 6265766 - 6267406 with a Buffer of 0 meters. Additional Info : Arch Assessment. Number of Aboriginal sites and Aboriginal objects found is 32

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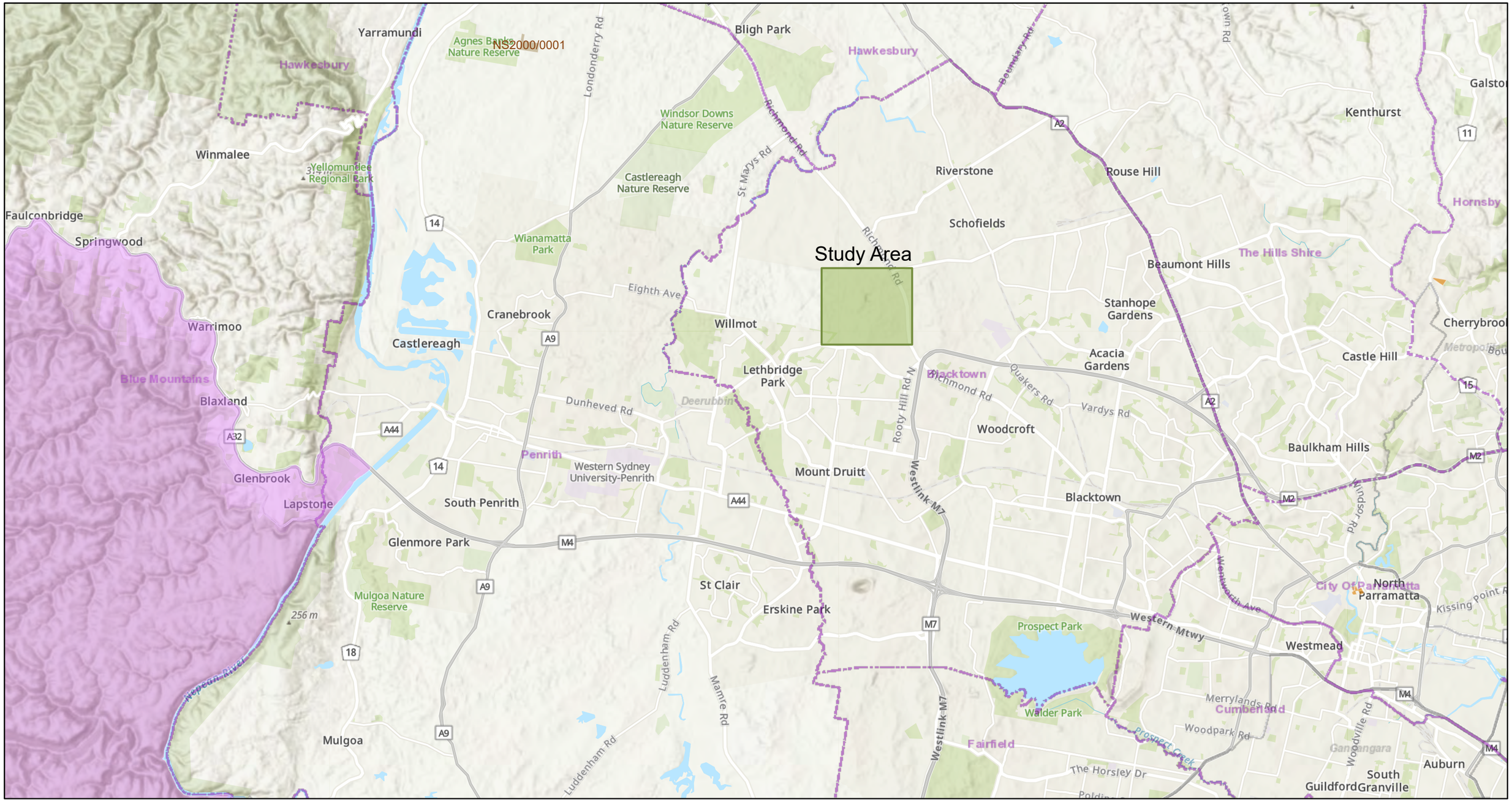
Page 2 of 2

Appendix D Aboriginal Stakeholder Consultation Records

Native TitleVision Web Map



6/22/2020, 4:44:51 PM

RATSIB Areas

Determinations

In effect - Finalised

Determined Outcomes

Native title does not exist

Indigenous Land Use Agreements

ILUA registered

Future Act Notices (Current)

Local Government Areas

Local Aboriginal Land Councils

1:144,448

0 1.5 3 6 mi

0 2.25 4.5 9 km

Sources: Esri, Airbus DS, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NMA, Geodatastyrelsen, Rijkswaterstaat, GSA, Geoland, FEMA, Intermap and the GIS user community, Sources: Esri, HERE, Garmin, FAO, NOAA, USGS, © OpenStreetMap

Native TitleVision

Esri, USGS | Esri, HERE, Garmin, FAO, METI/NASA, USGS |

Kelleher
Nightingale Consulting Pty Ltd

Level 10
25 Bligh Street
Sydney NSW 2000
p 02 9232 5373

22 June 2020

The General Manager
Blacktown City Council
PO Box 63
Blacktown NSW 2148

Dear Sir/Madam

RE. STAGE 3 FACILITIES SYDNEY BUSINESS PARK – MARSDEN PARK, NSW
Request for information regarding potential Aboriginal stakeholders as required under the *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010*

Marsden Park Developments Pty Ltd is proposing to develop four world-class warehouse and distribution facilities in the area known as 'Stage 3' of Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW. The project is located in the Blacktown City Council local government area. The proponent is Marsden Park Developments Pty Ltd (Michael Gray, Infrastructure Director: 15 Hollinsworth Road, Marsden Park NSW 2765).

Marsden Park Developments Pty Ltd will be seeking approval through a State Significant Development (SSD) application under the NSW *Environmental Planning & Assessment Act 1979.* Marsden Park Developments Pty Ltd proposes to carry out consultation with Aboriginal communities in accordance with the DPIE *Aboriginal cultural heritage consultation requirements for proponents 2010*. The purpose of this consultation process is to inform the preparation of an Environmental Impact Statement (EIS) and to assist DPIE in its consideration of the proposal. Kelleher Nightingale Consulting Pty Ltd has been engaged by Marsden Park Developments Pty Ltd to facilitate the consultation process.

In following section 4.1.2 of the consultation requirements, it would be appreciated if your organisation could provide a list of the names of Aboriginal people who may hold cultural knowledge relevant to determining the significance of Aboriginal objects or Aboriginal places at Marsden Park, NSW. It would be appreciated if you could provide your response to:

Marsden Park Developments Pty Ltd
c/- Kelleher Nightingale Consulting Pty Ltd
Level 10, 25 Bligh St
SYDNEY NSW 2000
zac.thomas@knconsult.com.au

Thank you for your assistance and advice in this matter. If you have any questions or would like to discuss this further, please contact our office on 02 9232 5373.

Yours sincerely,

Z. Thomas

Zac Thomas

Kelleher
Nightingale Consulting Pty Ltd

Level 10
25 Bligh Street
Sydney NSW 2000
p 02 9232 5373

22 June 2020

CEO
Deerubbin Local Aboriginal Land Council
PO Box 40
PENRITH BC NSW 2751
Via email: staff@deerubbin.org.au; srandall@deerubbin.org.au

Dear Sir/Madam

RE. STAGE 3 FACILITIES SYDNEY BUSINESS PARK – MARSDEN PARK, NSW
Request for information regarding potential Aboriginal stakeholders as required under the *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010*

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Yours sincerely,

Z. Thomas

Zac Thomas

Kelleher
Nightingale Consulting Pty Ltd

Level 10
25 Bligh Street
Sydney NSW 2000
p 02 9232 5373

22 June 2020

Senior Team Leader, Planning
Metro Branch, Greater Sydney Region
Department of Planning, Industry and Environment
PO Box 644
PARRAMATTA NSW 2124
Via email: gs.ach@environment.nsw.gov.au

Dear Sir/Madam

RE. STAGE 3 FACILITIES SYDNEY BUSINESS PARK – MARSDEN PARK, NSW
Request for information regarding potential Aboriginal stakeholders as required under the *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010*

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Yours sincerely,

Z. Thomas

Zac Thomas

Kelleher
Nightingale Consulting Pty Ltd

Level 10
25 Bligh Street
Sydney NSW 2000
p 02 9232 5373

22 June 2020

The General Manager
Greater Sydney Local Land Services
PO Box 4515
WESTFIELD PENRITH NSW 2750

Dear Sir/Madam

RE. STAGE 3 FACILITIES SYDNEY BUSINESS PARK – MARSDEN PARK, NSW
Request for information regarding potential Aboriginal stakeholders as required under the *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010*

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Yours sincerely,

Z. Thomas

Zac Thomas

Kelleher
Nightingale Consulting Pty Ltd

Level 10
25 Bligh Street
Sydney NSW 2000
p 02 9232 5373

22 June 2020

National Native Title Tribunal
Sydney Office, Operations East
Via email: GeospatialSearch@NNTT.gov.au

Dear Sir/Madam

RE. STAGE 3 FACILITIES SYDNEY BUSINESS PARK – MARSDEN PARK, NSW
Request for information regarding potential Aboriginal stakeholders as required under the *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010*

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Yours sincerely,

Z. Thomas

Zac Thomas

Kelleher
Nightingale Consulting Pty Ltd

Level 10
25 Bligh Street
Sydney NSW 2000
p 02 9232 5373

22 June 2020

NTSCORP Limited
PO Box 2105
STRAWBERRY HILLS NSW 2012

Dear Sir/Madam

RE. STAGE 3 FACILITIES SYDNEY BUSINESS PARK – MARSDEN PARK, NSW
Request for information regarding potential Aboriginal stakeholders as required under the *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010*

Marsden Park Developments Pty Ltd is proposing to develop four world-class warehouse and distribution facilities in the area known as 'Stage 3' of Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW. The project is located in the Blacktown City Council local government area. The proponent is Marsden Park Developments Pty Ltd (Michael Gray, Infrastructure Director: 15 Hollinsworth Road, Marsden Park NSW 2765).

Marsden Park Developments Pty Ltd will be seeking approval through a State Significant Development (SSD) application under the NSW *Environmental Planning & Assessment Act 1979.* Marsden Park Developments Pty Ltd proposes to carry out consultation with Aboriginal communities in accordance with the DPIE *Aboriginal cultural heritage consultation requirements for proponents 2010*. The purpose of this consultation process is to inform the preparation of an Environmental Impact Statement (EIS) and to assist DPIE in its consideration of the proposal. Kelleher Nightingale Consulting Pty Ltd has been engaged by Marsden Park Developments Pty Ltd to facilitate the consultation process.

In following section 4.1.2 of the consultation requirements, it would be appreciated if your organisation could provide a list of the names of Aboriginal people who may hold cultural knowledge relevant to determining the significance of Aboriginal objects or Aboriginal places at Marsden Park, NSW. It would be appreciated if you could provide your response to:

Marsden Park Developments Pty Ltd
c/- Kelleher Nightingale Consulting Pty Ltd
Level 10, 25 Bligh St
SYDNEY NSW 2000
zac.thomas@knconsult.com.au

Thank you for your assistance and advice in this matter. If you have any questions or would like to discuss this further, please contact our office on 02 9232 5373.

Yours sincerely,

Z. Thomas

Zac Thomas

Kelleher
Nightingale Consulting Pty Ltd

Level 10
25 Bligh Street
Sydney NSW 2000
p 02 9232 5373

22 June 2020

Office of the Registrar
Aboriginal Land Rights Act
PO Box 5068
PARRAMATTA NSW 2124

Dear Sir/Madam

RE. STAGE 3 FACILITIES SYDNEY BUSINESS PARK – MARSDEN PARK, NSW
Request for information regarding potential Aboriginal stakeholders as required under the *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010*

Marsden Park Developments Pty Ltd is proposing to develop four world-class warehouse and distribution facilities in the area known as 'Stage 3' of Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW. The project is located in the Blacktown City Council local government area. The proponent is Marsden Park Developments Pty Ltd (Michael Gray, Infrastructure Director: 15 Hollinsworth Road, Marsden Park NSW 2765).

Marsden Park Developments Pty Ltd will be seeking approval through a State Significant Development (SSD) application under the NSW *Environmental Planning & Assessment Act 1979.* Marsden Park Developments Pty Ltd proposes to carry out consultation with Aboriginal communities in accordance with the DPIE *Aboriginal cultural heritage consultation requirements for proponents 2010*. The purpose of this consultation process is to inform the preparation of an Environmental Impact Statement (EIS) and to assist DPIE in its consideration of the proposal. Kelleher Nightingale Consulting Pty Ltd has been engaged by Marsden Park Developments Pty Ltd to facilitate the consultation process.

In following section 4.1.2 of the consultation requirements, it would be appreciated if your organisation could provide a list of the names of Aboriginal people who may hold cultural knowledge relevant to determining the significance of Aboriginal objects or Aboriginal places at Marsden Park, NSW. It would be appreciated if you could provide your response to:

Marsden Park Developments Pty Ltd
c/- Kelleher Nightingale Consulting Pty Ltd
Level 10, 25 Bligh St
SYDNEY NSW 2000
zac.thomas@knconsult.com.au

Thank you for your assistance and advice in this matter. If you have any questions or would like to discuss this further, please contact our office on 02 9232 5373.

Yours sincerely,

Z. Thomas

Zac Thomas

Zac Thomas

From: Sue Galt <Sue.Galt@blacktown.nsw.gov.au>
Sent: Monday, 3 August 2020 11:49 AM
To: Zac Thomas
Subject: STAGE 3 FACILITIES SYDNEY BUSINESS PARK - MARSDEN PARK, NSW

Dear Zac,

Thank you for your email dated 22 June 2020 regarding Aboriginal stakeholders contact details relevant to the above.

The NSW Department of Planning, Industry and Environment (DPIE) has advised us that the consultation list for this purpose is confidential and may only be obtained on a project by project basis from the agency administering Aboriginal Cultural Heritage regulation (e.g. Aboriginal Heritage Impact Permits (AHIPS), Registered Aboriginal Parties, Care Agreements, etc). We have been advised that as from 1 July 2020 enquiries regarding Aboriginal Cultural Heritage regulation (e.g. Aboriginal Heritage Impact Permits (AHIPS), Registered Aboriginal Parties, Care Agreements, etc) should now be referred to Heritage NSW.

Your enquiry regarding Aboriginal stakeholders therefore is best directed to heritagemailbox@environment.nsw.gov.au, or (02) 9873 8500.

Regards,

Sue.

Blacktown City Council

Sue Galt
Senior Policy/Heritage Planner

9839 6216
0414 194 474
Sue.Galt@blacktown.nsw.gov.au
PO Box 63 Blacktown NSW 2148
blacktown.nsw.gov.au

Follow us on social media

Our reference: Doc20/534817

Zac Thomas
Kelleher Nightingale Consulting Pty Ltd
Level 10, 25 Bligh St
SYDNEY NSW 2000

Dear Zac,

Thank you for your letter dated 22 June 2020 to the Department of Planning, Industry and Environment regarding obtaining a list of the Aboriginal stakeholders that may have an interest in the proposed development at Stage 3' of Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW.

Please note: on 1 July 2020 the Aboriginal Cultural Heritage Regulation functions under the *National Parks and Wildlife Act 1974* were transferred from the Department of Planning, Industry and Environment into Heritage NSW in the Department of Premier and Cabinet (DPC).

Please find attached the list of Aboriginal stakeholders known to DPC that may have an interest in the project.

As the Planning and Assessment Group in the Department of Planning, Industry and Environment is the approval authority for this project, the consultation process should be in accordance with the relevant guidelines as stipulated by the Group.

If you wish to discuss any of the above matter further please email:
heritagemailbox@environment.nsw.gov.au

Yours sincerely

10 July 2020

Jackie Taylor
Senior Team Leader
Aboriginal Cultural Heritage Regulation - South
Heritage NSW

LIST OF ABORIGINAL STAKEHOLDERS FOR THE GREATER SYDNEY BRANCH HELD BY OEH FOR THE PURPOSES OF THE *ABORIGINAL CULTURAL HERITAGE CONSULTATION REQUIREMENTS FOR PROPONENTS 2010*

These lists are provided to proponents in accordance with section 4.1.2 of the *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010* (the "Consultation Requirements") which commenced on 12 April 2010.

The consultation process involves getting the views of, and information from, Aboriginal people and reporting on these. It is not to be confused with other field assessment processes involved in preparing a proposal and an application. Consultation does not include the employment of Aboriginal people to assist in field assessment and/or site monitoring. Aboriginal people may provide services to proponents through a contractual arrangement however, this is separate from consultation. The proponent is not obliged to employ those Aboriginal people registered for consultation. Consultation as per these requirements will continue irrespective of potential or actual employment opportunities for Aboriginal people.

A copy of the Consultation Requirements can be found on the OEH website at: http://www.environment.nsw.gov.au/resources/cultureheritage/commconsultation/09781ACHconsultreq.pdf.

Under the Consultation Requirements; a proponent is required to provide Aboriginal people who hold cultural knowledge relevant to determining the cultural significance of Aboriginal objects and/or places as relevant to the proposed project area, with an opportunity to be involved in consultation. Section 3.3.1 of the Consultation Requirements states that Aboriginal people who can provide this information are, based on Aboriginal lore and custom, the traditional owners or custodians of the land that is the subject of the proposed project.

The Consultation Requirements also state that:

Traditional owners or custodians with appropriate cultural heritage knowledge to inform decision making who seek to register their interest as an Aboriginal party are those people who:

- *continue to maintain a deep respect for their ancestral belief system, traditional lore and custom*
- *recognise their responsibilities and obligations to protect and conserve their culture and heritage and care for their traditional lands or Country*
- *have the trust of their community, knowledge and understanding of their culture, and permission to speak about it.*

Please note: the placement of an organisation's name on any OEH Aboriginal stakeholder list for the Consultation Requirements does not override a proponent's requirement to also advertise in the local newspaper and to seek from other sources the names of any other Aboriginal people who may hold cultural knowledge as required under clause 80C of the National Parks and Wildlife Regulation 2009.

How to use this list

1. **Determine which Local Government Area/s (LGA/s) your project area falls into**
2. **Identify which organisations and individuals on the list have an interest in the LGA/s relevant to your project – identified in column 6 of the list**
3. **Contact the organisations/individuals who have indicated an interest in the relevant LGA/s and invite them to register an interest in your project**

Do not reproduce the attached list in publicly available reports and other documents. Your report should only contain the names of the organisations and individuals who you have invited to register an interest in your project and those who have registered as stakeholders for your project.

PLEASE NOTE: THE STAKEHOLDER LIST HAS NOT BEEN UPDATED TO INCLUDE THE RECENT COUNCIL MERGERS AND NAME CHANGES. PLEASE CONSIDER THE PRE-MERGER COUNCIL BOUNDARIES WHEN DETERMINING WHO SHOULD BE INVITED TO REGISTER FOR YOUR PROJECT. Last updated 15 June 2020

Organisation/ Individual	Contact Name	Phone Number	Email Address/ Fax	Postal Address	LGA's		Additional information
Deerubbin Local Aboriginal Land Council	Kevin Cavanagh	(02) 4724 5600	srandall@deerubbin.org.au Reception@deerubbin.org.au F: (02) 4722 9713	Level 1, Suite 3 291-295 High Street, Penrith NSW 2750 PO Box 40, Penrith NSW 2751	Hawkesbury Blacktown Penrith Fairfield	Holroyd Blue Mountains The Hills Shire Parramatta	
Tharawal Local Aboriginal Land Council	Robyn Straub (CEO)	(02) 46810059	ceo@tharawal.com.au reception@tharawal.com.au	PO Box 245 Thirlmere NSW 2572	Camden Campbelltown Wollondilly	Sutherland Liverpool	
Metropolitan Local Aboriginal Land Council	Nathan Moran	(02) 83949666	officeadmin@metrolalc.org.au	PO Box 1103 Strawberry Hills NSW 2016	The Hills Shire Sydney Kogarah Hurstville Rockdale Canterbury Marrickville Bankstown Strathfield Burwood Ashfield Auburn Canada Bay Hawkesbury	Leichhardt Manly Mosman North Sydney Lane Cove Hunters Hill Hornsby Ku-Ring-Gai Pittwater Botany Bay Ryde Warringah Willoughby	
Gandangara Local Aboriginal Land Council	Melissa Williams CEO	(02) 96025280	**mwilliams@glalc.org.au**	PO Box 1038 Liverpool NSW 2170	Liverpool Fairfield Holroyd Parramatta	Auburn Bankstown Sutherland	
La Perouse Local Aboriginal Land Council	Chris Ingrey	(02) 9311 4282	admin@laperouse.org.au	PO Box 365 Matraville NSW 2036	Sutherland Randwick Botany Bay Waverly	Woollahra Sydney Rockdale	
Parramatta City Council Aboriginal Advisory Committee	Parramatta City Council	(02)9806 5050	Not provided	PO Box 32, Parramatta, NSW, 2124	Parramatta		
Holroyd City Council Advisory Committee	Holroyd City Council	(02) 9840 9840	Not provided	P.O. Box 42, Merrylands, NSW 2160	Holroyd		
Darug Custodian Aboriginal Corporation	Justine Coplin	0414 962 766	justinecoplin@optusnet.com.au	PO Box 81, Windsor NSW 2756	Hawkesbury Blacktown Penrith Fairfield Holroyd Blue Mountains	Camden Campbelltown The Hills Shire Liverpool Parramatta	

Organisation/ Individual	Contact Name	Phone Number	Email Address/ Fax	Postal Address	LGA's	Additional information
Darug Tribal Aboriginal Corporation	Not provided	02 9622 4081	Not provided	PO Box 441, Blacktown NSW 2148	Hawkesbury Blacktown Penrith Fairfield Holroyd Blue Mountains Camden Campbelltown The Hills Shire Liverpool Parramatta	
Darug Aboriginal Cultural Heritage Assessments	Gordon Morton	02 9410 3665 or 0422 865 831	Not provided	Unit 9, 6 Chapman Avenue, Chatswood, NSW 2067	Hawkesbury Blacktown Penrith Fairfield Holroyd Blue Mountains Camden Campbelltown The Hills Shire Liverpool Parramatta Sydney Kogarah Hurstville Rockdale Canterbury Marrickville Bankstown Strathfield Burwood Ashfield Auburn Canada Bay Leichhardt Manly Mosman North Sydney Lane Cove Hunters Hill Hornsby Ku-Ring-Gai Pittwater Botany Bay Ryde Warringah Willoughby	
Darug Land Observations	Jamie Workman and Anna Workman	0418 494 951 0413 687 279	daruglandobservations@gmail.com	PO Box 173, Ulladulla, NSW 2539	Ashfield Auburn Bankstown Blacktown Blue Mountains Botany Bay Burwood Camden Campbelltown Canada Bay Canterbury Fairfield Hawkesbury The Hills Holroyd Hornsby Hunter's Hill Hurstville Kogarah Ku-ring-gai Lane Cove Leichhardt Liverpool Manly Marrickville Mosman North Sydney Parramatta Penrith Pittwater Randwick Rockdale Ryde Strathfield Sutherland Sydney Warringah Waverley Willoughby Woollahra Wollondilly	

Organisation/ Individual	Contact Name	Phone Number	Email Address/ Fax	Postal Address	LGA's	Additional information
Darug Aboriginal Land Care	Mark Dyer	0428 714 242	markdyer2009@live.com.au	PO Box 405 Donnside 2767 NSW	Hawkesbury Blacktown Penrith Fairfield Holroyd Camden Campbelltown The Hills Shire Liverpool Parramatta	
Ken Foster		0411 818 091	Not provided	68 Australia St Matraville	Sutherland	
La Perouse Botany Bay Corporation	Yvonne Simms	04660 94491	Fax (02) 9311 3440	10 Murrong Place, La Perouse NSW 2036	Sutherland	
Norma Simms		04660 94491	Not provided	10 Murrong Place, La Perouse NSW 2036	Sutherland	
Matthew and Andrew Coe		(08)83442196	Not provided	37 Derlanger Avenue, Collingswood, South Australia 5081	Sutherland	
Gundungurra Aboriginal Heritage Association Inc	Merle Williams	02 4757 3223	Not provided	PO Box 31, Lawson NSW 2783	Blue Mountains	
Gundungurra Tribal Council Aboriginal Corporation	Sharon Brown	02 4729 3713	Not provided	PO Box 7244, Leura NSW 2780	Blue Mountains	
Trevor Robinson		Not provided	Not provided	PO Box 73, Peak Hill, NSW 2869	Blue Mountains	
Tania Matthews		0409 193 612/ (02) 67924038	aboriginalhistoryhunter@gmail.com	U2 11 Walowa Street, Narrabri, NSW 2390	Blue Mountains	
A1 Indigenous Services	Carolyn Hickey	0411 650 057	cazadirect@live.com	10 Marie Pitt Place Glenmore Park 2745 NSW.	Blue Mountains Ashfield Auburn Bankstown Blacktown Blue Mountains Botany Bay Burwood Camden Campbelltown Canada Bay Canterbury Fairfield Hawkesbury The Hills Holroyd Hornsby Hunter's Hill	Carolyn is Wonnarua

Organisation/ Individual	Contact Name	Phone Number	Email Address/ Fax	Postal Address	LGA's		Additional information
					Hurstville Kogarah Ku-ring-gai Lane Cove Leichhardt Liverpool Manly Marrickville Mosman North Sydney Parramatta Penrith Pittwater Randwick Rockdale Ryde Strathfield Sutherland Sydney Warringah Waverley Willoughby Woollahra Wollondilly		
Cubbitch Barta	Glenda Chalker	0427 218 425	Not provided	55 Nightingale Rd, Pheasants Nest NSW 2574	Camden Campbelltown	Liverpool Wollondilly	
	Rebecca Chalker	Not Provided	Not provided	99 Menangle street, Picton 2571			
Eric Keidge		04311 66423	Not provided	11 Olsson Close Hornsby Heights NSW 2077	The Hills Shire Sydney Kogarah Hurstville Rockdale Canterbury Marrickville Bankstown Strathfield Burwood Ashfield Auburn Canada Bay	Leichhardt Manly Mosman North Sydney Lane Cove Hunters Hill Hornsby Ku-Ring-Gai Pittwater Botany Bay Ryde Warringah Willoughby	
Gunjeewong Cultural Heritage Aboriginal Corporation	Cherie Carroll Turrise	0438 428 805	gunjeewong@yahoo.com.au	1 Bellvue Place, Portland NSW, 2847	Hawkesbury Blacktown Penrith Fairfield	Holroyd Camden Campbelltown Parramatta	Cherie is a Ngunnawal Elder however lived in the Western Sydney area during her childhood.

Organisation/ Individual	Contact Name	Phone Number	Email Address/ Fax	Postal Address	LGA's	Additional information
						She recognises she is not from the area but has associations
Corroboree Aboriginal Corporation	Marilyn Carroll-Johnson	0415911159	corroboreecorp@bigpond.com	PO Box 3340, Rouse Hill, NSW 2155	Western Sydney Camden Hawkesbury Blacktown Penrith Fairfield Campbelltown Parramatta Holroyd Camden	Ngunnawal and lives in Western Sydney
Murra Bidgee Mullangari Aboriginal Corporation	Darleen Johnson Ryan Johnson	0490 051 102 0475565517	murrabidgeemullangari@yahoo.com.au	PO Box 3035 Rouse Hill NSW 2155	Hawkesbury Blacktown Penrith Fairfield Blue Mountains Holroyd Camden Campbelltown Parramatta	Born in Blacktown Hospital and worked in the Aboriginal community in the Western suburbs.
Muragadi Heritage Indigenous Corporation	Jesse Johnson	0447 970 049	muragadi@yahoo.com.au	5 Hession Road, Nelson, NSW 2765	Western Sydney Camden Campbelltown Parramatta	Ngunnawal and lives in Western Sydney
Bidjawong Aboriginal Corporation	James Carroll	0433 224 324	Not provided	PO Box 124, Round Corner, NSW 2158	Hawkesbury Blacktown Penrith Fairfield Holroyd Camden Campbelltown Parramatta	
Kamilaroi Yankuntjatjara Working Group	Phil Khan	0434 545 982	**philipkhan.acn@live.com.au**	78 Forbes Street, Emu Plains, NSW 2750	Blue Mountains Ashfield Auburn Bankstown Blacktown Blue Mountains Botany Bay Burwood Camden Campbelltown Canada Bay Canterbury Fairfield Canberra Hawkesbury The Hills Holroyd Hornsby	

Organisation/ Individual	Contact Name	Phone Number	Email Address/ Fax	Postal Address	LGA's	Additional information
					Hunter's Hill Hurstville Kogarah Ku-ring-gai Lane Cove Leichhardt Liverpool Manly Marrickville Mosman North Sydney Parramatta Penrith Pittwater Randwick Rockdale Ryde Strathfield Sutherland Sydney Warringah Waverley Willoughby Woollahra Wollondilly	
Wurrumay Pty Ltd	Kerrie Slater and Vicky Slater	0421077521	wurrumay@hotmail.com;	89 Pyramid street, Emu Plains NSW 2750 PO Box 414 Emu Plains NSW 2750	Hawkesbury Blacktown Penrith Fairfield Holroyd Blue Mountains Sutherland Liverpool Camden Campbelltown Parramatta Wollondilly The Hills Shire Auburn Bankstown	
Warragil Cultural Services	Aaron Slater (Manager)	0481 280 067	Warragil_c.s@hotmail.com		Hawkesbury Blacktown Penrith Fairfield Holroyd Camden Campbelltown Liverpool Parramatta	
Tocomwall	Scott Franks	0404 171 544	Not provided	PO Box 76, Caringbah NSW 1495	Hawkesbury Blacktown Penrith Fairfield Holroyd Camden Campbelltown Strathfield Burwood Ashfield Auburn Canada Bay Leichhardt Manly	

Organisation/ Individual	Contact Name	Phone Number	Email Address/ Fax	Postal Address	LGA's	Additional information
					The Hills Shire Liverpool Parramatta Sutherland Sydney Kogarah Hurstville Rockdale Canterbury Marrickville Bankstown Mosman North Sydney Lane Cove Hunters Hill Hornsby Ku-Ring-Gai Pittwater Botany Bay Ryde Warringah Willoughby	
D'harawal Mens Aboriginal Corporation	Elwyn Brown	0401920982	Not provided	187 Riverside Drive, Airds NSW 2560	Camden Campbelltown Wollondilly	
Amanda Hickey Cultural Services	Amanda Hickey	0434 480 588	amandahickey@live.com.au	57 Gough st emu plains 2750	Blue Mountains Ashfield Auburn Bankstown Blacktown Blue Mountains Botany Bay Burwood Camden Campbelltown Canada Bay Canterbury Fairfield Hawkesbury The Hills Holroyd Hornsby Hunter's Hill Hurstville Kogarah Ku-ring-gai Lane Cove Strathfield Burwood Ashfield Auburn Canada Bay Leichhardt Manly Mosman North Sydney Lane Cove Liverpool Hunters Hill Hornsby Ku-Ring-Gai Pittwater Botany Bay Ryde Warringah Willoughby Penrith Parramatta Marrickville Wollondilly	Amanda is Wonnarua
Widescope Indigenous Group	Steven Hickey and Donna Hickey	0425 230 693 (Steven) 0425 232 056 (Donna)	Not provided	73 Russell Street, Emu Plains, NSW 2750	Hawkesbury Blacktown Penrith Fairfield Holroyd Parramatta Blue Mountains	
Dhinawan Culture & Heritage Pty Ltd	Stephen Fields	0411232285	dhinawan.ch@gmail.com		Hawkesbury Blacktown	

Organisation/ Individual	Contact Name	Phone Number	Email Address/ Fax	Postal Address	LGA's		Additional information
					Penrith Fairfield Cumberland Parramatta Hornsby The Hills Hornsby Ryde Auburn Blue Mountains Campbelltown Liverpool		
HSB Consultants	Patricia Hampton	0424 142 216	Not provided	62 Ropes Crossing Boulevard, Ropes Crossing 2760	Hawkesbury Blacktown Penrith	Fairfield Holroyd Parramatta	
Rane Consulting	Tony Williams	02 88246991	ajw1901@bigpond.com	1 Pyrenees Way Beaumont Hills NSW 2155	Hawkesbury Blacktown Penrith	Fairfield Holroyd Parramatta	
Anthony Williams		0456 399 687	Not provided	Unit 2 / 24 Goodwin Street Narrabeen NSW 2101	Hawkesbury Blacktown Penrith	Fairfield Holroyd Parramatta	
Gunyuu	Kylie Ann Bell	Not provided	gunyuuchts@gmail.com	Not provided	Hawkesbury Blacktown Penrith Fairfield Holroyd Camden Campbelltown Liverpool Parramatta Sutherland Sydney Kogarah Hurstville Rockdale Canterbury Marrickville Bankstown Strathfield	Burwood Ashfield Auburn Canada Bay Leichhardt Manly Mosman North Sydney Lane Cove Hunters Hill Hornsby Ku-Ring-Gai Pittwater Botany Bay Ryde Warringah Willoughby	This group states that their boundaries (Murrin Peoples) extend from the Hawkesbury River to the Snowy River.
Walbunja	Hika Te Kowhai	0402 730 612	walbunja@gmail.com	Not provided	Hawkesbury Blacktown Penrith Fairfield Holroyd Camden Campbelltown	Burwood Ashfield Auburn Canada Bay Leichhardt Manly Mosman	This group states that their boundaries (Murrin Peoples) extend from the Hawkesbury River to the Snowy River

Organisation/ Individual	Contact Name	Phone Number	Email Address/ Fax	Postal Address	LGA's	Additional information
					Liverpool Parramatta Sutherland Sydney Kogarah Hurstville Rockdale Canterbury Marrickville Bankstown Strathfield North Sydney Lane Cove Hunters Hill Hornsby Ku-Ring-Gai Pittwater Botany Bay Ryde Warringah Willoughby Wollondilly	
Badu	Karia Lea Bond	0476 381 207	Not provided	11 Jeffery Place, Moruya, NSW 2537	Hawkesbury Blacktown Penrith Fairfield Holroyd Camden Campbelltown Liverpool Parramatta Sutherland Sydney Kogarah Hurstville Rockdale Canterbury Marrickville Bankstown Strathfield Burwood Ashfield Auburn Canada Bay Leichhardt Manly Mosman North Sydney Lane Cove Hunters Hill Hornsby Ku-Ring-Gai Pittwater Botany Bay Ryde Warringah Willoughby	This group states that their boundaries (Murrin Peoples) extend from the Hawkesbury River to the Snowy River
Goobah Developments	Basil Smith	0405 995 725	Not provided	66 Grantham Road, Batehaven NSW, 2536	Hawkesbury Blacktown Penrith Fairfield Holroyd Camden Campbelltown Liverpool Parramatta Sutherland Sydney Kogarah Hurstville Rockdale Canterbury Marrickville Bankstown Strathfield Burwood Ashfield Auburn Canada Bay Leichhardt Manly Mosman North Sydney Lane Cove Hunters Hill Hornsby Ku-Ring-Gai Pittwater Botany Bay Ryde Warringah Willoughby	This group states that their boundaries (Murrin Peoples) extend from the Hawkesbury River to the Snowy River

Organisation/ Individual	Contact Name	Phone Number	Email Address/ Fax	Postal Address	LGA's	Additional information
Wullung	Lee-Roy James Boota	0403 703 942	Not provided	54 Blackwood Street, Gerringong, NSW, 2534	Hawkesbury Blacktown Penrith Fairfield Holroyd Camden Campbelltown Liverpool Parramatta Sutherland Sydney Kogarah Hurstville Rockdale Canterbury Marrickville Bankstown Strathfield Burwood Ashfield Auburn Canada Bay Leichhardt Manly Mosman North Sydney Lane Cove Hunters Hill Hornsby Ku-Ring-Gai Pittwater Botany Bay Ryde Warringah Willoughby	This group states that their boundaries (Murrin Peoples) extend from the Hawkesbury River to the Snowy River
Yerramurra	Robert Parson	Not provided	yerramurra@gmail.com	Not provided	Hawkesbury Blacktown Penrith Fairfield Holroyd Camden Campbelltown Liverpool Parramatta Sutherland Sydney Kogarah Hurstville Rockdale Canterbury Marrickville Bankstown Strathfield Burwood Ashfield Auburn Canada Bay Leichhardt Manly Mosman North Sydney Lane Cove Hunters Hill Hornsby Ku-Ring-Gai Pittwater Botany Bay Ryde Warringah Willoughby	This group states that their boundaries (Murrin Peoples) extend from the Hawkesbury River to the Snowy River
Nundagurri	Newton Carriage	Not Provided	nundagurri@gmail.com	Not Provided	Hawkesbury Blacktown Penrith Fairfield Holroyd Camden Campbelltown Liverpool Parramatta Sutherland Sydney Kogarah Burwood Ashfield Auburn Canada Bay Leichhardt Manly Mosman North Sydney Lane Cove Hunters Hill Hornsby Ku-Ring-Gai	This group states that their boundaries (Murrin Peoples) extend from the Hawkesbury River to the Snowy River

Organisation/ Individual	Contact Name	Phone Number	Email Address/ Fax	Postal Address	LGA's	Additional information
					Hurstville Rockdale Canterbury Marrickville Bankstown Strathfield Pittwater Botany Bay Ryde Warringah Willoughby	
Murrumbul	Mark Henry	Not provided	murrumbul@gmail.com	Not provided	Hawkesbury Blacktown Penrith Fairfield Holroyd Camden Campbelltown Liverpool Parramatta Sutherland Sydney Kogarah Hurstville Rockdale Canterbury Marrickville Bankstown Strathfield Burwood Ashfield Auburn Canada Bay Leichhardt Manly Mosman North Sydney Lane Cove Hunters Hill Hornsby Ku-Ring-Gai Pittwater Botany Bay Ryde Warringah Willoughby	This group states that their boundaries (Murrin Peoples) extend from the Hawkesbury River to the Snowy River.
Jerringong	Joanne Anne Stewart	0422 800 184	jerringong@gmail.com	Not provided	Hawkesbury Blacktown Penrith Fairfield Holroyd Camden Campbelltown Liverpool Parramatta Sutherland Sydney Kogarah Hurstville Rockdale Canterbury Marrickville Bankstown Strathfield Burwood Ashfield Auburn Canada Bay Leichhardt Manly Mosman North Sydney Lane Cove Hunters Hill Hornsby Ku-Ring-Gai Pittwater Botany Bay Ryde Warringah Willoughby	This group states that their boundaries (Murrin Peoples) extend from the Hawkesbury River to the Snowy River
Pemulwuy CHTS	Pemulwuy Johnson	0425 066 100	pemulwuyd@gmail.com	14 Top Place, Mt Annan	Hawkesbury Blacktown Penrith Fairfield Holroyd Camden Strathfield Burwood Ashfield Auburn Canada Bay Leichhardt	This group states that their boundaries (Murrin Peoples) extend from the Hawkesbury River to the Snowy River

Organisation/ Individual	Contact Name	Phone Number	Email Address/ Fax	Postal Address	LGA's	Additional information
					Campbelltown The Hills Shire Liverpool Parramatta Sutherland Sydney Kogarah Hurstville Rockdale Canterbury Marrickville Bankstown Manly Mosman North Sydney Lane Cove Hunters Hill Hornsby Ku-Ring-Gai Pittwater Botany Bay Ryde Warringah Willoughby	
Bilinga	Simalene Carriage	Not provided	bilingachts@gmail.com	Not provided	Hawkesbury Blacktown Penrith Fairfield Holroyd Camden Campbelltown Liverpool Parramatta Sutherland Sydney Kogarah Hurstville Rockdale Canterbury Marrickville Bankstown Strathfield Burwood Ashfield Auburn Canada Bay Leichhardt Manly Mosman North Sydney Lane Cove Hunters Hill Hornsby Ku-Ring-Gai Pittwater Botany Bay Ryde Warringah Willoughby	This group states that their boundaries (Murrin Peoples) extend from the Hawkesbury River to the Snowy River.
Munyunga	Kaya Dawn Bell	Not provided	munyungachts@gmail.com	Not provided	Hawkesbury Blacktown Penrith Fairfield Holroyd Camden Campbelltown Liverpool Parramatta Sutherland Sydney Kogarah Hurstville Rockdale Canterbury Marrickville Bankstown Strathfield Burwood Ashfield Auburn Canada Bay Leichhardt Manly Mosman North Sydney Lane Cove Hunters Hill Hornsby Ku-Ring-Gai Pittwater Botany Bay Ryde Warringah Willoughby	This group states that their boundaries (Murrin Peoples) extend from the Hawkesbury River to the Snowy River.

Organisation/ Individual	Contact Name	Phone Number	Email Address/ Fax	Postal Address	LGA's	Additional information
Wingikara	Hayley Bell	Not provided	wingikarachts@gmail.com	Not provided	Hawkesbury Blacktown Penrith Fairfield Holroyd Camden Campbelltown Liverpool Parramatta Sutherland Sydney Kogarah Hurstville Rockdale Canterbury Marrickville Bankstown Strathfield Burwood Ashfield Auburn Canada Bay Leichhardt Manly Mosman North Sydney Lane Cove Hunters Hill Hornsby Ku-Ring-Gai Pittwater Botany Bay Ryde Warringah Willoughby	This group states that their boundaries (Murrin Peoples) extend from the Hawkesbury River to the Snowy River.
Minnamunnung	Aaron Broad	0402 526 888	Not provided	1 Waratah Avenue, Albion Park Rail NSW 2527	Hawkesbury Blacktown Penrith Fairfield Holroyd Camden Campbelltown Liverpool Parramatta Sutherland Sydney Kogarah Hurstville Rockdale Canterbury Marrickville Bankstown Strathfield Burwood Ashfield Auburn Canada Bay Leichhardt Manly Mosman North Sydney Lane Cove Hunters Hill Hornsby Ku-Ring-Gai Pittwater Botany Bay Ryde Warringah Willoughby	
Walgalu	Ronald Stewart	Not provided	walgaluchts@gmail.com	Not provided	Hawkesbury Blacktown Penrith Fairfield Holroyd Camden Campbelltown Liverpool Parramatta Sutherland Sydney Kogarah Ashfield Auburn Canada Bay Leichhardt Manly Mosman North Sydney Lane Cove Hunters Hill Hornsby Ku-Ring-Gai Pittwater	This group states that their boundaries (Murrin Peoples) extend from the Hawkesbury River to the Snowy River

Organisation/ Individual	Contact Name	Phone Number	Email Address/ Fax	Postal Address	LGA's		Additional information
					Hurstville Rockdale Canterbury Marrickville Bankstown Strathfield Randwick Woollahra	Botany Bay Ryde Warringah Willoughby Blue Mountains Burwood The Hills Waverly Wollondilly	
Thauaira	Shane Carriage	Not provided	thauairachts@gmail.com	Not provided	Hawkesbury Blacktown Penrith Fairfield Holroyd Camden Campbelltown Liverpool Parramatta Sutherland Sydney Kogarah Hurstville Rockdale Canterbury Marrickville Bankstown Strathfield Randwick Woollahra	Ashfield Auburn Canada Bay Leichhardt Manly Mosman North Sydney Lane Cove Hunters Hill Hornsby Ku-Ring-Gai Pittwater Botany Bay Ryde Warringah Willoughby Blue Mountains Burwood The Hills Waverly Wollondilly	This group states that their boundaries (Murrin Peoples) extend from the Hawkesbury River to the Snowy River
Dharug	Andrew Bond	Not provided	dharugchts@gmail.com	Not provided	Hawkesbury Blacktown Penrith Fairfield Holroyd Camden Campbelltown Liverpool Parramatta Sutherland Sydney Kogarah Hurstville Rockdale Canterbury Marrickville	Ashfield Auburn Canada Bay Leichhardt Manly Mosman North Sydney Lane Cove Hunters Hill Hornsby Ku-Ring-Gai Pittwater Botany Bay Ryde Warringah Willoughby	This group states that their boundaries (Murrin Peoples) extend from the Hawkesbury River to the Snowy River

Organisation/ Individual	Contact Name	Phone Number	Email Address/ Fax	Postal Address	LGA's		Additional information
					Bankstown Strathfield Randwick Woollahra	Blue Mountains Burwood The Hills Waverly Wollondilly	
Gulaga	Wendy Smith	Not Provided	gulagachts@gmail.com	Not Provided	Hawkesbury Blacktown Penrith Fairfield Holroyd Camden Campbelltown Liverpool Parramatta Sutherland Sydney Kogarah Hurstville Rockdale Canterbury Marrickville Bankstown Strathfield Randwick Woollahra	Ashfield Auburn Canada Bay Leichhardt Manly Mosman North Sydney Lane Cove Hunters Hill Hornsby Ku-Ring-Gai Pittwater Botany Bay Ryde Warringah Willoughby Blue Mountains Burwood The Hills Waverly Wollondilly	This group states that their boundaries (Murrin Peoples) extend from the Hawkesbury River to the Snowy River
Biamanga	Seli Storer	Not Provided	biamangachts@gmail.com	Not Provided	Hawkesbury Blacktown Penrith Fairfield Holroyd Camden Campbelltown Liverpool Parramatta Sutherland Sydney Kogarah Hurstville Rockdale Canterbury Marrickville Bankstown Strathfield Randwick Woollahra	Ashfield Auburn Canada Bay Leichhardt Manly Mosman North Sydney Lane Cove Hunters Hill Hornsby Ku-Ring-Gai Pittwater Botany Bay Ryde Warringah Willoughby Blue Mountains Burwood The Hills	This group states that their boundaries (Murrin Peoples) extend from the Hawkesbury River to the Snowy River

Organisation/ Individual	Contact Name	Phone Number	Email Address/ Fax	Postal Address	LGA's		Additional information
						Waverly Wollondilly	
Callendulla	Corey Smith	Not Provided	cullendullachts@gmail.com	Not Provided	Hawkesbury Blacktown Penrith Fairfield Holroyd Camden Campbelltown Liverpool Parramatta Sutherland Sydney Kogarah Hurstville Rockdale Canterbury Marrickville Bankstown Strathfield Randwick Woollahra	Ashfield Auburn Canada Bay Leichhardt Manly Mosman North Sydney Lane Cove Hunters Hill Hornsby Ku-Ring-Gai Pittwater Botany Bay Ryde Warringah Willoughby Blue Mountains Burwood The Hills Waverly Wollondilly	This group states that their boundaries (Murrin Peoples) extend from the Hawkesbury River to the Snowy River
Murramarang	Roxanne Smith	Not Provided	murramarangchts@gmail.com	Not Provided	Hawkesbury Blacktown Penrith Fairfield Holroyd Camden Campbelltown Liverpool Parramatta Sutherland Sydney Kogarah Hurstville Rockdale Canterbury Marrickville Bankstown Strathfield Randwick Woollahra	Ashfield Auburn Canada Bay Leichhardt Manly Mosman North Sydney Lane Cove Hunters Hill Hornsby Ku-Ring-Gai Pittwater Botany Bay Ryde Warringah Willoughby Blue Mountains Burwood The Hills Waverly Wollondilly	This group states that their boundaries (Murrin Peoples) extend from the Hawkesbury River to the Snowy River

Organisation/ Individual	Contact Name	Phone Number	Email Address/ Fax	Postal Address	LGA's		Additional information
DJMD Consultancy	Darren Duncan	0410 510 397	darrenjohnduncan@gmail.com	Not Provided	Hawkesbury Blacktown Penrith Parramatta Sydney Marrickville Strathfield Warringah Willoughby Blue Mountains Burwood The Hills Ryde	Ashfield Auburn Canada Bay Leichhardt Manly Mosman North Sydney Lane Cove Hunters Hill Hornsby Ku-Ring-Gai Pittwater	Darren is associated with Metro and Deerubbin LALCs
Butucarbin Aboriginal Corporation	Jennifer Beale	(02)9832 7167	butuheritage@gmail.com.	PO Box E18, Emerton, NSW 2770	Hawkesbury Blacktown Penrith Fairfield Holroyd Camden Campbelltown Liverpool Parramatta Sutherland Sydney Kogarah Hurstville Rockdale Canterbury Marrickville Bankstown Strathfield Randwick Woollahra	Ashfield Auburn Canada Bay Leichhardt Manly Mosman North Sydney Lane Cove Hunters Hill Hornsby Ku-Ring-Gai Pittwater Botany Bay Ryde Warringah Willoughby Blue Mountains Burwood The Hills Waverly Wollondilly	Preferred contact via email
Didge Ngunawal Clan	Lillie Carroll Paul Boyd	0426 823 944	didgengunawalclan@yahoo.com.au	33 Carlyle Crescent Cambridge Gardens NSW 2747	Hawkesbury Blacktown Penrith Fairfield Holroyd Camden Campbelltown Liverpool Parramatta Sutherland	Ashfield Auburn Canada Bay Leichhardt Manly Mosman North Sydney Lane Cove Hunters Hill Hornsby	

Organisation/ Individual	Contact Name	Phone Number	Email Address/ Fax	Postal Address	LGA's	Additional information
					Sydney Kogarah Hurstville Rockdale Canterbury Marrickville Bankstown Strathfield Randwick Woollahra Ku-Ring-Gai Pittwater Botany Bay Ryde Warringah Willoughby Blue Mountains Burwood The Hills Waverly Wollondilly	
Ginninderra Aboriginal Corporation	Steven Johnson and Krystle Carroll	0406991221	Ginninderra.corp@gmail.com	PO BOX 3143 Grose Vale NSW 2754	Hawkesbury Blacktown Penrith Fairfield Holroyd Camden Campbelltown Liverpool Parramatta Sutherland Sydney Kogarah Hurstville Rockdale Canterbury Marrickville Bankstown Strathfield Randwick Woollahra Ashfield Auburn Canada Bay Leichhardt Manly Mosman North Sydney Lane Cove Hunters Hill Hornsby Ku-Ring-Gai Pittwater Botany Bay Ryde Warringah Willoughby Blue Mountains Burwood The Hills Waverly Wollondilly	
Garrara Aboriginal Corporation	Raymond Ingrey		raymond@bariyu.org.au		Sutherland Liverpool Camden Campbelltown Wollondilly	
Duncan Falk Consultancy	Duncan Falk	0406 610 644	duncanfalk@hotmail.com	34 Robinia Drive, Bowral NSW 2576	Camden Campbelltown	
Sharon Hodgetts		0405288814	sharonhodgetts@hotmail.com	21/29 Central Coast Hwy West Gosford 2250	Hawkesbury	
Wailwan Aboriginal Group	Philip Boney	0436 483 210	waarlan12@outlook.com		Hawkesbury Blacktown Penrith Ashfield Auburn Canada Bay	

Organisation/ Individual	Contact Name	Phone Number	Email Address/ Fax	Postal Address	LGA's	Additional information
					Fairfield Holroyd Camden Campbelltown Liverpool Parramatta Sutherland Sydney Kogarah Hurstville Rockdale Canterbury Marrickville Bankstown Strathfield Randwick Woollahra Leichhardt Manly Mosman North Sydney Lane Cove Hunters Hill Hornsby Ku-Ring-Gai Pittwater Botany Bay Ryde Warringah Willoughby Blue Mountains Burwood The Hills Waverly	
Guntawang Aboriginal Resources Incorporated	Wendy Morgan	0414 964 657 9601 7183	Wenlissa01@hotmail.com	113 Reservoir Road Mt Pritchard NSW 2170	Camden Campbelltown Liverpool Fairfield Holroyd Wollondilly Blue Mountains	
Barking Owl Aboriginal Corporation	Mrs Jody Kulakowski (Director)	0426 242 015	barkingowlcorp@gmail.com	2-65/69 Wehlow St. Mt Druitt	Hawkesbury Blacktown Penrith Fairfield Holroyd Camden Campbelltown Liverpool Parramatta Sutherland Sydney Kogarah Hurstville Rockdale Canterbury Marrickville Bankstown Strathfield Randwick Woollahra Ashfield Auburn Canada Bay Leichhardt Manly Mosman North Sydney Lane Cove Hunters Hill Hornsby Ku-Ring-Gai Pittwater Botany Bay Ryde Warringah Willoughby Blue Mountains Burwood The Hills Waverly	

Organisation/ Individual	Contact Name	Phone Number	Email Address/ Fax	Postal Address	LGA's	Additional information
					Wollondilly	
Yulay Cultural Services	Arika Jalomaki (Manager)	0411 048 794	yulayculturalservices@gmail.com	15 Rowley Place, Airds NSW 2560	Deerubbin LALC Tharawal LALC Gandangarra LALC	LGAs of interest not specified, rather, LALC boundaries within which the organisation wish to be consulted
Thoorga Nura	John Carriage (Chief Executive Officer)	0401 641 299	thoorganura@gmail.com	50B Hilltop Crescent, Surf Beach, 2536, NSW	Ashfield Auburn Bankstown Blacktown Blue Mountains Botany Bay Burwood Camden Campbelltown Canada Bay Canterbury Fairfield Hawkesbury The Hills Holroyd Hornsby Hunter's Hill Hurstville Kogarah Ku-ring-gai Lane Cove Leichhardt Liverpool Manly Marrickville Mosman North Sydney Parramatta Penrith Pittwater Randwick Rockdale Ryde Strathfield Sutherland Sydney Warringah Waverley Willoughby Woollahra Wollondilly	
Barraby Cultural Services	Lee Field (Manager)	0423 906 606	barrabyculturalservices@gmail.com	6 Macgibbon Parade, Old Erowal Bay, NSW 2540	Tharawal LALC Gandagarra LALC	LGAs of interest not specified, rather, LALC boundaries within which the organisation wish to be consulted
Yurrandaali Cultural Services	Bo Field (Manager)	0457 546 643	yurrandaali_cs@hotmail.com	3 Sheeran Street, Old Erowal Bay NSW 2540	Tharawal LALC Gandagarra LALC	LGAs of interest not specified, rather, LALC boundaries within which the organisation wish to be consulted
Darug Boorooberongal Elders Aboriginal Corporation	Paul Hand (chairperson)	0456786738	paulhand1967@gmail.com	PO.Box 14 Doonside NSW 2767	Ashfield Auburn Bankstown Blacktown Blue Mountains Leichhardt Liverpool Manly Marrickville Mosman North Sydney	

Organisation/ Individual	Contact Name	Phone Number	Email Address/ Fax	Postal Address	LGA's	Additional information
					Botany Bay Burwood Camden Campbelltown Canada Bay Canterbury Fairfield Hawkesbury The Hills Holroyd Hornsby Hunter's Hill Hurstville Kogarah Ku-ring-gai Lane Cove Parramatta Penrith Pittwater Randwick Rockdale Ryde Strathfield Sutherland Sydney Warringah Waverley Willoughby Woollahra Wollondilly	
B.H. Heritage Consultants	Ralph Hampton Nola Hampton	0435 785 138 0401 662 531	hamptonralph46@gmail.com kinghampton@77gmail.com	184 Captain Cook Drive Willmot 2770 NSW 95 Mount Ettalong Road Umina Beach 2257 NSW	Hawkesbury Blacktown Penrith Fairfield Holroyd Camden Campbelltown Liverpool Parramatta Sutherland Sydney Kogarah Hurstville Rockdale Canterbury Marrickville Bankstown Strathfield Randwick Woollahra Ashfield Auburn Canada Bay Leichhardt Manly Mosman North Sydney Lane Cove Hunters Hill Hornsby Ku-Ring-Gai Pittwater Botany Bay Ryde Warringah Willoughby Blue Mountains Burwood The Hills Waverly Wollondilly	Nola and Ralph would BOTH like to be notified of all projects
Ngambaa Cultural Connections	Kaarina Slater	0417861882	ngambaaculturalconnections@hotmail.com	6 Natchez Cresent, Greenfield Park NSW 2167	Ashfield Auburn Bankstown Blacktown Blue Mountains Botany Bay Burwood Camden Leichhardt Liverpool Manly Marrickville Mosman North Sydney Parramatta Penrith Pittwater	LALC boundaries within which the organisation wish to be consulted: Deerubbin LALC Gandangarra LALC Tharawal LALC

Organisation/ Individual	Contact Name	Phone Number	Email Address/ Fax	Postal Address	LGA's	Additional information
					Campbelltown Canada Bay Canterbury Fairfield Hawkesbury The Hills Holroyd Hornsby Hunter's Hill Hurstville Kogarah Ku-ring-gai Lane Cove Randwick Rockdale Ryde Strathfield Sutherland Sydney Warringah Waverley Willoughby Woollahra Wollondilly	
Goodradigbee Cultural & Heritage Aboriginal Corporation,	Caine Carroll	0410974236	goodradigbee1@outlook.com	1 Morilla Road, East Kurrajong NSW 2758	Ashfield Auburn Bankstown Blacktown Blue Mountains Botany Bay Burwood Camden Campbelltown Canada Bay Canterbury Fairfield Hawkesbury The Hills Holroyd Hornsby Hunter's Hill Hurstville Kogarah Ku-ring-gai Lane Cove Leichhardt Liverpool Manly Marrickville Mosman North Sydney Parramatta Penrith Pittwater Randwick Rockdale Ryde Strathfield Sutherland Sydney Warringah Waverley Willoughby Woollahra Wollondilly	
Mura Indigenous Corporation,	Phillip Carroll	0448824188	mura.indigenous@bigpond.com	11 Nargal Street Flinders NSW 2529	Ashfield Auburn Bankstown Blacktown Blue Mountains Botany Bay Burwood Camden Campbelltown Canada Bay Leichhardt Liverpool Manly Marrickville Mosman North Sydney Parramatta Penrith Pittwater Randwick Rockdale	

Organisation/ Individual	Contact Name	Phone Number	Email Address/ Fax	Postal Address	LGA's	Additional information
					Canterbury Fairfield Hawkesbury The Hills Holroyd Hornsby Hunter's Hill Hurstville Kogarah Ku-ring-gai Lane Cove Ryde Strathfield Sutherland Sydney Warringah Waverley Willoughby Woollahra Wollondilly	
Aragung Aboriginal Cultural Heritage Site Assessments	Jamie Eastwood	0427793334 0298323732	James.eastwood@y7mail.com	33 Bulolo Drive Whalan NSW 2770	Ashfield Auburn Bankstown Blacktown Blue Mountains Botany Bay Burwood Camden Campbelltown Canada Bay Canterbury Fairfield Hawkesbury The Hills Holroyd Hornsby Hunter's Hill Hurstville Kogarah Ku-ring-gai Lane Cove Leichhardt Liverpool Manly Marrickville Mosman North Sydney Parramatta Penrith Pittwater Randwick Rockdale Ryde Strathfield Sutherland Sydney Warringah Waverley Willoughby Woollahra Wollondilly	
Louise Adermann	Louise Adermann	0405037869	louiseadermann@hotmail.com	Number 10/8 Selmon Street Sans Souci 2219 NSW	Bayside Council. The Bayside Council area includes the suburbs of Arncliffe, Banksia, Banksmeadow, Bardwell Park, Bardwell Valley, Bexley, Bexley North, Botany,	.

Organisation/ Individual	Contact Name	Phone Number	Email Address/ Fax	Postal Address	LGA's	Additional information
					Brighton-Le-Sands, Carlton (part), Daceyville, Dolls Point, Eastgardens, Eastlakes, Hillsdale, Kingsgrove (part), Kogarah (part), Kyeemagh, Mascot, Monterey, Pagewood, Ramsgate (part), Ramsgate Beach, Rockdale, Rosebery (part), Sandringham, Sans Souci (part), Turrella and Wolli Creek	
Paul Gale	Paul Gale	0404652922	Cenobite100@gmail.com	67 Ginahgullah Avenue Gross Vale NSW 2753	Blue Mountains Blacktown Hawkesbury	
Waawaar Awaa	Rodney Gunther	0410580962	Waawaar.awaa@gmail.com	15 Bungonia Street Prestons NSW 2170	Ashfield Auburn Bankstown Blacktown Blue Mountains Botany Bay Burwood Camden Campbelltown Canada Bay Leichhardt Liverpool Manly Marrickville Mosman North Sydney Parramatta Penrith Pittwater Randwick Rockdale Ryde	

Organisation/ Individual	Contact Name	Phone Number	Email Address/ Fax	Postal Address	LGA's	Additional information
					Canterbury Fairfield Hawkesbury The Hills Holroyd Hornsby Hunter's Hill Hurstville Kogarah Ku-ring-gai Lane Cove Strathfield Sutherland Sydney Warringah Waverley Willoughby Woollahra Wollondilly	
Clive Freeman	Clive Freeman	Mob:0437721481 Home Number: 02-44421117	clive.freeman@y7mail.com	6 Dhugan Close Wreck Bay Aboriginal Community JBT 2540	Blacktown, Penrith Fairfield Parramatta Blue Mountains Holroyd Bankstown Liverpool Camden Campbelltown Wollondilly Sutherland Kogarah Randwick Auburn Canada Bay Strathfield Sydney Woollahra Waverley Burwood Ashfield Leichhardt Marrickville	
Guringai Tribal Link Aboriginal Corporation	Tracey Howie	0404 182 049	tracey@guringai.com.au	PO Box 4061 Wyongah NSW 2259	North Sydney Lane Cove Hornsby Ku-Ring-Gai Pittwater Hawkesbury	

Organisation/ Individual	Contact Name	Phone Number	Email Address/ Fax	Postal Address	LGA's	Additional information
Galamaay Cultural Consultants (GCC)	Robert Slater	Mob: 0401 871 526	galamaay@hotmail.com		121 Robert Street, Tamworth NSW 2340	Penrith Fairfield Parramatta Holroyd Bankstown Liverpool Camden Campbelltown Wollondilly Sutherland Auburn

Zac Thomas

From: Barry Gunther <Barry.Gunther@environment.nsw.gov.au>
Sent: Friday, 10 July 2020 11:58 AM
To: Zac Thomas
Subject: RAP list for the Stage 3' of Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW.
Attachments: SSD Planning and Environment Letter Stage 3 of Sydney Business Park within the Marsden Park Industrial Precinct in Western Sydney NSW.doc; 4.1.2_DPIE_220620.pdf; GSB Stakeholder list - updated 15 June 2020.docx

Follow Up Flag: Follow up
Flag Status: Flagged

Dear Zac,

Please find attached your request for the DPC RAP list for the Stage 3ôof Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW.

Apologies for the lateness as we are transitioning from DPIE to DPC.

regards

Barry Gunther, Aboriginal Heritage Planner Officer
Heritage NSW, Community Engagement, Department of Premier and Cabinet
Level 6, 10 Valentine Ave, Parramatta | Locked Bag 5020 Parramatta 2124
T: 02 9995 6830 | barry.gunther @environmrnt.nsw.gov.au

Please lodge all Applications to Heritagemailbox@environment.nsw.gov.au

I acknowledge and respect the traditional custodians and ancestors of the lands I work across.

Heritage NSW and coronavirus (COVID-19)
Heritage NSW has taken steps to protect the safety, health and wellbeing of our staff, communities and customers. Whilst our offices remain open, we have put in place flexible working arrangements for our teams across NSW and continue to adapt our working arrangements as necessary. Face-to-face meetings and field work/site visits with our customers are subject to rules on gatherings and social distancing measures. We thank you for your patience and understanding at this time.

Zac Thomas

From: Geospatial Search Requests <GeospatialSearch@NNTT.gov.au>
Sent: Thursday, 25 June 2020 7:20 PM
To: Zac Thomas
Subject: RE: SR20/588 - Native Title Search Request - (our ref #1947) - SR20/588
Attachments: 20200624_SR20_588_NSW_Blacktown_City_Council.xlsx

UNCLASSIFIED

Native title search – *NSW LGA – Blacktown City Council*
Your ref: *1947* - **Our ref:** *SR20/588*

Dear Zac Thomas,

Thank you for your search request received on 22 June 2020 in relation to the above area. Based on the records held by the National Native Title Tribunal as at 24 June 2020 it would appear that there are no Native Title Determination Applications, Determinations of Native Title, or Indigenous Land Use Agreements over the identified area. Please find your results attached.

Search Results
The results provided are based on the information you supplied and are derived from a search of the following Tribunal databases:

- Schedule of Native Title Determination Applications
- Register of Native Title Claims
- National Native Title Register
- Register of Indigenous Land Use Agreements
- Notified Indigenous Land Use Agreements

At the time this search was carried out, there were **no relevant entries** in the above databases.

Please note: There may be a delay between a native title determination application being lodged in the Federal Court and its transfer to the Tribunal. As a result, some native title determination applications recently filed with the Federal Court may not appear on the Tribunal's databases.

The Tribunal accepts no liability for reliance placed on enclosed information
The enclosed information has been provided in good faith. Use of this information is at your sole risk. The National Native Title Tribunal makes no representation, either express or implied, as to the accuracy or suitability of the information enclosed for any particular purpose and accepts no liability for use of the information or reliance placed on it.

If you have any further queries, please do not hesitate to contact us on the free call number 1800 640 501.

Regards,

Geospatial Searches
National Native Title Tribunal | Perth
Email: GeospatialSearch@nntt.gov.au | **www.nntt.gov.au**

From: Zac Thomas <zac.thomas@knconsult.com.au>
Sent: Monday, 22 June 2020 3:41 PM
To: Geospatial Search Requests <GeospatialSearch@NNTT.gov.au>
Subject: SR20/588 - FW: Native Title Search Request - (our ref #1947)

Dear National Native Title Tribunal team,

Could we please request a Native Title search be carried out within the Blacktown City Council Local Government Area.

Please find attached a completed Cover Letter outlining reasons for the search request, a Search Area Map and a completed Request for Search of Tribunal Registers form. The Department of Planning, Industry and Environment requires us to write to various sources of information regarding the names of Aboriginal people who may have an interest in the project.

If you require any further information please don't hesitate to contact me.

Kind Regards,

Zac Thomas
Heritage Administration Assistant
Kelleher Nightingale Consulting Pty Ltd
Level 10, 25 Bligh St
Sydney NSW 2000
p 02 9232 5373

Zac Thomas

From: Rachel Rewiri <rachel.rewiri3@oralra.nsw.gov.au>
Sent: Thursday, 30 July 2020 9:09 AM
To: Zac Thomas
Subject: RE: Stage 3 Facilities Sydney Business Park - Marsden Park, NSW
Attachments: Kelleher Nightingale - Reply Letter 30072020.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Good Morning Zac,

Please find attached, results as per your ACHA request dated 22/06/2020

I apologise for the delay in replying.

Kind Regards

Rachel Rewiri
Project Officer (Aboriginal Owners)
Office of the Registrar, *Aboriginal Land Rights Act 1983*

Ph: 8633 1266
www.oralra.nsw.gov.au

OFFICE OF THE REGISTRAR
ABORIGINAL LAND RIGHTS ACT 1983 (NSW)

30 July 2020

By email: zac.thomas@kconsult.com.au

Zac Thomas
Kelleher Nightingale Consulting Pty Ltd
Level 10, 25 Bligh Street
SYDNEY NSW 2000

Dear Zac,

Request - Search for Registered Aboriginal Owners

We refer to your letter dated 22 June 2020 seeking the identification of Aboriginal organisations and people who may have an interest in the proposed warehouse and distribution facilities within the Marsden Park Industrial Precinct in Western Sydney, NSW.

Under Section 170 of the Aboriginal Land Rights Act 1983 the Office of the Registrar is required to maintain the Register of Aboriginal Owners (RAO). A search of the RAO has shown that there are currently no Registered Aboriginal Owners in the project area.

We suggest you contact the Deerubbin Local Aboriginal Land Council on (02) 4724 5600 or via email kcavanagh@deerubbin.org.au as they may wish to participate.

Yours sincerely

Rachel Rewiri
Project Officer
Office of the Registrar, Aboriginal Land Rights Act 1983

Address: Level 3, 2 – 10 Wentworth Street, PARRAMATTA NSW 2150
Post: P.O Box 5068, PARRAMATTA NSW 2124
Phone: 02 8633 1266

Kelleher
Nightingale Consulting Pty Ltd
ABN 26 120 187 671 ACN 120 187 671

Level 10
25 Bligh Street
Sydney NSW 2000
p 02 9232 5373
f 02 9223 0680

17 July 2020

Carolyn Hickey
A1 Indigenous Services
cazadirect@live.com

RE: STAGE 3 FACILITIES SYDNEY BUSINESS PARK – MARSDEN PARK, NSW
NOTIFICATION OF PROJECT PROPOSAL AND REGISTRATION OF INTEREST

Marsden Park Developments Pty Ltd is proposing to develop warehouse and distribution facilities in the area known as 'Stage 3' of Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW. The project is located in the Blacktown local government area. The proponent is Marsden Park Developments Pty Ltd (Michael Gray, Infrastructure Director: 15 Hollinsworth Road, Marsden Park NSW 2765).

Marsden Park Developments Pty Ltd will be seeking approval through a State Significant Development (SSD) application under the NSW *Environmental Planning & Assessment Act 1979*. Marsden Park Developments Pty Ltd proposes to carry out consultation with Aboriginal communities in accordance with the Heritage NSW *Aboriginal cultural heritage consultation requirements for proponents 2010*. The purpose of this consultation process is to inform the preparation of an Environmental Impact Statement and to assist Heritage NSW (as part of the Department of Premier and Cabinet) in its consideration of the proposal. Kelleher Nightingale Consulting Pty Ltd has been engaged by Marsden Park Developments Pty Ltd to facilitate the consultation process.

You or your organisation have been identified as a possible stakeholder for the project area. If you (or a member of your organisation) have an interest in the project area and hold cultural knowledge relevant to determining the significance of Aboriginal objects and/or places at Marsden Park, please register your interest in the consultation process using the details below:

Kelleher Nightingale Consulting Pty Ltd
Level 10, 25 Bligh Street, Sydney NSW 2000
Phone: 9232 5373
Email: zac.thomas@knconsult.com.au

The closing date for registration of interest is 31 July 2020.

Please be advised that in accordance with Heritage NSW requirements, we are required to record the names and contact details of each Aboriginal person who has registered an interest in this project and provide a copy of that record to the relevant Heritage NSW office and Local Aboriginal Land Council. If you are registering your interest, please let us know if you do not want your details forwarded to these organisations.

Yours sincerely,

Z. Thomas

Zac Thomas

Kelleher
Nightingale Consulting Pty Ltd

ABN 26 120 187 671 ACN 120 187 671

Level 10
25 Bligh Street
Sydney NSW 2000
p 02 9232 5373
f 02 9223 0680

17 July 2020

Jamie Eastwood
Aragung Aboriginal Cultural Heritage Site Assessments
James.eastwood@y7mail.com

RE: STAGE 3 FACILITIES SYDNEY BUSINESS PARK – MARSDEN PARK, NSW
NOTIFICATION OF PROJECT PROPOSAL AND REGISTRATION OF INTEREST

Marsden Park Developments Pty Ltd is proposing to develop warehouse and distribution facilities in the area known as 'Stage 3' of Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW. The project is located in the Blacktown local government area. The proponent is Marsden Park Developments Pty Ltd (Michael Gray, Infrastructure Director: 15 Hollinsworth Road, Marsden Park NSW 2765).

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Level 10, 25 Bligh Street, Sydney NSW 2000
Phone: 9232 5373
Email: zac.thomas@knconsult.com.au

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Yours sincerely,

Z. Thomas

Zac Thomas

Kelleher
Nightingale Consulting Pty Ltd

ABN 26 120 187 671 ACN 120 187 671

Level 10
25 Bligh Street
Sydney NSW 2000
p 02 9232 5373
f 02 9223 0680

17 July 2020

Amanda Hickey
Amanda Hickey Cultural Services
amandahickey@live.com.au

RE: STAGE 3 FACILITIES SYDNEY BUSINESS PARK – MARSDEN PARK, NSW
NOTIFICATION OF PROJECT PROPOSAL AND REGISTRATION OF INTEREST

Marsden Park Developments Pty Ltd is proposing to develop warehouse and distribution facilities in the area known as 'Stage 3' of Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW. The project is located in the Blacktown local government area. The proponent is Marsden Park Developments Pty Ltd (Michael Gray, Infrastructure Director: 15 Hollinsworth Road, Marsden Park NSW 2765).

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You or your organisation have been identified as a possible stakeholder for the project area. If you (or a member of your organisation) have an interest in the project area and hold cultural knowledge relevant to determining the significance of Aboriginal objects and/or places at Marsden Park, please register your interest in the consultation process using the details below:

Kelleher Nightingale Consulting Pty Ltd
Level 10, 25 Bligh Street, Sydney NSW 2000
Phone: 9232 5373
Email: zac.thomas@knconsult.com.au

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Yours sincerely,

Z. Thomas

Zac Thomas

Kelleher
Nightingale Consulting Pty Ltd

ABN 26 120 187 671 ACN 120 187 671

Level 10
25 Bligh Street
Sydney NSW 2000
p 02 9232 5373
f 02 9223 0680

17 July 2020

Anthony Williams
Unit 2/24 Goodwin Street
Narrabeen NSW 2101

RE: STAGE 3 FACILITIES SYDNEY BUSINESS PARK – MARSDEN PARK, NSW
NOTIFICATION OF PROJECT PROPOSAL AND REGISTRATION OF INTEREST

Marsden Park Developments Pty Ltd is proposing to develop warehouse and distribution facilities in the area known as 'Stage 3' of Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW. The project is located in the Blacktown local government area. The proponent is Marsden Park Developments Pty Ltd (Michael Gray, Infrastructure Director: 15 Hollinsworth Road, Marsden Park NSW 2765).

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Kelleher Nightingale Consulting Pty Ltd
Level 10, 25 Bligh Street, Sydney NSW 2000
Phone: 9232 5373
Email: zac.thomas@knconsult.com.au

The closing date for registration of interest is 31 July 2020.

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Yours sincerely,

Z. Thomas

Zac Thomas

Kelleher
Nightingale Consulting Pty Ltd

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25 Bligh Street
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f 02 9223 0680

17 July 2020

Jennifer Beale
Butucarbin Aboriginal Corporation
butuheritage@gmail.com

RE: STAGE 3 FACILITIES SYDNEY BUSINESS PARK – MARSDEN PARK, NSW
NOTIFICATION OF PROJECT PROPOSAL AND REGISTRATION OF INTEREST

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17 July 2020

James Carroll
Bidjawong Aboriginal Corporation
PO Box 124
Round Corner NSW 2158

RE: STAGE 3 FACILITIES SYDNEY BUSINESS PARK – MARSDEN PARK, NSW
NOTIFICATION OF PROJECT PROPOSAL AND REGISTRATION OF INTEREST

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17 July 2020

Karia Lea Bond
Badu
11 Jeffery Place
Moruya NSW 2537

RE: STAGE 3 FACILITIES SYDNEY BUSINESS PARK – MARSDEN PARK, NSW
NOTIFICATION OF PROJECT PROPOSAL AND REGISTRATION OF INTEREST

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17 July 2020

Ralph Hampton and Nola Hampton
B.H. Heritage Consultants
hamptonralph46@gmail.com
kinghampton77@gmail.com

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17 July 2020

Seli Storer
Biamanga
biamangachts@gmail.com

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17 July 2020

Simalene Carriage
Bilinga
bilingachts@gmail.com

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17 July 2020

Mrs Jody Kulakowski
Barking Owl Aboriginal Corporation
barkingowlcorp@gmail.com

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17 July 2020

Corey Smith
Callendulla
cullendullachts@gmail.com

RE: STAGE 3 FACILITIES SYDNEY BUSINESS PARK – MARSDEN PARK, NSW
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17 July 2020

Clive Freeman
clive.freeman@y7mail.com

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NOTIFICATION OF PROJECT PROPOSAL AND REGISTRATION OF INTEREST

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17 July 2020

Gordon Morton
Darug Aboriginal Cultural Heritage Assessments
Unit 9, 6 Chapman Avenue
Chatswood NSW 2067

RE: STAGE 3 FACILITIES SYDNEY BUSINESS PARK – MARSDEN PARK, NSW
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17 July 2020

Mark Dyer
Darug Aboriginal Land Care
markdyer2009@live.com.au

RE: STAGE 3 FACILITIES SYDNEY BUSINESS PARK – MARSDEN PARK, NSW
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17 July 2020

Paul Hand
Darug Boorooberongal Elders Aboriginal Corporation
paulhand1967@gmail.com

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17 July 2020

Justine Coplin
Darug Custodian Aboriginal Corporation
justinecoplin@optusnet.com.au

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Yours sincerely,

Z. Thomas

Zac Thomas

Kelleher
Nightingale Consulting Pty Ltd

ABN 26 120 187 671 ACN 120 187 671

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25 Bligh Street
Sydney NSW 2000
p 02 9232 5373
f 02 9223 0680

17 July 2020

Stephen Fields
Dhinawan Culture & Heritage Pty Ltd
dhinawan.ch@gmail.com

RE: STAGE 3 FACILITIES SYDNEY BUSINESS PARK – MARSDEN PARK, NSW
NOTIFICATION OF PROJECT PROPOSAL AND REGISTRATION OF INTEREST

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17 July 2020

Andrew Bond
Dharug
dharugchts@gmail.com

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17 July 2020

Darren Duncan
DJMD Consultancy
darrenjohnduncan@gmail.com

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17 July 2020

CEO
Deerubbin Local Aboriginal Land Council
srandall@deerubbin.org.au

RE: STAGE 3 FACILITIES SYDNEY BUSINESS PARK – MARSDEN PARK, NSW
NOTIFICATION OF PROJECT PROPOSAL AND REGISTRATION OF INTEREST

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17 July 2020

Jamie Workman and Anna Workman
Darug Land Observations
daruglandobservations@gmail.com

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17 July 2020

Lillie Carroll and Paul Boyd
Didge Ngunawal Clan
didgengunawalclan@yahoo.com.au

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Darug Tribal Aboriginal Corporation
PO Box 441
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Steven Johnson and Krystle Carroll
Ginninderra Aboriginal Corporation
Ginninderra.corp@gmail.com

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Caine Carroll
Goodradigbee Cultural & Heritage Aboriginal Corporation
goodradigbee1@outlook.com

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17 July 2020

Basil Smith
Goobah Developments
66 Grantham Road
Batehaven NSW 2536

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17 July 2020

Wendy Smith
Gulaga
gulagachts@gmail.com

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17 July 2020

Kylie Ann Bell
Gunyuu
gunyuuchts@gmail.com

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17 July 2020

Patricia Hampton
HSB Consultants
62 Ropes Crossing Boulevard
Ropes Crossing NSW 2760

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Joanne Anne Stewart
Jerringong
jerringong@gmail.com

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Level 10, 25 Bligh Street, Sydney NSW 2000
Phone: 9232 5373
Email: zac.thomas@knconsult.com.au

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Yours sincerely,

Z. Thomas

Zac Thomas

Kelleher
Nightingale Consulting Pty Ltd

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17 July 2020

Phil Khan
Kamilaroi Yankuntjatjara Working Group
philipkhan.acn@live.com.au

RE: STAGE 3 FACILITIES SYDNEY BUSINESS PARK – MARSDEN PARK, NSW
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17 July 2020

Darleen Johnson
Murra Bidgee Mullangari Aboriginal Corporation
murrabidgeemullangari@yahoo.com.au

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17 July 2020

Jesse Johnson
Muragadi Heritage Indigenous Corporation
muragadi@yahoo.com.au

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17 July 2020

Phillip Carroll
Mura Indigenous Corporation
11 Nargal Street
Flinders NSW 2529

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17 July 2020

Aaron Broad
Minnamunnung
1 Waratah Avenue
Albion Park Rail NSW 2527

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17 July 2020

Kaya Dawn Bell
Munyunga
munyungachts@gmail.com

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Roxanne Smith
Murramarang
murramarangchts@gmail.com

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17 July 2020

Mark Henry
Murrumbul
murrumbul@gmail.com

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17 July 2020

Kaarina Slater
Ngambaa Cultural Connections
ngambaaculturalconnections@hotmail.com

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Newton Carriage
Nundagurri
nundagurri@gmail.com

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17 July 2020

Paul Gale
Cenobite100@gmail.com

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17 July 2020

Pemulwuy Johnson
Pemulwuy CHTS
pemulwuyd@gmail.com

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17 July 2020

Tony Williams
Rane Consulting
ajw1901@bigpond.com

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Yours sincerely,

Z. Thomas

Zac Thomas

Kelleher
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p 02 9232 5373
f 02 9223 0680

17 July 2020

Shane Carriage
Thauaira
thauairachts@gmail.com

RE: STAGE 3 FACILITIES SYDNEY BUSINESS PARK – MARSDEN PARK, NSW
NOTIFICATION OF PROJECT PROPOSAL AND REGISTRATION OF INTEREST

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John Carriage
Thoorga Nura
thoorganura@gmail.com

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Scott Franks
Tocomwall
PO Box 76
Caringbah NSW 1495

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Rodney Gunther
Waawaar Awaa
Waawaar.awaa@gmail.com

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17 July 2020

Philip Boney
Wailwan Aboriginal Group
waarlan12@outlook.com

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Hika Te Kowhai
Walbunja
walbunja@gmail.com

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Ronald Stewart
Walgalu
walgaluchts@gmail.com

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Warragil Cultural Services
Warragil_c.s@hotmail.com

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Steven Hickey and Donna Hickey
Widescope Indigenous Group
73 Russell Street
Emu Plains NSW 2750

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Hayley Bell
Wingikara
wingikarachts@gmail.com

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17 July 2020

Lee-Roy James Boota
Wullung
54 Blackwood Street
Gerringong NSW 2534

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17 July 2020

Kerrie Slater and Vicky Slater
Wurrumay Pty Ltd
wurrumay@hotmail.com

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Arika Jalomaki
Yulay Cultural Services
yulayculturalservices@gmail.com

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Robert Parson
Yerramurra
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NOTIFICATION OF PROJECT PROPOSAL AND REGISTRATION OF INTEREST

Marsden Park Developments Pty Ltd is proposing to develop warehouse and distribution facilities in the area known as 'Stage 3' of Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW. The project is located in the Blacktown local government area. The proponent is Marsden Park Developments Pty Ltd (Michael Gray, Infrastructure Director: 15 Hollinsworth Road, Marsden Park NSW 2765).

Marsden Park Developments Pty Ltd will be seeking approval through a State Significant Development (SSD) application under the NSW *Environmental Planning & Assessment Act 1979*. Marsden Park Developments Pty Ltd proposes to carry out consultation with Aboriginal communities in accordance with the Heritage NSW *Aboriginal cultural heritage consultation requirements for proponents 2010*. The purpose of this consultation process is to inform the preparation of an Environmental Impact Statement and to assist Heritage NSW (as part of the Department of Premier and Cabinet) in its consideration of the proposal. Kelleher Nightingale Consulting Pty Ltd has been engaged by Marsden Park Developments Pty Ltd to facilitate the consultation process.

You or your organisation have been identified as a possible stakeholder for the project area. If you (or a member of your organisation) have an interest in the project area and hold cultural knowledge relevant to determining the significance of Aboriginal objects and/or places at Marsden Park, please register your interest in the consultation process using the details below:

Kelleher Nightingale Consulting Pty Ltd
Level 10, 25 Bligh Street, Sydney NSW 2000
Phone: 9232 5373
Email: zac.thomas@knconsult.com.au

The closing date for registration of interest is 31 July 2020.

Please be advised that in accordance with Heritage NSW requirements, we are required to record the names and contact details of each Aboriginal person who has registered an interest in this project and provide a copy of that record to the relevant Heritage NSW office and Local Aboriginal Land Council. If you are registering your interest, please let us know if you do not want your details forwarded to these organisations.

Yours sincerely,

Z. Thomas

Zac Thomas

Zac Thomas

From: Stephen Fields <dhinawan.ch@gmail.com>
Sent: Monday, 20 July 2020 11:03 AM
To: Zac Thomas
Subject: Re: Notification of project proposal and registration of interest - 1947 Sydney Business Park Stage 3, Marsden Park - DCH

Hi Zac,

Hope you are well.

Dhinawan Culture and Heritage wish to register our interest in the consultation process for heritage assessment of proposed warehouse and distribution facilities in the area known as óStage 3ôof Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW.

Please forward relevant information relating to our involvement in the project to this email.

Regards,

Stephen Fields
Director
Dhinawan Culture and Heritage Pty Ltd
0411232285

On Fri, 17 Jul 2020 at 14:44, Zac Thomas <zac.thomas@knconsult.com.au> wrote:

> Dear potential stakeholder,
>
> You or your organisation have been identified as a possible Aboriginal stakeholder for an upcoming heritage assessment of proposed warehouse and distribution facilities in the area known as óStage 3ôof Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW.
>
> Please find attached a letter and invitation to register your interest in the Aboriginal community consultation process. If you wish to register, please do so using the contact details for Kelleher Nightingale Consulting on the attached letter by 31 July 2020. You may also register via reply email to me.
>
> Please be advised that in accordance with Heritage NSW requirements, we are required to record the names of each Aboriginal person/organisation who has registered an interest in this project and provide a copy of that record to the relevant Heritage NSW office and Local Aboriginal Land Council. If you are registering your interest, please let us know if you do not want your details forwarded to these organisations.

Please do not hesitate to call our office if you have any further queries.

Kind regards,

Zac Thomas

Heritage Administration Assistant

Kelleher Nightingale Consulting Pty Ltd

Level 10, 25 Bligh St

Sydney NSW 2000

p 02 9232 5373

Zac Thomas

From: Clive Freeman <clive.freeman@y7mail.com>
Sent: Monday, 20 July 2020 11:04 AM
To: Zac Thomas
Subject: Re: Notification of project proposal and registration of interest - 1947 Sydney Business Park Stage 3, Marsden Park - Clive Freeman

Hi we would like to register an interest in this project.

Kind regards

Clive Freeman
managing Director
Freeman&marx Pty Ltd

Sent from my iPhone

On 17 Jul 2020, at 2:42 pm, Zac Thomas <zac.thomas@knconsult.com.au> wrote:

> Dear potential stakeholder,
>
> You or your organisation have been identified as a possible Aboriginal stakeholder for an upcoming heritage assessment of proposed warehouse and distribution facilities in the area known as 'Stage 3' of Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW.
>
> Please find attached a letter and invitation to register your interest in the Aboriginal community consultation process. If you wish to register, please do so using the contact details for Kelleher Nightingale Consulting on the attached letter by 31 July 2020. You may also register via reply email to me.
>
> Please be advised that in accordance with Heritage NSW requirements, we are required to record the names of each Aboriginal person/organisation who has registered an interest in this project and provide a copy of that record to the relevant Heritage NSW office and Local Aboriginal Land Council. If you are registering your interest, please let us know if you do not want your details forwarded to these organisations.
>
> Please do not hesitate to call our office if you have any further queries.
>
> Kind regards,
>
> **Zac Thomas**
> Heritage Administration Assistant
> **Kelleher Nightingale Consulting Pty Ltd**
> Level 10, 25 Bligh St
> Sydney NSW 2000
> p 02 9232 5373
>
> <413_Clive Freeman_170720.pdf>

Zac Thomas

From: Rodney Gunther <waawaar.awaa@gmail.com>
Sent: Monday, 20 July 2020 5:33 PM
To: Zac Thomas
Subject: Re: Notification of project proposal and registration of interest - 1947 Sydney Business Park Stage 3, Marsden Park - Waawaar Awaa
Attachments: Registration letter Proposed at Stage 3' of Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney.docx

Hi Zac,

Registration letter for **'Stage 3' of Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney** attached.

Rodney

On Fri, Jul 17, 2020 at 2:52 PM Zac Thomas <zac.thomas@knconsult.com.au> wrote:

> Dear potential stakeholder,
>
> You or your organisation have been identified as a possible Aboriginal stakeholder for an upcoming heritage assessment of proposed warehouse and distribution facilities in the area known as 'Stage 3' of Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW.
>
> Please find attached a letter and invitation to register your interest in the Aboriginal community consultation process. If you wish to register, please do so using the contact details for Kelleher Nightingale Consulting on the attached letter by 31 July 2020. You may also register via reply email to me.
>
> Please be advised that in accordance with Heritage NSW requirements, we are required to record the names of each Aboriginal person/organisation who has registered an interest in this project and provide a copy of that record to the relevant Heritage NSW office and Local Aboriginal Land Council. If you are registering your interest, please let us know if you do not want your details forwarded to these organisations.
>
> Please do not hesitate to call our office if you have any further queries.
>
> Kind regards,
>
> **Zac Thomas**
>
> Heritage Administration Assistant

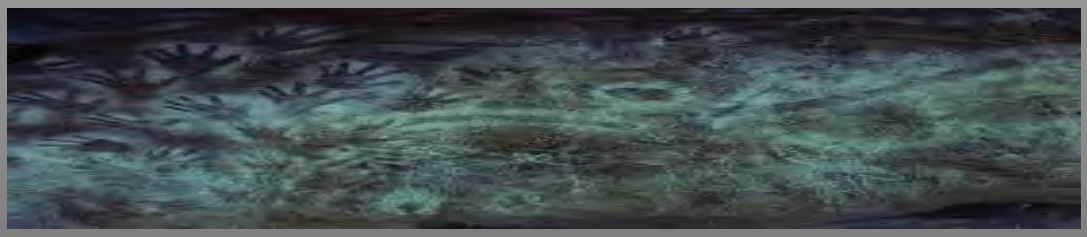
Kelleher Nightingale Consulting Pty Ltd

Level 10, 25 Bligh St

Sydney NSW 2000

p 02 9232 5373

Waawaar Awaaa Aboriginal Corporation



20/07/2020

Dear Zac,

Waawaar Awaaa Aboriginal Corporation comprises of Aboriginal people that have an interest, cultural connection and cultural knowledge relevant to determining the significance of Aboriginal objects and Places within the project area.

Waawaar Awaaa members, being all Aboriginal have a deep interest and responsibility regarding any potential impacts to Aboriginal objects or places within the traditional cultural areas of **Dharawal, Gundungurra** and **Darug** and also within the Local Aboriginal Land Council (LALC) boundary areas of **Tharawal, Deerubbin, Gandangara, La Perouse and Metropolitan LALCs.**

Waawaar Awaaa Aboriginal Corporation is a non- profit organisation that aims to actively participate in the assessment processes and management of Aboriginal objects and Aboriginal places due to possible development impacts.

Waawaar Awaaa Aboriginal Corporation seeks to assist in the management of the natural environmental impacts and to provide employment opportunities for Aboriginal people and endeavours to promote Aboriginal culture to educate the broader community about Australia's Aboriginal rich diverse cultural history.

Employment in cultural heritage assessments is a source of income that organisations such as ours can use to contribute to fund beneficial activities and support to the community therefore Waawaar Awaaa requests participation in any survey, test excavations and salvage that may assist in informing the cultural values of the area and also contribute to the aims and objectives of the Waawaar Awaaa Aboriginal Corporation.

Waawaar Awaaa Aboriginal Corporation members have a deep diverse understanding of historical and traditional Aboriginal culture, NPWS Legislation and Archaeological field and assessments processes and procedures.

We would like to register our interest for full consultation for the proposed development at 'Stage 3' of Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW and would also request to be advised and involved in any survey and fieldwork opportunities.

regards

Rodney Gunther
Director
Waawaar Awaaa Aboriginal Corporation
Waawaar.awaa@gmail.com

Zac Thomas

From: philip khan <philipkhan.acn@live.com.au>
Sent: Tuesday, 21 July 2020 9:40 AM
To: Zac Thomas
Subject: RE: Notification of project proposal and registration of interest - 1947 Sydney Business Park Stage 3, Marsden Park - KYWG
Attachments: Public Liability Kamilaroi 2020 to 2021 20million cover.pdf; Workers Comp Insurance for Kamilaroi Yankuntjatjara Working Group Pty Ltd.pdf

Hi Zac,

Thank you for informing us that **Kelleher & Nightingale Consulting** will be involved in an Aboriginal Cultural Heritage Assessment for **1947 Sydney Business Park Stage 3, Marsden Park** &, that you are inviting Aboriginal organisations to register, if they wish too be involved in the community consultation process.

As a senior Aboriginal person for the past 40yrs, I actively participate in the protection of the Aboriginal Cultural Heritage throughout the Sydney Basin, & particularly throughout Western Sydney, on behalf of Kamilaroi Yankuntjatjara Working Group I wish to provide to you my organisation's registration of interest.

I wish to be involved & participate in all levels of consultation/project involvement. I wish to attend all meetings, participate in available field work & receive a copy of the report.

I have attached a copy of Kamilaroi Yankuntjatjara Working group's Public Liability Insurance & Workers Compensation certificate.

Should you wish me to provide further information, please do not hesitate to contact me on 0434545982 or Stefeanie on 0451068480.

Kind Regards
Phil Khan

Sent from Mail for Windows 10

From: Zac Thomas <zac.thomas@knconsult.com.au>
Sent: Friday, July 17, 2020 2:48:29 PM
To: philip khan <philipkhan.acn@live.com.au>
Subject: Notification of project proposal and registration of interest - 1947 Sydney Business Park Stage 3, Marsden Park - KYWG

Dear potential stakeholder,

You or your organisation have been identified as a possible Aboriginal stakeholder for an upcoming heritage assessment of proposed warehouse and distribution facilities in the area known as 'Stage 3' of Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW.

Please find attached a letter and invitation to register your interest in the Aboriginal community consultation process. If you wish to register, please do so using the contact details for Kelleher Nightingale Consulting on the attached letter by 31 July 2020. You may also register via reply email to me.

Please be advised that in accordance with Heritage NSW requirements, we are required to record the names of each Aboriginal person/organisation who has registered an interest in this project and provide a copy of that record to the relevant Heritage NSW office and Local Aboriginal Land Council. If you are registering your interest, please let us know if you do not want your details forwarded to these organisations.

Please do not hesitate to call our office if you have any further queries.

Kind regards,

Zac Thomas
Heritage Administration Assistant
Kelleher Nightingale Consulting Pty Ltd
Level 10, 25 Bligh St
Sydney NSW 2000
p 02 9232 5373

From: Zac Thomas
Sent: Friday, 17 July 2020 2:48 PM
To: philip khan
Subject: Notification of project proposal and registration of interest - 1947 Sydney Business Park Stage 3, Marsden Park - KYWG

Dear potential stakeholder,

You or your organisation have been identified as a possible Aboriginal stakeholder for an upcoming heritage assessment of proposed warehouse and distribution facilities in the area known as 'Stage 3' of Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW.

Please find attached a letter and invitation to register your interest in the Aboriginal community consultation process. If you wish to register, please do so using the contact details for Kelleher Nightingale Consulting on the attached letter by 31 July 2020. You may also register via reply email to me.

Please be advised that in accordance with Heritage NSW requirements, we are required to record the names of each Aboriginal person/organisation who has registered an interest in this project and provide a copy of that record to the relevant Heritage NSW office and Local Aboriginal Land Council. If you are registering your interest, please let us know if you do not want your details forwarded to these organisations.

Please do not hesitate to call our office if you have any further queries.

Kind regards,

Zac Thomas
Heritage Administration Assistant
Kelleher Nightingale Consulting Pty Ltd
Level 10, 25 Bligh St
Sydney NSW 2000
p 02 9232 5373

Zac Thomas

From: Lee Field <barrabyculturalservices@gmail.com>
Sent: Tuesday, 21 July 2020 11:40 AM
To: Zac Thomas
Subject: Registration Of Interest Aboriginal Community Consultation - 1947 Sydney Business Park Stage 3, Marsden Park

Hi Zac,

Barraby Cultural Services would like to register our interest in the following project:
1947 Sydney Business Park Stage 3, Marsden Park NSW

Kind Regards,
Lee Field
--

Zac Thomas

From: Bo Field <yurrandaali_cs@hotmail.com>
Sent: Tuesday, 21 July 2020 11:41 AM
To: Zac Thomas
Subject: Registration of Interest ACHA - 1947 Sydney Business Park Stage 3, Marsden Park NSW

Follow Up Flag: Follow up
Flag Status: Flagged

Hi Zac,

Yurrandaali Pty Ltd would like to register our interest in the following project:
1947 Sydney Business Park Stage 3, Marsden Park NSW

Kind Regards,
Bo Field

Zac Thomas

From: WIDESCOPE . <widescope.group@live.com>
Sent: Sunday, 26 July 2020 10:48 AM
To: Zac Thomas
Subject: Registration, Stage 3 Facilities Sydney Business Park Marsden Park, NSW

Follow Up Flag: Follow up
Flag Status: Flagged

Hi Zac,

Please register my interest in the Aboriginal Cultural heritage assessment for the above project
I am a recognised indigenous cultural knowledge holder. I hold cultural knowledge relevant in determining the significance of Aboriginal objects and places in the vicinity of the study area. I hold a cultural connection to the area of the project and surrounding areas

My preferred Method of contact is Via Email:widescope.group@live.com
Or Steven Hickey (RAP) Mob 0425230693
Donna Hickey Administration 0425232056

My level of involvement:
I would like to attend Community Consultation meetings; I do not require hard copies of reports.

I would like to be considered for any future field survey works. I am fit and skilled in all aspects of cultural surveying works.
Thank you for your consideration, I look forward to assisting the team with the Aboriginal Cultural Heritage section of the project.

Privacy: Please do not release my personal details including my Email address to other RAP
I give consent to Heritage NSW and Local Aboriginal Land Council thank you.

Regards
Steven Hickey

Zac Thomas

From:	justinecoplin@optusnet.com.au
Sent:	Monday, 27 July 2020 12:24 PM
To:	Zac Thomas
Subject:	reg of interest STAGE 3 FACILITIES SYDNEY BUSINESS PARK - MARSDEN PARK, NSW
Attachments:	reg of interest STAGE 3 FACILITIES SYDNEY BUSINESS PARK - MARSDEN PARK, NSW.pdf

DARUG CUSTODIAN
ABORIGINAL CORPORATION

DARUG CUSTODIAN
ABORIGINAL
CORPORATION

PO BOX 81 WINDSOR 2756
PHONE: 0245775181 FAX: 0245775098
MOBILE: 0414962766 Justine Coplin
EMAIL: justinecoplin@optusnet.com.au

Attention KNC **Date:** 27072020

Subject: STAGE 3 FACILITIES SYDNEY BUSINESS PARK – MARSDEN PARK, NSW

Dear

Our group is a non- profit organisation that has been active for over forty years in Western Sydney, we are a Darug community group with over three hundred members. The main aim in our constitution is the care of Darug sites, places, wildlife and to promote our culture and provide education on the Darug history.

The Marsden Park area is an area that our group has a vast knowledge of, we have worked and lived in for many years, this area is significant to the Darug people due to the connection of sites and the continued occupation. Our group has been involved in all previous assessments and works in this area as a traditional owner Darug group for the past 40 plus years.

Therefore we would like to register our interest for full consultation and involvement in the above project area.

Please contact us with all further enquiries on the above contacts.

Regards

Justine Coplin

We acknowledge and pay respect to the Darug people,the traditional Aboriginal custodians of this land.

Zac Thomas

From: Carolyn .H <cazadirect@live.com>
Sent: Tuesday, 28 July 2020 8:53 AM
To: Zac Thomas
Subject: Re: Notification of project proposal and registration of interest - 1947 Sydney Business Park Stage 3, Marsden Park - A1

A1 INDIGENOUS SERVICES PTY LTD
Contact: Carolyn Hickey
M: 0411650057
E: Cazadirect@live.com
A: 10 Marie Pitt Place, Glenmore Park, NSW 2745
ACN: 639 868 876

Hi,
I would like to register for consultation Meetings and field work, I hold cultural knowledge relevant to determining the cultural significance of any Aboriginal objects and values that exist within the project area.
Kind Regards,
Carolyn Hickey

From: Zac Thomas <zac.thomas@knconsult.com.au>
Sent: Friday, 17 July 2020 2:34 PM
To: Caza X <cazadirect@live.com>
Subject: Notification of project proposal and registration of interest - 1947 Sydney Business Park Stage 3, Marsden Park - A1

Dear potential stakeholder,

You or your organisation have been identified as a possible Aboriginal stakeholder for an upcoming heritage assessment of proposed warehouse and distribution facilities in the area known as 'Stage 3' of Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW.

Please find attached a letter and invitation to register your interest in the Aboriginal community consultation process. If you wish to register, please do so using the contact details for Kelleher Nightingale Consulting on the attached letter by 31 July 2020. You may also register via reply email to me.

Please be advised that in accordance with Heritage NSW requirements, we are required to record the names of each Aboriginal person/organisation who has registered an interest in this project and provide a copy of that record to the relevant Heritage NSW office and Local Aboriginal Land Council. If you are registering your interest, please let us know if you do not want your details forwarded to these organisations.

Please do not hesitate to call our office if you have any further queries.

Kind regards,

Zac Thomas
Heritage Administration Assistant
Kelleher Nightingale Consulting Pty Ltd
Level 10, 25 Bligh St
Sydney NSW 2000
p 02 9232 5373

Zac Thomas

From: Lilly Carroll <didgengunawalclan@yahoo.com.au>
Sent: Friday, 17 July 2020 2:52 PM
To: Zac Thomas
Subject: Re: Notification of project proposal and registration of interest - 1947 Sydney Business Park Stage 3, Marsden Park - DNC

Hi Zac

DNC would like to RE:
registration of interest - 1947 Sydney Business Park Stage 3, Marsden Park -

Kind regards DNC
Paul Boyd & Lilly Carroll
0426823944

Sent from myMail for iOS

Friday, 17 July 2020, 2:46 pm +1000 from Zac Thomas <zac.thomas@knconsult.com.au>:

Dear potential stakeholder,

You or your organisation have been identified as a possible Aboriginal stakeholder for an upcoming heritage assessment of proposed warehouse and distribution facilities in the area known as óStage 3ô of Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW.

Please find attached a letter and invitation to register your interest in the Aboriginal community consultation process. If you wish to register, please do so using the contact details for Kelleher Nightingale Consulting on the attached letter by 31 July 2020. You may also register via reply email to me.

Please be advised that in accordance with Heritage NSW requirements, we are required to record the names of each Aboriginal person/organisation who has registered an interest in this project and provide a copy of that record to the relevant Heritage NSW office and Local Aboriginal Land Council. If you are registering your interest, please let us know if you do not want your details forwarded to these organisations.

Please do not hesitate to call our office if you have any further queries.

Kind regards,

Zac Thomas

Heritage Administration Assistant

Kelleher Nightingale Consulting Pty Ltd

Level 10, 25 Bligh St

Sydney NSW 2000

p 02 9232 5373

Zac Thomas

From: Aaron Slater <warragil_c.s@hotmail.com>
Sent: Tuesday, 28 July 2020 11:54 AM
To: Zac Thomas
Subject: Re: Notification of project proposal and registration of interest - 1947 Sydney Business Park Stage 3, Marsden Park - WCS

Follow Up Flag: Follow up
Flag Status: Flagged

Hi Zac

Warragil cultural services would like to register interest in the above project if you need anything further please do not hesitate to contact me cheers.

Kind regards
Aaron slater
0413655765

Sent from Outlook

From: Zac Thomas <zac.thomas@knconsult.com.au>
Sent: Friday, 17 July 2020 2:23 PM
To: Aaron Slater <warragil_c.s@hotmail.com>
Subject: Notification of project proposal and registration of interest - 1947 Sydney Business Park Stage 3, Marsden Park - WCS

Dear potential stakeholder,

You or your organisation have been identified as a possible Aboriginal stakeholder for an upcoming heritage assessment of proposed warehouse and distribution facilities in the area known as 'Stage 3' of Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW.

Please find attached a letter and invitation to register your interest in the Aboriginal community consultation process. If you wish to register, please do so using the contact details for Kelleher Nightingale Consulting on the attached letter by 31 July 2020. You may also register via reply email to me.

Please be advised that in accordance with Heritage NSW requirements, we are required to record the names of each Aboriginal person/organisation who has registered an interest in this project and provide a copy of that record to the relevant Heritage NSW office and Local Aboriginal Land Council. If you are registering your interest, please let us know if you do not want your details forwarded to these organisations.

Please do not hesitate to call our office if you have any further queries.

Kind regards,

Zac Thomas
Heritage Administration Assistant
Kelleher Nightingale Consulting Pty Ltd
Level 10, 25 Bligh St

Sydney NSW 2000
p 02 9232 5373

Zac Thomas

From: Butucarbin Heritage <butuheritage@gmail.com>
Sent: Tuesday, 28 July 2020 9:53 PM
To: Zac Thomas
Subject: Re: Notification of project proposal and registration of interest - 1947 Sydney Business Park Stage 3, Marsden Park - BAC

Follow Up Flag: Follow up
Flag Status: Flagged

Dear Zac,
On behalf of Butucarbin, I would like to register interest in the consultation in relation to the project at Marsden Park.

Kind regards,

On Fri, Jul 17, 2020 at 2:39 PM Zac Thomas <zac.thomas@knconsult.com.au> wrote:

> Dear potential stakeholder,
>
> You or your organisation have been identified as a possible Aboriginal stakeholder for an upcoming heritage assessment of proposed warehouse and distribution facilities in the area known as óStage 3ô of Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW.
>
> Please find attached a letter and invitation to register your interest in the Aboriginal community consultation process. If you wish to register, please do so using the contact details for Kelleher Nightingale Consulting on the attached letter by 31 July 2020. You may also register via reply email to me.
>
> Please be advised that in accordance with Heritage NSW requirements, we are required to record the names of each Aboriginal person/organisation who has registered an interest in this project and provide a copy of that record to the relevant Heritage NSW office and Local Aboriginal Land Council. If you are registering your interest, please let us know if you do not want your details forwarded to these organisations.
>
> Please do not hesitate to call our office if you have any further queries.
>
> Kind regards,
>
> **Zac Thomas**

Heritage Administration Assistant

Kelleher Nightingale Consulting Pty Ltd

Level 10, 25 Bligh St

Sydney NSW 2000

p 02 9232 5373

--
Lowanna Gibson
Project Manager for Butucarbin Cultural Heritage Assessments
B.A Archaeology/Anthropology USYD
Juris Doctor Candidate UTS

Zac Thomas

From: Scott Franks <scott@tocomwall.com.au>
Sent: Friday, 31 July 2020 10:13 AM
To: Zac Thomas; Danny Franks
Subject: Stage 3 sydney business park

Dear Zac,

Can you please register tocomwall interest for the stage 3 sydney business park- marsdan park .

Regards
Scott Franks
Registered native title claimant PCWP
Tocomwall PTY Limited
Scott@tocomwall.com.au
Ph: 0404171544

Zac Thomas

From: Amanda DeZwart <amandahickey@live.com.au>
Sent: Monday, 3 August 2020 2:38 PM
To: Zac Thomas
Subject: Re: Notification of project proposal and registration of interest - 1947 Sydney Business Park Stage 3, Marsden Park - AHCS

Follow Up Flag: Follow up
Flag Status: Flagged

Contact: **Amanda DeZwart**
Mobile: **0434 480 558**
Address: **57 Gough St, Emu Plains, NSW 2750**
ABN: **498 242 132 40**

Hi,
I would like to register for consultation Meetings and future field work, I hold cultural knowledge to determine cultural significance of Aboriginal Objects and areas that exist in the project area.

Kind regards,
Amanda DeZwart

From: Zac Thomas <zac.thomas@knconsult.com.au>
Sent: Friday, 17 July 2020 2:38 PM
To: amandahickey@live.com.au <amandahickey@live.com.au>
Subject: Notification of project proposal and registration of interest - 1947 Sydney Business Park Stage 3, Marsden Park - AHCS

Dear potential stakeholder,

You or your organisation have been identified as a possible Aboriginal stakeholder for an upcoming heritage assessment of proposed warehouse and distribution facilities in the area known as 'Stage 3' of Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW.

Please find attached a letter and invitation to register your interest in the Aboriginal community consultation process. If you wish to register, please do so using the contact details for Kelleher Nightingale Consulting on the attached letter by 31 July 2020. You may also register via reply email to me.

Please be advised that in accordance with Heritage NSW requirements, we are required to record the names of each Aboriginal person/organisation who has registered an interest in this project and provide a copy of that record to the relevant Heritage NSW office and Local Aboriginal Land Council. If you are registering your interest, please let us know if you do not want your details forwarded to these organisations.

Please do not hesitate to call our office if you have any further queries.

Kind regards,

Zac Thomas
Heritage Administration Assistant
Kelleher Nightingale Consulting Pty Ltd
Level 10, 25 Bligh St
Sydney NSW 2000
p 02 9232 5373

Zac Thomas

From: Ryan Johnson <murrabidgeemullangari@yahoo.com.au>
Sent: Friday, 17 July 2020 2:55 PM
To: Zac Thomas
Subject: Re: Notification of project proposal and registration of interest - 1947 Sydney Business Park Stage 3, Marsden Park - MBMAC

Hi Zac
Please register our organisation for the above Project.
Kind regards
Ryan johnson
0475565517

On 17 Jul 2020, at 2:48 pm, Zac Thomas <zac.thomas@knconsult.com.au> wrote:

> Dear potential stakeholder,
>
> You or your organisation have been identified as a possible Aboriginal stakeholder for an upcoming heritage assessment of proposed warehouse and distribution facilities in the area known as 'Stage 3' of Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW.
>
> Please find attached a letter and invitation to register your interest in the Aboriginal community consultation process. If you wish to register, please do so using the contact details for Kelleher Nightingale Consulting on the attached letter by 31 July 2020. You may also register via reply email to me.
>
> Please be advised that in accordance with Heritage NSW requirements, we are required to record the names of each Aboriginal person/organisation who has registered an interest in this project and provide a copy of that record to the relevant Heritage NSW office and Local Aboriginal Land Council. If you are registering your interest, please let us know if you do not want your details forwarded to these organisations.
>
> Please do not hesitate to call our office if you have any further queries.
>
> Kind regards,
>
> **Zac Thomas**
> Heritage Administration Assistant
> **Kelleher Nightingale Consulting Pty Ltd**
> Level 10, 25 Bligh St
> Sydney NSW 2000
> p 02 9232 5373
>
> <413_MBMAC_170720.pdf>

Zac Thomas

From: Vicky slater <wurrumay@hotmail.com>
Sent: Friday, 17 July 2020 3:03 PM
To: Zac Thomas
Subject: Re: Notification of project proposal and registration of interest - 1947 Sydney Business Park Stage 3, Marsden Park - Wurrumay

Good Evening Zac.

Wurrumay Pty Ltd would like to register an interest for the above project.

We hold Knowledge & Connection to Country with Ancestral ties with Black Kitty- Native Institute at Black town c 1800 within the project Area's.

Experienced Indigenous Site Officer's & Current Insurances

Kind Regards

Vicky Slater
Manager

Wurrumay Pty Ltd
89 Pyramid Street
Emu Plains NSW.2750

M:0421077521

On 17 Jul. 2020 2:54 pm, Zac Thomas <zac.thomas@knconsult.com.au> wrote:

Dear potential stakeholder,

You or your organisation have been identified as a possible Aboriginal stakeholder for an upcoming heritage assessment of proposed warehouse and distribution facilities in the area known as óStage 3ô of Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW.

Please find attached a letter and invitation to register your interest in the Aboriginal community consultation process. If you wish to register, please do so using the contact details for Kelleher Nightingale Consulting on the attached letter by 31 July 2020. You may also register via reply email to me.

Please be advised that in accordance with Heritage NSW requirements, we are required to record the names of each Aboriginal person/organisation who has registered an interest in this project and provide a copy of that record to the relevant Heritage NSW office and Local Aboriginal Land Council. If you are registering your interest, please let us know if you do not want your details forwarded to these organisations.

Please do not hesitate to call our office if you have any further queries.

Kind regards,

Zac Thomas

Heritage Administration Assistant

Kelleher Nightingale Consulting Pty Ltd

Level 10, 25 Bligh St

Sydney NSW 2000

p 02 9232 5373

Zac Thomas

From: jesse johnson <muragadi@yahoo.com.au>
Sent: Friday, 17 July 2020 4:04 PM
To: Zac Thomas
Subject: Re: Notification of project proposal and registration of interest - 1947 Sydney Business Park Stage 3, Marsden Park - MHIC

Hi Zac
Please register our corporation for the above project
Kind regards
Jesse Johnson

On 17 Jul 2020, at 2:49 pm, Zac Thomas <zac.thomas@knconsult.com.au> wrote:

> Dear potential stakeholder,
>
> You or your organisation have been identified as a possible Aboriginal stakeholder for an upcoming heritage assessment of proposed warehouse and distribution facilities in the area known as 'Stage 3' of Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW.
>
> Please find attached a letter and invitation to register your interest in the Aboriginal community consultation process. If you wish to register, please do so using the contact details for Kelleher Nightingale Consulting on the attached letter by 31 July 2020. You may also register via reply email to me.
>
> Please be advised that in accordance with Heritage NSW requirements, we are required to record the names of each Aboriginal person/organisation who has registered an interest in this project and provide a copy of that record to the relevant Heritage NSW office and Local Aboriginal Land Council. If you are registering your interest, please let us know if you do not want your details forwarded to these organisations.
>
> Please do not hesitate to call our office if you have any further queries.
>
> Kind regards,
>
> **Zac Thomas**
> Heritage Administration Assistant
> **Kelleher Nightingale Consulting Pty Ltd**
> Level 10, 25 Bligh St
> Sydney NSW 2000
> p 02 9232 5373
>
> <413_MHIC_170720.pdf>

Zac Thomas

From: Shaun Carroll <Merrigarn@hotmail.com>
Sent: Friday, 17 July 2020 4:17 PM
To: Zac Thomas
Subject: Notification of project proposal and registration of interest - 1947 Sydney Business Park Stage 3, Marsden Park -

Follow Up Flag: Follow up
Flag Status: Completed

Hi Zac
Please register Merrigarn for the above project.
Kind regards
Shaun Carroll
0499187238

Kelleher
Nightingale Consulting Pty Ltd

ABN 26 120 187 671 ACN 120 187 671

Level 10
25 Bligh Street
Sydney NSW 2000
p 02 9232 5373
f 02 9223 0680

RECORD OF DISCUSSION

Date:	17/7/20	**Ref:** Sydney Business Park Stage 3
Time:	4:45pm	**Project No.:** 1947
Contact:	Phil Boney	**KNC Personnel:** Zac
Organisation:	Wailwan Aboriginal Group	
Number:	0492213073	
Re:	Registration of Interest	

Discussion:
Phil called to register for 1947 Sydney Business Park Stage 3.

Zac Thomas

From: Arika Jalomaki <yulayculturalservices@gmail.com>
Sent: Friday, 17 July 2020 5:03 PM
To: Zac Thomas
Subject: Re: Notification of project proposal and registration of interest - 1947 Sydney Business Park Stage 3, Marsden Park - YCS

Dear Zac,

Yulay Cultural serviceôs would like to express our interest in the above project.

Kind regards
Arika Jalomaki
0411 048 794

On Fri, 17 Jul 2020 at 2:55 pm, Zac Thomas <zac.thomas@knconsult.com.au> wrote:

> Dear potential stakeholder,
>
> You or your organisation have been identified as a possible Aboriginal stakeholder for an upcoming heritage assessment of proposed warehouse and distribution facilities in the area known as óStage 3ô of Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW.
>
> Please find attached a letter and invitation to register your interest in the Aboriginal community consultation process. If you wish to register, please do so using the contact details for Kelleher Nightingale Consulting on the attached letter by 31 July 2020. You may also register via reply email to me.
>
> Please be advised that in accordance with Heritage NSW requirements, we are required to record the names of each Aboriginal person/organisation who has registered an interest in this project and provide a copy of that record to the relevant Heritage NSW office and Local Aboriginal Land Council. If you are registering your interest, please let us know if you do not want your details forwarded to these organisations.
>
> Please do not hesitate to call our office if you have any further queries.
>
> Kind regards,
>
> **Zac Thomas**
>
> Heritage Administration Assistant

Kelleher Nightingale Consulting Pty Ltd

Level 10, 25 Bligh St

Sydney NSW 2000

p 02 9232 5373

--
Arika Jalomaki

Kelleher
Nightingale Consulting Pty Ltd
ABN 26 120 187 671 ACN 120 187 671

Level 10
25 Bligh Street
Sydney NSW 2000
p 02 9232 5373
f 02 9223 0680

4 August 2020

CEO
Deerubbin Local Aboriginal Land Council
PO Box 40
PENRITH BC NSW 2751
Via email: staff@deerubbin.org.au; srandall@deerubbin.org.au

Dear Sir/Madam,

RE: STAGE 3 FACILITIES SYDNEY BUSINESS PARK – MARSDEN PARK, NSW
ABORIGINAL STAKEHOLDER CONSULTATION: RECORD OF REGISTRATION OF INTEREST

Thank you for your involvement with this project to date. We look forward to continuing to consult with you on the project.

Further to prior communications, this letter is to advise that the notification and advertisement process for the above project has now been completed.

The closing date for registration of interest was 31 July 2020.

In accordance with item 4.1.6 of the *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010* (DECCW April 2010) a record of the names of each Aboriginal person who registered an interest in the project has been made, unless the registered Aboriginal party specified they do not want their details released in accordance with item 4.1.5. Two stakeholders have chosen to withhold their details.

Please find attached a copy of that record, as well as copies of the notifications from item 4.1.3.

As required, copies of the record and notifications have also been provided to Heritage NSW (as part of the Department of Premier and Cabinet).

If you have any questions or require further information, please don't hesitate to contact the office on 9232 5373.

Yours sincerely,

Z. Thomas

Zac Thomas
Heritage Administration Assistant

Attachments: (1) Record of Registration List
(2) Advertisement
(3) Notification Letter

Kelleher
Nightingale Consulting Pty Ltd
ABN 26 120 187 671 ACN 120 187 671

Level 10
25 Bligh Street
Sydney NSW 2000
p 02 9232 5373
f 02 9223 0680

4 August 2020

Senior Team Leader, Aboriginal Cultural Heritage Regulation
Heritage NSW
Department of Premier and Cabinet
Locked Bag 5020
Parramatta NSW 2124
Via email: heritagemailbox@environment.nsw.gov.au

Dear Sir/Madam,

RE: STAGE 3 FACILITIES SYDNEY BUSINESS PARK – MARSDEN PARK, NSW
ABORIGINAL STAKEHOLDER CONSULTATION: RECORD OF REGISTRATION OF INTEREST

Thank you for your letter regarding identifying Aboriginal stakeholders that may have an interest in the proposed warehouse and distribution facilities in the area known as 'Stage 3' of Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW. It is greatly appreciated.

Further to prior communication, this letter is to advise that the notification and advertisement process for the above project has now been completed.

The closing date for registration of interest was 31 July 2020.

In accordance with item 4.1.6 of the *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010* (DECCW April 2010) a record of the names of each Aboriginal person who registered an interest in the project has been made, unless the registered Aboriginal party specified they do not want their details released in accordance with item 4.1.5. No stakeholders have chosen to withhold their details.

Please find attached a copy of that record, as well as copies of the notifications from item 4.1.3.

As required, copies of the record and notifications have also been provided to Deerubbin Local Aboriginal Land Council.

If you have any questions or require further information, please don't hesitate to contact the office on 9232 5373.

Yours sincerely,

Z. Thomas

Zac Thomas
Heritage Administration Assistant

Attachments: (1) Record of Registration List
(2) Advertisement
(3) Notification Letter

1947: STAGE 3 FACILITIES SYDNEY BUSINESS PARK – MARSDEN PARK, NSW
ABORIGINAL CULTURAL HERITAGE CONSULTATION
Record of Registration of Interest

Step 4.1.6, *Aboriginal cultural heritage consultation requirements for proponents 2010*

There are 23 Registered Aboriginal Stakeholders listed for the project, as shown in the table below.

Registered Aboriginal Stakeholder	Name of Aboriginal Person and/or Contact person
Deerubbin Local Aboriginal Land Council	CEO
A1 Indigenous Services	Carolyn Hickey
Amanda DeZwart	Amanda DeZwart
Barraby Cultural Services	Lee Field
Butucarbin Aboriginal Corporation	Lowanna Gibson
Darug Custodian Aboriginal Corporation	Justine Coplin
Dhinawan Culture and Heritage Pty Ltd	Stephen Fields
Didge Ngunawal Clan	Paul Boyd & Lilly Carroll
Freeman & Marx Pty Ltd	Clive Freeman
Kamilaroi Yankuntjatjara Working Group	Phil Khan
Merrigarn	Shaun Carroll
Muragadi Heritage Indigenous Corporation	Jesse Johnson
Murra Bidgee Mullangari Aboriginal Corporation	Ryan Johnson
Registered Aboriginal Stakeholder	Details withheld
Registered Aboriginal Stakeholder	Details withheld
Tocomwall	Scott Franks
Waawaar Awaaa Aboriginal Corporation	Rodney Gunther
Wailwan Aboriginal Group	Phil Boney
Warragil Cultural Services	Aaron Slater
Widescope Indigenous Group	Steven Hickey
Wurrumay Pty Ltd	Vicky Slater
Yulay Cultural Services	Arika Jalomaki
Yurrandaali Pty Ltd	Bo Field

Kelleher Nightingale Consulting Pty Ltd

Level 10
25 Bligh Street
Sydney NSW 2000
p 02 9232 5373
f 02 9223 0680

31 July 2020

Carolyn Hickey
A1 Indigenous Services
cazadirect@live.com

Dear Sir/Madam,

RE. **STAGE 3 FACILITIES SYDNEY BUSINESS PARK – MARSDEN PARK, NSW**
PROJECT INFORMATION AND PROPOSED ASSESSMENT METHODOLOGY

Thank you for registering your interest to be involved in the Aboriginal cultural heritage consultation process for the proposed 'Stage 3' of Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW. We are looking forward to consulting with you on the project. This letter is to provide registered stakeholders with information about:

a) The proposed activity that may be the subject of applications and approvals through a State Significant Development (SSD) under the *Environmental Planning and Assessment Act 1979*.

b) The proposed cultural heritage assessment report (CHAR) process.

Project Information

Marsden Park Developments Pty Ltd is proposing to develop warehouse and distribution facilities in the area known as 'Stage 3' of Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW. The project is located in the Blacktown City Council local government area. The proponent is Marsden Park Developments Pty Ltd (Michael Gray, Infrastructure Director: 15 Hollinsworth Road, Marsden Park NSW 2765).

Consultation Process

Aboriginal community consultation is an important part of the project and will be undertaken in accordance with the Department of Planning, Industry and Environment (DPIE) *Aboriginal cultural heritage consultation requirements for proponents 2010*.

According to DPIE, the consultation process includes getting the views of, and information from, Aboriginal people and reporting on these. DPIE specifically notes that consultation should not be confused with employment or with other field assessment processes involved in preparing a project proposal and an AHIP application.

Consultation as per the *Aboriginal cultural heritage consultation requirements for proponents 2010* will continue throughout the assessment process. A consultation process with registered Aboriginal stakeholders and the preparation of a CHAR will assist Marsden Park Developments Pty Ltd in considering Aboriginal heritage in relation to the proposed activity.

In following the DPIE requirements, the consultation process includes:

- Notification of project proposal and advertisement (completed).
- Registration of interest of Aboriginal stakeholders and provision of project information (completed).
- Consultation on proposed CHAR methodology (28 day review period, in process).
- Opportunity to review and provide feedback regarding the archaeological and cultural assessment methodologies (28 day review period, in process).
- Comprehensive archaeological and cultural assessment of the Aboriginal heritage values of the study area, assessment of the potential impact of the proposed activities on Aboriginal objects or Aboriginal places and recommendations. Archaeological assessment may include test excavation.
- Consultation on the draft CHAR (28 day review period).
- Invitation for Aboriginal cultural knowledge holders and stakeholders to provide information on the cultural value of the area (28 day response period, in process).
- Consideration of all Aboriginal stakeholder comments.

Proposed Cultural Heritage Assessment Report Methodology

For the project, the assessment methodology will be structured in accordance with the DPIE *Guide to investigating, assessing and reporting on Aboriginal cultural heritage in NSW*.

In following the DPIE requirements, the proposed assessment methodology will include the following steps:

1. Review of background information. This includes compiling data relating to the environmental, historic and archaeological context of the study area and completion of archaeological survey or test excavation where required. Any archaeological survey or test excavation activities will be undertaken in accordance with DPIE requirements.
2. Consultation with Aboriginal stakeholders, including seeking information from registered Aboriginal organisations and individuals about whether there are any Aboriginal objects or places of cultural value to stakeholders in the study area.
3. Identification and assessment of cultural significance. This includes identifying the range of cultural heritage values present in the study area and assessing their level of importance based on social/cultural, archaeological, historic and aesthetic values and significance. If you have information on the cultural heritage values and significance of the study area and would like this information included in the assessment, we would welcome your contribution.
4. Assessing harm. This step involves analysing the nature and extent of the proposed activity and assessing whether it has the potential to harm any of the identified Aboriginal objects or places present in the study area and what effect the proposed activity might have on their heritage value.
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Contact Regarding CHAR Methodology

We will keep you updated on any developments as the project progresses.

Please send any comments on the proposed cultural heritage assessment methodology outlined above, and any cultural information you may wish to share, to the following:

Zac Thomas
Kelleher Nightingale Consulting Pty Ltd
Level 10, 25 Bligh St
SYDNEY NSW 2000
Phone: 02 9232 5373
Fax: 02 9223 0680
zac.thomas@knconsult.com.au

Please ensure your response is received by 28 August 2020.

If you have any questions on the information provided above or would like to discuss the project further, please feel free to contact us. We look forward to consulting with you throughout the project.

Yours sincerely,

Zac Thomas
Heritage Administration Assistant

Kelleher Nightingale Consulting Pty Ltd

Level 10
25 Bligh Street
Sydney NSW 2000
p 02 9232 5373
f 02 9223 0680

3 August 2020

Amanda DeZwart
amandahickey@live.com.au

Dear Sir/Madam,

RE. **STAGE 3 FACILITIES SYDNEY BUSINESS PARK – MARSDEN PARK, NSW**
PROJECT INFORMATION AND PROPOSED ASSESSMENT METHODOLOGY

Thank you for registering your interest to be involved in the Aboriginal cultural heritage consultation process for the proposed 'Stage 3' of Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW. We are looking forward to consulting with you on the project. This letter is to provide registered stakeholders with information about:

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Kelleher Nightingale Consulting Pty Ltd
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Phone: 02 9232 5373
Fax: 02 9223 0680
zac.thomas@knconsult.com.au

Please ensure your response is received by 28 August 2020.

If you have any questions on the information provided above or would like to discuss the project further, please feel free to contact us. We look forward to consulting with you throughout the project.

Yours sincerely,

Zac Thomas
Heritage Administration Assistant

Kelleher Nightingale Consulting Pty Ltd

Level 10
25 Bligh Street
Sydney NSW 2000
p 02 9232 5373
f 02 9223 0680

31 July 2020

Lowanna Gibson
Butucarbin Aboriginal Corporation
butuheritage@gmail.com

Dear Sir/Madam,

RE. **STAGE 3 FACILITIES SYDNEY BUSINESS PARK – MARSDEN PARK, NSW**
PROJECT INFORMATION AND PROPOSED ASSESSMENT METHODOLOGY

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Yours sincerely,

Zac Thomas
Heritage Administration Assistant

Kelleher Nightingale Consulting Pty Ltd

Level 10
25 Bligh Street
Sydney NSW 2000
p 02 9232 5373
f 02 9223 0680

31 July 2020

Lee Field
Barraby Cultural Services
barrabyculturalservices@gmail.com

Dear Sir/Madam,

RE. **STAGE 3 FACILITIES SYDNEY BUSINESS PARK – MARSDEN PARK, NSW**
PROJECT INFORMATION AND PROPOSED ASSESSMENT METHODOLOGY

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Please ensure your response is received by 28 August 2020.

If you have any questions on the information provided above or would like to discuss the project further, please feel free to contact us. We look forward to consulting with you throughout the project.

Yours sincerely,

Zac Thomas
Heritage Administration Assistant

Kelleher Nightingale Consulting Pty Ltd

Level 10
25 Bligh Street
Sydney NSW 2000
p 02 9232 5373
f 02 9223 0680

31 July 2020

Justine Coplin
Darug Custodian Aboriginal Corporation
justinecoplin@optusnet.com.au

Dear Sir/Madam,

RE. **STAGE 3 FACILITIES SYDNEY BUSINESS PARK – MARSDEN PARK, NSW**
PROJECT INFORMATION AND PROPOSED ASSESSMENT METHODOLOGY

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Phone: 02 9232 5373
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Yours sincerely,

Zac Thomas
Heritage Administration Assistant

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25 Bligh Street
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31 July 2020

Stephen Fields
Dhinawan Culture & Heritage Pty Ltd
dhinawan.ch@gmail.com

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Heritage Administration Assistant

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31 July 2020

CEO
Deerubbin Local Aboriginal Land Council
srandall@deerubbin.org.au; staff@deerubbin.org.au

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31 July 2020

Paul Boyd & Lilly Carroll
Didge Ngunawal Clan
didgengunawalclan@yahoo.com.au

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31 July 2020

Clive Freeman
Freeman & Marx
clive.freeman@y7mail.com

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31 July 2020

Phil Khan
Kamilaroi Yankuntjatjara Working Group
philipkhan.acn@live.com.au

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p 02 9232 5373
f 02 9223 0680

31 July 2020

Ryan Johnson
Murra Bidgee Mullangari Aboriginal Corporation
murrabidgeemullangari@yahoo.com.au

Dear Sir/Madam,

RE. **STAGE 3 FACILITIES SYDNEY BUSINESS PARK – MARSDEN PARK, NSW**
PROJECT INFORMATION AND PROPOSED ASSESSMENT METHODOLOGY

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31 July 2020

Shaun Carroll
Merrigarn
Merrigarn@hotmail.com

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31 July 2020

Jesse Johnson
Muragadi Heritage Indigenous Corporation
muragadi@yahoo.com.au

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31 July 2020

Scott Franks
Tocomwall
PO Box 76
Caringbah NSW 1495

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31 July 2020

Rodney Gunther
Waawaar Awaaa Aboriginal Corporation
waawaar.awaa@gmail.com

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Phil Boney
Wailwan Aboriginal Group
waarlan12@outlook.com

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Heritage Administration Assistant

Kelleher Nightingale Consulting Pty Ltd

Level 10
25 Bligh Street
Sydney NSW 2000
p 02 9232 5373
f 02 9223 0680

31 July 2020

Aaron Slater
Warragil Cultural Services
warragil_c.s@hotmail.com

Dear Sir/Madam,

RE. **STAGE 3 FACILITIES SYDNEY BUSINESS PARK – MARSDEN PARK, NSW**
PROJECT INFORMATION AND PROPOSED ASSESSMENT METHODOLOGY

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Please ensure your response is received by 28 August 2020.

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31 July 2020

Steven Hickey
Widescope Indigenous Group
widescope.group@live.com

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Wurrumay Pty Ltd
wurrumay@hotmail.com

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31 July 2020

Arika Jalomaki
Yulay Cultural Services
yulayculturalservices@gmail.com

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31 July 2020

Bo Field
Yurrandaali Pty Ltd
yurrandaali_cs@hotmail.com

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31 August 2020

Carolyn Hickey
A1 Indigenous Services
cazadirect@live.com

Dear Sir/Madam,

RE: STAGE 3 FACILITIES SYDNEY BUSINESS PARK – MARSDEN PARK, NSW
Draft Aboriginal Cultural Heritage Assessment Report

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Z. Thomas

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Attach: (1) Draft CHAR

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Amanda DeZwart
amandahickey@live.com.au

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Lowanna Gibson
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butuheritage@gmail.com

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Email: zac.thomas@knconsult.com.au

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Yours sincerely,

Z. Thomas

Zac Thomas

Attach: (1) Draft CHAR

Kelleher
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ABN 26 120 187 671 ACN 120 187 671

Level 10
25 Bligh Street
Sydney NSW 2000
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f 02 9223 0680

31 August 2020

Lee Field
Barraby Cultural Services
barrabyculturalservices@gmail.com

Dear Sir/Madam,

RE: STAGE 3 FACILITIES SYDNEY BUSINESS PARK – MARSDEN PARK, NSW
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31 August 2020

Justine Coplin
Darug Custodian Aboriginal Corporation
justinecoplin@optusnet.com.au

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Stephen Fields
Dhinawan Culture & Heritage Pty Ltd
dhinawan.ch@gmail.com

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31 August 2020

CEO
Deerubbin Local Aboriginal Land Council
srandall@deerubbin.org.au; staff@deerubbin.org.au

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Paul Boyd & Lilly Carroll
Didge Ngunawal Clan
didgengunawalclan@yahoo.com.au

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Clive Freeman
Freeman & Marx
clive.freeman@y7mail.com

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Phil Khan
Kamilaroi Yankuntjatjara Working Group
philipkhan.acn@live.com.au

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Ryan Johnson
Murra Bidgee Mullangari Aboriginal Corporation
murrabidgeemullangari@yahoo.com.au

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Shaun Carroll
Merrigarn
Merrigarn@hotmail.com

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31 August 2020

Jesse Johnson
Muragadi Heritage Indigenous Corporation
muragadi@yahoo.com.au

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Scott Franks
Tocomwall
PO Box 76
Caringbah NSW 1495

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Rodney Gunther
Waawaar Awaaa Aboriginal Corporation
waawaar.awaa@gmail.com

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Phil Boney
Wailwan Aboriginal Group
waarlan12@outlook.com

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Aaron Slater
Warragil Cultural Services
warragil_c.s@hotmail.com

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Steven Hickey
Widescope Indigenous Group
widescope.group@live.com

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Vicky Slater
Wurrumay Pty Ltd
wurrumay@hotmail.com

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Arika Jalomaki
Yulay Cultural Services
yulayculturalservices@gmail.com

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25 Bligh Street
Sydney NSW 2000
p 02 9232 5373
f 02 9223 0680

31 August 2020

Bo Field
Yurrandaali Pty Ltd
yurrandaali_cs@hotmail.com

Dear Sir/Madam,

RE: STAGE 3 FACILITIES SYDNEY BUSINESS PARK – MARSDEN PARK, NSW
Draft Aboriginal Cultural Heritage Assessment Report

Thank you for your contributions and involvement in this project to date. Please find attached a draft cultural heritage assessment report (CHAR) for the proposed 'Stage 3' of Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW, for your review.

As a registered Aboriginal stakeholder you are invited to review and provide comment on the cultural heritage assessment report. If you have information on the cultural heritage values and significance of the study area and would like this information included in the assessment, we would welcome your contribution.

The project is State Significant Development (SSD-10477) and subject to approval under Part 5.1 of the *Environmental Planning and Assessment Act 1979* (EP&A Act). Department of Planning, Industry and Environment approval would be required prior to any harm to Aboriginal objects.

Please forward any information you would like to include in the cultural heritage assessment report or any comments by **28 September 2020** to:

Zac Thomas
Kelleher Nightingale Consulting Pty Ltd
Level 10, 25 Bligh Street, Sydney NSW 2000
Phone: 02 9232 5373
Email: zac.thomas@knconsult.com.au

If you have any questions or require further information, please don't hesitate to contact the office on 02 9232 5373.

We appreciate your involvement in the project to date and look forward to working with you again on this and future projects.

Yours sincerely,

Z. Thomas

Zac Thomas

Attach: (1) Draft CHAR

APPENDIX B

Zac Thomas

From: justinecoplin@optusnet.com.au
Sent: Monday, 18 January 2021 2:59 PM
To: Zac Thomas
Subject: Marsden Park Industrial Precinct in Western Sydney, NSW
Attachments: Marsden Park Industrial Precinct in Western Sydney, NSW.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

DARUG CUSTODIAN
ABORIGINAL CORPORATION

DARUG CUSTODIAN
ABORIGINAL
CORPORATION

PO BOX 81 WINDSOR 2756
PHONE: 0245775181 FAX: 0245775098
MOBILE: 0415770163 Leanne Watson
0414962766 Justine Coplin
EMAIL: mulgokiwi@bigpond.com / justinecoplin@optusnet.com.au

Attention: **Date:**

Subject

Dear

Our group is a non- profit organisation that has been active for over forty years in Western Sydney, we are a Darug community group with over three hundred members. The main aim in our constitution is the care of Darug sites, places, wildlife and to promote our culture and provide education on the Darug history.

Our group promotes Darug Culture and works on numerous projects that are culturally based as a proud and diverse group. It has been discussed by our group and with many consultants and researches that our history is generic and is usually from an early colonists perspective or solely based on archaeology and sites. These histories are adequate but they lack the people's stories and parts of important events and connections of the Darug people and also other Aboriginal people that now call this area home and have done so for numerous generations.

This area is significant to the Darug people due to the evidence of continued occupation, within close proximity to this project site there is a complex of significant sites.

Landscapes and landforms are significant to us for the information that they hold and the connection to Darug people. Aboriginal people (Darug) had a complex lifestyle that was

based on respect and belonging to the land, all aspects of life and survival did not impact on the land but helped to care for and conserve land and the sustenance that the land provided. As Darug people moved through the land there were no impacts left, although there was evidence of movement and lifestyle, the people moved through areas with knowledge of their areas

and followed signs that were left in the landscape. Darug people knew which areas were not to be entered and respected the areas that were sacred.

Knowledge of culture, lifestyle and lore have been part of Darug people's lives for thousands of years, this was passed down to the next generations and this started with birth and continued for a lifetime. Darug people spent a lifetime learning and as people grew older they passed through stages of knowledge, elders became elders with the learning of stages of knowledge not by their age, being an elder is part of the kinship system this was a very complicated system based on respect.

Darug sites are all connected, our country has a complex of sites that hold our heritage and past history, evidence of the Darug lifestyle and occupation are all across our country, due to the rapid development of Sydney many of our sites have been destroyed, our sites are thousands of years old and within the short period of time that Australia has been developed pre contact our sites have disappeared.

The *Aboriginal cultural heritage consultation requirements for proponents* Section 4.1.8 refers to "Aboriginal organisations representing Aboriginal people who hold cultural knowledge". Recent consultation meetings have revealed that many of these Aboriginal organisations and individuals do not hold cultural knowledge of the Western Sydney area. The increasing involvement of such parties in cultural heritage management means that genuine local Aboriginal organisations are unable to properly care for our cultural heritage.

Many Aboriginal organisations listed in the OEH response letter do not contribute to the Aboriginal community of Western Sydney. Individuals listed in the OEH response letter do not represent the community and while they may be consulted with, should not be employed for their own personal financial benefit.

Our organisation is committed to providing benefits back to our local Aboriginal community through such measures as funding the local Aboriginal juniors' touch football team, painting classes for the local children and donating money to various charities. Employment in cultural heritage activities is source of income that organisations such as ours can use to contribute to beneficial activities and support within the community.

Darug custodian Aboriginal Corporation's site officers have knowledge of Darug land, Darug Culture,Oral histories, landforms, sites, Darug history, wildlife, flora and legislative

requirements. We have worked with consultants and developers for many years in Western Sydney (Darug Land) for conservation, site works, developments and interpretation/education strategie

Darug Custodian Aboriginal Corporation have received and reviewed the report for Marsden Park Industrial Precinct in Western Sydney, NSW

Darug Custodians do not support the survey recommendation as there was no traditional owners invited to the survey.

It is disappointing that after all the years we have been working with KNC that KNC chooses to go along the lines of only having Land Council out on surveys and exclude the traditional owners to go out on country and have their say.

Please contact us with all further enquiries on the above contacts.

Regards

Justine Coplin

Zac Thomas

From: Stephen Fields <dhinawan.ch@gmail.com>
Sent: Wednesday, 6 January 2021 9:29 AM
To: Zac Thomas
Subject: Re: Aboriginal Cultural Heritage Management Plan - 1947 Sydney Business Park Stage 3, Marsden Park - DCH

Hi Zac,

Hope you and your family had safe and happy holidays.

We have just finished reviewing the ACHP for the proposed 'Stage 3' of Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW.

We support the measures outlined in the ACHP for the overall management of Aboriginal cultural heritage in and around the proposed development area.

Regards,

Stephen Fields
Dhinawan Culture and Heritage Pty Ltd
0411232285

On Wed, 23 Dec 2020 at 11:16, Zac Thomas <zac.thomas@knconsult.com.au> wrote:

> Dear registered Aboriginal stakeholder,
>
> Please find attached a cover letter and a copy of the draft Aboriginal cultural heritage management plan (ACHMP) for the proposed 'Stage 3' of Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW.
>
> As a registered Aboriginal stakeholder for this project you are invited to review and provide comment on the attached ACHMP. The ACHMP is designed to provide guidance on the management of Aboriginal cultural heritage during development of Stage 3 Sydney Business Park.
>
> Please forward any comments to myself or the office by **19 January 2021**. Thank you and we look forward to receiving your comments.
>
> Kind regards,
>
> **Zac Thomas**

Heritage Administration Assistant

Kelleher Nightingale Consulting Pty Ltd

Level 10, 25 Bligh St

Sydney NSW 2000

p 02 9232 5373

Zac Thomas

From: Darleen Johnson <murrabidgeemullangari@yahoo.com.au>
Sent: Thursday, 14 January 2021 11:27 AM
To: Zac Thomas
Subject: Re: Aboriginal Cultural Heritage Management Plan - 1947 Sydney Business Park Stage 3, Marsden Park - MBMAC

Hi Zac,
I have read the project information and ACHMP for the above project, I endorse the recommendations made.
Kind regards
Ryan Johnson
0475565517

On Wednesday, 23 December 2020, 11:20:15 am AEDT, Zac Thomas <zac.thomas@knconsult.com.au> wrote:

Dear registered Aboriginal stakeholder,

Please find attached a cover letter and a copy of the draft Aboriginal cultural heritage management plan (ACHMP) for the proposed 'Stage 3' of Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW.

As a registered Aboriginal stakeholder for this project you are invited to review and provide comment on the attached ACHMP. The ACHMP is designed to provide guidance on the management of Aboriginal cultural heritage during development of Stage 3 Sydney Business Park.

Please forward any comments to myself or the office by **19 January 2021**. Thank you and we look forward to receiving your comments.

Kind regards,

Zac Thomas

Heritage Administration Assistant

Kelleher Nightingale Consulting Pty Ltd

Level 10, 25 Bligh St

Sydney NSW 2000

p 02 9232 5373

Zac Thomas

From: jesse johnson <muragadi@yahoo.com.au>
Sent: Thursday, 7 January 2021 10:36 AM
To: Zac Thomas
Subject: Re: Aboriginal Cultural Heritage Management Plan - 1947 Sydney Business Park Stage 3, Marsden Park - MHIC

Hi Zac
I have read the project information for the above project, I agree with the recommendations made.
Kind regards
Jesse Johnson

On 23 Dec 2020, at 10:21 am, Zac Thomas <zac.thomas@knconsult.com.au> wrote:

Dear registered Aboriginal stakeholder,

Please find attached a cover letter and a copy of the draft Aboriginal cultural heritage management plan (ACHMP) for the proposed 'Stage 3' of Sydney Business Park, within the Marsden Park Industrial Precinct in Western Sydney, NSW.

As a registered Aboriginal stakeholder for this project you are invited to review and provide comment on the attached ACHMP. The ACHMP is designed to provide guidance on the management of Aboriginal cultural heritage during development of Stage 3 Sydney Business Park.

Please forward any comments to myself or the office by **19 January 2021**. Thank you and we look forward to receiving your comments.

Kind regards,

Zac Thomas
Heritage Administration Assistant
Kelleher Nightingale Consulting Pty Ltd
Level 10, 25 Bligh St
Sydney NSW 2000
p 02 9232 5373

<ACHMP_Dec20_Draft 1.pdf>
<ACHMP_MHIC_231220.pdf>

Zac Thomas

From: Scott Franks <scott@tocomwall.com.au>
Sent: Monday, 18 January 2021 4:37 PM
To: Zac Thomas; Danny Franks
Subject: stage 3 Facilities Business park- Masrdan park

Follow Up Flag: Follow up
Flag Status: Flagged

Dear Zac,

Tocomwall is registering our interest in stage 3 Facilities Business park- Marsdan park NSW.

Regards
Scott Franks

Native Title & Environmental Services Consultant

Tocomwall Pty Ltd
PO Box 76
CARINGBAH NSW 1495
m: 0404 171544
e: scott@tocomwall.com.au
www.tocomwall.com.au

Douglas Partners
Geotechnics / Environment / Groundwater

Douglas Partners Pty Ltd
ABN 75 053 980 117
www.douglaspartners.com.au
18 Waler Crescent
Smeaton Grange NSW 2567
Phone (02) 4647 0075

Marsden Park Developments Pty Ltd
920 Richmond Road
MARSDEN PARK NSW 2765

Project 94569.13
30 September 2022
R.001.Rev0
RWG

Attention: Mr Sam Franklin

Email: Sam.Franklin@sydneybusinesspark.com.au

Unexpected Finds Protocol
Proposed Industrial Development
Warehouse 2, Stage 3, Sydney Business Park, Marsden Park, NSW

1. Introduction

Douglas Partners Pty Ltd (DP) was commissioned by Marsden Park Developments Pty Ltd to prepare this Unexpected Finds Protocol (UFP) for the development of Warehouse 2 within Stage 3 of Sydney Business Park, Marsden Park, NSW (the site). The purpose of the UFP is to provide a formal contingency checklist to be followed in the event of an unexpected find with respect to potential site contamination issues encountered during bulk earthworks.

DP understands that the site is to be developed for commercial/industrial land use under Stage Significant Development Application (SSD) – 10477.

2. Unexpected Finds Protocol

If unexpected conditions with respect to contamination are encountered by the Contractor during the earthworks (such as fragments of suspected ACM, buried structures or unexpected contaminated soil or contaminants), the following general approach should be adopted:

- Upon discovery of an unexpected find (UF), works should cease in that area, the Contractor's Site Manager should be notified and the affected area closed off by the use of barrier tape;
- The location of the UF should be surveyed using dGPS with sub-metre accuracy;
- The Site Manager is to contact the Principal's Representative (PR), and the PR is to notify the Environmental Consultant;
- The Environmental Consultant will inspect the area and make an assessment of the significance of the find in terms of the potential impact to human health and the environment with reference to NSW EPA endorsed guidelines including NEPC (2013);
- Provision of advice from the Environmental Consultant to the PR regarding the recommended course of action;
- The Environmental Consultant will prepare a report detailing their assessment, including the extent and methods of remediation, as required;

- The assessment results together with a suitable management plan shall be provided by the PR to the Planning Secretary (as required in Clause B45 of SSD-10477) prior to the removal or treatment of such contamination;
- The agreed management/remedial strategy shall be implemented; and
- Details of the incident are to be recorded in the site record system.

In the event that the UF relates to the identification of asbestos, the following protocol will also apply:

- Upon discovery of suspected asbestos, the Site Manager should be notified and the affected area closed off by the use of barrier tape and warning signs. Warning signs shall be specific to Asbestos Hazards and shall comply with the Australian Standard 1319-1994 *Safety Signs for the Occupational Environment*;
- The location of the UF should be surveyed using dGPS with sub-metre accuracy;
- The Site Manager is to contact the Principal's Representative (PR), and the PR is to notify an appropriately qualified Environmental Consultant or Occupational Hygienist;
- The Environmental Consultant or Occupational Hygienist is to confirm the presence of asbestos and assess the extent of remediation works to be undertaken. An assessment report detailing this information will be compiled by the Environmental Consultant or Occupational Hygienist and provided to the PR;
- The Environmental Consultant or Occupational Hygienist should prepare a report detailing their assessment including the extent and methods of management / remediation, as required;
- The assessment results, together with a suitable management plan, shall be provided by the PR to the Planning Secretary (as required in Clause B45 of SSD-10477) prior to the removal or treatment of the asbestos;
- The agreed management/remedial strategy shall be implemented;
- In dry and windy conditions, any stockpiles or other areas of the site found to contain asbestos should be lightly wetted and covered with plastic sheeting whilst awaiting remediation / disposal;
- All work associated with asbestos in soil will be undertaken by an appropriately licenced contractor.
- Monitoring for airborne asbestos fibres is to be carried out during the soil excavation and remediation (if undertaken);
- Documentary evidence (weighbridge dockets) of correct disposal is to be provided to the contractors construction manager;
- At the completion of the excavation, a clearance inspection is to be carried out and written confirmation is to be provided by the Environmental Consultant or Occupational Hygienist that the area is safe to be accessed and worked. Validation should include appropriate soil sampling and testing; and
- Details of the UF and the remedy employed should be recorded in the site record system.

A form to be completed by the Contractor's Site Manager is attached and should be completed and sent to the PR and Environmental Consultant, or Occupational Hygienist, in the event of encountering a UF.

Please contact the undersigned if you have any questions on this matter.

Yours faithfully
Douglas Partners Pty Ltd

Rod Gray
Senior Associate

Attachments: Unexpected Find Form

Limitations

Douglas Partners Pty Ltd (DP) has prepared this report for Stage 3 of the Sydney Business Park, Marsden Park, NSW. The report is provided for the exclusive use of Marsden Park Developments Pty Ltd for this project only and for the purpose(s) described in the report. It should not be used by or relied upon for other projects or purposes on the same or other site or by a third party. Any party so relying upon this report beyond its exclusive use and purpose as stated above, and without the express written consent of DP, does so entirely at its own risk and without recourse to DP for any loss or damage. In preparing this report DP has necessarily relied upon information provided by the client and/or their agents.

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

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

Unexpected Find Form

Unexpected Find No. _____

Date _____

Location _____

Actions

Item	Action Taken	Action Taken By
Unexpected find encountered	Affected area closed off by barrier tape	Contractor
	Notify the Principal's Representative	Site Manager
	Notify Environmental Consultant / Occupational Hygienist	Principal's Representative

Information for the Environmental Consultant to be completed by the Contractor's Site Manager

Description of the Unexpected Find	
Does the Unexpected Find potentially involve asbestos	Yes No

WASTE MANAGEMENT PLAN FOR SYDNEY BUSINESS PARK STAGE 3 FACILITIES
ASTORIA STREET & HOLLINSWORTH ROAD, MARSDEN PARK, NSW

CONSTRUCTION PHASE – 18-24 MONTHS

MATERIALS ON SITE		TREATMENT / REUSE / RECYCLING		DISPOSAL
Type of material	**Description**	**ONSITE**	**OFFSITE**	
Excavation material	Topsoil and soil (~16,920^3 export)	Stockpile and re-use on site as fill if possible. Stockpiles to be placed clear of drainage lines, and protected to avoid sediment run-off, as per Erosion and Sediment Control Plan.	Excess to be classified in accordance with EPA's *Waste Classification Guidelines (2014)* for re-use off-site (within Sydney Business Park). Any import fill to comprise virgin excavated natural material or excavated natural material classified in accordance with the *Waste Classification Guidelines.*	None. Beneficial reuse excess fill within Sydney Business Park.
Green Waste	Vegetation (~2,000m^3)	Mulch on site and reuse in site landscaping where practicable.	Excess vegetation to be transported to green waste recycling centre, for offsite mulching and reuse.	Dispose to green waste recycling centre.
Concrete – construction wastes	Surplus pours	Ensure that quantities are correctly estimated prior to pour. Use pre-cast concrete as far as practicable. Crush and use any surplus as fill where possible.	Concrete waste to be separated and collected by concrete recycling contractor	Dispose any surplus to concrete crushing facility for recycling.
Bitumen	Surplus from road/carpark making	Ensure that quantities are correctly estimated prior to use.	Any bitumen waste to be separated and returned to road builder	Dispose any surplus to supplier for recycling.
Masonry	Demolition waste and construction surplus (~150m^3)	Ensure that quantities are correctly estimated. Crush and use any surplus as fill where possible.	Reusable masonry to be returned to supplier. All broken masonry/bricks to be separated and transported to concrete crushing facility for recycling.	Dispose any surplus to concrete crushing facility for recycling.
Plasterboard	Offices – off-cuts (~200m^2)	Nil	Recyclable plasterboard to be separated and collected for recycling by recycling contractor.	Dispose remainder to licensed waste disposal facility.
Timber – specify	Demolition waste and cabinetry off-cuts (~150m^3)		Recyclable timber to be separated and collected for recycling by recycling contractor.	Any non-recyclable timber.
Metals – Specify	Demolition waste, fit out off-cuts, wiring off-cuts (~100m^3)		Recyclable metal to be separated and collected for recycling by recycling contractor.	Nil

WASTE MANAGEMENT PLAN FOR SYDNEY BUSINESS PARK STAGE 3 FACILITIES
ASTORIA STREET & HOLLINSWORTH ROAD, MARSDEN PARK, NSW

MATERIALS ON SITE		TREATMENT / REUSE / RECYCLING		DISPOSAL
Type of material	**Description**	**ONSITE**	**OFFSITE**	
Liquids	Washdown waste (no significant other liquid waste expected)	Ensure all washdown waste appropriately collected and/or treated, with no discharge to the stormwater or external environment. Any on-site storage of hazardous materials and dangerous goods to comply with Dangerous Goods Code and *AS 1940-2004: The storage and handling of flammable and combustible liquids*	Recyclable liquids to be separated and collected for recycling by recycling contractor.	Dispose any potentially hazardous liquid waste to licensed waste disposal facility.
Hazardous materials – Asbestos cement sheeting	Demolition waste (if discovered, none expected)	Demolition to be undertaken by WorkCover-licensed asbestos removal contractor (if required) and in accordance with the *Code of Practice for Safe Removal of Asbestos [NOHSC:2002 (2005)]*		Asbestos waste to be disposed by licensed asbestos removal contractor to appropriately licenced landfill in accordance with the *Protection of the Environment Operations (Waste) Regulation 2005*.
Other – General Waste during Construction phase	(~300m^3)	All waste streams to be separated and recycled as far as possible.		Dispose non-recyclable material to licensed waste disposal facility.
Ablutions	Construction workers sewage	Temporary portaloo facilities to be provided and maintained by appropriately licenced waste contractor		Ablutions waste to be disposed by licenced sewage waste contractor to appropriately licenced sewerage facility.

WASTE MANAGEMENT PLAN FOR SYDNEY BUSINESS PARK STAGE 3 FACILITIES
ASTORIA STREET & HOLLINSWORTH ROAD, MARSDEN PARK, NSW

OPERATION PHASE – ONGOING USE OF PREMISES (WAREHOUSE 1 – TJX FACILITY)

TYPE OF WASTE TO BE GENERATED	PROPOSED ON SITE STORAGE AND TREATMENT FACILITIES	DESTINATION
Cardboard packaging / Office paper (200L/day, 1,400L/wk)	Paper and Cardboard to be separated for recycling at source. Paper and Cardboard to be reused where possible, or compacted for recycling. Estimated waste bin required – 1 x 770L mobile bin	Recycling contractor for recycling.
Plastic packaging (200L/day, 1,400L/wk)	Bale up on-site. Storage in waste storage and recycling area(s). Estimated waste bin required – 1 x 770L mobile bin	Recycling contractor for recycling. Non-recyclable plastics to be disposed as general waste.
Pallets	Stored on site in designated areas suitably screened from public areas.	Supplier for re-use, or recycled (where broken and where possible)
Waste/reject product, bulky waste (50L/day, 350L/wk)	Storage in waste storage and recycling area(s) or in warehouse racks.	Returned to supplier, recycled (where possible), or disposed to licensed facility).
Recyclable glass, aluminium and plastic containers (100L/day, 700L/wk)	To be separated at source as far as practicable for recycling by recycling contractor. Estimated waste bin required – 1 x 360L mobile bin	Recycling contractor for recycling.
Used Toner Cartridges (5/month)	To be stored on site for collection by toner supplier.	Toner supplier for recycling.
General waste (200L/day, 1,400L/wk)	To be stored inside warehouse or suitably screened from public areas. Estimated waste bin required – 1 x 770L mobile bin	Disposed by licenced waste contractor to licenced waste disposal facility.
Hazardous solid and liquid waste (inc. any dangerous goods) (<10L/wk)	To be separated and stored inside warehouse in specially marked containers/bins.	Disposed by licenced waste contractor to waste disposal facility licenced to accept hazardous waste.
Ablutions waste	To sewerage system.	Sewerage system.

Waste storage and recycling receptacles to be located nearby all generation sources. Waste storage and recycling bins to be clearly labelled.

Main waste storage area to be located within the warehouse or in a fully screened area that is not visible from the public domain. Bins sizes to be confirmed with waste services contractor and will depend on the number of collections per week and actual generation rates (estimated mix in table above).

Bins to collected directly from the main waste storage area, and promptly returned to the screened waste area upon collection.

The facility manager or representative would be responsible for:

- maintaining the waste storage and recycling areas;
- ensuring bins are emptied and collected as required;
- placement of bins for servicing;
- cleaning the bins and waste rooms;
- management of any bulky waste generated on site (including storage in the warehouse racking areas);
- management of illegal dumping on site;
- ensuring that no contamination of waste streams is occurring; and
- collection of litter in external and internal areas.

WASTE MANAGEMENT PLAN FOR SYDNEY BUSINESS PARK STAGE 3 FACILITIES
ASTORIA STREET & HOLLINSWORTH ROAD, MARSDEN PARK, NSW

OPERATION PHASE – ONGOING USE OF PREMISES (WAREHOUSE 2)

TYPE OF WASTE TO BE GENERATED	PROPOSED ON SITE STORAGE AND TREATMENT FACILITIES	DESTINATION
Cardboard packaging / Office paper (150L/day, 1,000L/wk)	Paper and Cardboard to be separated for recycling at source. Paper and Cardboard to be reused where possible, or compacted for recycling. Estimated waste bin required – 1 x 770L mobile bin	Recycling contractor for recycling.
Plastic packaging (100L/day, 700L/wk)	Bale up on-site. Storage in waste storage and recycling area(s). Estimated waste bin required – 1 x 770L mobile bin	Recycling contractor for recycling. Non-recyclable plastics to be disposed as general waste.
Pallets	Stored on site in designated areas suitably screened from public areas.	Supplier for re-use, or recycled (where broken and where possible)
Waste/reject product, bulky waste (25/day, 175L/wk)	Storage in waste storage and recycling area(s) or in warehouse racks.	Returned to supplier, recycled (where possible), or disposed to licensed facility).
Recyclable glass, aluminium and plastic containers (50L/day, 350L/wk)	To be separated at source as far as practicable for recycling by recycling contractor. Estimated waste bin required – 1 x 360L mobile bin	Recycling contractor for recycling.
Used Toner Cartridges (5/month)	To be stored on site for collection by toner supplier.	Toner supplier for recycling.
General waste (150/day, 1,000L/wk)	To be stored inside warehouse or suitably screened from public areas. Estimated waste bin required – 1 x 770L mobile bin	Disposed by licenced waste contractor to licenced waste disposal facility.
Hazardous solid and liquid waste (inc. any dangerous goods) (<10L/wk)	To be separated and stored inside warehouse in specially marked containers/bins.	Disposed by licenced waste contractor to waste disposal facility licenced to accept hazardous waste.
Ablutions waste	To sewerage system.	Sewerage system.

Waste storage and recycling receptacles to be located nearby all generation sources. Waste storage and recycling bins to be clearly labelled.

Main waste storage area to be located within the warehouse or in a fully screened area that is not visible from the public domain. Bins sizes to be confirmed with waste services contractor and will depend on the number of collections per week and actual generation rates (estimated mix in table above).

Bins to collected directly from the main waste storage area, and promptly returned to the screened waste area upon collection.

The facility manager or representative would be responsible for:

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- placement of bins for servicing;
- cleaning the bins and waste rooms;
- management of any bulky waste generated on site (including storage in the warehouse racking areas);
- management of illegal dumping on site;
- ensuring that no contamination of waste streams is occurring; and
- collection of litter in external and internal areas.

WASTE MANAGEMENT PLAN FOR SYDNEY BUSINESS PARK STAGE 3 FACILITIES
ASTORIA STREET & HOLLINSWORTH ROAD, MARSDEN PARK, NSW

OPERATION PHASE – ONGOING USE OF PREMISES (WAREHOUSE 3)

TYPE OF WASTE TO BE GENERATED	PROPOSED ON SITE STORAGE AND TREATMENT FACILITIES	DESTINATION
Cardboard packaging / Office paper (100L/day, 700L/wk)	Paper and Cardboard to be separated for recycling at source. Paper and Cardboard to be reused where possible, or compacted for recycling. Estimated waste bin required – 1 x 660L mobile bin	Recycling contractor for recycling.
Plastic packaging (100L/day, 700L/wk)	Bale up on-site. Storage in waste storage and recycling area(s). Estimated waste bin required – 1 x 660L mobile bin	Recycling contractor for recycling. Non-recyclable plastics to be disposed as general waste.
Pallets	Stored on site in designated areas suitably screened from public areas.	Supplier for re-use, or recycled (where broken and where possible)
Waste/reject product, bulky waste (20L/day, 140L/wk)	Storage in waste storage and recycling area(s) or in warehouse racks.	Returned to supplier, recycled (where possible), or disposed to licensed facility).
Recyclable glass, aluminium and plastic containers (50L/day, 350L/wk)	To be separated at source as far as practicable for recycling by recycling contractor. Estimated waste bin required – 1 x 360L mobile bin	Recycling contractor for recycling.
Used Toner Cartridges (5/month)	To be stored on site for collection by toner supplier.	Toner supplier for recycling.
General waste (100L/day, 700L/wk)	To be stored inside warehouse or suitably screened from public areas. Estimated waste bin required – 1 x 660L mobile bin	Disposed by licenced waste contractor to licenced waste disposal facility.
Hazardous solid and liquid waste (inc. any dangerous goods) (<10L/wk)	To be separated and stored inside warehouse in specially marked containers/bins.	Disposed by licenced waste contractor to waste disposal facility licenced to accept hazardous waste.
Ablutions waste	To sewerage system.	Sewerage system.

Waste storage and recycling receptacles to be located nearby all generation sources. Waste storage and recycling bins to be clearly labelled.

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- ensuring bins are emptied and collected as required;
- placement of bins for servicing;
- cleaning the bins and waste rooms;
- management of any bulky waste generated on site (including storage in the warehouse racking areas);
- management of illegal dumping on site;
- ensuring that no contamination of waste streams is occurring; and
- collection of litter in external and internal areas.

WASTE MANAGEMENT PLAN FOR SYDNEY BUSINESS PARK STAGE 3 FACILITIES
ASTORIA STREET & HOLLINSWORTH ROAD, MARSDEN PARK, NSW

OPERATION PHASE – ONGOING USE OF PREMISES (WAREHOUSE 4 – API FACILITY)

TYPE OF WASTE TO BE GENERATED	PROPOSED ON SITE STORAGE AND TREATMENT FACILITIES	DESTINATION
Cardboard packaging / Office paper (200L/day, 1,400L/wk)	Paper and Cardboard to be separated for recycling at source. Paper and Cardboard to be reused where possible, or compacted for recycling. Estimated waste bin required – 1 x 770L mobile bin	Recycling contractor for recycling.
Plastic packaging (200L/day, 1,400L/wk)	Bale up on-site. Storage in waste storage and recycling area(s). Estimated waste bin required – 1 x 770L mobile bin	Recycling contractor for recycling. Non-recyclable plastics to be disposed as general waste.
Pallets	Stored on site in designated areas suitably screened from public areas.	Supplier for re-use, or recycled (where broken and where possible)
Waste/reject product, bulky waste (50L/day, 350L/wk)	Storage in waste storage and recycling area(s) or in warehouse racks.	Returned to supplier, recycled (where possible), or disposed to licensed facility. Waste pharmaceutical products to be managed by suitably licenced contractor.
Recyclable glass, aluminium and plastic containers (100L/day, 700L/wk)	To be separated at source as far as practicable for recycling by recycling contractor. Estimated waste bin required – 1 x 360L mobile bin	Recycling contractor for recycling.
Used Toner Cartridges (5/month)	To be stored on site for collection by toner supplier.	Toner supplier for recycling.
General waste (200L/day, 1,400L/wk)	To be stored inside warehouse or suitably screened from public areas. Estimated waste bin required – 1 x 770L mobile bin	Disposed by licenced waste contractor to licenced waste disposal facility.
Hazardous solid and liquid waste (inc. any dangerous goods) (<20L/wk)	To be separated and stored inside warehouse in specially marked containers/bins.	Disposed by licenced waste contractor to waste disposal facility licenced to accept hazardous waste.
Ablutions waste	To sewerage system.	Sewerage system.

Waste storage and recycling receptacles to be located nearby all generation sources. Waste storage and recycling bins to be clearly labelled.

Main waste storage area to be located within the warehouse or in a fully screened area that is not visible from the public domain. Bins sizes to be confirmed with waste services contractor and will depend on the number of collections per week and actual generation rates (estimated mix in table above).

Bins to collected directly from the main waste storage area, and promptly returned to the screened waste area upon collection.

The facility manager or representative would be responsible for:

- maintaining the waste storage and recycling areas;
- ensuring bins are emptied and collected as required;
- placement of bins for servicing;
- cleaning the bins and waste rooms;
- management of any bulky waste generated on site (including storage in the warehouse racking areas);
- management of illegal dumping on site;
- ensuring that no contamination of waste streams is occurring; and
- collection of litter in external and internal areas.

WASTE MANAGEMENT PLAN FOR SYDNEY BUSINESS PARK STAGE 3 FACILITIES
ASTORIA STREET & HOLLINSWORTH ROAD, MARSDEN PARK, NSW

COCO DESIGN
LANDSCAPE

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LANDSCAPE MANAGEMENT PLAN

DEVICE TECHNOLOGIES - SYDNEY BUSINESS PARK
PROPOSED INDUSTRIAL FACILITY
ASTORIA STREET, MARSDEN PARK

LGA
Blacktown City Council

CLIENT
Marsden Park Developments

REVISION & DATE
Revision B
2nd November 2022

1 Background – B46 (a)

1.1 Qualifications

- This Landscape Management Plan has been prepared in response to State Significant Development (SSD-10477) condition B46. The Landscape Management Plan has been prepared by Simon Coco of Coco Design holding the qualification of B.Landscape Architecture and 15 years' experience.

2 Plant Species – B46 (b)

2.1 Plant Schedule

- Refer Appendix A for corresponding landscape documentation

Code	Species Name	Common Name	Height	Size	Quantity	% Mix
	TREES					
AVI	Acronychia vista	Vista	3M	100L	19	As shown
CMA	Corymbia maculata	Spotted Gum	24M	45L	24	As shown
LIN	Lagerstroemia indica 'Natchez'	White Crepe Myrtle	4M	75L	41	As shown
MEX	Magnolia 'Exmouth'	Exmouth	12M	400L	1	As shown
TLL	Tristaniopsis 'Luscious'	Luscious	8M	75L	29	As shown
	PLANTING MIX TYPE 01					
Aam	Acmena 'Alyn Magic'	Alyn Magic	1.5M	200mm	960	30%
Cbj	Callistemon 'Better John'	Better John	0.6M	140mm	1090	30%
llt	Lomandra 'Lime Tuff'	Lime Tuff	1.2M	Tube	1460	40%
	PLANTING MIX TYPE 02					
Ljr	Liriope 'Just Right'	Just Right	0.5M	140mm	1570	50%
tja	Trachelospermum jasminoides	Star Jasmine	0.2M	140mm	1570	50%
	PLANTING MIX TYPE 03					
Cap	Carex appressa	Tall Sedge	1M	Tube	1070	40%
lka	Lomandra 'Katrinus'	Katrinus	1.4M	Tube	805	30%
Wze	Westringia 'Zena'	Zena	0.4M	140mm	805	30%
	PLANTING MIX TYPE 04					
Gss	Grevillea 'Scarlet Sprite'	Scarlet Sprite	1M	200mm	115	20%
Gmo	Grevillea 'Moonlight'	Moonlight	4M	200mm	115	20%
pna	Pennisetum 'Nafray'	Swamp Foxtail Nafray	1.2M	Tube	465	40%
Wfr	Westringia fruticosa	Coastal Rosemary	1.5M	200mm	115	20%
	PLANTING MIX TYPE 05					
Cwa	Callistemon 'White Anzac'	White Anzac	2M	200mm	185	50%
Rsm	Raphiolepis 'Snow Maiden'	Snow Maiden	0.6M	200mm	245	50%
	PLANTING MIX TYPE 06					
Bsp	Banksia spinulosa	Hairpin Banksia	3M	200mm	40	2.5%
Cwa	Callistemon 'White Anzac'	White Anzac	2M	200mm	40	2.5%
Css	Callistemon 'Scarlet Flame'	Scarlet Flame	0.8M	200mm	120	7.5%
Cra	Callistemon 'Red Alert'	Red Alert	2M	200mm	80	5%
Ghg	Grevillea 'Honey Gem'	Honey Gem	3M	200mm	40	2.5%
Gmp	Grevillea 'Misty Pink'	Misty Pink	1M	200mm	80	5%
Gss	Grevillea 'Scarlet Sprite'	Scarlet Sprite	1M	200mm	120	7.5%
Wfr	Westringia fruticosa	Coastal Rosemary	1.5M	200mm	40	2.5%
cap	Carex appressa	Tall Sedge	1M	Tube	785	25%
llo	Lomandra longifolia	Spiny Mat-Rush	1.4M	Tube	630	20%
pal	Pennisetum alopecuroides	Swamp Foxtail	1.6M	Tube	630	20%
	OUTDOOR AREA					
Cze	Calathea zebrina	Zebra Plant	0.8M	200mm	14	As shown
Prj	Philodendron 'Rojo Congo'	Rojo Congo	1.2M	300mm	5	As shown
Rex	Rhapis excelsa	Lady Palm	2M	300mm	6	As shown

3 Street Tree Plan – B46 (c)

3.1 Street Tree Plan

- Refer Appendix B for corresponding landscape documentation

4 Monitoring & Maintenance Plan – B46 (d)

4.1 Scope of Works

- Maintenance applies to all external areas including but not limited to soft landscape (eg: planting, gardens & turf), hard landscape (eg: walls), pavements (eg: concrete paths) & edges (eg: steel edging)
- Maintenance period must be twenty-six (26) weeks from date of practical completion
- The Landscape Contractor is required to maintain all landscape areas to the standard outlined below from the time of installation until Practical Completion & subsequent Final Completion is granted.

4.1.1 Inspections

- The Landscape Contractor must provide the superintendent with five (5) working days advanced written notice of the following inspection points.
  - Practical Completion (PC)
  - Final Completion (FC)

4.2 Monitoring

4.2.1 Requirements

- The Landscape Contractor must provide monthly reports of the landscape works. These reports are to include (but not be limited to)
  - Date & time
  - Weather conditions
  - Chemical and / or fertilisers applied (including application rates)
  - Brief description of works completed
  - Identification of any site issues
  - Provide site improvement / recommendations (if any)

4.3 Maintenance

4.3.1 Requirements

- Mowing & trimming
  - Height: Consistent with the growth habit of the grass variety and maintained at 40 mm – 60 mm throughout the year.
  - Program: Weekly during the mowing season, November to March, and at bi-weekly intervals during April to October. Do not mow under wet conditions.
  - Raking: Once every month before mowing, during the mowing season, with a flexible rake. On alternate mowing's, adopt a north-south and east-west pattern.
  - Edges: At the same time as mowing, trim lawn edges to plant beds, pathways, base of trees and other obstacles. Ensure trees and shrubs are not damaged.

- Topdressing
  - Topdressing material for established lawns: Weed free imported sandy topsoil to a depth of 5 mm. Program: During Spring and following establishment.
  - Topdressing material for remediation of depressions or irregularities: Apply coarse or medium soil to AS 4419, comprising of soil & sand blend as suitable for application to turf or grass seeded areas.

- Planting
  - Planting The general appearance and presentation of the landscape and the quality of plant material at date of practical completion is maintained for the full planting establishment period.

- Plant replacements
  - Replace failed, dead and/or damaged plants at maximum 3-week intervals as necessary throughout the full plant establishment period.

- Pruning
  - Undertake minor pruning to set early development of hedges
  - Do not under prune any tree until end of maintenance period or as approved by the Superintendent of Approved Officer
  - Prune any shoots from tree root stock (eg: Pyrus species immediately when sighted)
  - Prune dead or damaged branches immediately when sighted

- Insect & disease control
  - The Landscape Contractor is responsible for identifying and implementing disease control for all landscape areas until the problem has been eliminated.
  - The Landscape Contractor is to undertake any remediation works (eg chemical spray) outside the time of normal working hours to mitigate exposure to the general public.

- Stakes & ties
  - Generally: If plants are unable to be self-supported or if stakes are damaged, stake then the Landscape Contractor must drive three hardwood stakes placed obliquely with the first stake on the opposite side to the prevailing winds.
  - Removal after inspection by Superintendent of Approved Officer: If plants are robust with well-developed systems and are strong enough to no longer require support, remove stakes and ties.

- Weeding
  - Weeds: Unwanted plants and grasses considered invasive to the locality.
  - Program:
    - Lawns: Quarterly and as determined by the relationship of the general lawn condition and weed growth.
    - Trees and shrubs: As required for planted, paved and mulched areas to be weed free when observed at bi-weekly intervals.
  - Method: Clear and keep clear vigorous ground covers 200 mm from the base of any shrub or tree:
    - Small areas: By hand.
    - Large areas: Proprietary herbicides.
  - Herbicide application: Avoid windy days or if rain is likely to follow within 12 hours and apply:
    - To the manufacturer’s instructions and material data and safety sheets.
    - When the weather is humid with moderate temperatures and maximum sunlight.
    - When the ground has the recommended soil moisture level.

- Fertilising
  - Turf areas
    - Fertilising: Apply lawn fertiliser at the completion of the first and last mowing’s of the plant establishment period, and at other times as required to maintain healthy grass cover.
  - Mass planting areas
    - Soil tests: Take samples from both planting beds and lawn areas and conduct tests.
    - Fertilising: Base the fertilisation program on the soil testing results. Fertilise trees once every two years except where specific problems exist. Generally apply fertiliser at recommended rates in Landscape – Soils work section. Alternatively apply 12-month slow release fertiliser at the manufacturer's recommended rate. Apply all-purpose fertiliser to shrubs annually in two bands and cultivated into the soil 100 mm deep.
    - Season: Fertilise shrubs and trees in September and March according to their seasonal growth requirement.
  - Submit evidence of fertilising to Superintendent or Approved Officer

- Rubbish removal
  - Rubbish: Remove loose rubbish such as bottles, papers, and cigarette butts from the site. Execute this work regularly so that all areas are free from rubbish when observed at bi-weekly intervals.
  - Leaf litter: Remove from all path and lawn areas.
  - Garbage Bins: Empty all garbage bins twice weekly

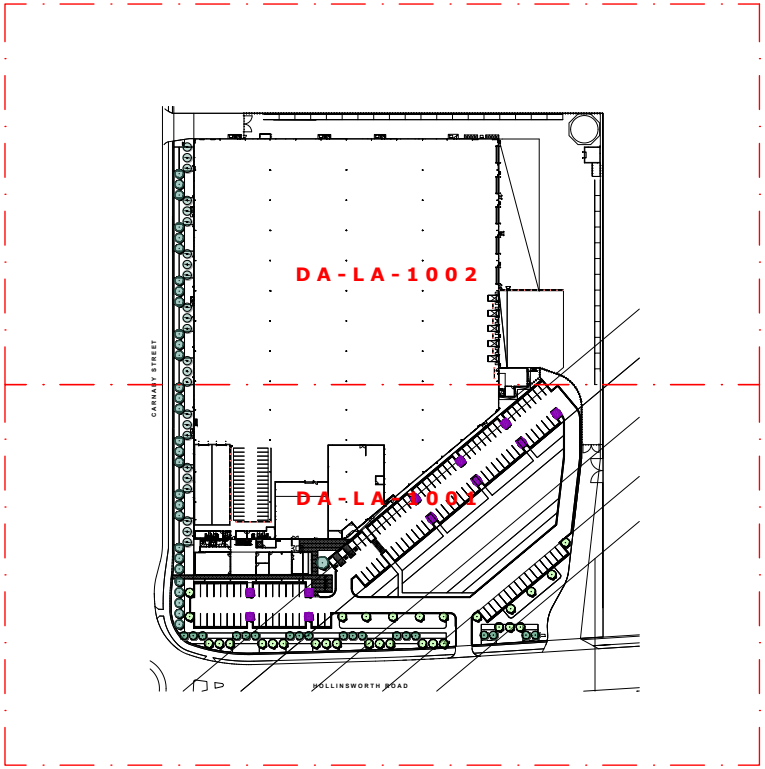
- Mulching
  - Inspection: Bi-weekly to determine mulch requirements.
  - Mulch depth: Maintain 75 mm cover and ensure weed suppression and the quality of finish.
  - Re mulching: Maintain the original ground levels around the base of plants.

- Irrigation System
  - A fully automatic / back-to-base irrigation system has been specified for this project.
  - Design, supply, install and commission a permanent irrigation system
  - Prepare and submit irrigation design documentation and plans for relevant authority and project approval that fully describe the system that is being installed
  - Conform to relevant authority approvals, rules and regulations
  - Supply and installation of all necessary pipes, fittings, equipment, tanks and pumps to provide a separate automatic system for irrigating all individual trees, mass planting and turf areas within the project extent of works

- Establishment Watering
  - If the irrigation system is not fully commissioned at the time of planting, then establishment / hand watering will be required, which will include
  - Minimum three complete waterings soaking to a depth of 150mm (for turf) and 300mm (for mass planting) at weekly intervals for the first 8 weeks of plant establishment irrespective of natural rainfall.
  - Water restrictions: Coordinate the water supply and confirm the watering regime against federal, state and territory government legislation and restrictions at the time.

APPENDIX A
DEVICE TECHNOLOGIES LANDSCAPE DOCUMENTATION

DWG NO.	ISSUE	DRAWING TITLE
DA-LA-0000	B	COVER SHEET
DA-LA-0001	B	LANDSCAPE SPECIFICATION & QUALITY CONTROL
DA-LA-1001	B	LANDSCAPE PLAN
DA-LA-1002	B	LANDSCAPE PLAN
DA-LA-1003	B	DETAILED LANDSCAPE PLAN - OUTDOOR AREA
DA-LA-2001	B	LANDSCAPE DETAILS
DA-LA-2002	B	LANDSCAPE DETAILS



SITE PLAN

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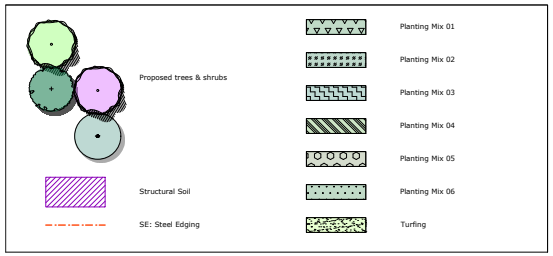

LEGEND

CODE	SPECIES	COMMON NAME	HEIGHT	POT SIZE	QUANTITY
	TREES				
AVI	Acronychia vista	Vista	3M	100L	19
CMA	Corymbia maculata	Spotted Gum	24M	45L	24
LIN	Lagerstroemia indica 'Natchez'	White Crepe Myrtle	4M	75L	41
MEX	Magnolia 'Exmouth'	Exmouth	12M	400L	1
TLL	Tristaniopsis 'Luscious'	Luscious	8M	75L	29
	PLANTING MIX TYPE 01				
Aam	Acmena 'Alyn Magic'	Alyn Magic	1.5M	200mm	960
Cbj	Callistemon 'Better John'	Little John	0.6M	140mm	1090
Ilt	Lomandra 'Lime Tuff'	Lime Tuff	1.2M	tube	1460
	PLANTING MIX TYPE 02				
Ijr	Liriope 'Just Right'	Just Right	0.5M	140mm	1570
tja	Trachelospermum jasminoides	Star Jasmine	0.2M	140mm	1570
	PLANTING MIX TYPE 03				
cap	Carex appressa	Tall Sedge	1M	tube	1070
lka	Lomandra 'Katrinus'	Katrinus	1.4M	tube	805
Wzn	Westringia 'Zena'	Zena	0.4M	140mm	805
	PLANTING MIX TYPE 04				
Gss	Grevillea 'Scarlet Sprite'	Scarlet Sprite	1M	200mm	115
Gmo	Grevillea 'Moonlight'	Moonlight	4M	200mm	115
pna	Pennisetum 'Nafray'	Swamp Foxtail Nafray	1.2M	tube	465
Wfr	Westringia fruticosa	Coastal Rosemary	1.5M	200mm	115
	PLANTING MIX TYPE 05				
Cwa	Callistemon 'White Anzac'	White Anzac	2M	200mm	185
Rsm	Raphiolepis 'Snow Maiden'	Snow Maiden	0.6M	200mm	245
	PLANTING MIX TYPE 06				
Bsp	Banksia spinulosa	Hairpin Banksia	3M	200mm	40
Cwa	Callistemon 'White Anzac'	White Anzac	2M	200mm	40
Csf	Callistemon 'Scarlet Flame'	Scarlet Flame	0.8M	200mm	120
Cra	Callistemon 'Red Alert'	Red Alert	2M	200mm	80
Ghg	Grevilliea 'Honey Gem'	Honey Gem	3M	200mm	40
Gmp	Grevillea 'Misty Pink'	Misty Pink	1M	200mm	80
Gss	Grevillea 'Scarlet Sprite'	Scarlet Sprite	1M	200mm	120
Wfr	Westringia fruticosa	Coastal Rosemary	1.5M	200mm	40
cap	Carex appressa	Tall Sedge	1M	tube	785
lio	Lomandra longifolia	Spiny Mat-Rush	1.4M	tube	630
pal	Pennisetum alopecuroides	Swamp Foxtail	1.6M	tube	630
	OUTDOOR AREA				
Cze	Calathea zebrina	Zebra Plant	0.8M	200mm	14
Prj	Philodendron 'Rojo Congo'	Rojo Congo	1.2M	300mm	5
Rex	Rhapis excelsa	Lady Palm	2M	300mm	6

PLANT SCHEDULE

REVISION	DATE	AMMENDMENT
A	2022-10-24	FOR DEVELOPMENT APPLICATION
B	2022-10-26	DA - AMENDMENT 1

NOTES

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SCALE BAR 1:1000 @ A1

0 8 20 40 60 80m

PROJECT NO 2211

SCALE 1:1000 @ A1

PROJECT TEAM

REID CAMPBELL
COSTIN ROE CONSULTING

CLIENT

MARSDEN PARK DEVELOPMENTS

DRAWING TITLE

COVER SHEET

PROJECT

DEVICE TECHNOLOGIES
SYDNEY BUSINESS PARK

COCO DESIGN LANDSCAPE

DA - LA - 0000

1. All soft landscape areas to be ripped and cultivated up to 200mm depth

2. Imported Soil
   2.1. Soils to conform to AS4419-2003 *Soils for landscaping & garden use*
   2.2. Soil Types & Depths
      2.2.1. Soil Mix Type A (General Mass Planting Areas): Organic Garden Mix or equivalent at 300mm depth
      2.2.2. Soil Mix Type B (Base of Tree Pit): Sandy loam topsoil to base of tree pit as detailed
      2.2.3. Soil Mix Type C (Turf Areas): 80:20 Turf Underlay or equivalent at 100mm depth
      2.1.4. Soil Mix Type D: Lightweight Planter Box Mix (Horizon A) at 300mm depth
      2.1.5. Soil Mix Type E: Lightweight Planter Box Mix (Horizon B) at minimum 450mm depth
      2.1.6. Soil Mix Type F: Smart Mix 3 40mm Structural Soil by Benedicts or equivalent at 450mm depth

3. Mulches to conform to AS4454-2003 Soil Conditioners for landscaping & garden use
   3.1. Mulch Types & Depths
      3.1.1. Mass Planting Areas: 'Forest Fines (4-16mm)' or equivalent up to 75mm depth

4. Turf must be Kikuyu unless otherwise stated

   4.1. Edging
      4.1.1. Steel edge must be constructed between Mass Planting & Turf Areas. Steel edge must be 100x5mm welded to 12x450mm (N12) bar at a maximum interval of 1.2M. Additional supporting bar is required for curved sections of edging

5. Root barrier
   5.1. Place 3M long x 600mm deep root barrier to trees located within 2M of hard surface areas (paving, kerbs, carparks).

6. Planting
   6.1. Plants must be supplied by an approved nursery supplier as nominated by the Superintendent
   6.2. Plants must be true to species or cultivar as per the Landscape Plan & Plant Schedule. No substitutions are allowed unless approved in writing by the Superintendent.
   6.3. Planting holes must be dug to a depth and width that is slightly larger than the width of the plant root ball. Base of planting hole must be loosened to depth of 75mm. Root ball must be backfilled with friable topsoil. Upon completion of the planting operation the base of each stem must finish flush with the surface of the topsoil.
   6.4. A mulch dish must be formed around the base of each plant to aid in water absorption
   6.5. No trees are to be removed, ringbarked, cut, topped or lopper or willfully destroyed (other than those within the proposed building footprint or as shown on approved plans) without the prior consent of Council and in accordance with Council's Tree Preservation Order & Policy

7. Irrigation
   7.1. A certified irrigation contractor must design and install a fully functional automated irrigation system to all areas of planting and turfing, including but not limited to
      7.2.1. Planting and turf areas on grade
      7.2.2. Planting and turf areas on slab or podium
   7.3. The proposed irrigation system must conform to Sydney Water and Council requirements including any water restriction requirements
   7.4. The irrigation contractor is responsible for establishing the number and locations of main lines, laterals, solenoids, filters, drip emitters, spray heads etc required to provide a satisfactory performance of the system.
   7.5. Drip emitters must be spaced at a maximum of 300mm intervals.
   7.6. All new trees are to be provided with double rings over the rootball
   7.7. Sprinker systems (pop up, spray heads etc) must have full coverage from head to head.

8. Landscape maintenance
   8.1. Maintenance period is twenty-six (26) weeks from date of Practical Completion.
      8.1.1. Scope of works includes (but is not limited to) the following: Mowing & Trimming, Topdressing, Plant Replacements, Insect & Disease Control, Reinstatement / Removal of Stakes & Ties, Weeding (hand removal and / or chemical (herbicide), Fertilising, Rubbish Removal, Re-Mulching & Watering (as required)

9. Tree Maintenance
   9.1. Undertake tree maintenance every 6 months
   9.2. Directional pruning
      9.2.1. Undertake direction pruning to branches that show signs of growing into the office, warehouse pathway or driveway. Remove selected branches to branch collars or to a growing point.
   9.3. Crown lifting
      9.3.1. Undertake crown lifting to remove lower branches to provide visibility and adequate clearance from footpaths, paving areas or

LANDSCAPE SPECIFICATION

1. Requirement of regulatory agencies
   1.1. Perform work in accordance with all applicable laws, codes and regulations required by authorities having jurisdiction over such work and provide for all inspections and permits required by Federal, State and Local authorities in furnishing, transporting and installing materials

2. Set Out
   2.1. The Landscape Contractor must check and verify all work on site (including by others) before commencing the landscape installation. Any discrepancies are to be reported to the Landscape Architect prior to commencement of work.
   2.2. Should proposed tree locations have the potential to interfere with existing or proposed utilities / services then the Landscape Contractor must advise the Landscape Architect and await instruction prior to proceeding

3. Dimensions
   3.1. Written dimensions take precedence over scaled dimensions. All dimensions and levels must be verified by the Landscape Contractor. The Landscape Contractor must obtain written approval from the Landscape Architect of initial set out prior to commencement of work. If in doubt, contact the Landscape Architect. Any discrepancies must be reported to the Landscape Architect

4. Samples
   4.1. The Landscape Contractor must provide material samples of all items intended to be used within the project scope of works. The material samples must include
      4.1.1. Product information
         Material data sheet
         Photo of material (upon request of Landscape Architect)
         Physical sample (upon request of Landscape Architect)
      4.1.2. Supplier information
         Name & contact details of supplier
         Produce code (if available)
      4.1.3. Material application
      4.1.4. Statement of conformance to the Landscape Specification

   4.2. The Landscape Architect reserves the right to take and evaluate samples of materials for conformity to specifications at any time. Rejected materials shall be removed from the site at Landscape Contractor's expense

5. Plant schedule
   5.1. The Landscape Contractor is responsible to identify and seek approval from the Landscape Architect any proposed plant substitutes prior to procurement or installation

6. Inspections
   6.1. Notice
      6.1.1. The Landscape Contractor must provide the Landscape Architect with five (5) working days notice before required attendance at the nominated Landscape Inspections

   6.2. Site Inspections
      6.2.1. Tree Pits in Structural Soil (Hold & Witness Point)
         After tree pit excavation, placement of root barrier and prior to placement of Structural Soil
      6.2.2. Soil Works (Hold Point)
         After placement of topsoil and prior to placement of plants, irrigation or mulch
      6.2.3. Practical Completion (Hold & Witness Point)
         After all landscape works have been completed

QUALITY CONTROL

REVISION	DATE	AMMENDMENT
A	2022-10-24	FOR DEVELOPMENT APPLICATION
B	2022-10-26	DA - AMENDMENT 1

NOTES

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PROJECT NO

2211

PROJECT TEAM

REID CAMPBELL
COSTIN ROE CONSULTING

CLIENT

MARSDEN PARK DEVELOPMENTS

DRAWING TITLE

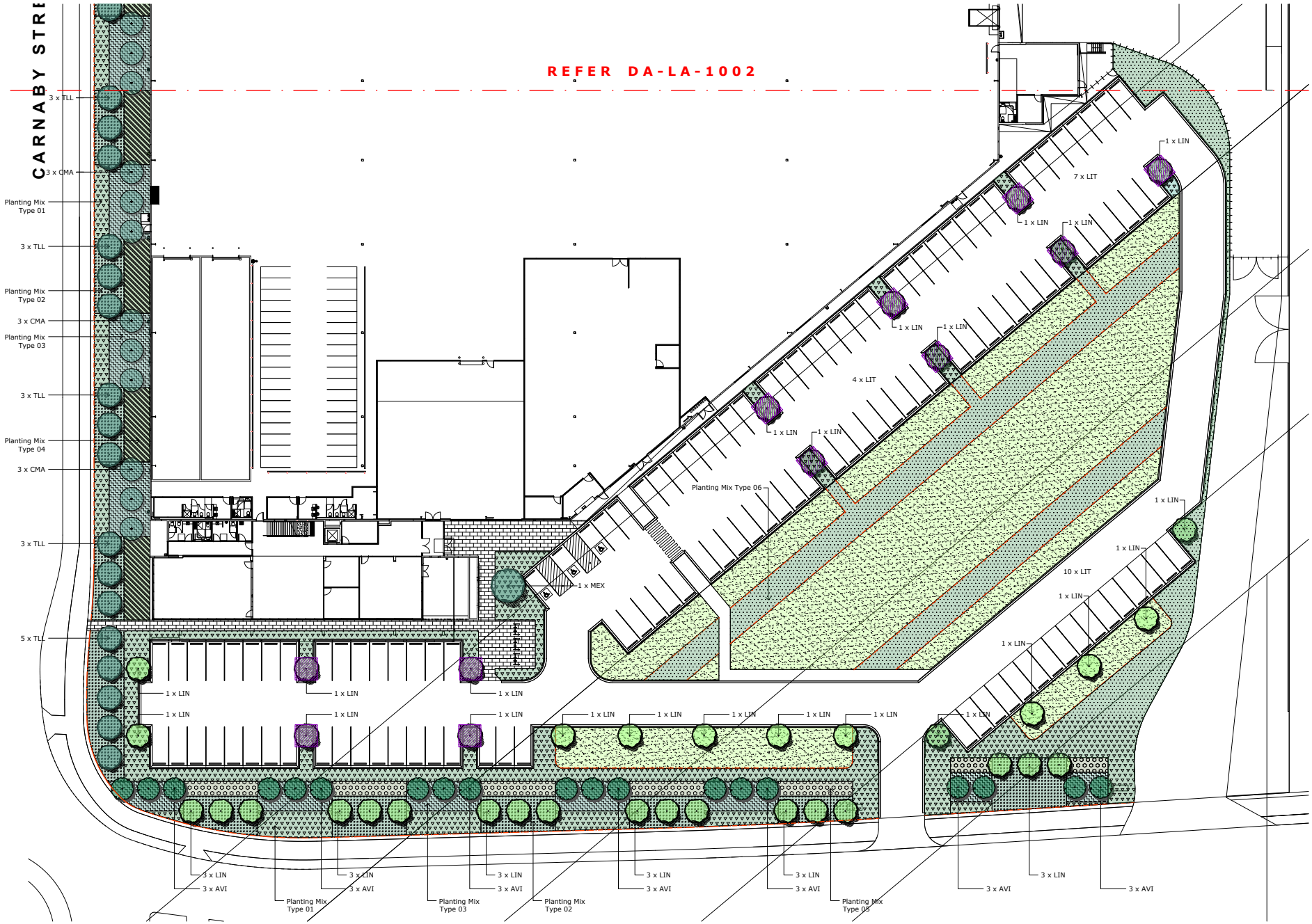
LANDSCAPE SPECIFICATION
& QUALITY CONTROL

PROJECT

DEVICE TECHNOLOGIES
SYDNEY BUSINESS PARK

COCO DESIGN LANDSCAPE

DA - LA - 0001



REVISION	DATE	AMMENDMENT
A	2022-10-24	FOR DEVELOPMENT APPLICATION
B	2022-10-26	DA - AMENDMENT 1

NOTES

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SCALE BAR 1:250 @ A1

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PROJECT NO 2211

SCALE 1:250 @ A1

PROJECT TEAM

REID CAMPBELL
COSTIN ROE CONSULTING

CLIENT

MARSDEN PARK DEVELOPMENTS

DRAWING TITLE

LANDSCAPE PLAN

PROJECT

DEVICE TECHNOLOGIES
SYDNEY BUSINESS PARK

COCO DESIGN LANDSCAPE

DA - LA - 1001

LANDSCAPE PLAN

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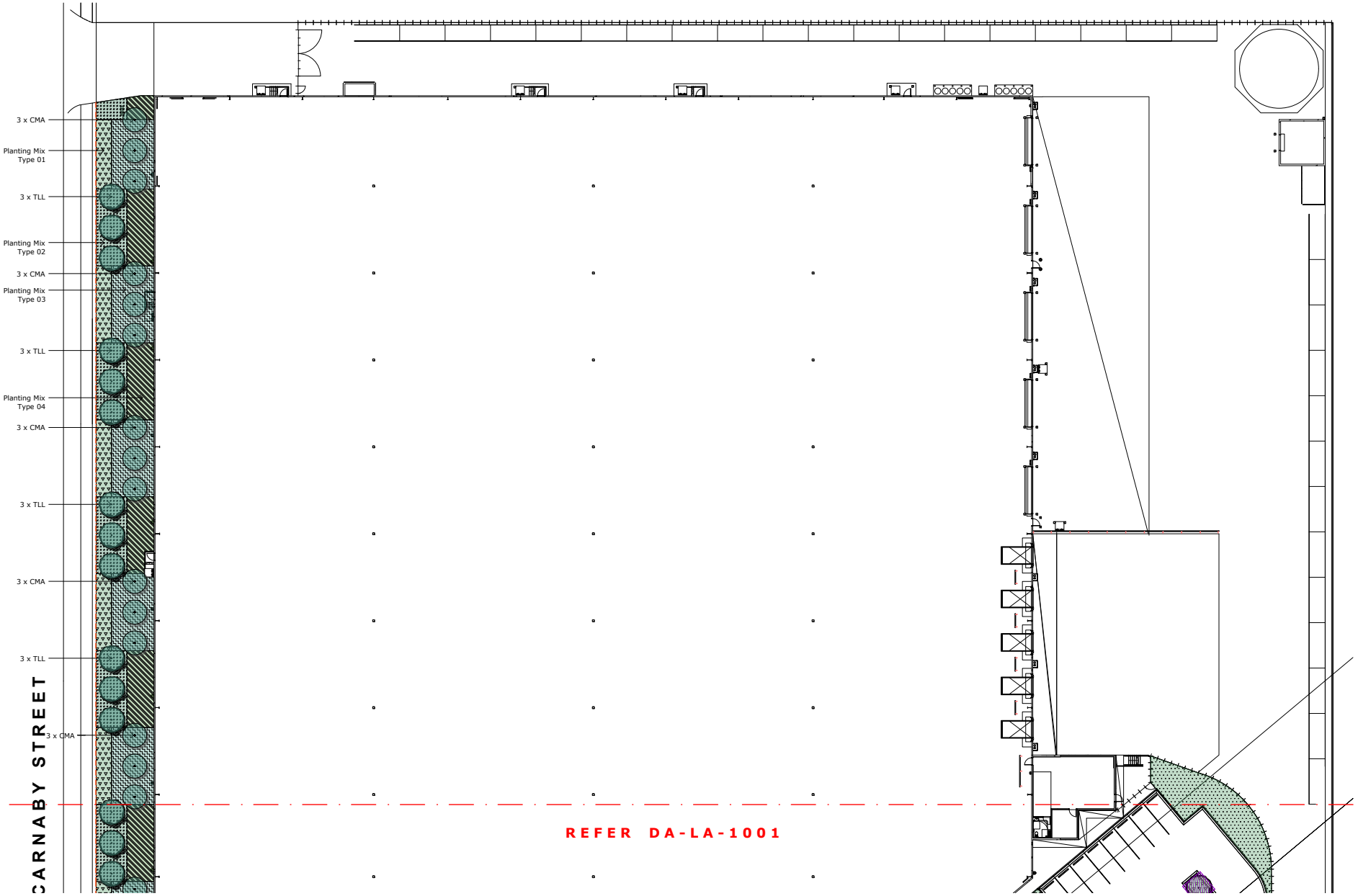

REVISION	DATE	AMMENDMENT
A	2022-10-24	FOR DEVELOPMENT APPLICATION
B	2022-10-26	DA - AMENDMENT 1

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SCALE BAR 1:250 @ A1

0 2 5 10 15 20m

PROJECT NO	SCALE
2211	1:250 @ A1

PROJECT TEAM

REID CAMPBELL
COSTIN ROE CONSULTING

CLIENT

MARSDEN PARK DEVELOPMENTS

DRAWING TITLE

LANDSCAPE PLAN

PROJECT

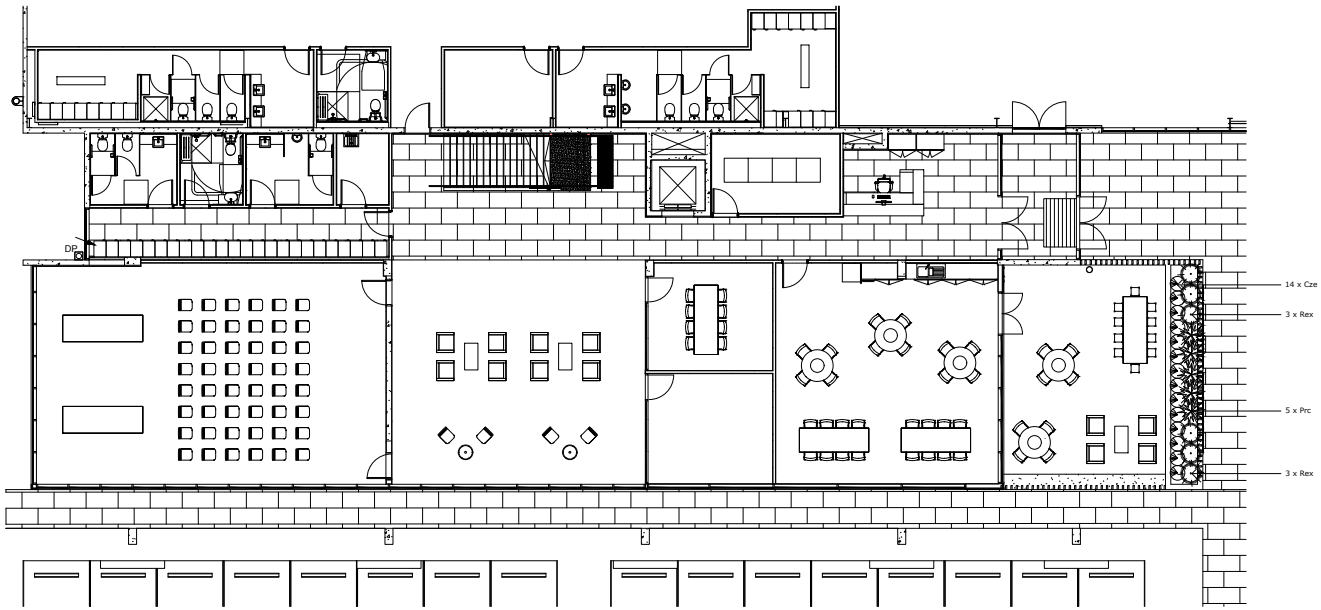
DEVICE TECHNOLOGIES
SYDNEY BUSINESS PARK

COCO DESIGN LANDSCAPE

DA - LA - 1002

LANDSCAPE PLAN

1:250 @ A1



LANDSCAPE PLAN

1:100 @ A1

REVISION	DATE	AMMENDMENT
A	2022-10-24	FOR DEVELOPMENT APPLICATION
B	2022-10-26	DA - AMENDMENT 1

NOTES

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SCALE BAR 1:100 @ A1

0 1 2 5 7.5m

PROJECT NO	SCALE
2211	1:100 @ A1

PROJECT TEAM

REID CAMPBELL
COSTIN ROE CONSULTING

CLIENT

MARSDEN PARK DEVELOPMENTS

DRAWING TITLE

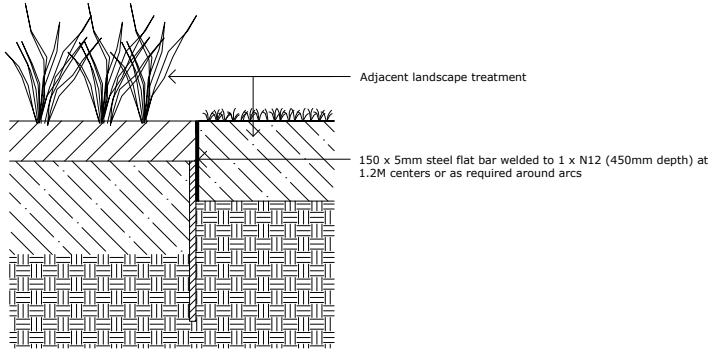
DETAILED LANDSCAPE PLAN
OUTDOOR AREA

PROJECT

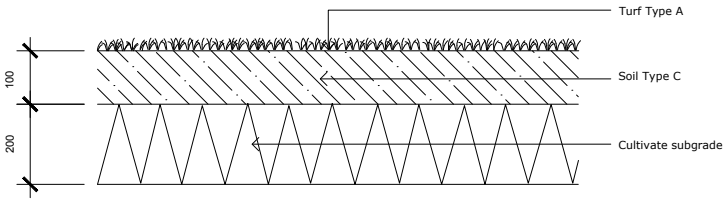
DEVICE TECHNOLOGIES
SYDNEY BUSINESS PARK

COCO DESIGN LANDSCAPE

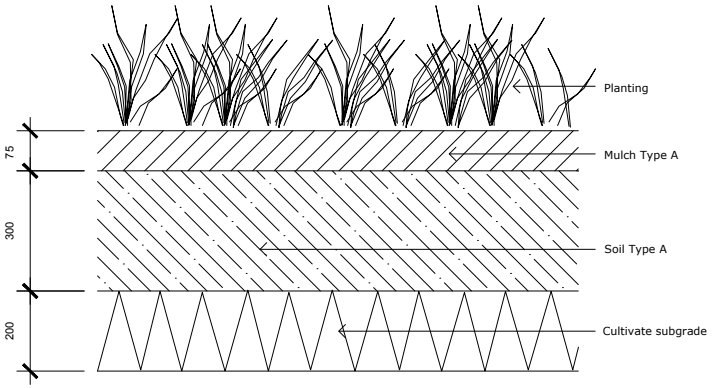
DA - LA - 1003



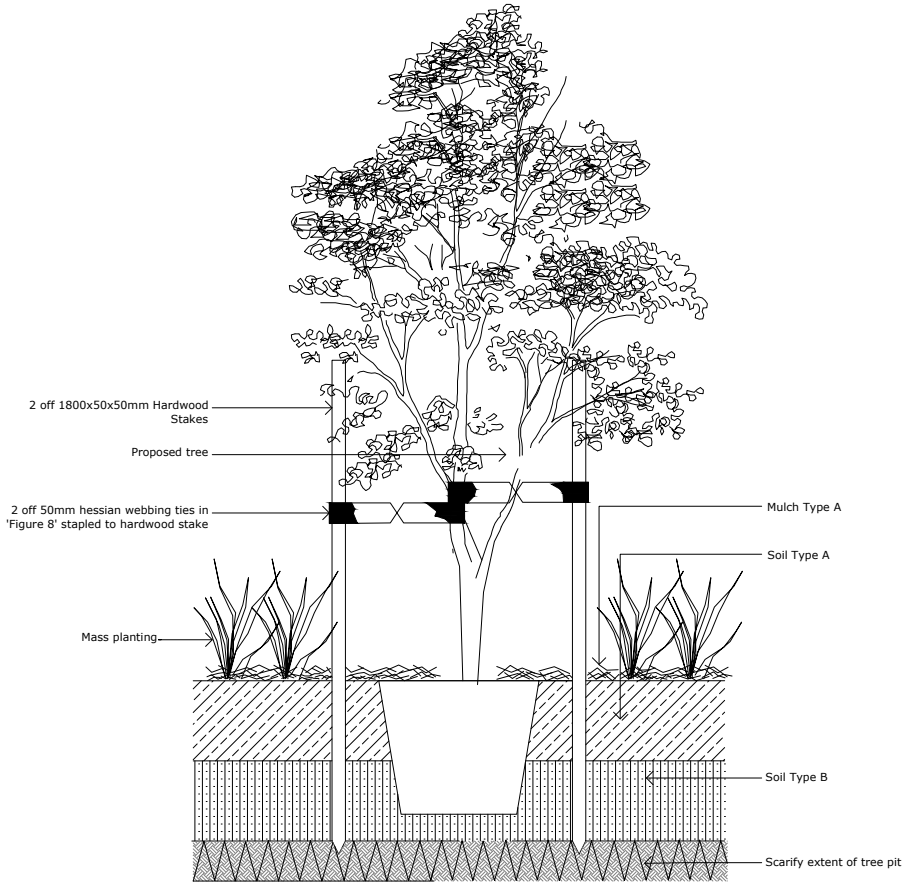
STEEL EDGE DETAIL (SE)
SCALE - 1:5



TURF DETAIL
SCALE - 1:5



MASS PLANTING DETAIL
SCALE - 1:5



TREE PIT DETAIL (IN MASS PLANTING)
SCALE - 1:10

REVISION	DATE	AMMENDMENT
A	2022-10-24	FOR DEVELOPMENT APPLICATION
B	2022-10-26	DA - AMENDMENT 1

NOTES

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PROJECT NO	SCALE
2211	VARIES @ A1

PROJECT TEAM

REID CAMPBELL
COSTIN ROE CONSULTING

CLIENT

MARSDEN PARK DEVELOPMENTS

DRAWING TITLE

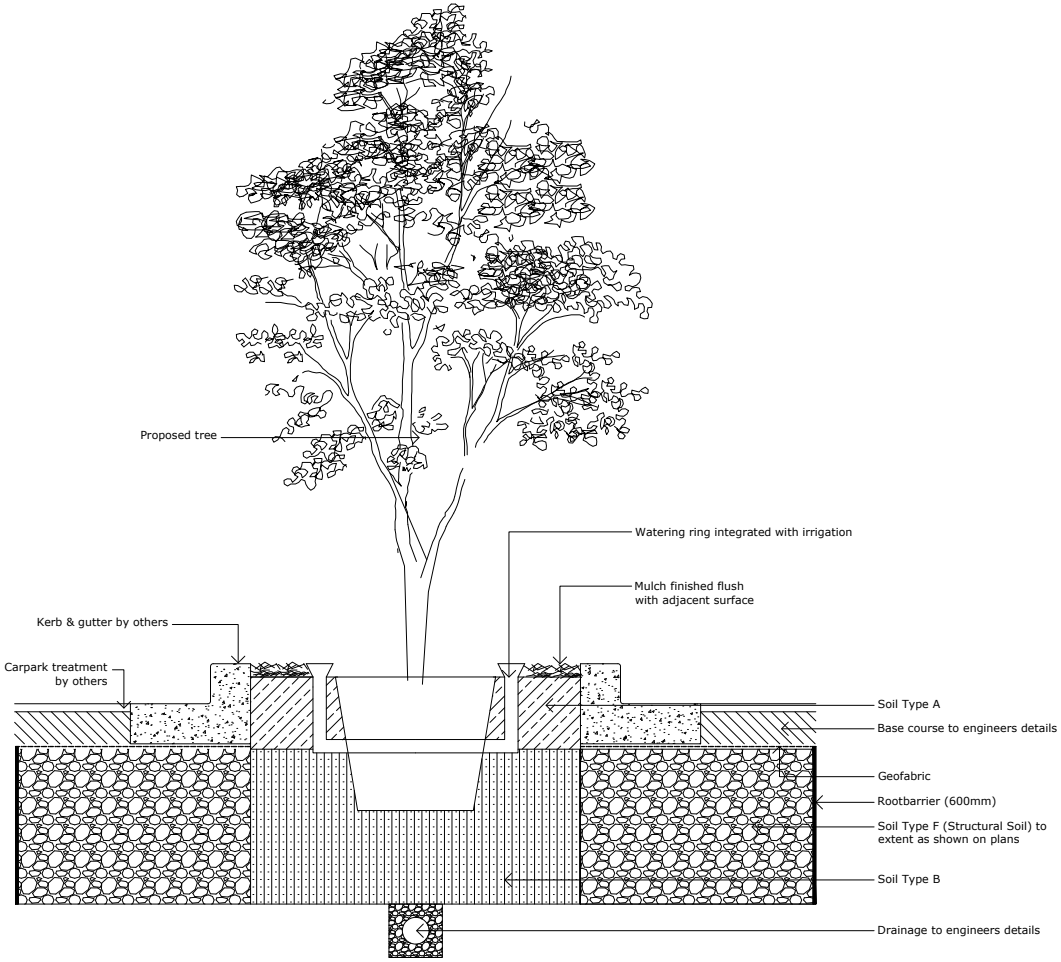
LANDSCAPE DETAILS

PROJECT

DEVICE TECHNOLOGIES
SYDNEY BUSINESS PARK

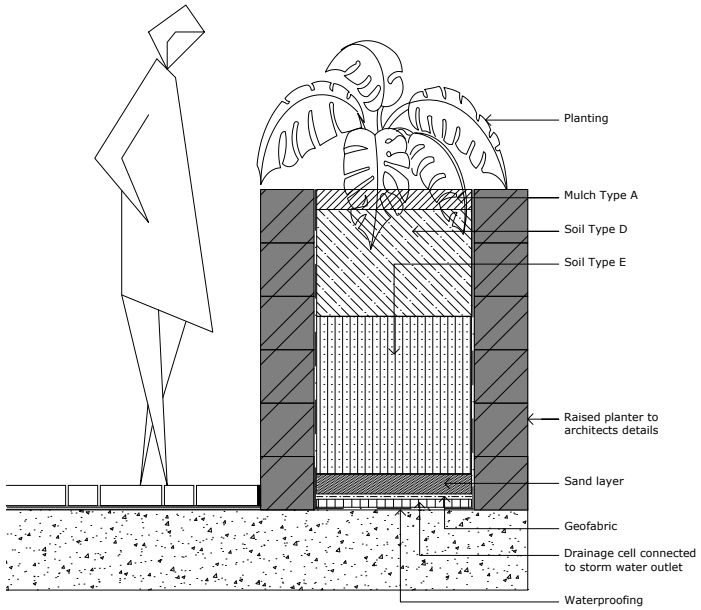
COCO DESIGN LANDSCAPE

DA - LA - 2001



TREE PIT DETAIL (IN STRUCTURAL SOIL)

SCALE - 1:10



RAISED PLANTER DETAIL

SCALE - 1:10

REVISION	DATE	AMMENDMENT
A	2022-10-24	FOR DEVELOPMENT APPLICATION
B	2022-10-26	DA - AMENDMENT 1

NOTES

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PROJECT NO	SCALE
2211	1:10 @ A1

PROJECT TEAM

REID CAMPBELL
COSTIN ROE CONSULTING

CLIENT

MARSDEN PARK DEVELOPMENTS

DRAWING TITLE

LANDSCAPE DETAILS

PROJECT

DEVICE TECHNOLOGIES
SYDNEY BUSINESS PARK

COCO DESIGN
LANDSCAPE

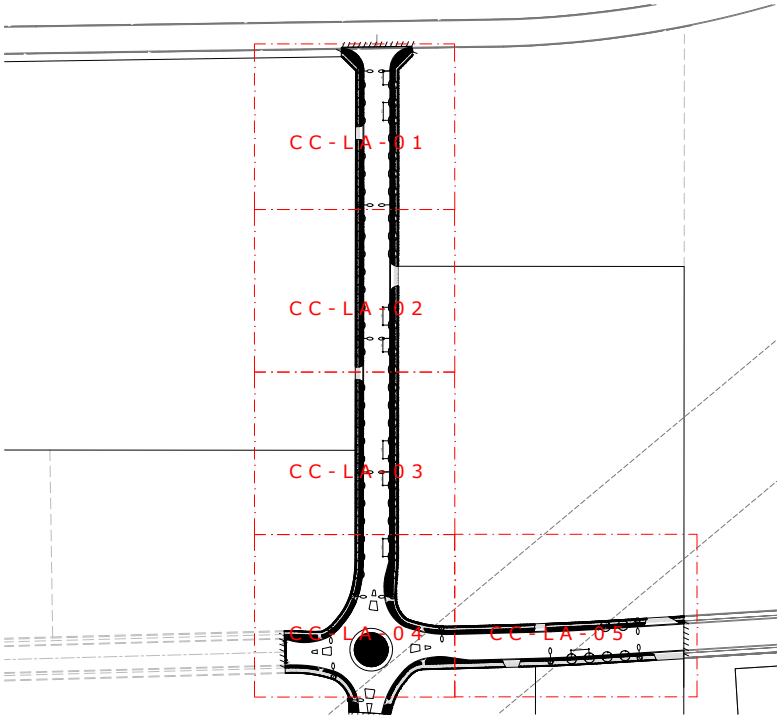
DA - LA - 2002

APPENDIX B
STREET TREE PLAN

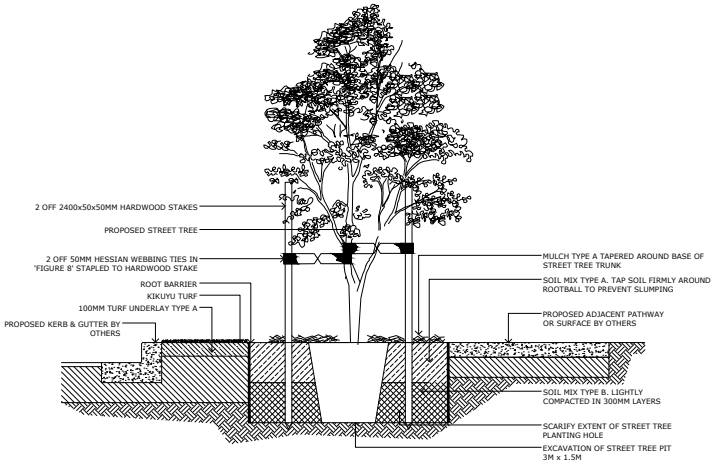
DWG NO.	ISSUE	DRAWING TITLE
CC-LA-00	D	COVER SHEET
CC-LA-01	D	LANDSCAPE PLAN
CC-LA-02	D	LANDSCAPE PLAN
CC-LA-03	D	LANDSCAPE PLAN
CC-LA-04	D	LANDSCAPE PLAN
CC-LA-05	D	LANDSCAPE PLAN
CC-LA-06	D	LANDSCAPE SPECIFICATION, MONITORING,MAINTENANCE & SECTIONS

CODE	SPECIES	COMMON NAME	HEIGHT	POT SIZE	QUANTITY
	TREES IN VERGE				
AFL	Angophora floribunda	Rough-Barked Apple	20M	200L	50
LCO	Lophostemon confertus	Brush Box	14M	200L	6
	ROUNDABOUT				
FRU	Ficus rubiginosa	Port Jackson Fig	20M	1000L	1
Clj	Callistemon 'Little John'	Little John	0.4M	140mm	276
llt	Lomandra 'Lime Tuff'	Lime Tuff	0.6M	140mm	224
gto	Gazania tomentosa	Silver Leaf Gazania	0.2M	140mm	304
tja	Trachelospermum jasminoides	Star Jasmine	0.4M	140mm	304

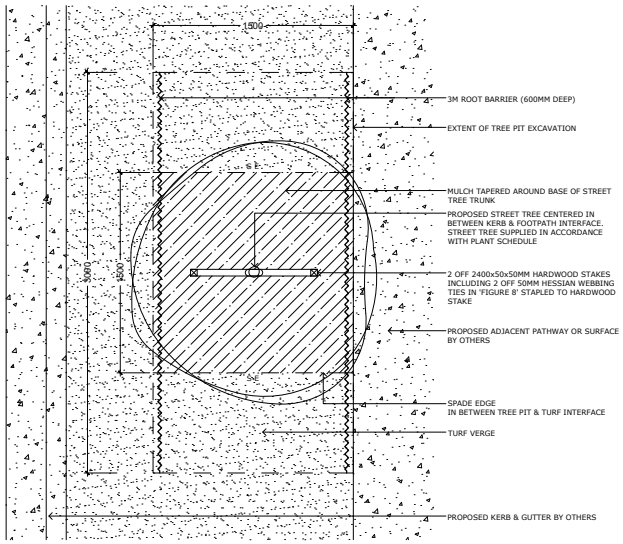
PLANT SCHEDULE



SITE PLAN



STREET TREE PIT DETAIL



STREET TREE PIT PLAN

REV	DATE	ISSUE / AMENDMENT	DRAW	CHECK
A	210220	FOR CONSTRUCTION	SC	SC
B	210306	CONSULTANT CO-ORDINATION	SC	SC
C	210313	CONSENT CONDITIONS UPDATE	SC	SC
D	211017	ADDED ROUNDABOUT	SC	SC

LANDSCAPE ARCHITECT

COCO DESIGN LANDSCAPE

CONSULTANTS

CIVIL ENGINEER
ORION CONSULTING

CLIENT

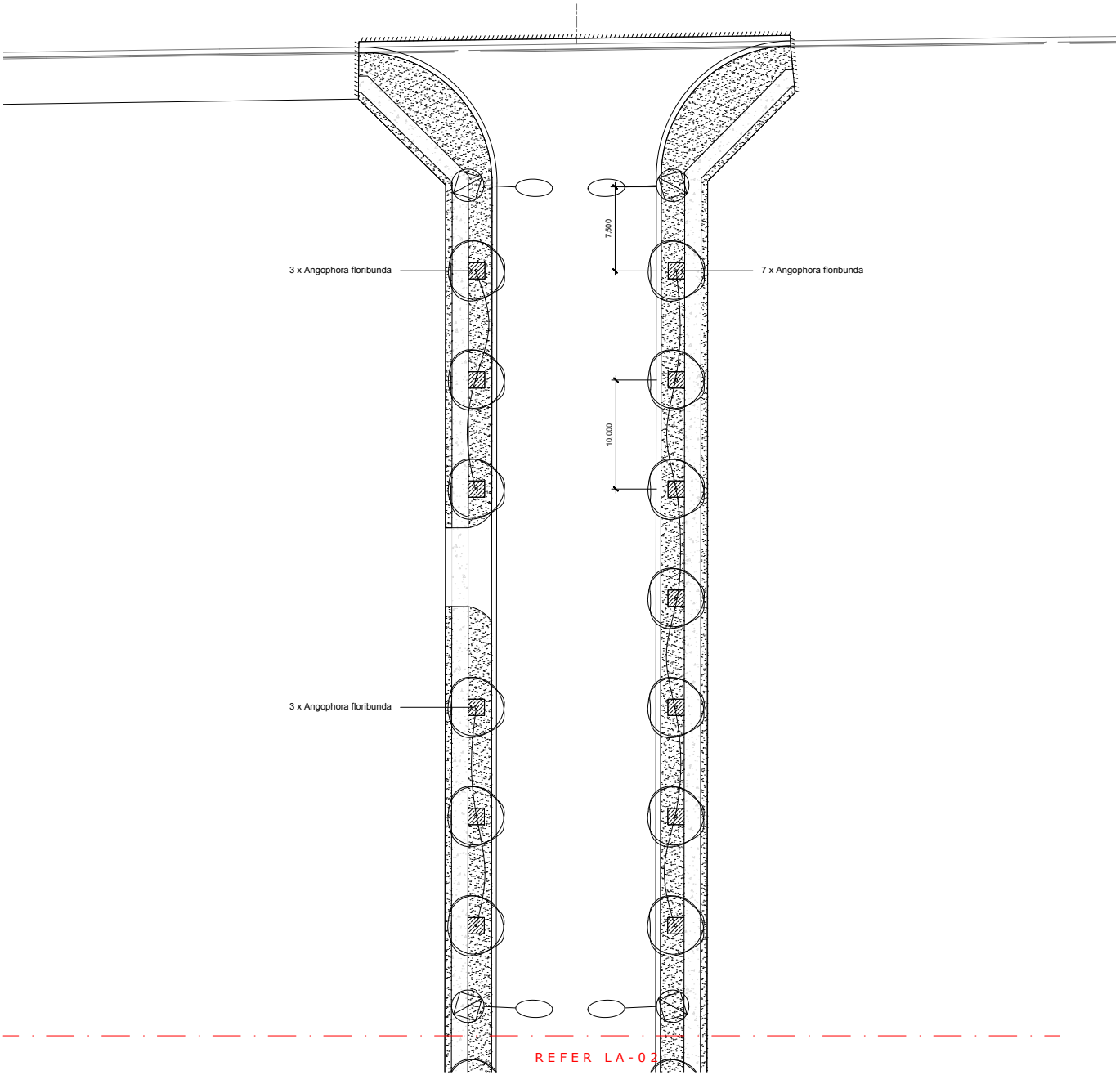
NORTH

PROJECT
SYDNEY BUSINESS PARK
MARSDEN PARK
STAGE 3

SCALE BAR 1:200 @ A1
0 2 5 10 15m

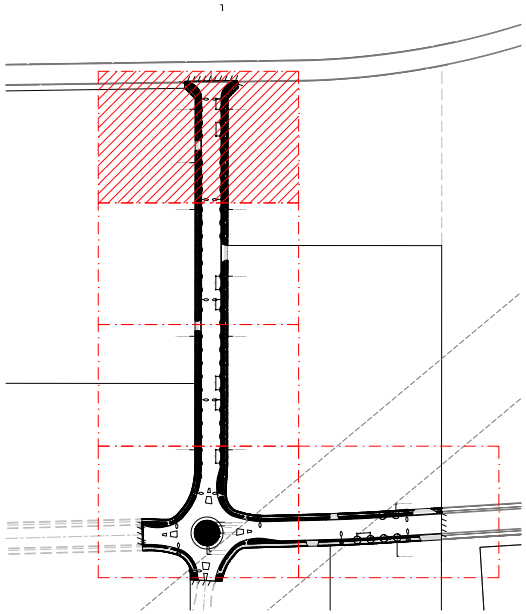
DRAWING TITLE
COVER SHEET

SCALE	PROJECT NO	DRAWING NO
1:200 @ A1	2101	CC-LA-00



LANDSCAPE PLAN

SCALE - 1:200



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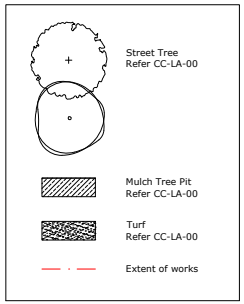

LEGEND

REV	DATE	ISSUE / AMENDMENT	DRAW	CHECK
A	210220	FOR CONSTRUCTION	SC	SC
B	210306	CONSULTANT CO-ORDINATION	SC	SC
C	210313	CONSENT CONDITIONS UPDATE	SC	SC
D	211017	ADDED ROUNDABOUT	SC	SC

LANDSCAPE ARCHITECT

COCO DESIGN LANDSCAPE

CONSULTANTS

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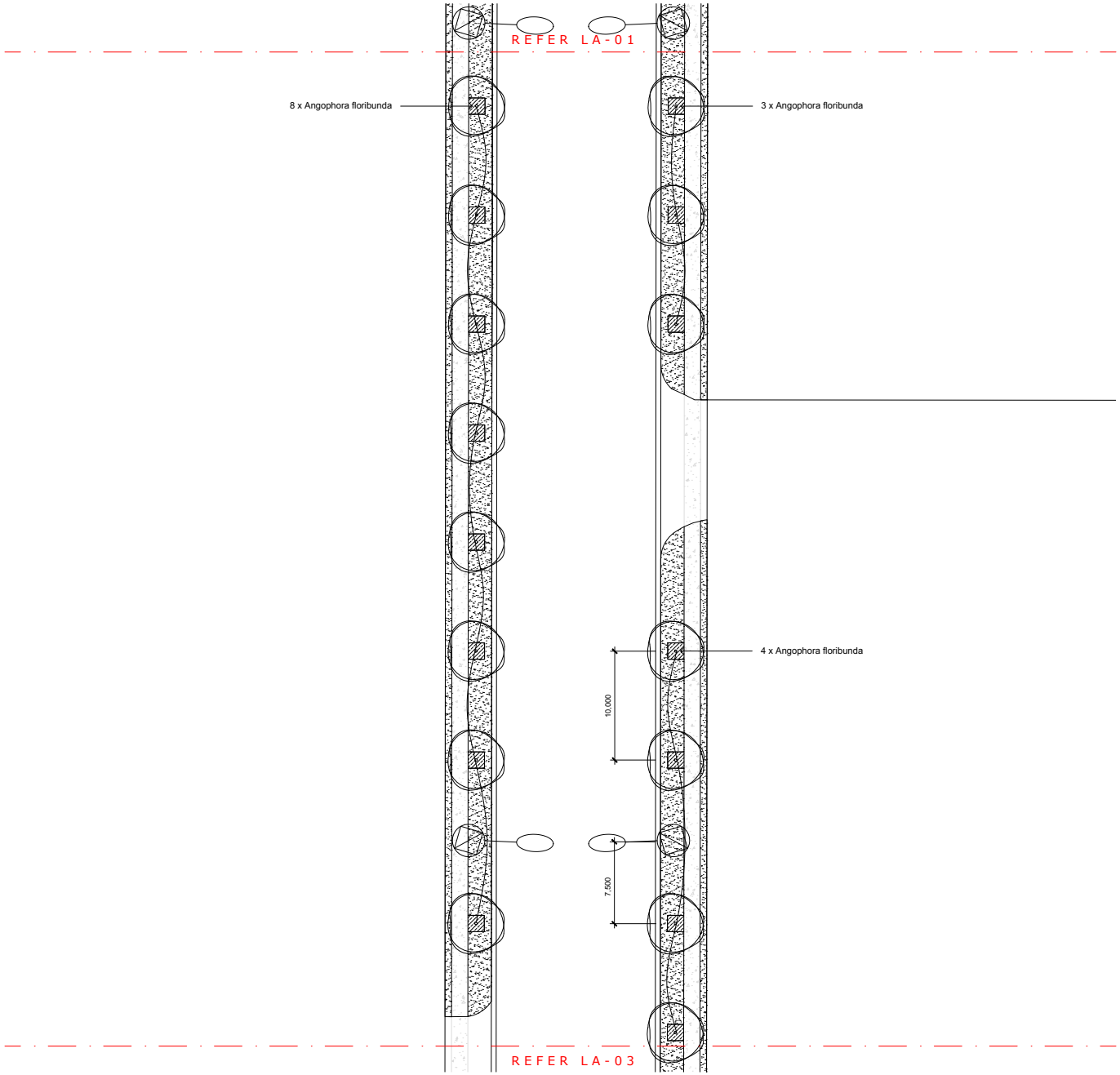
NORTH

PROJECT
SYDNEY BUSINESS PARK
MARSDEN PARK
STAGE 3

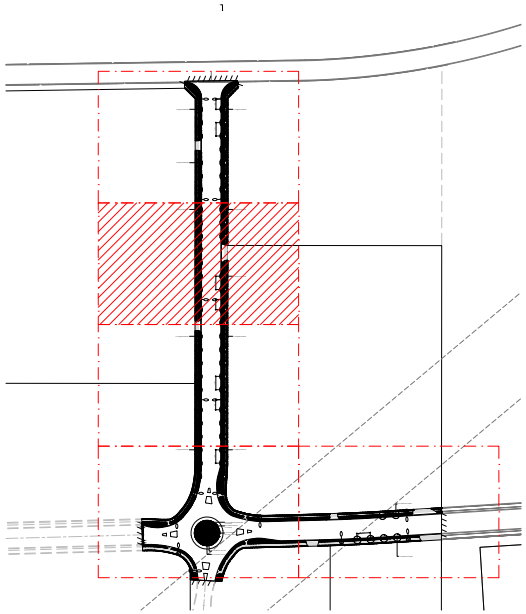
SCALE BAR 1:200 @ A1
0 2 5 10 15m

DRAWING TITLE
LANDSCAPE PLAN

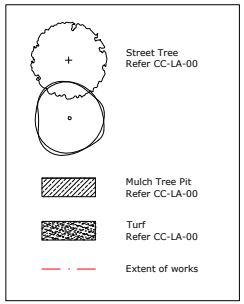
SCALE	PROJECT NO	DRAWING NO
1:200 @ A1	2101	CC-LA-01



LANDSCAPE PLAN
SCALE - 1:200



SITE PLAN



LEGEND

REV	DATE	ISSUE / AMENDMENT	DRAW	CHECK
A	210220	FOR CONSTRUCTION	SC	SC
B	210306	CONSULTANT CO-ORDINATION	SC	SC
C	210313	CONSENT CONDITIONS UPDATE	SC	SC
D	211017	ADDED ROUNDABOUT	SC	SC

LANDSCAPE ARCHITECT
COCO DESIGN LANDSCAPE

CONSULTANTS
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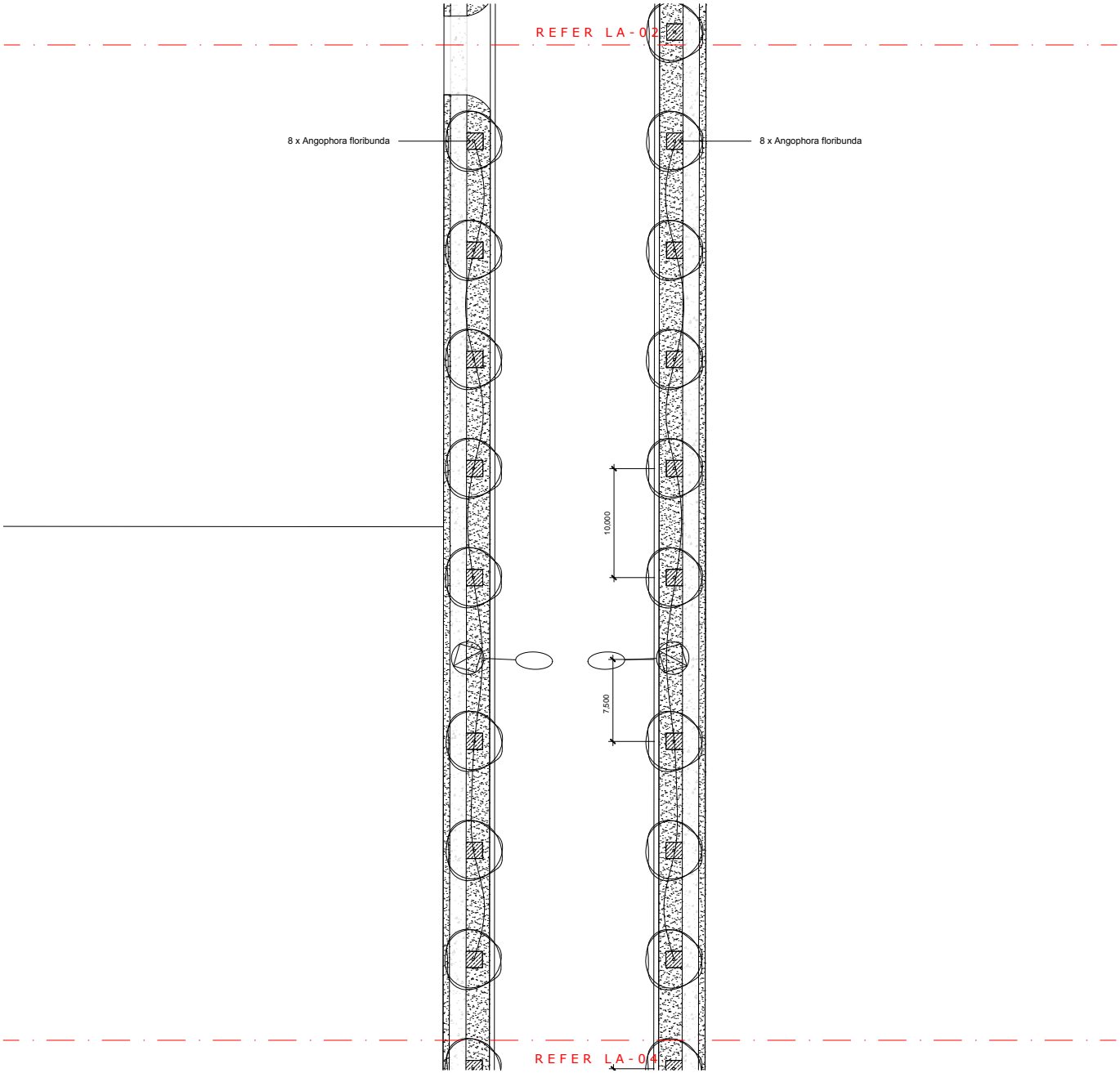
NORTH

PROJECT
SYDNEY BUSINESS PARK
MARSDEN PARK
STAGE 3

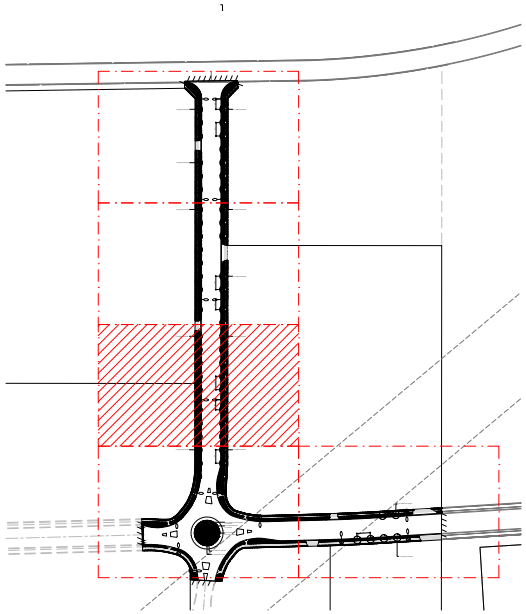
SCALE BAR 1:200 @ A1
0 2 5 10 15m

DRAWING TITLE
LANDSCAPE PLAN

SCALE	PROJECT NO	DRAWING NO
1:200 @ A1	2101	CC-LA-02



LANDSCAPE PLAN
SCALE - 1:200



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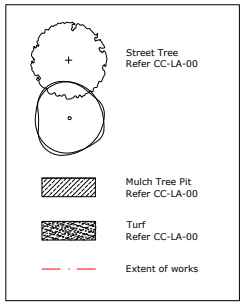

LEGEND

REV	DATE	ISSUE / AMENDMENT	DRAW	CHECK
A	210220	FOR CONSTRUCTION	SC	SC
B	210306	CONSULTANT CO-ORDINATION	SC	SC
C	210313	CONSENT CONDITIONS UPDATE	SC	SC
D	211017	ADDED ROUNDABOUT	SC	SC

LANDSCAPE ARCHITECT

COCO DESIGN
LANDSCAPE

CONSULTANTS

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CLIENT

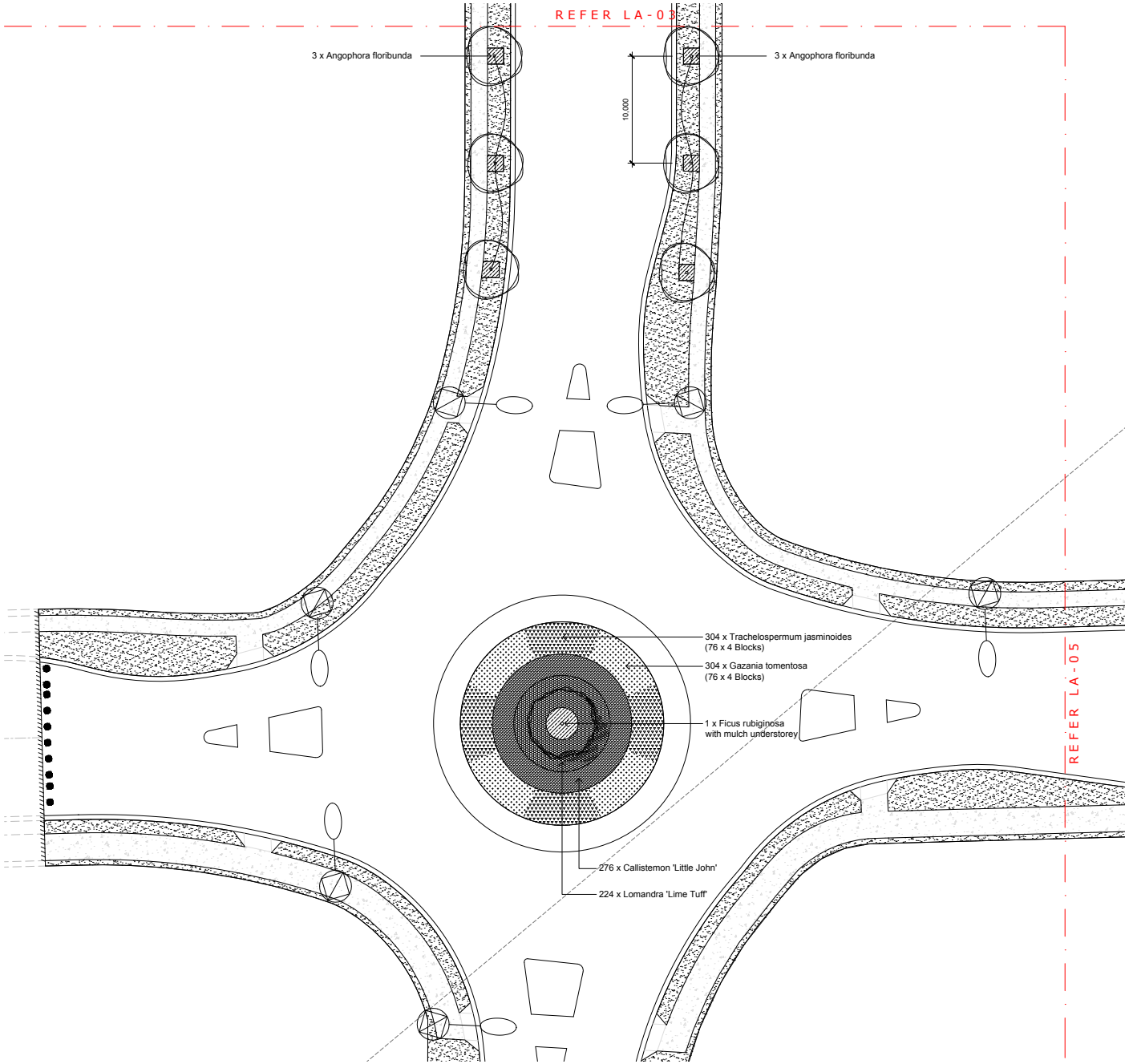
NORTH

PROJECT
SYDNEY BUSINESS PARK
MARSDEN PARK
STAGE 3

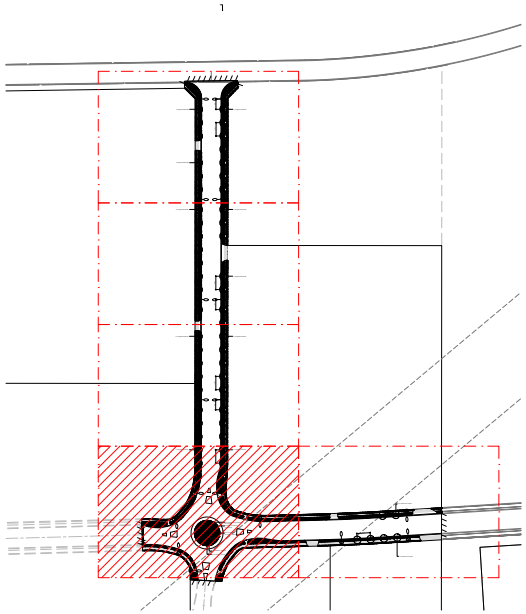
SCALE BAR 1:200 @ A1
0 2 5 10 15m

DRAWING TITLE
LANDSCAPE PLAN

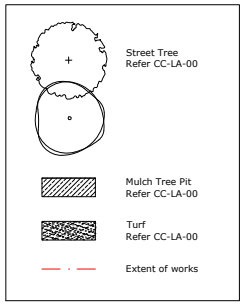
SCALE	PROJECT NO	DRAWING NO
1:200 @ A1	2101	CC-LA-03



LANDSCAPE PLAN
SCALE - 1:200



SITE PLAN



LEGEND

REV	DATE	ISSUE / AMENDMENT	DRAW	CHECK
A	210220	FOR CONSTRUCTION	SC	SC
B	210306	CONSULTANT CO-ORDINATION	SC	SC
C	210313	CONSENT CONDITIONS UPDATE	SC	SC
D	211017	ADDED ROUNDABOUT	SC	SC

LANDSCAPE ARCHITECT

COCO DESIGN
LANDSCAPE

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ORION CONSULTING

CLIENT

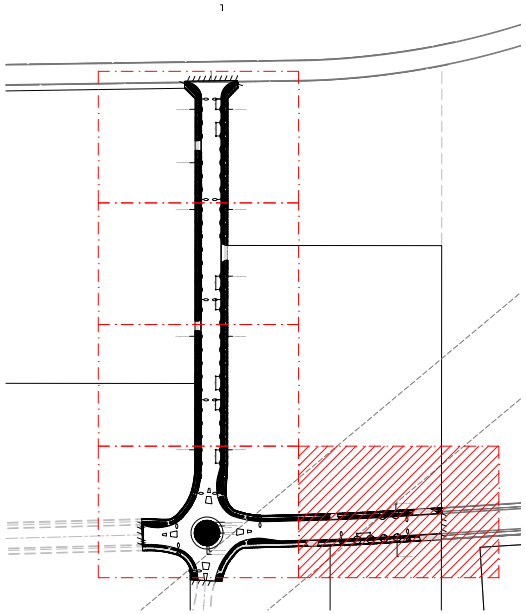
NORTH

PROJECT
SYDNEY BUSINESS PARK
MARSDEN PARK
STAGE 3

SCALE BAR 1:200 @ A1
0 2 5 10 15m

DRAWING TITLE
LANDSCAPE PLAN

SCALE	PROJECT NO	DRAWING NO
1:200 @ A1	2101	CC-LA-04



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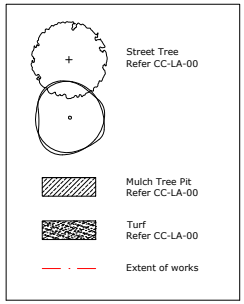

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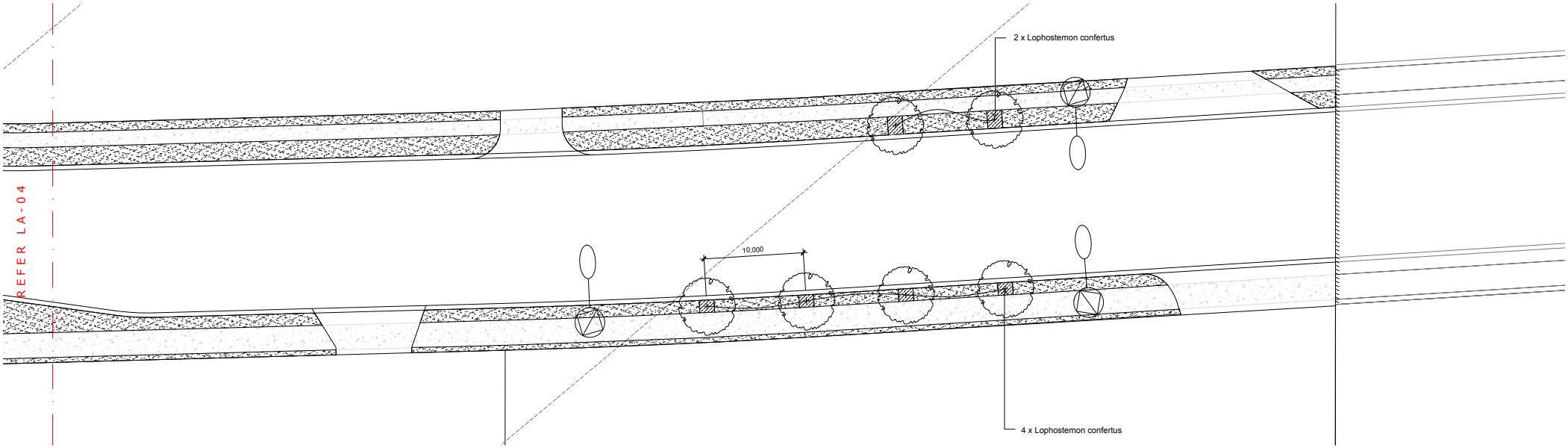

LANDSCAPE PLAN
SCALE - 1:200

REV	DATE	ISSUE / AMENDMENT	DRAW	CHECK
A	210220	FOR CONSTRUCTION	SC	SC
B	210306	CONSULTANT CO-ORDINATION	SC	SC
C	210313	CONSENT CONDITIONS UPDATE	SC	SC
D	211017	ADDED ROUNDABOUT	SC	SC

LANDSCAPE ARCHITECT

COCO DESIGN
LANDSCAPE

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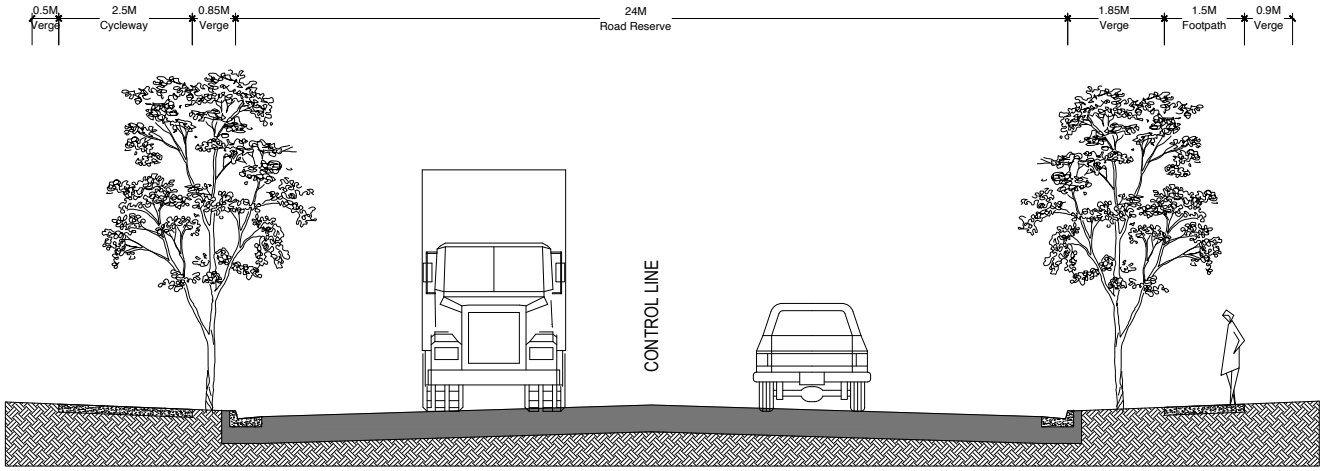
PROJECT
SYDNEY BUSINESS PARK
MARSDEN PARK
STAGE 3

SCALE BAR 1:200 @ A1
0 2 5 10 15m

DRAWING TITLE
LANDSCAPE PLAN

SCALE	PROJECT NO	DRAWING NO
1:200 @ A1	2101	CC-LA-05



HOLLINSWORTH ROAD LANDSCAPE SECTION

SCALE - 1:50

1. All soft landscape areas to be ripped and cultivated up to 150mm depth

2. Soils to conform to AS4419-2003 Soils for landscaping & garden use
   - 2.1. Soil Types & Depths
     - 2.1.1. Soil Mix Type A: Screen and ameliorated A site topsoil at 300mm depth
     - 2.1.2. Soil Mix Type B: Screen and ameliorated Horizon B site topsoil to remaining tree pit depth
     - 2.1.3. Turf Underlay Type : 80:20 Turf Underlay or equivalent at 100mm depth

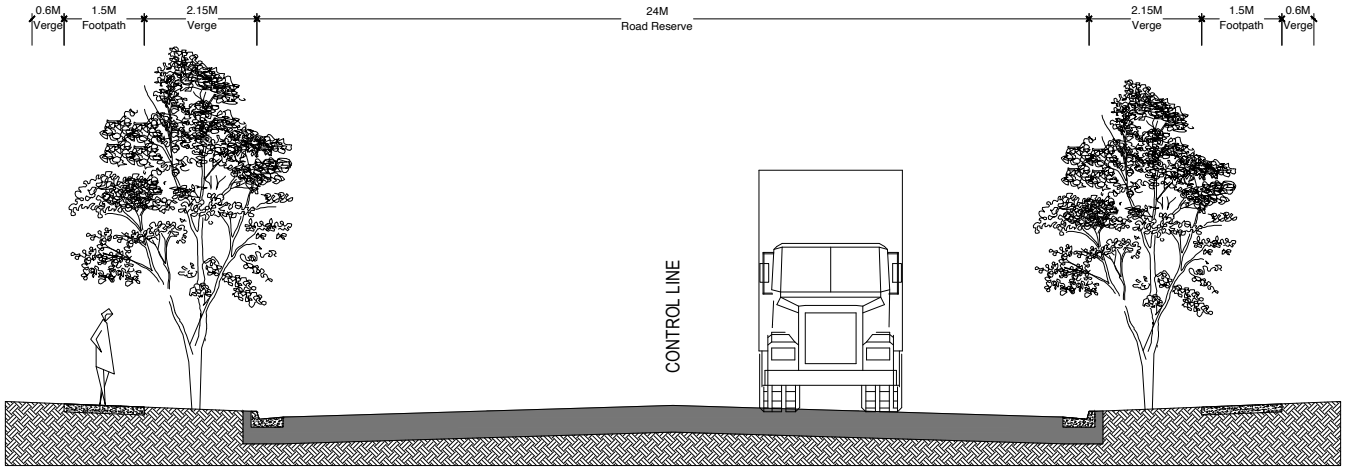
3. Mulches to conform to AS4454-2003 Soil Conditioners for landscaping & garden use
   - 3.1. Mulch Types & Depths
     - 3.1.1. Tree Pits: 'Forest Fines (4-16mm)' or equivalent up to 75mm depth

4. Turf must be Kikuyu unless otherwise stated
   - 4.1. Edging
     - 4.1.1. Spade edge must be constructed between Tree Pit & Turf Areas. Spade edge to be constructed using a sharp V-shape at 45 degree angle

5. Root barrier
   - 5.1. Place 3M long x 600mm deep root barrier to trees located within 2M of hard surface areas (footpaths, cycleways, kerbs or carparks).

6. Planting
   - 6.1. Plants must be supplied by an approved nursery supplier as nominated by the Superintendent
   - 6.2. Plants must be true to species or cultivar as per the Landscape Plan & Plant Schedule. No substitutions are allowed unless approved in writing by the Superintendent.
   - 6.3. Planting holes must be dug to a depth and width that is 2 times larger than the width of the plant root ball. Base of planting hole must be loosened to depth of 75mm. Root ball must be backfilled with friable topsoil. Upon completion of the planting operation the base of each stem must finish flush with the surface of the topsoil.
   - 6.4. A mulch dish must be formed around the base of each plant to aid in water absorption
   - 6.5. No trees to be removed, ringbarked, cut, topped or lopper or willfully destroyed (other than those within the proposed building footprint or as shown on approved plans) without the prior consent of Council and in accordance with Council's Tree Preservation Order & Policy

LANDSCAPE SPECIFICATION



ROAD 01 & 02 LANDSCAPE SECTION

SCALE - 1:50

1. Landscape maintenance
   - 1.1. Maintenance period is fifty-two (52) weeks from date of Practical Completion.
     - 1.1.1. Scope of works includes (but is not limited to) the following: Mowing & Trimming, Topdressing, Plant Replacements, Insect & Disease Control, Reinstatement / Removal of Stakes & Ties, Weeding (hand removal and / or chemical (herbicide), Fertilising, Rubbish Removal, Re-Mulching & Watering

2. Tree Maintenance
   - 2.1. All trees must be maintained in a healthy, vigorous condition to the best Australian Arboricultural industry standards. They will be maintained true to form.
   - 2.2. All sucker growth must be removed
   - 2.3. Pruning must be undertaken to
     - 2.3.1. Develop a stable trunk and canopy structure
     - 2.3.2. Maintain height clearance and visibility along footpaths, cycleways, driveways and roadways
     - 2.3.3. Removal of dead or diseased branches
   - 2.4. Tree pits must be kept to a high detailed standard and kept weed and litter free
   - 2.5. Fertiliser application to be applied in late winter & re-apply during Mid-Summer as per manufactures recommendations
   - 2.6. Mulch top up to 75mm depth to be applied in late winter

3. Watering
   - 3.1. All landscape areas must be adequately watered to ensure successful establishment
   - 3.2. Trees
     - 3.2.1. Trees must be soaked with water immediately after planting
     - 3.2.2. Volume:80% of root ball volume (EG 100L tree would receive 80L water per visit)
     - 3.2.3. Regime: The below is a guideline for watering frequency
       - 3.2.3.1. Week 1: Daily
       - 3.2.3.2. Weeks 2 - 4: Every second day
       - 3.2.3.3. Weeks 5 - 12: Weekly
       - 3.2.3.4. Ongoing: As required based on weather conditions and timing of year
   - 3.2. Turf
     - 3.2.1. Turf must be soaked with water immediately after laying. Do not install turf if there is no source of water to establish
     - 3.2.2. Volume: 10L per m2. A 10,000L water cart should be able to water 1000m2 per tank
       - 3.2.2.1. Week 1: Daily
       - 3.2.2.2. Week 2: Every second day
       - 3.2.2.3. Week 3 - 12: Weekly
       - 3.2.2.4. Ongoing: As required. Turf should be self sufficient expect during extreme periods

4. Monitoring
   - 4.1. The contractor must provide monthly reports of the landscape works. These reports are to include (but not be limited to)
     - 4.1.1. Date & time
     - 4.1.2. Weather conditions
     - 4.1.3. Chemical and / or fertlisers applied
     - 4.1.4. Brief description of works completed
     - 4.1.5. Identification of any site issues
     - 4.1.6. Provide recommendations (if any)

MAINTENANCE & MONITORING

REV	DATE	ISSUE / AMENDMENT	DRAW	CHECK
A	210220	FOR CONSTRUCTION	SC	SC
B	210306	AMENDMENT 1: CONSULTANT CO-ORDINATION	SC	SC
C	210313	CONSENT CONDITIONS UPDATE	SC	SC
D	211017	ADDED ROUNDABOUT	SC	SC

LANDSCAPE ARCHITECT

COCO DESIGN LANDSCAPE

CONSULTANTS

CIVIL ENGINEER
ORION CONSULTING

CLIENT

PROJECT
SYDNEY BUSINESS PARK
MARSDEN PARK
STAGE 3

SCALE BAR 1:50 @ A1
0 .5 1 2 3 4m

DRAWING TITLE
LANDSCAPE SPECIFICATION, MONITORING, MAINTENANCE & SECTIONS

SCALE	PROJECT NO	DRAWING NO
1:50 @ A1	2101	CC-LA-06

Level 3
101 Sussex Street
Sydney NSW 2000
t: (02) 9259 3800

15 July 2020

Our Reference: 20SYD - 16423

Marsden Park Developments Pty Ltd
920 Richmond Road,
P.O Box 262, Riverstone
NSW 2765

Attention: Michael Gray

Dear Michael,

Sydney Business Park Stage Three State Significant Development Application – Flora and Fauna Assessment / Biodiversity Development Assessment Report Waiver

This letter describes the assessment of biodiversity values for the above project. The State Significant Development Application (SSDA) will involve the development of large format warehousing and logistics, which will include clearing of vegetation, subdivision of land, road and drainage works, bulk earthworks, building construction and services. It is understood that the proposal may also include a temporary stormwater detention basin and associated infrastructure (Figure 1).

BIODIVERSITY CERTIFICATION

Eco Logical Australia has undertaken a review of the proposed development, including the temporary stormwater detention basin, and can confirm that the entire site is 'subject land' according to Part 7 (*Biocertification of the Sydney region growth centres SEPP and related EPIs*) of Schedule 7 to the *Threatened Species Conservation Act 1995* (TSC Act) (Figure 1).

In August 2017 the *Biodiversity Conservation Act 2016* (BC Act) was gazetted and repealed the TSC Act. Under section 43 of the *Biodiversity Conservation (Savings and Transitional) Regulation 2017* (BC (Savings and Transitional) Regulation), the repeal of the TSC Act does not affect the operation of part 7 or 8 of Schedule 7 to that Act.

Section 8.4(2) of the BC Act describes the effect of biodiversity certification in relation to development under Part 4 of the *Environmental Planning and Assessment Act 1979* (EP&A Act). This section states '*an assessment of the likely impact on biodiversity of development on biodiversity certified land is not required for the purposes of Part 4 of the EP&A Act 1979*'.

Within the wider study area, there is an area to the west of the development, which is not biodiversity certified. The proposal does not involve disturbance to this area. Therefore, there will be no impacts to biodiversity values in the non-certified land.

STATE ENVIRONMENTAL PLANNING POLICY (SYDNEY REGION GROWTH CENTRES) 2006

The *State Environmental Planning Policy (Sydney Region Growth Centres) 2006* (Sydney Region Growth Centres SEPP) *Appendix 5 Marsden Park Industrial Precinct Plan* contains controls for the clearing of Existing Native Vegetation (ENV) and Native Vegetation Retention Areas (NVR) as shown on the Native Vegetation Protection Map.

Clause 6.5(4) of the Precinct Plan states:

> *The consent authority must not grant development consent for development on land to which this clause applies unless it is satisfied that the proposed development will not result in the clearing of any existing native vegetation (within the meaning of the relevant biodiversity measures under Part 7 of Schedule 7 to the Threatened Species Conservation Act 1995.*

Although there is an area mapped as ENV in the wider study area, west of the development, (Figure 1), the proposal does not involve disturbance to this area. It is the understanding of the proponent that Blacktown City Council are currently undertaking studies to design a regional stormwater basin within this area, as outlined within the Indictive Layout Plan (ILP). There is no mapped NVR within the wider study area or development site. Therefore, these clauses do not apply.

SECRETARY'S ENVIRONMENTAL ASSESSMENT REQUIREMENTS AND THE BIODIVERSITY CONSERVATION ACT 2016

In accordance with Clause 7.9(2) of the BC Act, an application for State Significant Development is *to be accompanied by a biodiversity development assessment report (BDAR) unless the Planning Agency Head and the Environmental Agency Head determine that the proposed development is not likely to have any significant impact on biodiversity values.*

A Fact Sheet for BDAR Waivers advises:

A BDAR waiver will only be issued in limited circumstances where it is clearly demonstrated, based on information provided by a proponent in accordance with this fact sheet, that the proposed development is not likely to have any significant impact on biodiversity values. For example, internal works to an existing building or development on a brownfield site with no threatened species habitat. Development that requires clearing of native vegetation is likely to require a BDAR. If there is doubt regarding potential impacts, or where information is not made available, a BDAR waiver will not be issued.

This letter has therefore addressed Section 1.5 of the BC Act and Clause 1.4 of the *Biodiversity Conservation Regulation 2017* (BC Regulation), within Appendix B to assess the biodiversity values on site. As there are no impacts to biodiversity on non-certified land, this letter concludes that there will not be a significant impact to biodiversity values and that the proponent should seek a waiver from the Department of Planning, Industry and Environment (DPIE) for the preparation of a BDAR. This letter should be submitted in support of that application for a BDAR waiver.

BLACKTOWN CITY COUNCIL GROWTH CENTRE PRECINCTS DEVELOPMENT CONTROL PLAN 2010

Section 2.3.4.2 of the Blacktown City Council Growth Centres Precinct Development Control Plan 2010 (Blacktown Growth Centres DCP) contains provisions relating to native bushland and fauna habitat preservation. Table 1 outlines how the proposed development has considered such provisions.

Table 1: Blacktown Growth Centre Precincts DCP Controls

Liverpool Growth Centres Precinct DCP Clause	Comments
Native trees and other vegetation are to be retained where possible by careful planning of subdivisions to incorporate trees into areas such as road reserves and private or communal open space.	The development site is wholly biodiversity certified. Retainment of existing trees will be considered within the Landscape Plans. Although patches of native vegetation are proposed for removal, this will be compensated through the planting of endemic street trees (where feasible) as well as the protection and management of mapped ENV areas in the vicinity of the development. Furthermore, the loss of native vegetation within biodiversity certified lands has been compensated through the strategic planning of the North West Growth Centre, through the use of biodiversity offsets.
Where practical, prior to development commencing, applicants are to: • provide for the appropriate re-use of native plants and topsoil that contains known or potential native seed bank; and • relocate native animals from development sites. Applicants should refer to OEH's *Policy on the Translocation of Threatened Fauna in NSW*.	The development site is wholly biodiversity certified. Retainment of existing trees will be considered within the Landscape Plans. Although patches of native vegetation are proposed for removal, this will be compensated through the planting of endemic street trees (where feasible) as well as the protection and management of mapped ENV areas in the vicinity of the development. Furthermore, the loss of native vegetation within biodiversity certified lands has been compensated through the strategic planning of the North West Growth Centre, through the use of biodiversity offsets. If required, pre-clearance works to avoid accidental harm to native fauna species will be undertake prior to construction.
Within land that is in a **Riparian Protection Area** as shown on the figure in the relevant Precinct Schedule: • all existing native vegetation is to be retained and rehabilitated, except where clearing is required for essential infrastructure such as roads; and • native vegetation is to be conserved and managed in accordance with the Riparian Protection Area controls at **Appendix B**.	The development site is not within land that is mapped as a Riparian Protection Area. Therefore, this clause does not apply.
Development on land that adjoins land zoned E2 Environmental Conservation is to ensure that there are no significant detrimental impacts to the native vegetation and ecological values of the E2 zone.	The development site area does not adjoin land zoned as E2 (Environmental Conservation). Therefore, this clause does not apply.
All subdivision design and bulk earthworks are to consider the need to minimise weed dispersion and eradication. If council believes that a significant weed risk exists, a Weed Eradication and Management Plan outlining weed control measures during and after construction is to be submitted with the subdivision DA.	If required, the proponent will prepare and implement a Weed Eradication and Management Plan.
A landscape plan is to be submitted with all subdivision development applications, identifying: • all existing trees on the development site and those that are proposed to be removed or retained;	A Landscape Plan will be submitted with the SSDA.

Liverpool Growth Centres Precinct DCP Clause	Comments
• the proposed means of protecting trees to be retained during both construction of subdivision works and construction of buildings; • proposed landscaping including the locations and species of trees, shrubs and ground cover to be planted as part of subdivision works; and • the relationship of the proposed landscaping to native vegetation that is to be retained within public land, including factors such as the potential for weed or exotic species invasion and the contribution of the proposed landscaping	
The selection of trees and other landscaping plants is to consider: • The prescribed trees in **Appendix D**; • The use of locally indigenous species where available; • Contribution to the management of soil salinity, groundwater levels and soil erosion.	A Landscape Plan will be submitted with the SSDA.

COMMONWEALTH STRATEGIC ASSESSMENT (ENVIRONMENT PROTECTION AND BIODIVERSITY CONSERVATION ACT 1999 (EPBC ACT))

On 28th February 2012, the Commonwealth Minister for the Environment announced that the program of development activities within the Growth Centres was approved under the EPBC Act Strategic Assessment process. Specifically, all actions associated with the development of the Western Sydney Growth Centres as described in the Sydney Growth Centres Strategic Assessment Program Report (Nov 2010) have been assessed at the strategic level and approved in regard to their impact on the following Matters of National Environmental Significance:

- World Heritage Properties
- National Heritage Places
- Wetlands of International Importance
- Listed threatened species and communities
- Listed migratory species

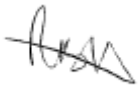
These decisions indicate that the Commonwealth is satisfied that the conservation and development outcomes that will be achieved through the Western Sydney Growth Centres Program will satisfy their requirements for environmental protection under the EPBC Act. Provided that development activity proceeds in accordance with the Growth Centres requirements (such as the Biodiversity Certification Order, the Growth Centres SEPP and DCPs, Growth Centres Development Code etc.) there is no requirement to assess the impact of development activities on Matters of National Environmental Significance within the Growth Centres and no requirement for referral of activities to the Commonwealth Department of Environment.

The site is therefore exempt from further assessment of threatened species and endangered ecological communities listed under the NSW BC Act or Commonwealth EPBC Act.

Where habitat for native fauna is to be removed such as hollow-bearing trees or dams, the works should be done in such a manner that minimises the risk of risk of injury or death to native fauna. For this site we would recommend undertaking tree removal with the supervision of a qualified ecologist or fauna spotter/catcher to ensure fauna is relocated in an appropriate manner and that appropriate measures are taken to minimise fauna injury or death.

Should you have any questions on this matter, please contact me on (02) 9259 3745.

Regards,



Rebecca Ben-haim
Environmental Consultant

Appendix A Figures

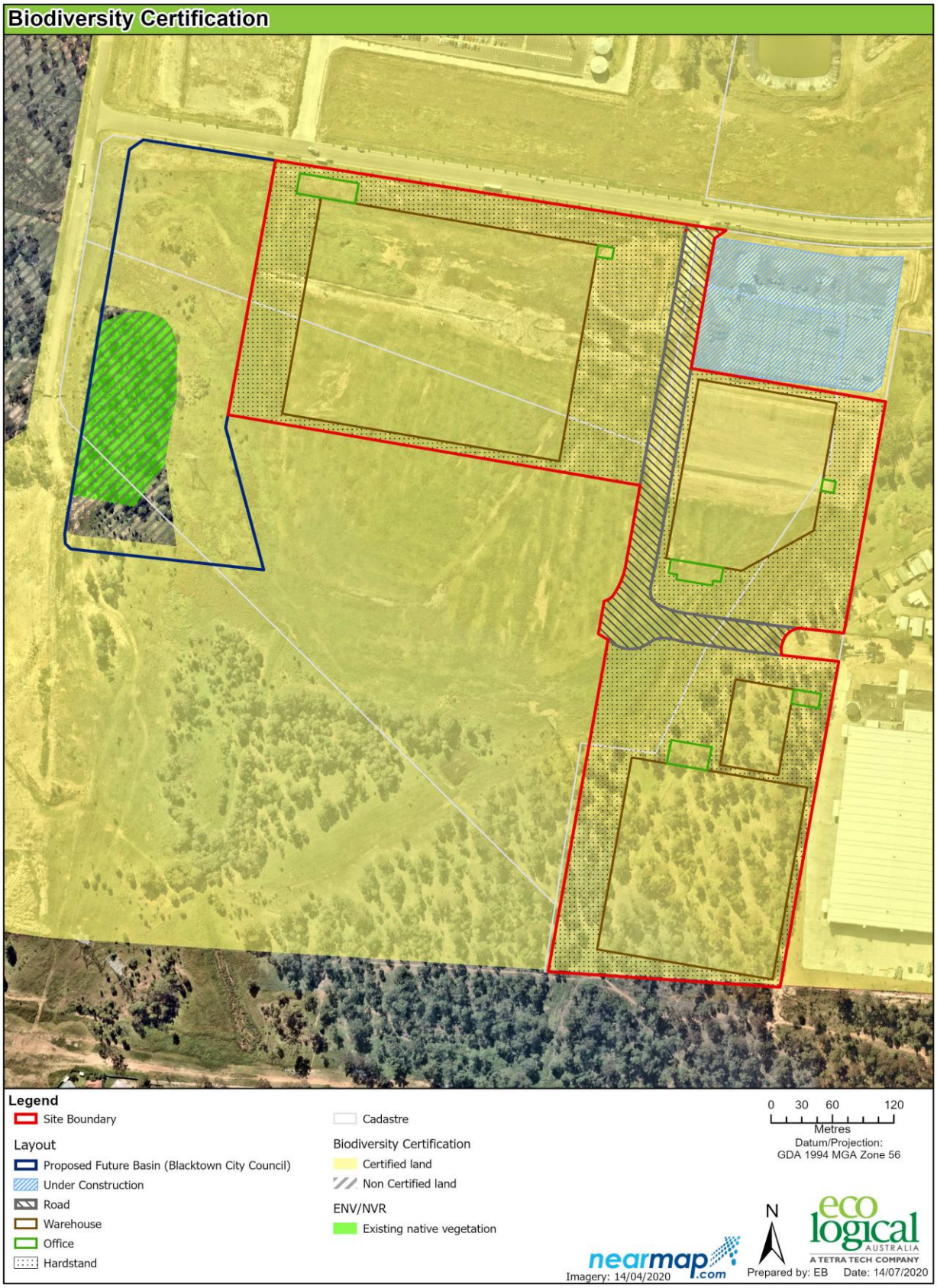


Figure 1 Biodiversity Certified Land and mapped Existing Native Vegetation in relation to the development area

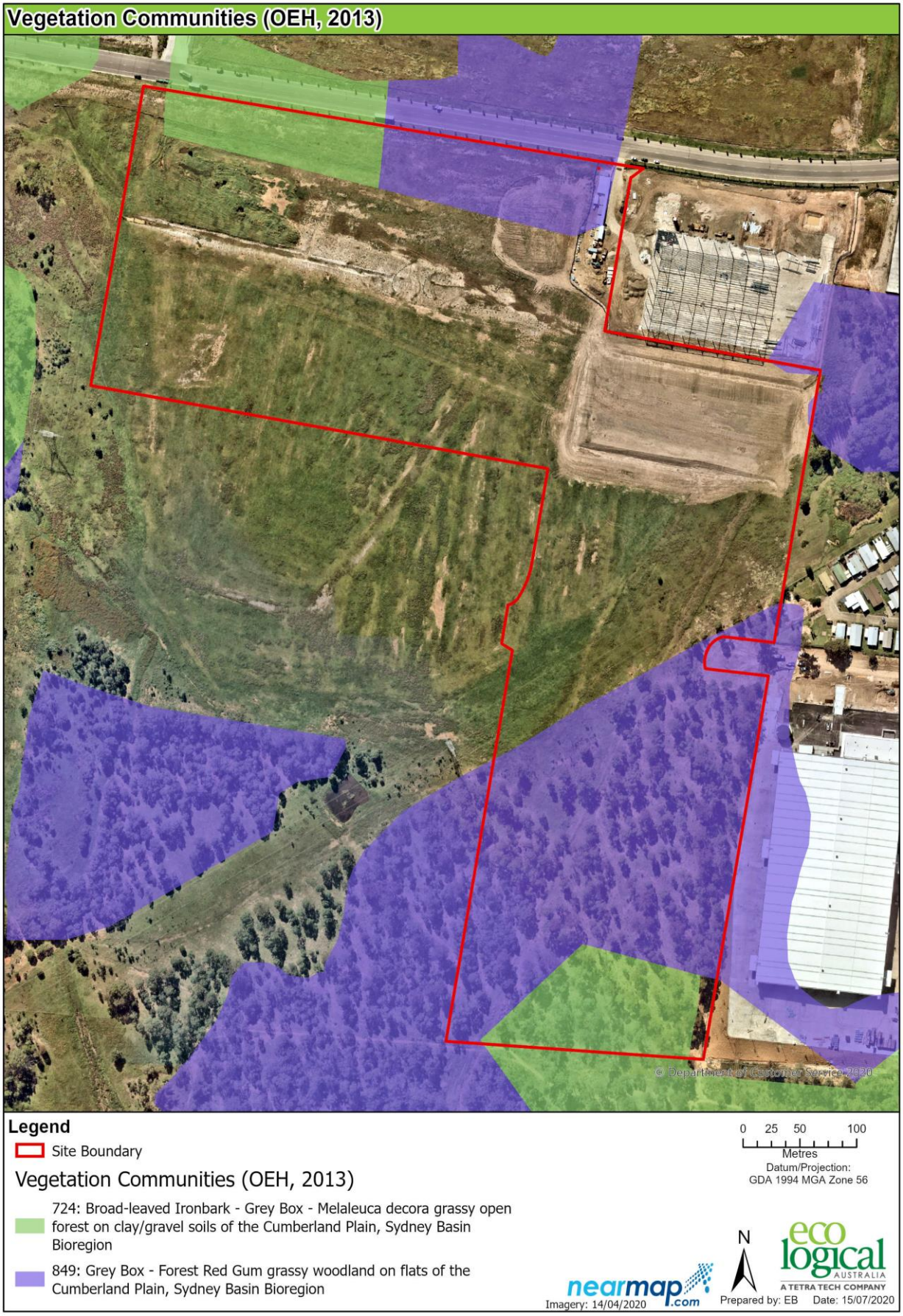


Figure 2: Previously mapped vegetation communities within the study are (OEH, 2013)

Figure 3: Previously recorded threatened fauna species within a 5 km buffer of the study area (BioNet)

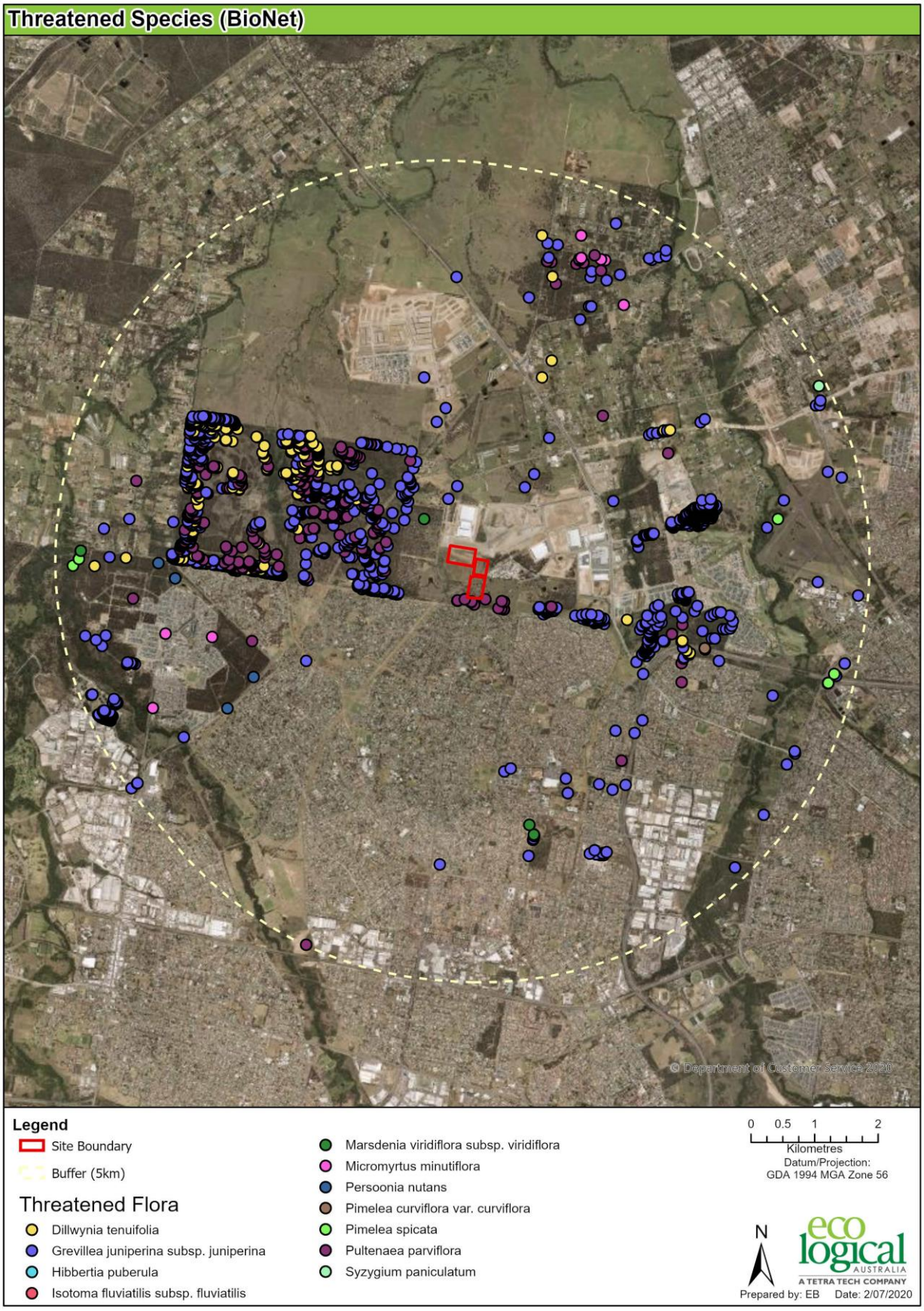


Figure 4: Previously recorded threatened flora species within 5 km of the study area (BioNet)

Appendix B BDAR Waiver

Table 2 Criteria to assess biodiversity under the BC Act and BC Regulation

Biodiversity Value	Meaning	Relevant	Discussion of values within subject site
			Biodiversity Conservation Regulation (Clause 1.4)
a) Threatened Species Abundance	The occurrence and abundance of threatened species or threatened ecological communities, or their habitat, at a particular site.	Yes	Although there is existing threatened ecological communities present within the site (Figure 2), being Cumberland Plain Woodland, which is critically endangered under both the BC Act and EPBC Act and Shale Gravel Transition Forest, which is endangered under the BC Act and critically endangered under the EPBC Act, the entire development site is biodiversity certified. Section 8.4(2) of the BC Act describes the effect of biodiversity certification in relation to development under Part 4 of EP&A Act. This section states '*an assessment of the likely impact on biodiversity of development on biodiversity certified land is not required for the purposes of Part 4 of the EP&A Act 1979*'. One portion of the wider study area, west of the development site, is not biodiversity certified and is also mapped as ENV. No works are proposed within this area. It is the understanding of the proponent that Blacktown City Council are currently undertaking studies to design a regional stormwater basin within this area, as outlined within the ILP. No threatened species have previously been recorded within the study area. However, there is a population of *Pultenaea parviflora* directly south of the study area (Figure 4), which is endangered under the BC Act and vulnerable under the EPBC Act. The proposed development is not anticipated to impact on this species. Furthermore, the large patch of non-biodiversity certified vegetation to the west of the study area will be protected.
b) Vegetation Abundance	The occurrence and abundance of vegetation at a particular site.	Yes	Although the vegetation within the subject site is of relatively high abundance and biodiversity quality, the entirety of the development site is biodiversity certified. Areas within the wider study area to the west of the development site, that are not biodiversity certified, are not proposed to be impacted by the proponent and are intended to be protected and managed through the requirements of the Sydney Region Growth Centres SEPP. Furthermore, the patches of vegetation to the west and directly south of the study area, which are not biodiversity certified, are intended to be protected.
c) Habitat Connectivity	The degree to which a particular site connects different areas of habitat of threatened species to	N/A	Although the vegetation within the subject site is connected to a larger patch directly south of the study area, the vegetation proposed to be impacted is wholly biodiversity certified. There still remains existing vegetation between the two remnant patches to the west and south of the study area, which would be currently utilised by threatened species.

Biodiversity Value	Meaning	Relevant	Discussion of values within subject site
	facilitate movement of those species across their range.		Section 8.4(2) of the BC Act describes the effect of biodiversity certification in relation to development under Part 4 of EP&A Act. This section states '*an assessment of the likely impact on biodiversity of development on biodiversity certified land is not required for the purposes of Part 4 of the EP&A Act 1979*'.
d) Threatened Species Movement	The degree to which a particular site contributes to the movement of threatened species to maintain their lifecycle.	N/A	The site contains remnant threatened ecological communities, which would provide habitat for the movement of threatened species. However, the majority of the study area is biodiversity certified. No areas of non-biodiversity certified land are proposed to be impacted by the proponent.
e) Flight Path Integrity	The degree to which the flight paths of protected animals over a particular site are free from interference.	N/A	The site contains remnant threatened ecological communities, which would provide habitat for the movement of threatened species. However, the entirety of the development site is biodiversity certified. No areas of non-biodiversity certified land are proposed to be impacted by the proponent.
f) Water Sustainability	The degree to which water quality, water bodies and hydrological processes sustain threatened species and threatened ecological communities at a particular site.	N/A	No natural water courses are present within the site. In its current state, the site does not contain water bodies or contribute to hydrological processes that sustain threatened species or ecological communities within or adjacent to the site.
			Biodiversity Conservation Act (Clause 1.5 (2))
a) Vegetation Integrity	The degree to which the composition, structure and function of vegetation at a particular site and the surrounding landscape has been altered from a near natural state.	N/A	Although there is existing threatened ecological communities present within the site (Figure 2), being Cumberland Plain Woodland and Shale Gravel Transition Forest, the entire development site is biodiversity certified. Section 8.4(2) of the BC Act describes the effect of biodiversity certification in relation to development under Part 4 of EP&A Act. This section states '*an assessment of the likely impact on biodiversity of development on biodiversity certified land is not required for the purposes of Part 4 of the EP&A Act 1979*'.
b) Habitat Suitability	The degree to which the habitat needs of threatened species are present at the particular site.	N/A	The study area is likely to provide suitable habitat for threatened species however, the proposed development is within biodiversity certified land. Section 8.4(2) of the BC Act describes the effect of biodiversity certification in relation to development under Part 4 of EP&A Act. This section states '*an assessment of the likely impact on biodiversity of development on biodiversity certified land is not required for the purposes of Part 4 of the EP&A Act 1979*'.

Level 3
101 Sussex Street
Sydney NSW 2000
t: (02) 9259 3800

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Within the wider study area, there is an area to the west of the development, which is not biodiversity certified. The proposal does not involve disturbance to this area. Therefore, there will be no impacts to biodiversity values in the non-certified land.

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Within land that is in a **Riparian Protection Area** as shown on the figure in the relevant Precinct Schedule: • all existing native vegetation is to be retained and rehabilitated, except where clearing is required for essential infrastructure such as roads; and • native vegetation is to be conserved and managed in accordance with the Riparian Protection Area controls at **Appendix B**.	The development site is not within land that is mapped as a Riparian Protection Area. Therefore, this clause does not apply.
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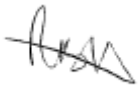

Rebecca Ben-haim
Environmental Consultant

Appendix A Figures

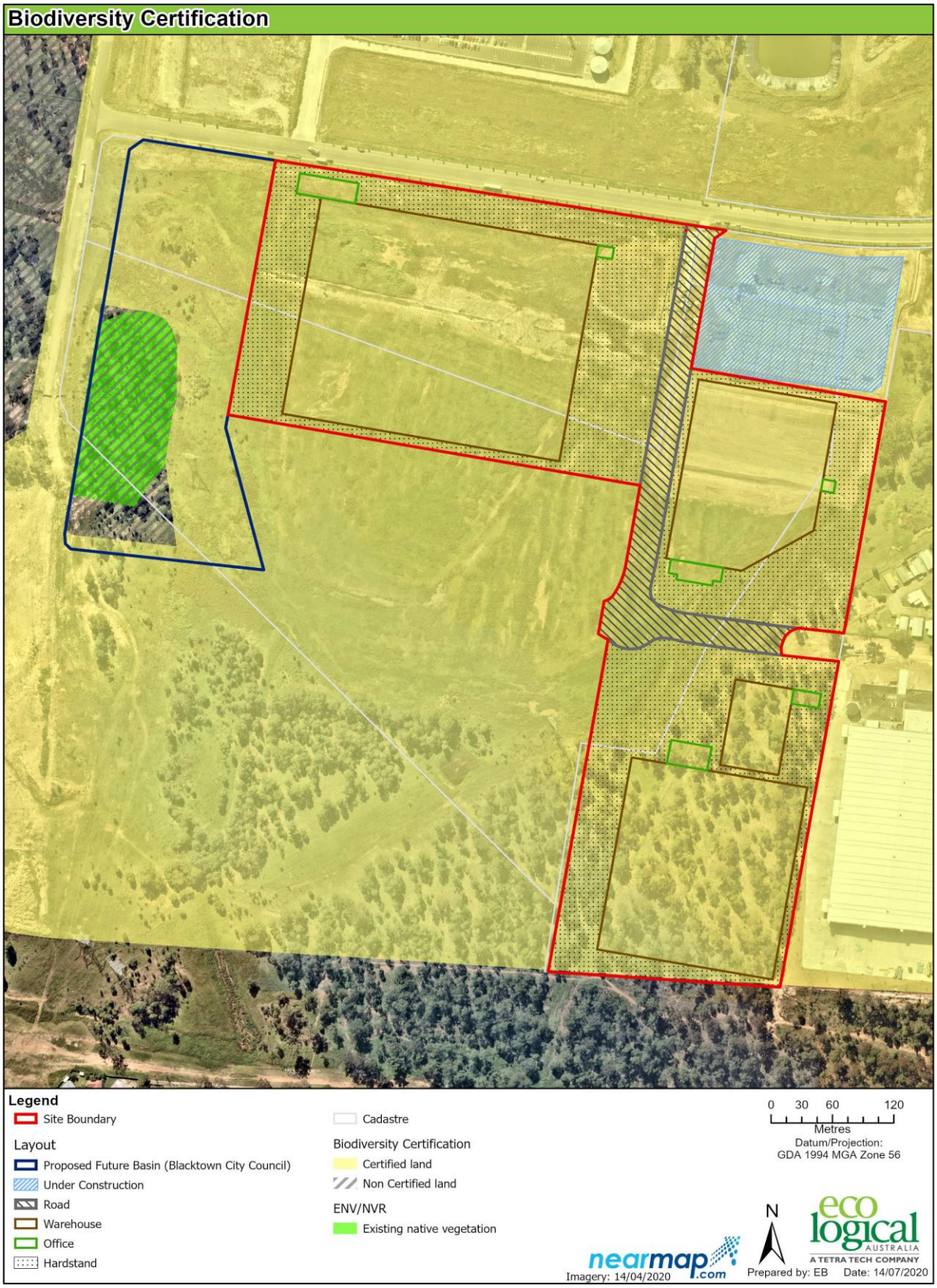

Figure 1 Biodiversity Certified Land and mapped Existing Native Vegetation in relation to the development area

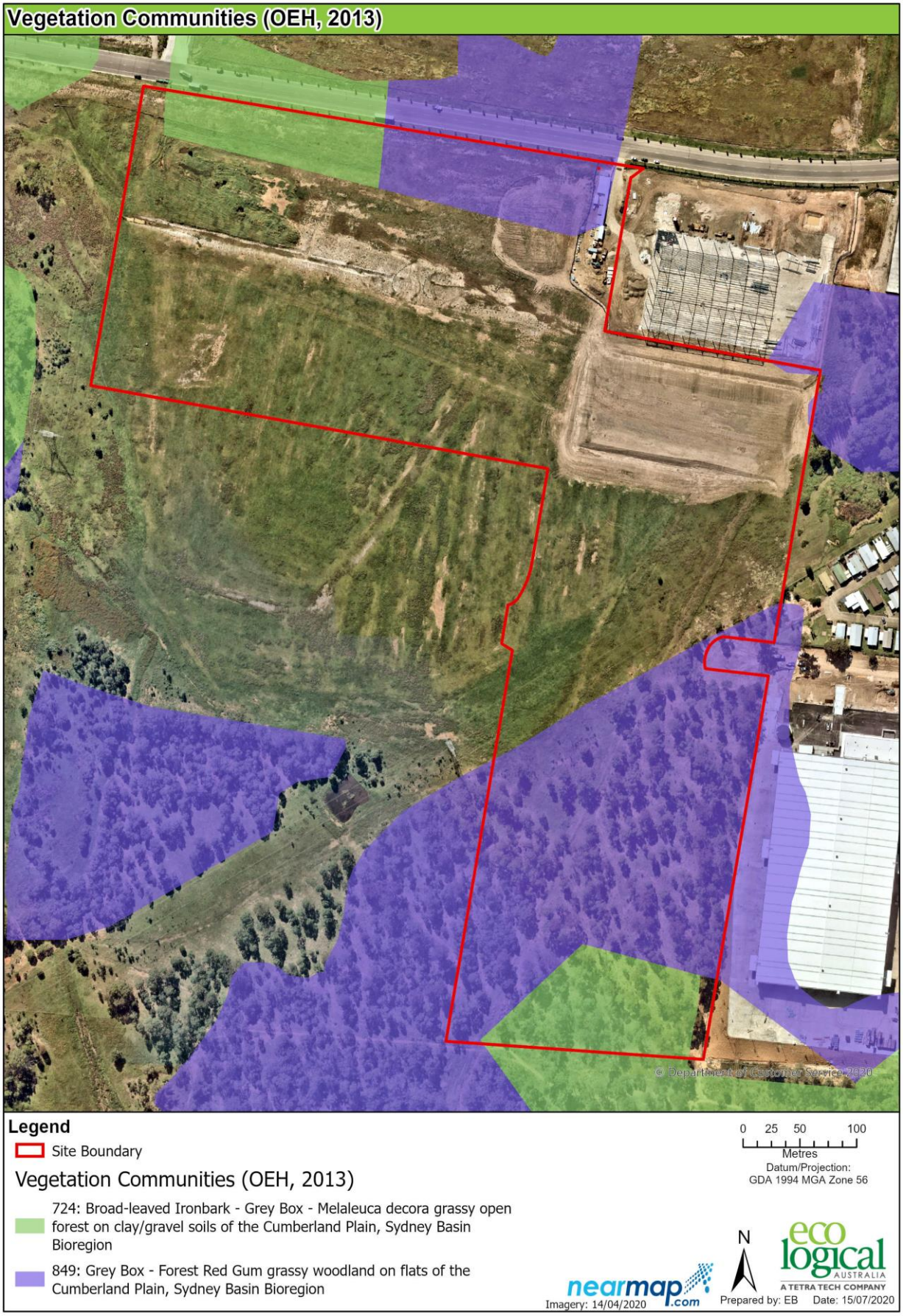

Figure 2: Previously mapped vegetation communities within the study are (OEH, 2013)

Figure 3: Previously recorded threatened fauna species within a 5 km buffer of the study area (BioNet)

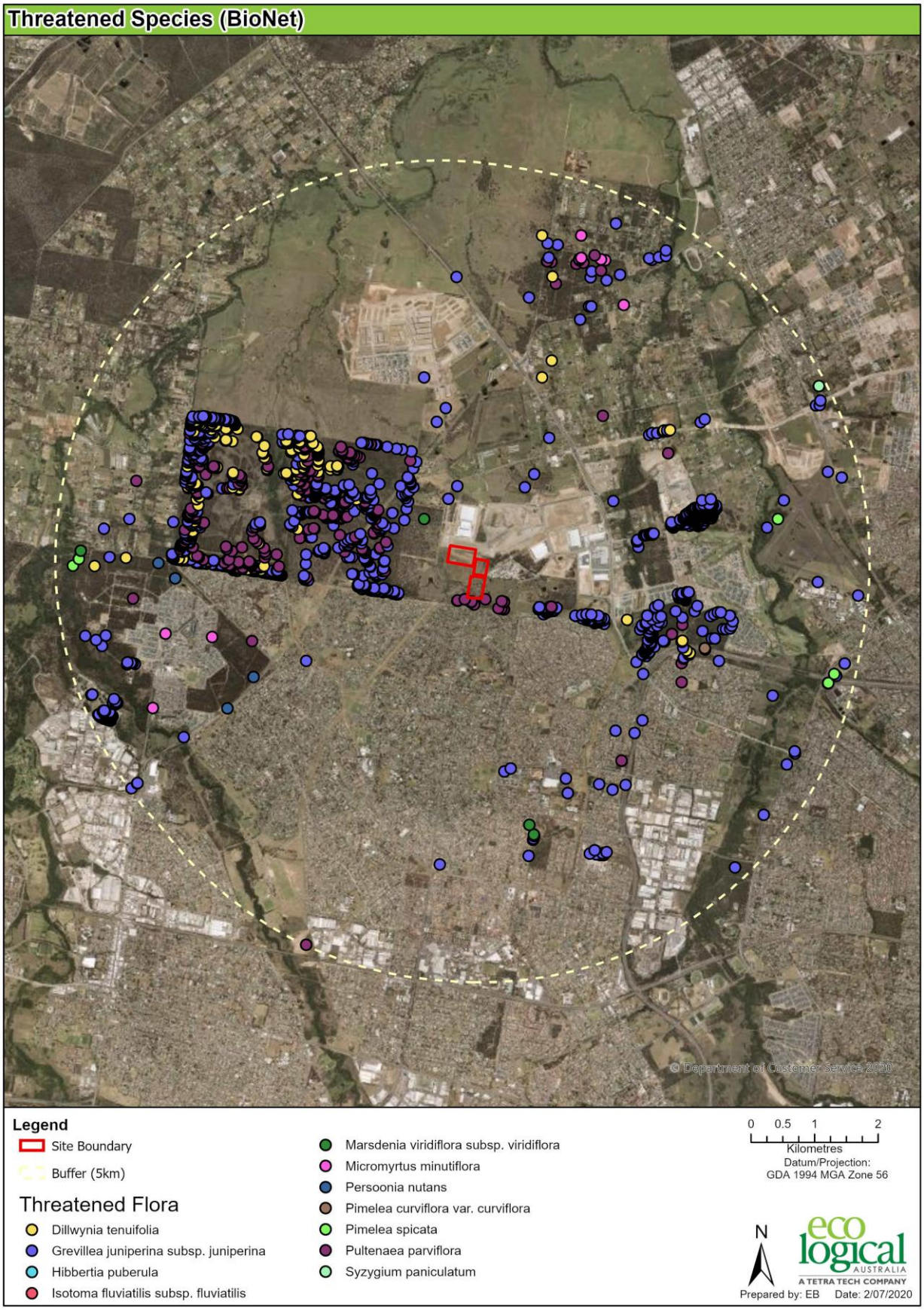

Figure 4: Previously recorded threatened flora species within 5 km of the study area (BioNet)

Appendix B BDAR Waiver

Table 2 Criteria to assess biodiversity under the BC Act and BC Regulation

Biodiversity Value	Meaning	Relevant	Discussion of values within subject site
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Biodiversity Value	Meaning	Relevant	Discussion of values within subject site
	facilitate movement of those species across their range.		Section 8.4(2) of the BC Act describes the effect of biodiversity certification in relation to development under Part 4 of EP&A Act. This section states '*an assessment of the likely impact on biodiversity of development on biodiversity certified land is not required for the purposes of Part 4 of the EP&A Act 1979*'.
d) Threatened Species Movement	The degree to which a particular site contributes to the movement of threatened species to maintain their lifecycle.	N/A	The site contains remnant threatened ecological communities, which would provide habitat for the movement of threatened species. However, the majority of the study area is biodiversity certified. No areas of non-biodiversity certified land are proposed to be impacted by the proponent.
e) Flight Path Integrity	The degree to which the flight paths of protected animals over a particular site are free from interference.	N/A	The site contains remnant threatened ecological communities, which would provide habitat for the movement of threatened species. However, the entirety of the development site is biodiversity certified. No areas of non-biodiversity certified land are proposed to be impacted by the proponent.
f) Water Sustainability	The degree to which water quality, water bodies and hydrological processes sustain threatened species and threatened ecological communities at a particular site.	N/A	No natural water courses are present within the site. In its current state, the site does not contain water bodies or contribute to hydrological processes that sustain threatened species or ecological communities within or adjacent to the site.
			Biodiversity Conservation Act (Clause 1.5 (2))
a) Vegetation Integrity	The degree to which the composition, structure and function of vegetation at a particular site and the surrounding landscape has been altered from a near natural state.	N/A	Although there is existing threatened ecological communities present within the site (Figure 2), being Cumberland Plain Woodland and Shale Gravel Transition Forest, the entire development site is biodiversity certified. Section 8.4(2) of the BC Act describes the effect of biodiversity certification in relation to development under Part 4 of EP&A Act. This section states '*an assessment of the likely impact on biodiversity of development on biodiversity certified land is not required for the purposes of Part 4 of the EP&A Act 1979*'.
b) Habitat Suitability	The degree to which the habitat needs of threatened species are present at the particular site.	N/A	The study area is likely to provide suitable habitat for threatened species however, the proposed development is within biodiversity certified land. Section 8.4(2) of the BC Act describes the effect of biodiversity certification in relation to development under Part 4 of EP&A Act. This section states '*an assessment of the likely impact on biodiversity of development on biodiversity certified land is not required for the purposes of Part 4 of the EP&A Act 1979*'.