Lot 109 Astra Aerolab Stage 1 – Validation Report

1 Williamtown Drive, Williamtown, NSW

NEW23P-0005-AA 30 January 2023





Document control record

Document prepared for:

Greater Newcastle Aerotropolis 1 Williamtown Drive Williamtown NSW 2318

by:

Qualtest Laboratory (NSW) Pty Ltd ABN 98 153 268 896 2 Murray Dwyer Circuit Mayfield West, NSW 2304

T 02 4968 4468

W www.qualtest.com.au

Document Control							
rt Title	Lot 109 Astra Aerolab Stage 1 - Validation Report						
ment ID	NEW23P-0005-A	ιA					
Project Astra Aerolab Stage 1 1 Williamtown Drive, Williamtown NSW							
Date	Revision details/status	Prepared by	Author	Reviewer			
30 January 2023	Original	Qualtest	E. Coleman	L. Fox			
	rt Title ment ID ct Date	rt Title Lot 109 Astra Ae ment ID NEW23P-0005-A Astra Aerolab S 1 Williamtown E Revision details/status	rt Title Lot 109 Astra Aerolab Stage 1 - Y ment ID NEW23P-0005-AA Astra Aerolab Stage 1 1 Williamtown Drive, Williamtown Date Revision details/status Prepared by	rt Title Lot 109 Astra Aerolab Stage 1 - Validation Repo ment ID NEW23P-0005-AA Astra Aerolab Stage 1 1 Williamtown Drive, Williamtown NSW Prepared by Author			

Executive Summary

Qualtest Laboratory NSW Pty Ltd (Qualtest) has carried out a Validation Report for Lot 109 of Astra Aerolab Stage 1 located off Williamtown Drive, Williamtown NSW (the site).

Lot 109 (the site) comprises a 23,857m² portion of the Stage 1 Astra Aerolab subdivision. The site is proposed to be developed for commercial/industrial purposes.

Douglas Partners Pty Ltd (DP) carried out a Preliminary Site Investigation, and subsequently prepared a Remediation Action Plan, for the larger Astra Aerolab Stage 1 site:

- DP (2019) Preliminary Site Investigation (PSI), ref: 39728.20.R.002.Rev0, dated 3 October 2019; and.
- DP (2019) Remediation Action Plan (RAP), ref: 39728.20.R.004.Rev0, dated 5 November 2019.

The PSI identified that contamination could be present in surface soils associated with opportunistic dumping, including the dumping of building materials and cars. The PSI also identified that the site is located within the Primary Management Zone of the NSW Williamtown Management Area, and therefore could contain soil, surface water and groundwater contaminated with Per- and Poly-Fluoroalkyl Substances (PFAS). The RAP provided the remediation strategy (including further assessment in some areas) and validation programme for the site.

Earthworks were completed by KCE and Daracon Group between 2019 and 2021, and the earthworks contractors (or their sub-contractors) were responsible for implementing the RAP (i.e. completing remediation and validation activities).

A Development Application (DA) was submitted to Port Stephens Council (Council) for development of Lot 109, and Council requested a validation report to demonstrate that the site was remediated and validated in accordance with the RAP (DP, 2019b).

The objectives of the report are to:

- Assess whether the remediation strategy and validation programme outlined in the RAP (DP, 2019b) would render the site suitable for the proposed development (commercial/industrial land use);
- Assess whether remediation and validation activities were carried out in accordance with the RAP (DP, 2019b); and,
- Assess whether the site is suitable for the proposed development.

In order to achieve the above objective, Qualtest carried out the following scope:

- Review of relevant sections for Lot 109 of the previous DP report PSI (2019a) and RAP (2019b);
- Review of works and assessments completed in Lot 109 by KCE and Daracon (or their subcontractors);
- Data assessment and preparation of this Validation Report.

Qualtest reviewed the Preliminary Site Investigation (PSI) report (DP, 2019a), and the Remediation Acton Plan (RAP) (DP, 2019b) to assess whether the PSI was adequate to characterise the site from a contamination perspective, and whether the remediation strategy and validation programme outlined in the RAP (DP, 2019b) would render the site suitable for the proposed development (commercial/industrial land use).

Qualtest note that, initially Lot 109 was not characterised with respect to contamination prior to commencement of works, and limited sampling and analysis of soil, surface water and groundwater was completed. To compensate, the RAP outlined additional assessment to be

carried out during earthworks on the site and provided remediation measures where/if contamination was identified.

In addition to the review of previous reports by others, Qualtest compiled and reviewed the documentation provided by GNAPL, Daracon and KCE (or their sub-contractors). This documentation was collected during earthworks and subdivision construction for the site (Lot 109).

Based on the review and assessment, Qualtest conclude that the works were carried out in general accordance with the RAP (DP, 2019a). The minor discrepancies and missing documentation (eg waste dockets) are not considered significant as volumes were minor < 3 tonnes).

The site is considered suitable, with respect to contamination, for the proposed light industrial / commercial development, provided that groundwater is not planned to be intersected during construction.

It is noted that groundwater on the site is impacted by PFAS from the RAAF Base Williamtown. PFAS contamination in the region is managed under the RAAF Base Williamtown, PFAS Management Area Plan (PMAP) (AECOM, 2019). The management measures in the PMAP (or future versions of the PMAP) will be relevant to users of the site.

If construction works for buildings/structures on the site are likely to intercept groundwater, a site-specific management plan for protection of construction workers should be developed

This report was prepared in general accordance with the relevant sections of the NSW EPA (2020) Guidelines for Consultants Reporting on Contaminated Land and the National Environment Protection (Assessment of Site Contamination) Measure 1999 (April 2013), NEPC 2013, Canberra (referred to as ASC NEPM 2013).

Table of Contents:

1.0		Introduction	3
	1.1	Background	3
	1.2	Objectives	3
	1.3	Scope of Works	4
2.0		Site Description	4
	2.1	Site Identification	4
	2.2	Topography and Drainage	5
	2.3	Regional Geology	5
	2.4	Hydrogeology	5
	2.5	Acid Sulfate Soils	5
3.0		Previous Reports	5
	3.1	DP (2019a) Preliminary Site Investigation	5
	3.2	DP (2019b) Remediation Action Plan	18
	3.3	DP (2019c) Geotechnical Investigation	23
	3.4	AECOM (2021) Sewage Treatment Plant Lagoons – Remediation Considerations (DRAFT Rev B)	24
	3.5	Appendix I - Illegal Dumping	25
	3.6	Williamtown RAAF Base PFAS Assessments	26
4.0		Works Completed by KCE	28
5.0		Works Completed by Daracon	29
	5.1	Valley Civilab (2020) PFAS Investigation, Astra Aerolab Stage 1	33
	5.2	Qualtest (2020) Assessment of Stockpiled Material	33
	5.3	Qualtest (2020) Level 1 Re-Grade Assessment Report	33
	5.4	EP Risk (2021) Asbestos Clearance Certificate (ACC01) – Hen Peck W Area	
6.0		Current Site Observations	34
7.0		RAP Requirements and Works Completed	36
8.0		Conceptual Site Model	38
9.0		Conclusions	41
10.0		Limitations	41
8.0		References	43

Attachments:

Appendix A - Figures: Figure 1 - Site Location Plan

Figure 2 – Site Prior to Works Commencing

Figure 3 – Extract from DP PSI (2019) Showing Site Features for Lot 109

Figure 4 – Extract from DP PSI (2019) Showing Groundwater Well

Locations

Figure 5 – Extract from DP Geotechnical Report (2019) Showing

Borehole/Test Pit Locations

Figure 6 – Waste Materials Onsite Prior to KE Works Commencing

Figure 7 – Site After Completion of KCE Works

Figure 8 – Valley Civilab Sampling Locations

Figure 9 – Site After Completion of Daracon Works

Appendix B: Waste Dockets and Imported Material Dockets

Appendix C: Daracon Documentation

1.0 Introduction

Qualtest Laboratory NSW Pty Ltd (Qualtest) has carried out a Validation Report for Lot 109 of Astra Aerolab Stage 1 located off Williamtown Drive, Williamtown NSW (the site). Figure 1, Appendix A, shows the site location.

Lot 109 (the site) comprises a 23,857m² portion of the Stage 1 Astra Aerolab subdivision. The site is proposed to be developed for commercial/industrial purposes.

This report comprises a validation report by Qualtest, based on information provided by Greater Newcastle Aerotropolis Pty Ltd (GNAPL), and states whether the site is suitable for the proposed development from a contamination perspective. It should be understood that Qualtest were not present during remediation and site earthworks and cannot verify the information provided.

This report was prepared in general accordance with the relevant sections of the NSW EPA (2020) Guidelines for Consultants Reporting on Contaminated Land and the *National Environment Protection* (Assessment of Site Contamination) Measure 1999 (April 2013), NEPC 2013, Canberra (referred to as ASC NEPM 2013).

1.1 Background

Douglas Partners Pty Ltd (DP) carried out a Preliminary Site Investigation (PSI), and subsequently prepared a Remediation Action Plan (RAP), for the larger Astra Aerolab Stage 1 site:

- DP (2019) Preliminary Site Investigation (PSI), ref: 39728.20.R.002.Rev0, dated 3 October 2019; and,
- DP (2019) Remediation Action Plan (RAP), ref: 39728.20.R.004.Rev0, dated 5 November 2019.

The DP (2019) PSI identified that contamination could be present in surface soils associated with opportunistic dumping, including the dumping of building materials and cars. The PSI also identified that the site was located within the Primary Management Zone of the NSW Williamtown Management Area, and therefore could contain soil, surface water and groundwater contaminated with Per- and Poly-Fluoroalkyl Substances (PFAS). The DP (2019) RAP provided a remediation strategy (including further assessment in some areas) and validation programme for the site. Further information on the previous reports by DP is provided in Section 2 below.

Earthworks were completed by KCE and Daracon Group between 2019 and 2021, and the earthworks contractors (or their sub-contractors) were responsible for implementing the RAP (i.e. completing remediation and validation activities).

A Development Application (DA) was submitted to Port Stephens Council (Council) for development of Lot 109, and Council requested a validation report to demonstrate that the site was remediated and validated in accordance with the RAP (DP, 2019b).

1.2 Objectives

The objectives of the report are to:

- Assess whether the remediation strategy and validation programme outlined in the RAP (DP, 2019b) would render the site suitable for the proposed development (commercial/industrial land use);
- Assess whether remediation and validation activities were carried out in accordance with the RAP (DP, 2019b); and,
- Assess whether the site is suitable for the proposed development.

1.3 Scope of Works

In order to achieve the above objective, Qualtest carried out the following scope:

- Review of relevant sections for Lot 109 of the previous DP report PSI (2019a) and RAP (2019b);
- Review of works and assessments completed in Lot 109 by KCE and Daracon (or their subcontractors);
- Data assessment and preparation of this Validation Report.

2.0 Site Description

2.1 Site Identification

General site information is provided below in Table 2.1. The site location is shown in Figure 1, Appendix A.

Table 2.1: Summary of Site Details

Site Address:	38 Cabbage Tree Road, Williamtown					
Approximate site area and dimensions:	Approx. 23,860m ² Approx. 160m wide by 140m long at the longest and widest points.					
Title Identification Details:	The site is part of Lot 11 DP 1036501 within the Port Stephens local government area					
Current Zoning	B7 Business Park					
Current Ownership:	Greater Newcastle Aerotropolis Pty Ltd					
Previous and Current Landuse:	Former sand quarry Vacant land					
Proposed Landuse:	Light industrial and commercial					
Adjoining Site Uses:	Newcastle Airport and RAAF Base to the north. Rural-residential properties to the south. Bushland and former sand quarry to the west. Former sand quarry to the east.					
Site Coordinates for approx. centre of site:	32°48'33.17 \$ 151°50'12.27 E					

2.2 Topography and Drainage

Reference to the NSW Land and Property Information Spatial Information Exchange website (https://six.nsw.gov.au/wps/portal/) indicated the elevation of the site is less than 10m AHD.

Rain falling on the site would be expected to infiltrate into the site surface. Excess surface water is expected to follow surface topography and flow into municipal storm water drains located to the north (Road 1 on subdivision plans). The storm water likely discharges to Dawsons Drain, located 1.1m south-west of the site. Dawsons Drain discharges to Fullerton Cove located approximately 2.4km south-west of the site.

2.3 Regional Geology

Reference to the 1:100,000 Newcastle Coalfield Regional Geology map indicates that the site is underlain by Quaternary aged dune sands.

2.4 Hydrogeology

Groundwater beneath the site is anticipated to be present in an unconfined aquifer and located within 2m below ground surface (bgs).

Groundwater flow direction is anticipated to flow to the south south-west, and discharge to Dawson Drain located 1.1km south-west of the site, and Fullerton Cove located approximately 2.4km south-west of the site.

It should be noted that groundwater conditions can vary due to rainfall and other influences including regional groundwater flow, temperature, permeability, recharge areas, surface condition, and subsoil drainage.

A search of the NSW Department of Primary Industries (Office of Water) registered groundwater bores located within a 500m radius of the site was undertaken. The search revealed that there were no registered groundwater bores within this radius.

2.5 Acid Sulfate Soils

Reference to the Acid Sulfate Soil online database from State of NSW and Department of Planning, Industry and Environment, 2021 (espade.environment.nsw.gov.au) indicates that the site is located in of "low probability of acid sulfate soils at depths greater than 3.0m of the ground surface, in an Aeolian sandplain at an elevation of >4m AHD.

The NSW Planning Portal (https://www.planningportal.nsw.gov.au/spatialviewer/) shows that the site is mapped as Class 4 Acid Sulfate Soils. The definition for Class 4 ASS provided in the Port Stephens Local Environmental Planning Policy (LEP) is Acid sulfate soils in a class 4 area are likely to be found beyond 2 metres below the natural ground surface.

3.0 Previous Reports

3.1 DP (2019a) Preliminary Site Investigation

DP carried out a Preliminary Site Investigation (PSI) for the larger Stage 1 subdivision site. In the PSI report, DP noted that a number of previous assessments, including a previous preliminary contamination assessment (DP, 2009), had been completed for the site (by DP). The purpose of the DP (2019) PSI was to review the existing site conditions against those previously described in DP (2009), and provide an updated PSI. A summary of the relevant information for Lot 109 from the PSI is provided below.

Site History Review

Council Records Search

In 2009, Section 149 (now Section 10.7) Planning Certificates for the site were reviewed by DP, and indicated that the site had no matters arising under the Contaminated Land Management Act 1997.

No previous Building Applications or Development Applications were recorded for the site (in 2009).

Section 10.7 planning certificates were provided to DP by the client for Lot 11 DP 1036501. DP stated that the Section 10.7 Certificate indicated the following:

- Lot 11 is currently zoned B7 (business park), RU2 (rural landscape), and SP2 (infrastructure);
- The land does not include any residential dwelling identified on the loose-fill asbestos register;
- There are no prescribed matters under section 52(2) of the Contaminated Land Management Act 1997 disclosed;
- The land is within the Williamtown RAAF Based PFAS Management area.

Historical Titles

The historical titles search indicated that the site (Lot 109) was owned by the Sansom family, who were farmers, from 1900 to 1989/1993. From 1989/1993 to 2019 the site was owned by B & M Ellison Pty Ltd. Newcastle Airport Pty Ltd took control of the site in 2019.

Interview with Site Owner

DP stated the following for the interview:

"Brief discussions were held with Mr Barrie Ellison in 2009 as part of the previous preliminary contamination assessment report. Mr Ellison had owned the majority of the Stage 1 Astra Aerolab site (Lot 11 DP 1036501) and other surrounding lots for over 30 years. The following information was collected:

- The larger 2009 investigation area (which include Lot 11) [and current site, Lot 109] had historically been used for cattle grazing. There were no grazing activities being undertaken on Mr Ellison's properties at the time of the 2009 report;
- Quarrying of sand materials was undertaken on Lot 11, with the sand used at the adjacent RAAF base; Qualtest note the quarrying may have been undertaken on Lot 109;
- The sand quarrying was undertaken by Mr Ellison's own company;
- Mr Ellison was not aware of any soil materials that had been imported to his properties;
- Mr Ellison was not aware of any buildings or infrastructure built on Lot 11 as part of sand quarrying works.

It is understood that the area of previous sand quarrying activities is located within the Stage 1 Astra Aerolab limits."

Aerial Photographs

DP (2009) carried out a review of historical aerial photographs for the site from 1954, 1966, 1975, 1984 and 1998. In 2019, DP reviewed photographs from 2005 and 2018. No copies of the photographs reviewed were provided. The DP photograph descriptions are re-produced

below, noting they are for the larger Stage 1 subdivision site. A description of Lot 109 for each photograph has been added by Qualtest.

Date	DP (2019) Description	Qualtest Description of Lot 109
1954	The northern-western and central-northern portions of the 2009 investigation area appear to be mainly covered with vegetation, however some small rectangular clearings are evident;	Lot 109 is vegetated with grass and sparse trees.
	There appears to be some roads / tracks to the north of the investigation area;	
	Infrastructure including roads and some small buildings, likely to be associated with the Williamtown Airport / tarmac appear to be established to the north-east of the investigation area;	
	A possible small creek / drainage channel is evident to the south east of the investigation area;	
	There are a number of houses and grazing properties to the south and east of the investigation area, along Cabbage Tree Road and Nelson Bay Road respectively.	
1966	Similar to 1954 photo although land along the southern boundary of the 2009 investigation area appears to have been further cleared.	Lot 109 is mostly cleared. A drainage channel or effluent treatment area is present north of Lot 109, in the same/similar location to the current effluent treatment pond. It is possible that the cleared area on Lot 109 is being used to stockpiled soils from excavation of the drain/pond.
1975	Similar to 1966 photo.	1976 photograph available.
		Lot 109 is similar to the 1966 photograph, sparse vegetation is regrowing in the cleared area.
		The effluent pond to the north has been further developed.
1984	Similar to previous photos although there appears to be further development of the Williamtown Airport (and associated infrastructure) including the effluent ponds	Lot 109 is similar to the 1976 photograph, grass has regrown in the cleared area, with some trees.
	which extend into the Stage 1 Astra Aerolab limits from the north-eastern boundary.	The effluent pond to the north has been further developed.

Date	DP (2019) Description	Qualtest Description of Lot 109
1998	Similar to 1984 photo although a sand quarry is evident in the centre of the investigation area (understood to be	Lot 109 has been cleared, and a gravel access track has been constructed across the north-east portion of Lot 109.
	within Stage 1 Astra Aerolab limits).	The southern portion of Lot 109 is grassed, and there appears to be a drain running in an west-east direction near the southern boundary of Lot 109.
2005 to 2018	A review of available google earth and nearmap aerial images between about 2005 and 2018 indicates that there has been very little change to the Stage 1 Astra Aerolab site condition, with the following exceptions: • The sand quarrying activity discussed by Mr Ellison in DP (2009) is evident in an aerial photo of the site dated June 2010; • The sand quarrying activities are no longer evident in an aerial photo dated November 2010. A stockpile of soil is visible in the general area of the previous sand quarrying activity; • The same stockpile is still evident in photos dated July 2014 and February 2019, however now includes some vegetation cover; • The waste water pumping station that is now located immediately north of the Astra Aerolab Stage 1 development was constructed around late 2013 / early 2014; • Possible construction activity is evident along the access track from Cabbage Tree Road, with small buildings (possible site sheds) present at the northern end of the access track on several dates in late 2013 to early 2014. This activity corresponds with construction activity at the waste water pumping station site, hence is considered likely to be associated with the construction of a rising main from Cabbage Tree Road to the waste water pumping station.	2005 – the site is largely cleared, with an access track crossing the north-eastern boundary. The southern boundary and south-eastern corner are vegetation with grass and trees. A drainage channel is present near the southern boundary of the site. August 2018 – the site is largely vegetated with grasses, shrubs and trees. The access track is present in the north-east corner. An area of disturbed/cleared land is still present in the central-western portion.

NSW WorkCover Dangerous Goods / SafeWork NSW Storage of Hazardous Chemicals

DP requested a search of licences to keep dangerous goods by WorkCover NSW in 2009. The search indicated that WorkCover NSW did not locate records pertaining to the site.

DP applied to SafeWork NSW requesting information on Storage of Hazardous Chemicals for the site. The search indicated that no records are held by SafeWork NSW indicating the storage of hazardous chemicals on the site.

Contaminated Land Register

No statutory notices under the Contaminated Land Management Act 1997 were identified for the site or adjacent land.

DP carried out a search of the NSW EPA list of sites that have been notified to the EPA, which revealed that 38 Cabbage Tree Road, Williamtown had been notified for "Hunter Land Effluent Pond", and that Regulation under the CLM Act was not required. DP assumed that this related to the effluent ponds located in the northern part of the larger Stage 1 subdivision. Qualtest note the effluent pond was not located on Lot 109.

PFAS

"The site is located within the NSW EPA Williamtown Primary Management Zone for PFAS contamination, where PFAS (per- and poly-fluoroalkyl substances) is an emerging contaminant and research is still being undertaken to understand their long-term effects. PFAS is particularly persistent in groundwater. The RAAF Williamtown base, to the north of the site, is generally accepted to be the source of the PFAS contamination locally. The Primary Management Zone has significantly higher levels of PFAS detected and therefore, the "strongest advice from the EPA applies". This will require that construction and long term site use consider and manage risks of exposure to PFAS contaminated soil and groundwater."

Site Observations

The summary of site observations provided by DP is re-produced below, with comments by Qualtest on whether they are relevant to Lot 109. It is noted that the Figures (photographs) referred to were included in the DP (2019a) report. The photographs that are relevant to Lot 109 have been included below.

"The following site observations were made during within the Stage 1 Astra Aerolab project area during the walkover in June 2019:

- Several sand dunes were evident, with the main dune located to the north of the access track from Cabbage Tree Road. Qualtest note, sand dunes were present on Lot 109;
- A large vegetated sand dune in the eastern portion of the site (Precinct 12), is understood
 to be an Aboriginal Site, and was fenced off and inaccessible at the time of the current
 walkover. A burned out car body could be seen within the fenced off area (Figure 1). A
 comparison photo of the dune area from the 2009 report is included in Figure 2. Qualtest
 note this was not located on Lot 109;
- A gravel track accesses the waste water pumping station, located to the north of the site, from Williamtown Drive (Figure 8); Qualtest note this was not located on Lot 109
- A gravel track passes through the central part site in a generally south-east to north-westerly direction; The track surface is generally gravelly and comprises coal reject / carbonaceous siltstone (Figures 13 and 29). Qualtest note this access track crossed Lot 109 in the north-eastern corner. Photograph 2 below (Figure 13 from DP, 2019a) shows the access track near Lot 109;

- Areas around open drains were more heavily vegetated, with access difficult, particularly on the northern side of the main sand dune, and to the south of the southern east-draining open drain (refer Figures 9, 11 and 30). Qualtest note a drain is present in the southern portion of Lot 109. Based on the aerial image it appeared to be less heavily vegetated than other drains on the larger Stage 1 subdivision site.
- A mound / stockpile of probable filling was observed to the north-west of the main sand dune (refer Figure 19). This is considered to be the stockpile that is evident in the general vicinity of the former quarry activities, as discussed in Section 6, above. Qualtest note this was not located on Lot 109;
- Areas of localised scattered rubbish were present on the site, with the rubbish including building materials (timber, metal, concrete rubble, fibro, tiles etc), a small stockpile of remnant asphalt and household rubbish (eg high chair, television, mattress, cans, bottles etc). The scattered rubbish was likely to have been from opportunistic dumping. In some areas, upper stockpile material has been placed which obscures underlying materials from inspection (refer Figures 16, 17, and 20 to 28). Qualtest note a small stockpile of rubbish was located on Lot 109, which was shown in Figure 24 from DP (2019a), and is re-produced as Photograph 2 below. The photograph shows household rubbish (a fishing tackle box, fishing net, cardboard, plastic or fabric, and a metal/electronic item, possibly a type of bike).
- Other localised stockpiles were noted, generally in close proximity to the access track
 including coal reject and carbonaceous siltstone (refer Figure 5). Qualtest note this was not
 located on Lot 109, to the best of our knowledge;
- A small gravel pad / hardstand had been constructed off Williamtown Drive, to the east of the site. Qualtest note this was not located on Lot 109;
- Standing surface water was observed in a number of low-lying parts of the site, particularly
 in areas of more dense vegetation. Qualtest note there may have been surface water
 present in the southern portion of Lot 109;
- The waste water pumping station was observed to the north of the Stage 1 Astra Aerolab site (Figure 8). Qualtest note this was not located on Lot 109;
- Several burned out cars were observed across the site (refer Figures 1 and 12). Qualtest note this was not located on Lot 109;
- Effluent ponds associated with the RAAF Base waste water treatment works are present in the north-eastern corner of the lot. While a close inspection of the ponds was not undertaken during the current works, DP (2009) reported that the ponds appeared to be unlined at that time (Figure 7). Qualtest note this was not located on Lot 109;
- A stockpile of asphalt fragments was observed in the central part of the site (refer to Figure 14 and Figure 15). A sample of the asphalt was collected for laboratory testing purposes."



Figure 10: Localised Sand dune feature in south-west part of Stage 1 (2019)

Photo 1 – Looking from the north-west corner of Lot 109 towards the south-east.



Figure 13: Unsealed track with coal reject / carbonaceous siltstone (2019)

Photo 2 – Looking from east of Lot 109 towards the eastern boundary of Lot 109, showing gravel access track.



Figure 24: Household rubbish (2019)

Photo 3 - Looking from the north-east corner of Lot 109 towards the south-east.

Potential Contaminants

DP assessed the principal sources of potential contamination, based on the site history and site observations. These are re-produced below with comments on whether they are relevant to Lot 109.

- "Fill materials on unpaved tracks within the Stage 1 area and in fill stockpiles (source unknown) which may contain a range of contaminants including hydrocarbons, heavy metals, PAHs, pesticides, PCBs, asbestos etc; Qualtest note these are not located on Lot 109;
- Stockpile of remnant asphalt which may contain elevated PAHs, hydrocarbons, heavy metals and coal tar; Qualtest note this is not located on Lot 109;
- Effluent ponds located in the north-eastern portion of the site, which may be a source of elevated nutrient, heavy metal, hydrocarbon and microbiological concentrations in soil, surface water and groundwater; Qualtest note these are not located on Lot 109;
- Localised dumped rubbish / anthropogenic materials. Some of the anthropogenic materials observed are indicative of potential hazardous building materials (HBM) which can include ACM; Qualtest note a small stockpile of household rubbish was located in the north-east portion of Lot 109;
- Dumped / burned car bodies, which can be a source of TRH, BTEX, heavy metals, asbestos and acids. Burning of materials can indicate areas of potential elevated PAHs and heavy metals, depending on what may have been burned; Qualtest note these are not located on Lot 109;
- PFAS contamination in soil, surface water and groundwater, due to the site being located within the NSW EPA Williamtown Primary Management Zone. Qualtest note PFAS contamination affects a large area, including Lot 109;

A sample of the material from the remnant asphalt stockpile, indicated approximately as location \$1 on Drawing 1 in Appendix C, was sent to the laboratory to test for the presence of coal tar. The results of the testing are provided in Appendix B. The results indicate the absence of coal tar in the sample tested." Qualtest note the asphalt fragments were not located on Lot 109;

Limited Groundwater Sampling & Analysis

DP installed and sampled four wells (1101, 1102, 1103, 1105) on the larger Stage 1 subdivision site in 2019. None of the wells were located on Lot 109, however they provide information on groundwater quality in the area and considered to have relevance to Lot 109. The wells were located up-gradient and down-gradient of Lot 109. The location of the wells is shown on Figure 4, Appendix A.

The groundwater samples were analysed for:

- pH;
- Electrical conductivity (EC);
- Chlorides and Sulfates;
- Total Recoverable Hydrocarbons (TRH);
- Benzene, Toluene, Ethylbenzene and Xylenes (BTEX);
- Polycyclic Aromatic Hydrocarbons (PAHs);
- Organochlorine Pesticides and Organophosphorous Pesticides (OCPs/OPPs);
- Phenolics;
- Metals (arsenic, cadmium, chromium, copper, lead, mercury, nickel and zinc); and,
- Per- and poly-fluoroalkyl substances (PFAS).

DP compared the analytical results to:

- ANZG (2018) Australian and New Zealand Guidelines for Fresh and Marine Water Quality;
- NEPC (2013) National Environment Protection (Assessment of Site Contamination) Measure 1999 (as amended 2013) [for petroleum hydrocarbons via the vapour intrusion exposure pathway depth top groundwater 2 to <4 m, soil type sand and commercial industrial land use]; and
- HEPA (2018) PFAS National Environmental Management Plan. Qualtest note this was superceded by HEPA (January 2020) PFAS National Environmental Management Plan, Version 2.0.

The results showed:

- Concentrations of TRH, BTEX, PAH, OCP, OPP, and phenols were below the laboratory reporting limits, with the exception of detectable concentrations of PAHs in Sample 1101;
- Concentrations of chromium, copper, nickel and zinc exceeded the Default Guideline Values (DGVs) in ANZG (2018) for protection of 95% of species in aquatic ecosystems;
- Concentrations of fluorooctane sulfonate, perfluorooctane sulfonic acid (PFOS),
 perfluorooctanoate, perfluorooctanoic acid (PFOA) and perfluorohexane sulfonate,
 perfluorohexane sulfonic acid (PFHxS) exceeded the screening levels in HEPA (2018). PFOA
 was below the adopted criteria for protection of freshwater aquatic ecosystems. PFOS was
 above the adopted criteria for protection of freshwater aquatic ecosystems.

Conceptual Site Model

DP developed a Conceptual Site Model for the larger Stage 1 subdivision site. This has been re-produced below, with an additional column added for whether the known and potential contamination source is relevant to Lot 109.

Table 1 – Conceptual Site Model (DP, 2019a)

Known and	Primary	Secondary Release	Potential	Contaminants		1 -	l -	· · · · · · · · · · · · · · · · · · ·		Relevant to Lot
Potential Primary Sources	Release Mechanism	Mechanism	Impacted Media	of Concern	Pathway	Current	Future	109		
Localised dumped rubbish observed across the site	Placement of filling and opportunistic dumping on the site	Long-term leaching/transport of contaminants via runoff, rain water infiltration / percolation, crushing / weathering of bonded cement fragments (if present)	Soil, groundwater, surface water	TRH, BTEX, PAH, metals, pesticides, PCB, asbestos, coal tar	contact, inhalation (dust / consultants, vapours), ingestion surface water bodies, groundwater neighbouring residents / businesses in the case of	maintenance workers, consultants, trespassers, surface water bodies, groundwater, neighbouring residents / businesses in the case of	maintenance workers, consultants, trespassers, surface water bodies, groundwater, neighbouring residents / businesses in the case of	maintenance workers, consultants, trespassers, surface water bodies, groundwater, neighbouring residents / businesses in the case of	Potential site users, residences, site workers, maintenance workers, construction workers, consultants, trespassers, surface water bodies,	The dumped household waste observed on Lot 109 by DP (2019a) is considered unlikely to cause contamination, based on the type of waste observed.
Filling (unknown source)	Access tracks / Stockpiles	Long-term leaching/transport of contaminants via runoff, rainwater infiltration / percolation, crushing / weathering of bonded cement fragments (if present)	Soil, groundwater, surface water	TRH, BTEX, PAH, metals, pesticides, PCB, asbestos	Dermal contact, inhalation (dust / vapours), ingestion		groundwater	Likely relevant to Lot 109, given cleared areas visible in aerial photographs.		

Known and	Primary	Secondary Release	Potential	Contaminants	Exposure	Potential Receptors		Relevant to Lot
Potential Primary Sources	Release Mechanism	Mechanism	Impacted Media	of Concern	Pathway	Current	Future	107
Pesticides	Application of pesticides during previous agricultural landuse, and possible storage of chemicals	Long-term leaching/transport of contaminants via runoff, rain water infiltration / percolation	Soil, groundwater, surface water	Pesticides, including DDT, heavy metals, hydrocarbons	Dermal contact, inhalation (dust / vapours), ingestion			If pesticides were used, and are present, would be relevant to Lot 109.
Hazardous Building materials	Demolition of structures	Trafficking and weathering of hazardous materials including bonded cement products	Soil, surface water, groundwater	Asbestos, Lead, PCB	Dermal contact, inhalation (dust / vapours), irrigation			Based on available information, not relevant to Lot 109.

Known and	Primary	Secondary Release	Potential	Contaminants	Exposure	Potential Recep	otors	Relevant to Lot
Potential Primary Sources	Release Mechanism	Mechanism	Impacted Media	of Concern	Pathway	Current	Future	109
Adjacent landuse - Newcastle Airport - RAAF Base - Service Station - Effluent Wastewater Treatment Plant	Placement of filling, opportunistic dumping, spills and leaks from tanks / bowsers, use of firefighting foam. Off-site migration / leaching / transport of contaminants	Long-term leaching/transport of contaminants via runoff, rain water infiltration / percolation, groundwater migration, crushing / weathering of bonded cement fragments (if present)	Soil, groundwater, surface water	TRH, BTEX, PAH, metals, pesticides, PCB, asbestos, Nutrients, biological, PFAS	Dermal contact, inhalation (dust / vapours), ingestion	Site workers, maintenance workers, consultants, trespassers, surface water bodies, groundwater, neighbouring residents / businesses in the case of groundwater migration	Potential site users, residences, site workers, maintenance workers, construction workers, consultants, trespassers, surface water bodies, groundwater	PFAS contamination from airport and RAAF Base relevant to Lot 109. Potential contamination from service station and effluent wastewater treatment plant not relevant to Lot 109.
Effluent Ponds	Spills and leaks from ponds	Long-term leaching/transport of contaminants via runoff, rain water infiltration / percolation, groundwater migration	Soil, groundwater, surface water	TRH, BTEX, PAH, metals, pesticides, PCB, asbestos, Nutrients, biological, PFAS	Dermal contact, inhalation (dust / vapours), ingestion			Whilst not located on Lot 109, could cause impact to Lot 109 given proximity (~80m).

Conclusions and Recommendations

DP (2019a) concluded that the PSI indicated "a general absence of gross contamination across the site, with the exception of PFAS contamination, particularly in groundwater, which is known to be a regional issue.

Sources of potential contamination were generally limited to localised imported filling, rubbish stockpiles, the presence of fibro fragments possibly containing asbestos, localised impact under burned car bodies, and possible impacts in the vicinity of the effluent ponds." It is noted that no car bodies were located on Lot 109 at the time of the DP assessment (2019), and the effluent ponds are located about 80m to the north of Lot 109.

"The PFAS contamination is expected to be more widespread, and should be assumed could impact the soil, surface water and groundwater within the greater Stage 1 project area."

DP provided more detailed information on known and potential contamination including exposure pathways, and remediation and management measures. As these are repeated in the RAP (DP, 2019b), see summary in Section 3.2 below), they are not re-produced here.

DP (2019a) recommended:

"The site is considered to be suitable for the proposed light industrial / business park development from a contamination perspective, provided that the potential localised contamination is assessed, remediated and validated in accordance with a site specific RAP, which contains an unexpected finds protocol (UFP). Site development should also account for the long term management of PFAS impacted soil, surface water and groundwater. Consideration of short-term management of PFAS impacted soil, surface water and groundwater will also be required during construction for the protection of workers.

Non-PFAS contamination could be expected in near-surface soils associated with localised opportunistic dumping, including the dumping of building materials (including ACM) and burned out cars. Validation testing should be undertaken where these impacted materials are removed.

PFAS contamination is likely to be present in surface water and groundwater, and could also be present in soil. Development of the site should be undertaken with reference to a construction environmental management plan. Long term operation of the site should be undertaken with reference to a long term site management plan. While there is some data available regarding PFAS concentration in surface water and groundwater in the local area, assessment of PFAS contaminant levels in soil should be undertaken so that the risk of exposure to PFAS within the site soils is better understood.

Site development will also need to be undertaken with reference to an acid sulfate soil management plan."

3.2 DP (2019b) Remediation Action Plan

DP prepared a Remediation Action Plan (RAP) for the larger Stage 1 subdivision site.

The RAP provided the "clean-up objectives, remediation acceptance criteria (RAC), principles, methods and procedures" to remediate and validate the site, such that it is suitable for the proposed light industrial / commercial development.

At the time of preparing the RAP, DP understood the development comprised earthworks for the subdivision construction, construction of roads, drainage and other utilities, with "significant areas of the site ... filled to raise site elevations above flood level. Some localised areas of sand dune formations will be cut to bring those areas of the site to grade."

The DP (2019b) RAP also included a summary of a report by AECOM in 2012 for the sewage treatment plant effluent lagoon, which is located about 80m north of Lot 109.

The DP (2019b) RAP summary of the findings of the AECOM (2012) report are re-produced below:

- "The site [Lagoon] was used as an evaporation lagoon which receives treated effluent discharged from the Sewerage Treatment Plant;
- The majority of contaminant concentrations in soil were within the adopted site assessment criteria with the exception one soil sample with elevated vanadium concentrations. Some elevated concentrations of aluminium, iron, silver, mercury, PAH and faecal coliforms were also noted in soil;
- Groundwater concentrations were generally within the adopted site assessment criteria with the exception of some heavy metals, nitrate, total phosphorus and PFOS;
- The report recommended additional groundwater assessment to assess the potential of migration from upgradient impacts (i.e. RAAF), potential migration of impacts from the subject site [Lagoon] along with assessment of pond sediments and surface water."

The areas requiring remediation, the remediation strategy, and validation programme outlined in the RAP have been summarised below.

Remediation of Asbestos Affected Soils

The proposed remediation strategy was to identify and remove localised asbestos contamination from the surface and near-surface soils.

The proposed scope of remediation and validation for asbestos impacted soils was:

- DP (or other qualified consultant) to identify and peg locations identified to contain asbestos (i.e. areas of identified opportunistic dumping, fill, fill stockpiles etc);
- Contractor to progressively excavate soils/materials from affected area under full-time guidance by DP (or other qualified consultant);
- Contaminated material excavated/chased until visual evidence indicates the absence such materials;
- DP (or other qualified consultant) to classify soil prior to disposal;
- Licensed contractor to load classified materials directly into appropriate trucks for transport and disposal to a licensed waste facility;
- DP (or other qualified consultant) to observe and advise on the excavation/segregation of soils containing asbestos;
- DP (or other qualified consultant) to validate area:
 - The stripped surface should be observed to confirm the asbestos of visible asbestos materials:
 - Validation samples for asbestos would be collected:
 - From a systematic grid (with a minimum density of 10m by 10m) over the stripped surface, with a minimum of two samples per stripped area;
 - A higher sampling frequency may be required subject to the abundance of bonded asbestos materials observed;

- Validation testing would comprise in-situ sieving/screening for potential asbestos containing materials, plus collection of samples for laboratory testing of asbestos;
- Laboratory asbestos analysis would be conducted by a NATA registered laboratory.
- Validation samples were to be collected from the surface following removal of temporary stockpiles of asbestos impacted materials.

If validation results exceed the RAC, further excavation/stripping would be required, followed by additional validation sampling and analysis.

Remediation of Hydrocarbon and Heavy Metal Impacted Soils

Potential hydrocarbon and heavy metal contamination was expected to localised in areas of car bodies, and potentially associated with other dumped waste materials.

The proposed remediation strategy was to conduct testing on the potentially impacted soils, and if required, remove the localised source/affected fill to a licensed waste facility.

The following procedures were recommended for assessment of areas with potential hydrocarbon and heavy metals contaminated soils:

- Contractor to remove the car bodies, waste materials, upper fill;
- Contamination consultant to observe the footprint of the area to assess for visual or olfactory indicators of contamination.

If the assessment identified impact, the following procedures for remediation were proposed:

- Contractor to progressively excavate affected soils from affected areas under full-time guidance of contamination consultant;
- Excavated/chase contaminated material until visual evidence indicates the absence of such materials;
- Waste classification of the materials by contamination consultant;
- Disposal of the materials to an appropriately licensed waste facility;
- Validate the area:
 - Observation of the stripped surface/excavation by a contamination consultant to confirm the visual absence of potentially contaminated fill/soils;
 - Validation samples for chemical testing would be collected at a sampling density of at least 10m by 10m grid over the stripped area, with a minimum of two samples per stripped area;
 - Chemical analysis of validation samples would be conducted by a NATA registered laboratory;
 - If required, validation samples should also be collected from the surface following removal of temporary stockpiles of impacted materials.

If validation results exceed the RAC, further excavation/stripping would be required, followed by additional validation sampling and analysis.

Assessment of Fill Stockpiles for Re-use or Disposal

The results of laboratory analysis would be utilised to confirm options for off-site disposal, or reuse at the site, as follows:

- Satisfies Remediation Action Criteria (RAC):
 - Re-use on site, subject to geotechnical suitability as engineered fill;
 - o Dispose off-site to a licensed landfill.
- Satisfies RAC and off-site re-use criteria:
 - Re-use on site, subject to geotechnical suitability as engineered fill;
 - o Dispose off-site to a licensed landfill;
 - o Re-use off-site, subject to geotechnical suitability and classification as VENM or ENM.
- Exceeds RAC but satisfies landfill disposal guidelines (NSW EPA, 2014):
 - o Dispose off-site to a licensed landfill.
- Exceeds RAC and exceeds landfill disposal guidelines:
 - Develop on-site remediation strategy (subject to regulatory approval);
 - Carry out appropriate immobilisation for off-site disposal to licensed landfill (subject to regulatory approvals).

Additional Investigation and Management of Potential PFAS-impacted Soils

At the time of preparing the RAP, DP understood that the site was proposed to be largely filled. The placement of fill, with the construction of buildings and pavements, would minimise the potential exposure pathway between PFAS-impacted soils and site users, following construction.

In areas where natural soils were exposed at or near the final surface (i.e. areas of cut, landscaped areas, areas adjacent to surface water bodies), the RAP required the following additional investigation, and management (if required):

- Near-surface soil sampling within the area of exposed soils, with sampling density in accordance with the NSW EPA (1995) Sampling Design Guidelines (which were current at the time of preparing and implementing the RAP);
- Analysis of near-surface soils for PFAS;
- Comparison of the PFAS concentrations with the RAC.
- If PFAS-impacted soils were identified, then the RAP provided two options for remediation/ management
- Option 1 Removal of impacted soils, followed by validation testing, including:
 - Waste classification of the soils requiring disposal;
 - Disposal of the classified soils to an appropriately licensed waste facility;
 - Observation of the stripped surface/excavation by a contamination consultant to confirm the visual absence of potentially contaminated fill/soils;
 - Validation samples for chemical testing would be collected at a sampling density of at least 10m by 10m grid over the excavated/stripped area, with a minimum of two samples per excavation/stripped area;

- Chemical analysis of validation samples would be conducted by a NATA registered laboratory;
- If required, validation samples should also be collected from the surface following removal of temporary stockpiles of impacted materials.
- Option 2 Management of via capping with "clean" soil, including:
 - Survey of the top of the PFAS-impacted soil;
 - Placement of a marker layer over the surface of the PFAS-impacted soil;
 - o Construct a cap with "clean" soil a minimum of 0.3m thick;
 - Survey to the top of the cap to demonstrate the thickness;
 - Preparation of a Long-Term Environmental Management Plan for the ongoing management of the impacted soil.

The RAP provided more detailed information on the validation and capping requirements, which have not been reproduced here.

DP also recommended that due to the diffuse nature of PFAS contamination at the site, a long-term environmental management plan be adopted for the whole site, "...noting that all natural soils are treated as PFAS-impacted unless otherwise assessed as a precautionary measure, and subject to additional site assessment.

In addition to the above, there is potential for groundwater and surface water interaction at the site, given the regional PFAS impact in groundwater. The following additional management measures are recommended to minimise the potential for interaction between site users and potential PFAS impacts:

- A restriction on the extraction and use of groundwater within the site (to be include as part of the EMP regulatory documents);
- Lining of constructed surface water bodies (e.g. stormwater basins, drains etc.) to minimise interaction of 'clean' stormwater and PFAS-impacted groundwater and possible contamination of surface water bodies."

Additional Investigation and Management of Fill

As detailed assessment was not previously completed, the DP 2019 RAP recommended the following for areas where fill was identified:

Subsurface sampling of fill,

- NSW EPA (1995) Sampling Design Guidelines (which were current at the time of preparing and implementing the RAP);
- Analysis of fill soils for a range of contaminants, as identified in the CSM (DP, 2019a);
- Comparison of the concentrations with the RAC.

If contaminated soils were identified, then the RAP provided the two options for remediation/management:

- Option 1 Removal of impacted soils, followed by validation testing, including:
 - Waste classification of the soils requiring disposal;
 - o Disposal of the classified soils to an appropriately licensed waste facility;

- Observation of the stripped surface/excavation by a contamination consultant to confirm the visual absence of potentially contaminated fill/soils;
- Validation samples for chemical testing would be collected at a sampling density of at least 10m by 10m grid over the excavated/stripped area, with a minimum of two samples per excavation/stripped area;
- Chemical analysis of validation samples would be conducted by a NATA registered laboratory;
- If required, validation samples should also be collected from the surface following removal of temporary stockpiles of contaminated materials.
- Option 2 Management of via capping with "clean" soil, including:
 - Survey of the top of the contaminated soil;
 - Placement of a marker layer over the surface of the contaminated soil;
 - Construct a cap with "clean" soil a minimum of 0.3m thick;
 - Survey to the top of the cap to demonstrate the thickness;
 - Preparation of a Long-Term Environmental Management Plan for the ongoing management of the contaminated soil.

The RAP provides more detailed information on the validation and capping requirements, which have not been reproduced here.

Investigation and Remediation of Effluent Pond

Department of Defence are responsible for the remediation/management of the effluent pond, and therefore the remediation requirements in the DP 2019 RAP for the effluent pond have been excluded from this report.

Further information regarding the potential for Lot 109 soils or groundwater to be contaminated by the pond are provided in Section 3.4 below.

Groundwater Monitoring

Department of Defence are responsible for the ongoing groundwater monitoring due to PFAS impacts and the effluent pond, and therefore the groundwater monitoring recommendations in the RAP have been excluded from this report.

3.3 DP (2019c) Geotechnical Investigation

DP carried out a Geotechnical Investigation for the larger Stage 1 subdivision site, ref: 39728.20.R.001.Rev1 dated 30 September 2019. In the report, DP note that a number of previous assessments were completed on or near the site (by DP), and data from those assessments was referred to in the DP (2019c) Report.

A review of the borehole and test pit logs in the DP (2019c) Report was carried out, and fill materials were identified in locations 2, 219, 307 and 1101. Of these locations, only 307 was located on the Stage 1 subdivision, and was located to the north of Lot 109. The boreholes and test pits for Lot 109 typically showed aeolian sands, and soft clays in the southern portion of Lot 109. Figure 5, Appendix A, shows the borehole locations, with the site (Lot 109) overlaid on the Figure.

The other information in the geotechnical investigation report is not considered relevant to contamination issues for the site, and is not re-produced here.

3.4 AECOM (2021) Sewage Treatment Plant Lagoons – Remediation Considerations (DRAFT Rev B)

AECOM prepared a response (ref: to the Department of Defence on current soil and water contamination status and the potential future remediation of the Effluent Lagoons associated with the RAAF Base Williamtown Sewage Treatment Plant (STP). The letter also addressed how remediation could impact the Newcastle Airport Pty Ltd (NAPL) proposed car parks.

The letter provided a summary relating to information AECOM gathered from historical and current environmental investigations associated with the U-Shaped Effluent Lagoon. The lagoon is located to the north of Stage 1 Astra Aerolab subdivision. The environmental investigations the letter was based on were not provided to Qualtest.

Lagoon Description

AECOM (2021) stated that treated effluent from the Sewage Treatment Plan (STP), located further north of the site) is directed to the U-Shaped Effluent Lagoon for storage and disposal via evaporation and infiltration. During peak flow periods treated water is directed to two overflow effluent lagoons, located to the north-east of the Stage 1 Astra Aerolab subdivision. The STP has been identified (by AECOM) as a primary PFAS source area in the PFAS management area.

The u-shaped lagoon was historically reported to be unlined. AECOM assessed that "The edge of the U-Shaped Lagoon is raised slightly around the perimeter, comprising grass overlying sandy soils and acts as a bund to contain water in the lagoon catchment, however overflow of the lagoon water would be expected to infiltrate these soils during increased flow/rainfall events." Recent investigations (by AECOM) indicated the base of the U-shaped effluent lagoon is below the groundwater level.

Contamination Summary

Remediation planning had not commenced for the STP infrastructure, lagoons network or the immediate surrounding land. AECOM stated that an investigation report for recently completed PFAS sampling was currently being drafted for Defence.

Soil and Sediment Results

Sampling of sediment was limited to 0.5m below the base of the lagoon and in surrounding soils up to 0.8m below the ground surface. AECOM considered that the sampling targeted the soil/sediment depth that would be directly impacted by STP effluent. These locations were located around the lagoon, and were not located on the Stage 1 Astra Aerolab subdivision site.

Elevated concentrations of chemicals of potential concern (apart from PFAS) were not reported for soil or sediment. Concentrations of PFAS (PFOS + PFHxS) were reported:

- In the soil immediately surrounding the lagoons, but at concentrations below the commercial/industrial land use criteria;
- Within the sediment under the lagoon. There was no criteria for PFAS in sediment.
 Comparison of sediment results to soil criteria showed concentrations below the commercial/industrial land use criteria; and,
- In groundwater above the drinking water guideline and recreational guidelines.

AECOM stated that leaching (ASLP) data indicated that the PFAS from the soil and sediment was likely to be an ongoing source to the underlying groundwater.

Based on the above, it is considered unlikely that soil on site would be impacted by PFAS contamination from the lagoon. Groundwater on site would be expected to contain PFOS + PFHxS above the drinking water guideline and recreational guideline.

Remediation Management [for Lagoons]

AECOM stated:

"Given that the concentrations of the chemicals of potential concern were not elevated above relevant criteria, the management of soil and sediment during future remedial works associated with the lagoons is unlikely to extend beyond the bunds of the lagoons.

AECOM considers that due to the presence of faecal coliforms and leachable concentrations of PFAS, the excavation would be limited to the sediment within the lagoons together with a portion of the bunding. The excavation depths are likely to extend to be between 0.5 and 0.8m in depth.

In areas where NAPL infrastructure (i.e. carpark or roadways) is present adjacent to the lagoons, sheet piling may need to be considered to minimise disturbance of the infrastructure, where slope battering may not be suitable.

Until such time as remediation of the Site [the lagoons] is progressed, preserving the structure of the U-Shaped Effluent Lagoon will be critical to ensure it continues to function as required. Similarly, preservation of an easement and/or laydown area at the southern end of the lagoons would be prudent to allow access for any future remediation (potentially including excavation and stockpiling) that may be required. Such an allowance of space should account for the anticipated volume of approximately 15,000m³ (bunding and sediment) that may be removed from the lagoon as part of future remediation.

The Groundwater Strategy Review is currently considering remediation options for the Base, however, the most likely forms of future groundwater remediation is unlikely to impact the proposed infrastructure surrounding the Site."

Based on the above, the remediation of the lagoon is unlikely to affect Lot 109, as the laydown area suggested by AECOM at the southern end of the lagoon is unlikely to be located on Lot 109. There is a potential that groundwater monitoring wells may be installed within Lot 109, presumably under agreement with GNAPL, and these would need to be accessed intermittently for monitoring.

3.5 Appendix I - Illegal Dumping

GNAPL provided a plan showing the location of waste materials on the Stage 1 subdivision areas, including Lot 109, titled "Appendix I – Illegal Dumping". It is not known who identified the waste materials, plotted the waste on the plan, or the date of the identification. It is inferred that the plan was provided as part of tender documents prior to commencement of early works.

The plan has been re-produced as Figure 6, Appendix A, with Lot 109 overlaid on the plan. For Lot 109, the plan shows the following waste materials:

• Designated No. 9, mattress and mixed waste, located in north-east portion of Lot 109.

3.6 Williamtown RAAF Base PFAS Assessments

The Williamtown RAAF Base and surrounds have been the subject of numerous investigations due to the occurrence of Per and Poly-FluoroAlkyl Substances (PFAS) contamination. The PFAS contamination has been identified across and beyond the RAAF Base boundaries, largely spread via groundwater and surface water.

Information is publicly available from the Australian Government Department of Defence – PFAS Investigation and Management Program, RAAF Base Williamtown website (https://www.defence.gov.au/environment/pfas/williamtown/Default.asp).

The website states: "In October 2018, Defence completed the detailed environmental investigation into per- and poly-fluoroalkyl substances (PFAS) on, and in the vicinity of, RAAF Base Williamtown. All findings from the investigation are available on the publications page including detailed reports and factsheets.

Defence is now focusing on management and remediation of PFAS contamination within the Management Area. The outcomes of the investigation have been used to develop a PFAS Management Area Plan (PMAP) that outlines the best management and remediation solutions for the unique circumstances at Williamtown."

Qualtest have carried out a review of the PMAP (ref: RAAF Base Williamtown, PFAS Management Area Plan, 27 May 2019 Revision 1). Information from the PMAP that is relevant to the site, is summarised below.

NSW EPA Management Area

The site is located within the NSW EPA Management Area. The NSW EPA Management Area is split into three zones. The three zones and institutional controls for each zone are summarised below:

- Primary Management Zone which includes the land immediately to the south of the RAAF Base. The institutional controls for the Primary Management Zone are: "Groundwater, bore water and surface water should NOT be used for any purpose. Additionally, do not do anything with groundwater, bore water or surface water (including in creeks and drains) that might lead to incidental ingestion (swallowing). Home grown foods produced in your area should NOT be consumed. This includes home-slaughtered meat, poultry, eggs, milk, fruit and vegetables."
- Secondary Management Zone which includes land immediately to the west and south of the Primary Management Zone, and extending east along Moors Drain. The institutional controls for the Secondary Management Zone are: "Do not use groundwater, bore water or surface water for drinking or cooking. Avoid swallowing groundwater or surface water when bathing, showering, swimming and paddling (including in creeks and drains). Groundwater and surface water should NOT be used for swimming or paddling pools. Avoid eating home grown food produced in your area – including home-slaughtered meat, eggs, milk, poultry, fruit and vegetables."; and,
- Broader Management Zone which surrounds the Secondary Management Zone and extends south along the eastern side of Fullerton Cove. The institutional controls for the Broader Management Zone are the same as the secondary management zone, see above.

The site is located within the Primary Management Zone.

Human Health Risk Zones

As part of a Human Health Risk Assessment completed by AECOM (2017) on behalf of the Department of Defence, four risk zones via exposure pathways to PFAS were identified:

- "Risk Zone A Defined as the Southern Area. The precautions recommended by the HHRA in Zone A generally correspond with those recommended by the NSW government for the NSW EPA Primary Management Zone.
- Risk Zone B Defined as the eastern boundary, runoff to Moors Drain. The precautions recommended by the HHRA in Zone B generally correspond with those recommended by the NSW government for the NSW EPA Secondary Management Zone.
- Risk Zone C Defined as that portion of the off-Base Management Area outside Zone A and Zone B and which corresponds with the surface water drainage network south of the Base, which predominately discharges to Fullerton Cove. The precautions recommended by the HHRA in Zone C generally correspond with those recommended by the NSW government for the NSW EPA Broader Management Zone.
- Risk Zone D- Defined as that portion of the off-Base Management Area outside Zone A, Zone
 B and Zone C which corresponds with the surface water drainage network south- east of
 the Base, which predominately discharged to Tilligerry Creek. The precautions
 recommended by the HHRA in Zone D generally correspond with those recommended by
 the NSW government for the NSW EPA Broader Management Zone."

The site is located within Risk Zone A.

Ecological Risk Zones

As part of an Ecological Risk Assessment completed by AECOM (2018), six ecological risk zones were identified based on exposure pathways to PFAS:

- "Area A Encompasses the area to the west and south of the RAAF Base and Newcastle Airport and north of Cabbage Tree Road;
- Area B Encompasses the area from the east boundary of the RAAF Base and Newcastle Airport to the eastern extent of the NSW EPA Management Area and north of Nelson Bay Road;
- Area C1 Encompasses the area west of Nelson Bay Road, and south of Cabbage Tree Road. Area C1 contains the southern section of Dawsons Drain, the western portions of Fourteen Foot Drain and Ten Foot Drain and the Fullerton Cove Ring Drain;
- Area C2 Encompasses the area south and east of Nelson Bay Road and contains the
 eastern sections of Fourteen Foot Drain and Ten Foot Drain as well as the freshwater reaches
 of Tilligerry Creek;
- Area D Encompasses the Hunter Wetlands National Park which includes Fullerton Cover, the Tomago Wetlands (including the restoration area), the Kooragang Wetlands and the southern reaches of the Hunter River (excluding the southern portion of Kooragang Island); and
- Area E Encompasses the estuarine area of Tilligerry Creek to Lemon Tree Passage."

The site is located within Assessment Area A. The identified exposure pathways with potential elevated or unacceptable ecological risks are shown below:

• "Ingestion of environmental media (Areas A, B, C1, E);

- Bioaccumulation of PFAS into aquatic organisms (Areas A, B, Ca, C2, E);
- Bioaccumulation of PFAS into terrestrial organisms (Areas A, B, C1, C2);
- Bioaccumulation and trophic transfer in aquatic and terrestrial food webs (Areas A, B, C1, C2, D, E)."

Groundwater and Surface Water Monitoring

The PMAP states that groundwater, surface water and sediment sampling on and off Base will occur every 6 months. The most recent report publicly available is the AECOM (October, 2022) Annual Interpretive Report – 2021 (AECOM, 2022).

Based on the AECOM, 2022 report, there are no groundwater monitoring bores, soil or surface water/sediment sampling locations on the site. There are a number of offsite groundwater monitoring wells, and surface water/sediment sampling locations, surroundings the site, at various distances from the site. There are several soil sampling locations south of the site along Cabbage Tree Road.

The AECOM (2022) report showed groundwater concentrations in May 2021 of PFOS + PFHxS were above the adopted criteria up-gradient and down-gradient of the site. PFOA concentrations were above the adopted criteria up-gradient of the site, and below the adopted criteria down-gradient of the site. This indicates that groundwater beneath the site likely contains PFAS concentrations above the adopted criteria.

There is no surface water on the site. The AECOM (2022) report showed surface water concentrations in May 2021 of PFOS + PFHxS were above the adopted criteria up-gradient and down-gradient of the site. PFOA concentrations were below the adopted criteria up-gradient and down-gradient of the site. This indicates that surface water in surrounding area contains PFAS above the adopted criteria.

There is no sediment (associated with surface water bodies) on the site. The AECOM (2022) report showed sediment concentrations in May 2021 of PFOS + PFHxS and PFOA were below the adopted criteria up-gradient and down-gradient of the site. This indicates that sediment in the surrounding area contains PFAS below the adopted criteria.

The AECOM (2022) report showed the soil samples located south of the site reported concentrations in May 2021 of PFOS + PFHxS and PFOA below the adopted criteria.

4.0 Works Completed by KCE

KCE completed early works on the Stage 1 Astra Aerolab site in October to December 2019, that included:

- Removal of waste materials on the site;
- Vegetation clearing; and
- Filling of proposed Lots 123 to 126 for pre-load testing (for geotechnical purposes).

Information provided by KCE indicates they completed the following from a remediation perspective for the Stage 1 Astra Aerolab site:

 Disposal of 2.86 tonnes of "C&D dry waste" to Suez Raymond Terrace Waste Management Centre located on Newline Road, Raymond Terrace NSW. The waste was disposed on the 26 August 2019. It is assumed that the material disposed comprised the waste material identified on the Stage 1 Astra Aerolab site, and shown on Appendix I – Illegal Dumping (see Section 3.5 above), however no documentation to demonstrate this has been provided;

- Imported 915.52 tonnes quarried material from Hunter Quarries Karuah Quarry located on Andersite Road, Karuah NSW. Karuah Quarry quarries andesite rock to produce road base and other materials. The material imported by KCE comprised "125mm minus- non". The material was imported on 16, 19, 20, 21 and 22 August 2019.
- The filling of Lots 123 to 126 is not relevant to Lot 109, and has not been included in this report.

The waste dockets and imported fill dockets provided by KCE are presented in Appendix B.

Satellite images of the site prior to KCE commencing works, and after KCE completed works are provided as Figures 2 and 7, Appendix A.

5.0 Works Completed by Daracon

Daracon completed the bulk earthworks and construction of the subdivision, i.e. creation of allotments, construction of roads, and installation of services, between February 2020 and October 2020. An aerial image of the site after Daracon completed works is provided as Figure 9, Appendix A.

Daracon provided a RAP Compliance letter dated 4 May 2021, which is presented in Appendix C. The letter provided the following information:

"In accordance with Contract Preliminaries, Daracon confirm that where applicable, Daracon have undertaken the works in accordance with the Remediation Action Plan prepared by Douglas Partners dated November 2019.

Details of works undertaken in accordance with Remediation Action Plan (RAP) Section 8 Scope of Works, are outlined as follows:

Identified Scope	Treatment Details	Record
Localised opportunistic Dumping	Site rubbish removed prior to Daracon commencement onsite. No treatment required.	Nearmaps high-resolution aerial image dated 11/2/2020 depicting absence of dumped rubbish and car bodies.
Additional Assessment of PFAS impacts	Additional assessment/ investigation undertaken in the form of PFAS testing by GNAPL. Results of testing indicate no requirement for barrier layer of capping, in line with RAP requirements.	Valley Civilab Report ref P- R002-ESA-Rev0, and related email correspondence.
On-site Management of PFAS Impacts	Not required based on the above testing.	N/A

Identified Scope	entified Scope Treatment Details	
On-site management of impacts associated with effluent ponds Not applicable to Daracon Scope of Work.		N/A
Sediments and Groundwater associated with effluent pond	Not Applicable to Daracon Scope of Works	N/A
Classification of imported materials for on-site reuse	Earthworks fill imported by GNAPL.	N/A
Unexpected Find – White Crystalline Material within excavated earthworks material	Material separated and stockpiled. Material testing undertaken by Qualtest. Material assessed as suitable for onsite reuse. No Treatment Required.	Qualtest Report NEW20P- 0020-AC

The Nearmaps image dated 11/2/2020 referred to by Daracon has been included in Appendix C. Qualtest reviewed the Nearmaps image and agree that there was no visible evidence of waste materials on the site, with the exception of some tree branches and stumps in the central portion, and a pile of concrete rubble or similar in the eastern portion. There were also numerous stockpiles of soils on the site which appeared to be imported gravels/aggregates, and site sourced soils (dune sands). Works were underway in the north-west corner (proposed Lot 100).

Selected photographs taken by Qualtest during Level 1 geotechnical supervision of earthworks, showing the site prior to earthworks, during proof-rolling, and placement of material are presented below.



Photograph 1 –Site (Lot 109) prior to earthworks commencing on 12 February 2020.



Photograph 2 – Proof-rolling of site (Lot 109) on 15 February 2020.



Photograph 3 – Placement of first layer of imported material on site (Lot 109) on 17 February 2020.

5.1 Valley Civilab (2020) PFAS Investigation, Astra Aerolab Stage 1

Valley Civilab Pty Ltd were engaged by Newcastle Airport to complete a PFAS investigation of surface soils for a portion of the Stage 1 Astra Aerolab site (ref: P1927-R-002-ESA-Rev0, dated 26 March 2020). The area assessed overlaps the north-eastern corner of Lot 109. Figure 8, Appendix A, shows the area assessed.

At the time of the assessment, the majority of the site had been subject to earthworks to level the area and then roadbase/gravel placed on the surface. The eastern portion of the assessment area (not on Lot 109) comprised exposed site soils (dune sands).

The objective of the investigation was to assess whether the soils were suitable for re-use on site, or required capping (in accordance with procedures in the RAP, DP, 2019b) from a PFAS contamination perspective.

The assessment comprised:

- Collection of 13 surface soil samples (\$1 to \$13), which were analysed for PFAS at a NATA accredited laboratory. Figure 8, Appendix A, shows the sampling locations;
- Comparison of the results to the HEPA (2019) PFAS NEMP (current at the time of the assessment);
- Preparation of a letter report.

The results showed concentrations of PFAS below the adopted criteria (commercial/industrial land use). Valley Civilab concluded that the material was suitable to remain in-situ during future development and no marker layer was required.

5.2 Qualtest (2020) Assessment of Stockpiled Material

Daracon identified a stockpile of white crystalline material when they took control of the site (for earthworks). Daracon engaged Qualtest to carry out an assessment of the material, to assess if the material was suitable for re-use onsite, and the waste classification of the material. The stockpiled was not located on Lot 109, and therefore a summary of the report findings is not included in this report.

5.3 Qualtest (2020) Level 1 Re-Grade Assessment Report

Daracon engaged Qualtest to carry out Level 1 supervision and testing as defined in Clause 8.2 – Section 8 of AS3798-2007 'Guidelines on Earthworks for Commercial and Residential Developments' during earthworks. A Level 1 Re-Grade Assessment report was prepared, ref:

The report included information on the earthworks completed on the site for proposed Lots 101 to 110 of the Stage 1 subdivision:

The fill materials used comprised:

- Site material won from around the site. This material could generally be described as (SP)
 SAND, fine to coarse grained, pale grey / white in colour, with fines of little or no plasticity.
- Imported material sourced from Hunter Quarries Karuah Quarry located on Andersite Road, Karuah NSW. The imported material consisted of either 5mm Dust, a 20mm or 40mm Fine Crushed Rock (FCR) product, or a mixture of both materials. The 5mm Dust material was described as Gravelly SAND, fine to coarse grained, grey in colour, with fine to medium grained Gravel. The FCR material was described as mixtures of Sandy GRAVEL / Clayey GRAVEL, fine to coarse grained, grey / brown in colour, low plasticity, fine to coarse grained Sand.

Mixtures of the site won material and imported quarry material. This material was generally
described as mixtures of Sandy GRAVEL / Clayey GRAVEL, fine to coarse grained, grey /
brown in colour, low plasticity, and fine to coarse grained Sand.

The fill thicknesses placed by Daracon were:

- Lots 101 to 108 were filled with between 0.1m to 2.4m thickness of fill, with the majority between 0.4m to 1.6m. No cuts were carried out on Lots 101 to 108;
- Lot 109 was subject to cut and fill. Lot 109 had natural site soils cut from dunes in the northeast portion and central-western portion. The cuts ranged from 0.1m to 1.4m. The remainder of Lot 109 was filled with between 0.1m to 1.8m thickness of fill; and,
- Lot 110 was subject to cut and fill. Lot 110 had natural site soils cut from dunes on the central-western boundary, and central to north-east portion. The cuts ranged from 0.1m to 1.6m. The remainder of Lot 109 was filled with between 0.1m to 2.0m thickness of fill.

5.4 EP Risk (2021) Asbestos Clearance Certificate (ACC01) – Hen Peck Work Area

EP Risk prepared an asbestos clearance certificate (ref: EP2074-ACC01, dated 27 April 2021) following removal of bonded ACM from a portion of the Stage 1 Astra Aerolab site. The area of the clearance was located to the east of proposed Lot 110, and is not located within Lot 109. Therefore, the information in the report is not considered relevant to Lot 109.

6.0 Current Site Observations

A Qualtest Environmental Scientist carried out a site walkover on 30 January 2023 to assess site features. A summary of the site condition at the time of walkover is outlined below:

- The site comprised a roughly square block of land, within the newly developed Stage 1 subdivision;
- The site was relatively flat, and the majority of the site surface was covered with gravel.
 Grass and weeds were growing on areas of the site. The north-western corner of the site was turfed;
- No waste materials, stockpiled soils, or evidence of potential contamination were observed on the site.

Selected photographs taken during field works are shown below.



Photograph 4 – Showing Lot 109 looking from northern boundary to the south.



Photograph 5 – Showing Lot 109 looking from northern boundary to the south-west.



Photograph 6 – Showing Lot 109 looking from northern boundary to the south-east.



Photograph 7 – Showing turfed area on north-west corner of Lot 109.

7.0 RAP Requirements and Works Completed

Table 6.1 below summarises the remediation or additional assessment required by the RAP (DP, 2019b) and whether this was completed satisfactorily.

Table 6.1 – Summary of RAP Requirements and Works Completed for Lot 109

Requirement	Works Completed	Qualtest Comment
Remediation of Asbestos Affected Soils: • Identify and peg locations of asbestos waste and asbestos affected soils;	The figure 'Appendix I – Illegal Dumping' inferred to be from tender documents, showed no potentially asbestos containing materials were identified on Lot 109.	To the best of our knowledge, based on information provided, no remediation of asbestos impacted soils was required. Not relevant to Lot 109.
Excavate and remove affected soils to landfill, after waste classification completed;		
Validation of excavation/stripped area.		

Requirement	Works Completed	Qualtest Comment
Remediation of Hydrocarbon and Heavy Metal Impacted Soils Identify locations of waste, assess if type of waste that has potential to cause contamination (i.e. car bodies); Remove waste to landfill; Validation of excavation/stripped area.	The figure 'Appendix I – Illegal Dumping' inferred to be from tender documents, showed the waste identified on Lot 109 comprised mattress and mixed waste. It is considered that these waste types are unlikely to have caused petroleum hydrocarbon or heavy metal contamination. Based on dockets provided by KCE, it is assumed that the waste materials identified were disposed to a licensed waste facility on 26 August 2019, when 2.86 tonnes of waste was disposed from the site.	To the best of our knowledge, based on information provided, the waste was disposed off-site to a licensed waste facility. It is noted that there is little documentation to confirm what waste was disposed, and where. No validation of soils for potential petroleum hydrocarbon or heavy metal contamination was required.
Assessment of Fill Stockpiles for Re-Use or Disposal	The DP PSI (2019) report figures include locations where fill stockpiles were located. The plan indicates no stockpiles were identified on Lot 109. Assessment of an Unexpected Find of a stockpile of white crystalline material was carried out on behalf of Daracon in 2020. The material was not located on Lot 109, and therefore is not relevant to this report. Daracon provided an email dated 25 January 2023 states that no potentially contaminated fill materials were encountered on the site, other than the white crystalline material assessed by Qualtest.	Item completed satisfactorily.

Requirement	Works Completed	Qualtest Comment
Additional Investigation and Management of Potential PFAS-impacted Soils	Assessment of surface soils for PFAS was completed for an area that overlaps the northeastern corner of Lot 109.	Item completed satisfactorily.
	The assessment showed concentrations of PFAS in soil below the commercial land use criteria.	
	Based on this assessment, it is considered that the soils on Lot 109 do not contain PFAS above the commercial land use criteria.	
Additional Investigation and Management of Fill	The DP PSI (2019) report figures include locations where fill was potentially located. The plan indicates no potential fill was identified on Lot 109.	Item completed satisfactorily.
	Daracon provided an email dated 25 January 2023 states that no potentially contaminated fill materials were encountered on the site, other than the white crystalline material assessed by Qualtest.	

8.0 Conceptual Site Model

Based on the results of the works completed on the site, a Conceptual Site Model (CSM) for the site has been developed, refer to Table 7.1, below. The Areas of Environmental Concern are based on the Potential Sources of Contamination in the CSM developed by DP (2019a), refer to Section 3.1 above.

Table 7.1 – Updated Conceptual Site Model Following Assessment

AEC	COPC	Mechanism of Contamination	Potentially Affected Media	Human & Ecological Receptors	Potential mechanisms of exposure	Remediation Completed	Potential & Complete Exposure Pathways
Localised dumped rubbish observed across the site For Lot 109 comprised a mattress and mixed waste.	Nil based on waste type	N/A based on waste type	Aesthetics	Site users.	Visual (aesthetics)	Waste materials disposed to a licensed waste facility	 Incomplete exposure pathway for site users as waste type would not cause contamination to underlying soils, surface water or groundwater. Waste was removed and disposed, therefore removing the aesthetics issue.
2. Filling (unknown source) None identified on Lot 109.	N/A	• N/A	• N/A	• N/A	• N/A	N/A	No exposure pathway as fill not identified on Lot 109, to the best of Qualtest knowledge, based on information provided by GNAPL, KCE and Daracon.
Application of pesticides during previous agricultural land use and possible storage of chemicals.	OCPs, Metals	Spraying of pesticides Leaching of soil contaminants to surface water and groundwater	Surface soils Surface water Groundwater	Current and future site users Future maintenance workers Dawson Drain located 1.1km south-west of the site, and Fullerton Cove located approximately 2.4km south-west of the site Groundwater (<2m bgs) in sandy soils.	 Direct dermal contact with contaminated soil Ingestion of contaminated soil Inhalation of contaminated soil (as dust) Leaching of soil contaminants to surface water and/or groundwater Surface water and groundwater discharge to Dawson Drain located 1.1km south-west of the site, and Fullerton Cove located approximately 2.4km southwest of the site. 	Nil	 Based on site history information, the site was likely used for cattle grazing. Pesticides were rarely used for cattle grazing activities, and it is unlikely significant quantities of pesticides would have been used. In addition, OCPs degrade over time, and if used would have degraded in the >30 years since cattle were grazed on the site. Based on the above, no exposure pathways, as concentrations of pesticides if they existed would not present a human health or environmental risk.
 4. Hazardous Building Materials Demolition of structures No structures/buildings identified on Lot 109. 	N/A	• N/A	• N/A	• N/A	• N/A	N/A	No exposure pathway as no structures/buildings identified on Lot 109.

30 January 2023 NEW23P-0005-AA

AEC	COPC	Mechanism of Contamination	Potentially Affected Media	Human & Ecological Receptors	Potential mechanisms of exposure	Remediation Completed	Potential & Complete Exposure Pathways
 5. Adjacent land uses: Newcastle Airport, RAAF Base: Placement of filling, opportunistic dumping; Spills and leaks from tanks / bowsers; Use of firefighting foam. Off-site migration / leaching / transport of contaminants Waste materials and fill addressed in AECs 1 and 2 above. Spills/leaks from tanks/bowsers not relevant to Lot 109 due to the distance from the site to the tanks/bowsers on the airport and RAAF Base. Fire-fighting foam not used on the site, but has the potential to migrate onto the site via groundwater. 	PFAS	Migration of PFAS via groundwater	Groundwater	Current and future site users Future maintenance workers	Direct dermal contact with contaminated groundwater Ingestion of contaminated groundwater	Nil	 Potentially complete exposure pathway for future construction and/or maintenance workers, if excavations extend to the groundwater table. Incomplete exposure pathway for site visitors and site users, as they are unlikely to come into contact with groundwater. PFAS in the region is managed under the RAAF Base Williamtown, PFAS Management Area Plan.
Spills/leaks from ponds. Not located on Lot 109, potential for migration of contaminated groundwater onto site.	PFAS	Migration of PFAS via groundwater	Groundwater	Current and future site users Future maintenance workers	Direct dermal contact with contaminated groundwater Ingestion of contaminated groundwater	Nil	 Potentially complete exposure pathway for future construction and/or maintenance workers, if excavations extend to the groundwater table. Incomplete exposure pathway for site visitors and site users, as they are unlikely to come into contact with groundwater. Incomplete exposure pathway for ecological receptors including surface water as effluent ponds sufficiently distanced from the site PFAS in the region is managed under the RAAF Base Williamtown, PFAS Management Area Plan.

30 January 2023 40 NEW23P-0005-AA

9.0 Conclusions

Qualtest note that, initially Lot 109 was not characterised with respect to contamination prior to commencement of works, and limited sampling and analysis of soil, surface water and groundwater was completed. To compensate, the RAP outlined additional assessment to be carried out during earthworks on the site and provided remediation measures where/if contamination was identified.

In addition to the review of previous reports by others, Qualtest compiled and reviewed the documentation provided by GNAPL, Daracon and KCE (or their sub-contractors). This documentation was collected during earthworks and subdivision construction for the site (Lot 109).

Based on the review and assessment, Qualtest conclude that the works were carried out in general accordance with the RAP (DP, 2019a). The minor discrepancies and missing documentation (eg waste dockets) are not considered significant as volumes were minor < 3 tonnes).

The site is considered suitable, with respect to contamination, for the proposed light industrial / commercial development, provided that groundwater is not planned to be intersected during construction.

It is noted that groundwater on the site is impacted by PFAS from the RAAF Base Williamtown. PFAS contamination in the region is managed under the RAAF Base Williamtown, PFAS Management Area Plan (PMAP) (AECOM, 2019). The management measures in the PMAP (or future versions of the PMAP) will be relevant to users of the site.

If construction works for buildings/structures on the site are likely to intercept groundwater, a site-specific management plan for protection of construction workers should be developed.

This report was prepared in general accordance with the relevant sections of the NSW EPA (2020) Guidelines for Consultants Reporting on Contaminated Land and the National Environment Protection (Assessment of Site Contamination) Measure 1999 (April 2013), NEPC 2013, Canberra (referred to as ASC NEPM 2013).

10.0 Limitations

This report has been prepared by Qualtest for Greater Newcastle Aerotropolis Pty Ltd (GNAPL) based on the objectives and scope of work list in Sections 1.1 and 1.2. No warranty, expressed or implied, is made as to the information and professional advice included in this report. Anyone using this document does so at their own risk and should satisfy themselves concerning its applicability and, where necessary, should seek expert advice in relation to their particular situation.

The opinions, conclusions and recommendations in this report are based on conditions encountered and information reviewed at the date of preparation of the report. Qualtest has no responsibility or obligation to update this report to account for events or changes occurring subsequent to the date that the report was prepared.

In preparing this report Qualtest has relied on information contained in reports, documents and plans by others, and has assumed that the information provided in those reports is accurate. Information from searches of government websites has also been relied upon, and Qualtest has not independently verified or checked the data contained on these websites.

In preparing this report, current guidelines for assessment and management of contaminated land were followed. The conclusions reached in this report are dependent on the limitations inherent in all subsurface investigations where horizontal and vertical variation in contaminant

concentrations can occur. No subsurface assessment can accurately predict the contaminant concentration at all points.

Site conditions may change after the date of this Report. Qualtest does not accept responsibility arising from, or in connection with, any change to the site conditions.

8.0 References

DP (2019a) Report on Preliminary Site Investigation, ref: 39728.20.R.002.Rev0, dated 3 October 2019; and,

DP (2019b) Remediation Action Plan, ref: 39728.20.R.004.Rev0, dated 5 November 2019

DP (2019c) Report on Geotechnical Investigation, ref: 39728.20.R.001.Rev1 dated 30 September 2019

PFAS Management Area Plan (2019), ref: RAAF Base Williamtown, PFAS Management Area Plan, 27 May 2019 Revision 1

AECOM (2017) Off-Site Human Health Risk Assessment – December 2017, reference 60527153,1 December 2017

AECOM (2018) Ecological Risk Assessment – September 2018, reference 60527153, 7 September 2018

AECOM (2019) Interim Monitoring Event Report - June 2019, reference 60527153, dated 27 September 2019 (AECOM, 2019)

AECOM (2021) STP Lagoons – Remediation Considerations (Draft - Rev B), reference 60569462, dated 11 November 2021 (AECOM 2021)

Valley Civilab Pty Ltd (2020) PFAS Investigation, ref: P1927-R-002-ESA-Rev0, dated 26 March 2020

Qualtest (2020) Level 1 Site Re-Grade Assessment Report, ref: NEW20P-0020-AB dated 12 November 2020.

EP Risk (2021) Asbestos Clearance Certificate (ACC01) – Hen Pick Work Area, ref: EP2074_ACC01_Hen Pick, 27 April 2021.

NSW Department of Primary Industries (Office of Water) Registered Groundwater Bore Map, accessed from http://allwaterdata.water.nsw.gov.au/water.stm.

NSW Land and Property Information, Spatial Information eXchange (SIX) Maps - Topographic Map, accessed from https://maps.six.nsw.gov.au/.

State of NSW and Department of Planning, Industry and Environment, 2021, Acid Sulfate Soil online database (https://espade.environment.nsw.gov.au

NSW EPA (2020) Guidelines for Consultants Reporting on Contaminated Land.

NEPC (2013) National Environment Protection (Assessment of Site Contamination) Measure 1999 (April 2013), Canberra (ASC NEPM 2013).

NSW ePlanning Spatial Viewer Portal (https://www.planningportal.nsw.gov.au/spatialviewer/).

APPENDIX A:

Figures



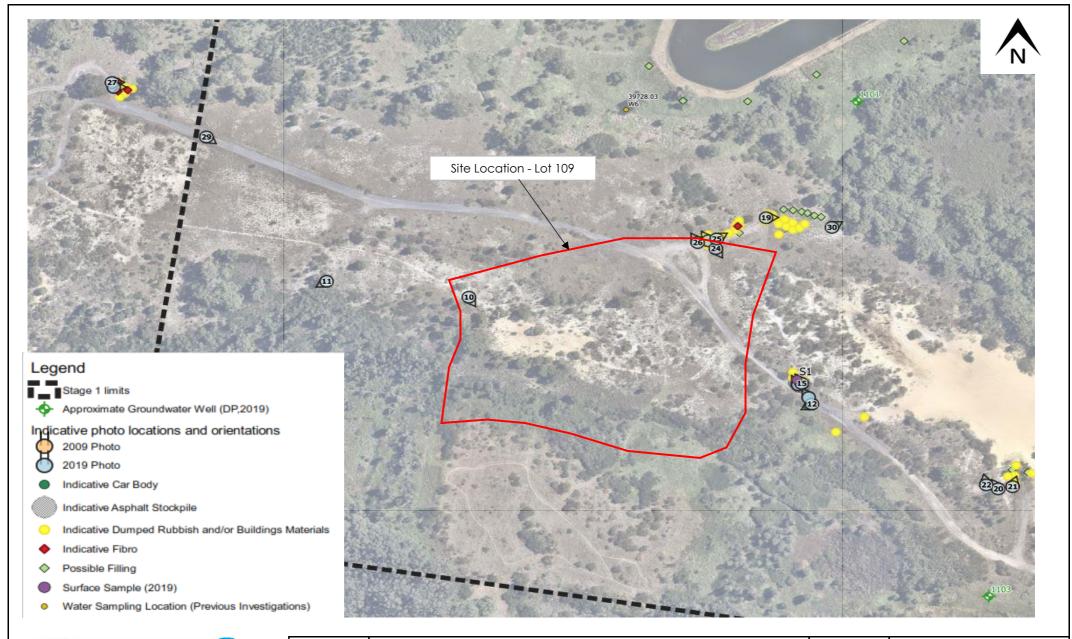


Client:	GREATER NEWCASTLE AEROTROPOLIS PTY LTD	Drawing No:	FIGURE 1
Project:	LOT 109, STAGE 1 OF ASTRA AEROLAB SUBDIVISION	Project No:	NEW23P-0005-AA
Location:	OFF WILLIAMTOWN DRIVE, WILLIAMTOWN NSW	Scale:	N.T.S.
Title:	SITE LOCATION PLAN	Date:	25/01/2023



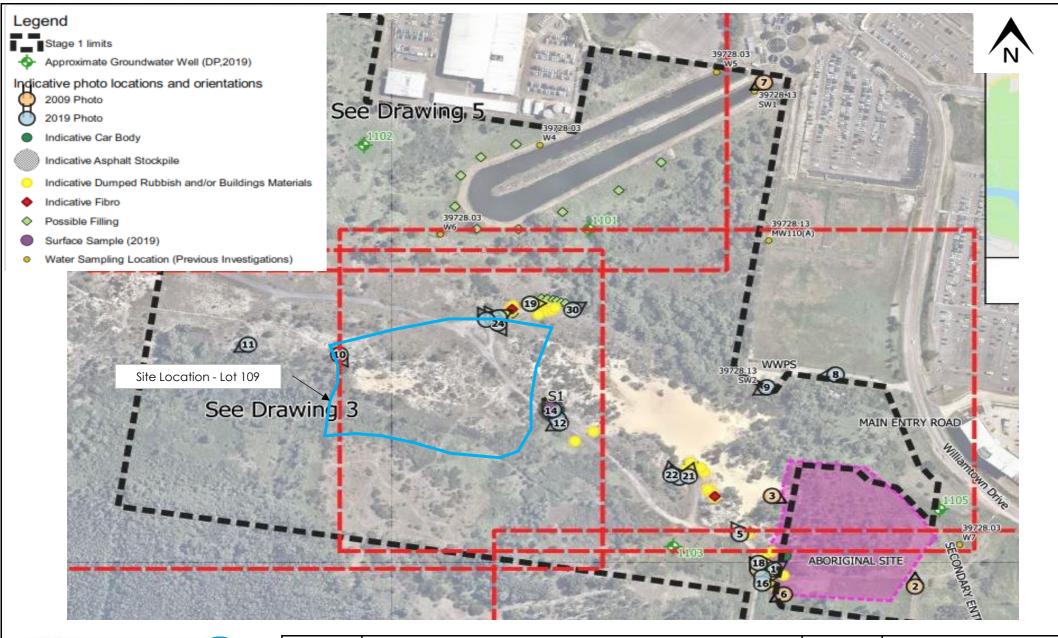


Client:	GREATER NEWCASTLE AEROTROPOLIS PTY LTD	Drawing No:	FIGURE 2
Project:	LOT 109, STAGE 1 OF ASTRA AEROLAB SUBDIVISION	Project No:	NEW23P-0005-AA
Location:	OFF WILLIAMTOWN DRIVE, WILLIAMTOWN NSW	Scale:	N.T.S.
Title:	SITE PRIOR TO WORKS COMMENCING	Date:	25/01/2023



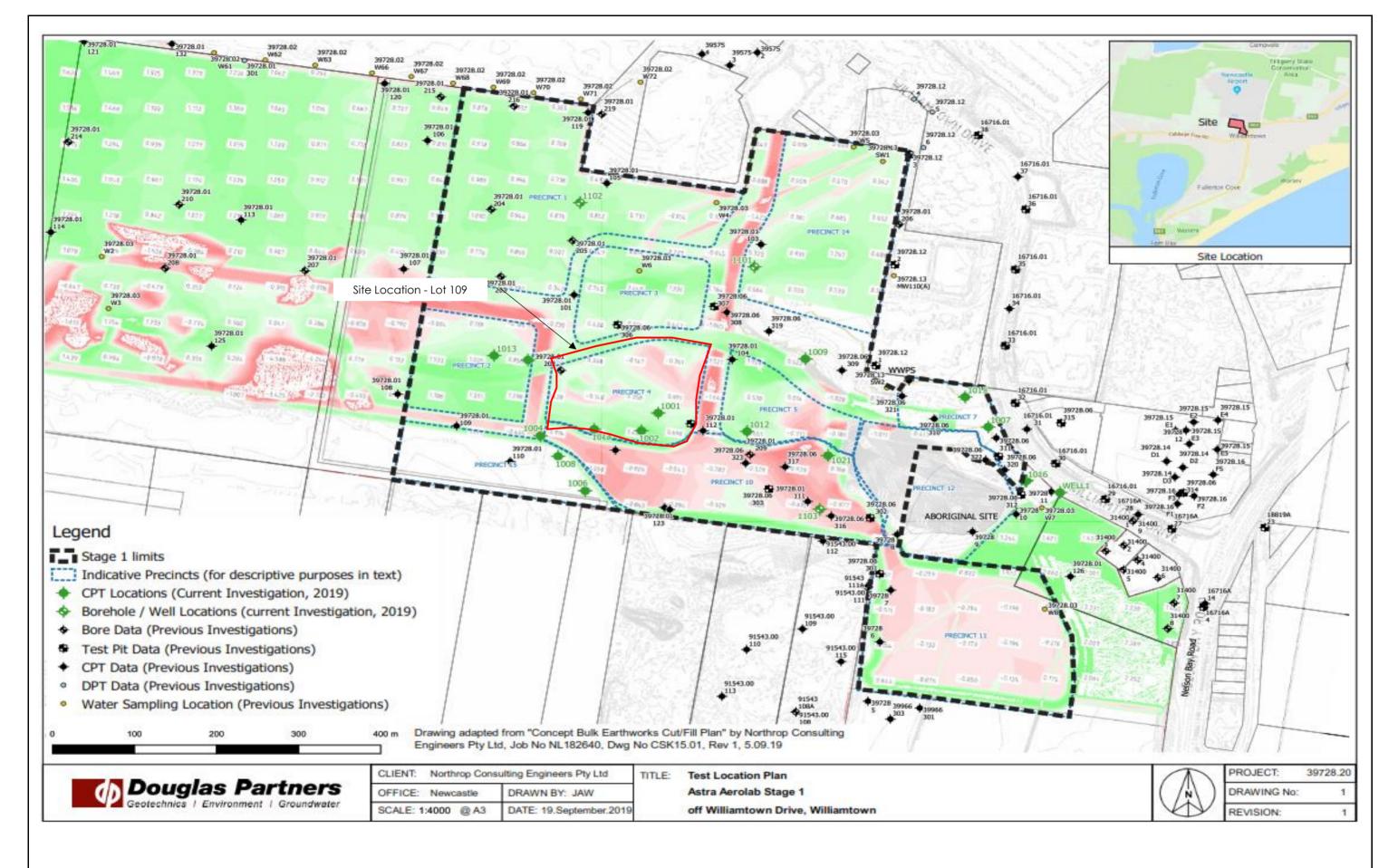


Client:	GREATER NEWCASTLE AEROTROPOLIS PTY LTD	Drawing No:	FIGURE 3
Project:	LOT 109, STAGE 1 OF ASTRA AEROLAB SUBDIVISION	Project No:	NEW23P-0005-AA
Location:	OFF WILLIAMTOWN DRIVE, WILLIAMTOWN NSW	Scale:	N.T.S.
Title:	EXTRACT FROM DP PSI (2019) SHOWING SITE FEATURES FOR LOT 109	Date:	25/01/2023



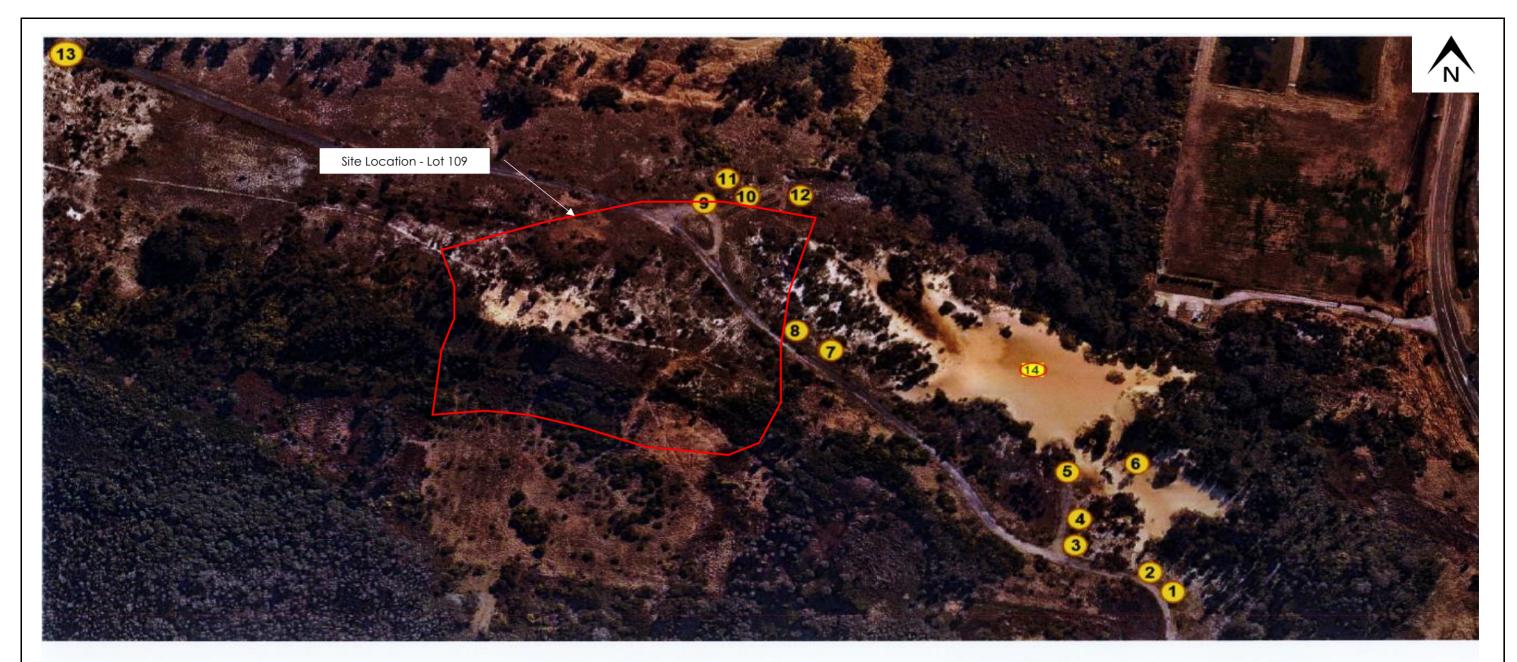


Client:	GREATER NEWCASTLE AEROTROPOLIS PTY LTD	Drawing No:	FIGURE 4
Project:	LOT 109, STAGE 1 OF ASTRA AEROLAB SUBDIVISION	Project No:	NEW23P-0005-AA
Location:	OFF WILLIAMTOWN DRIVE, WILLIAMTOWN NSW	Scale:	N.T.S.
Title:	EXTRACT FROM DP PSI (2019) SHOWING GROUNDWATER WELL LOCATIONS	Date:	25/01/2023





Client:	GREATER NEWCASTLE AEROTROPOLIS PTY LTD	Drawing No:	FIGURE 5
Project:	LOT 109, STAGE 1 OF ASTRA AEROLAB SUBDIVISION	Project No:	NEW23P-0005-AA
Location:	OFF WILLIAMTOWN DRIVE, WILLIAMTOWN NSW	Scale:	N.T.S.
Title:	EXTRACT FROM DP GEOTECHNICAL REPORT (2019) SHOWING	Date:	25/01/2023
	BOREHOLE/TESTPIT LOCATIONS		



- 1) Burnt out holden commodore and misc. rubbish
- 2) dumped pile of rubble
- 3) heater and fan
- 4) pile of timber and fibro

- 6) mixed building waste
- 7) pile of old broken up asphalt
- 8) car bumper
- 9) matress and mixed waste

- 11) glass/plastic mixed waste and car bumper
- 12) mixed waste
- 13) pile of broken up fibro
- 14) pile of broken up fibro



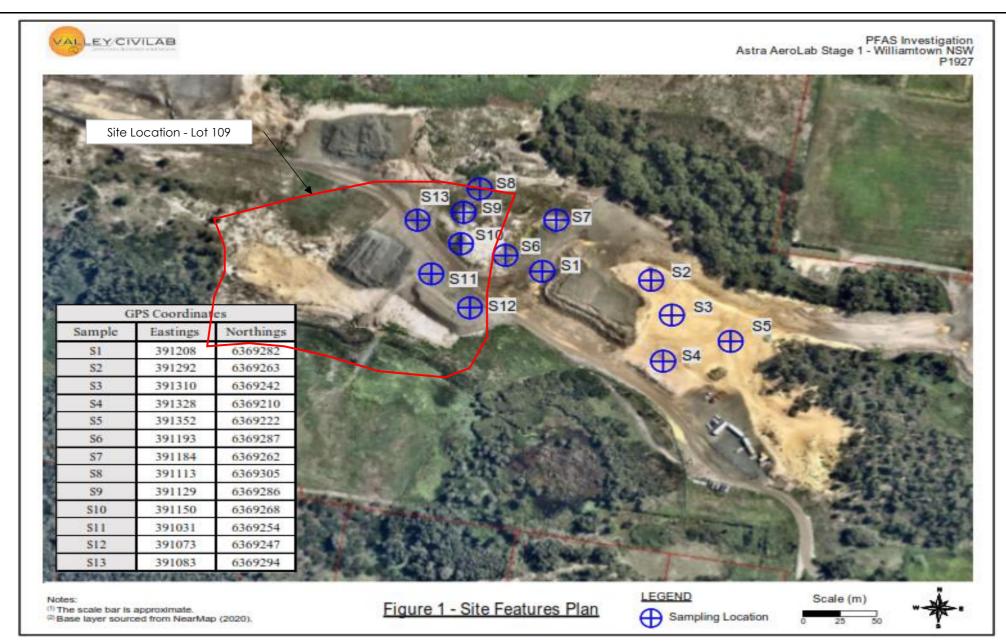


Client:	GREATER NEWCASTLE AEROTROPOLIS PTY LTD	Drawing No:	FIGURE 6
Project:	LOT 109, STAGE 1 OF ASTRA AEROLAB SUBDIVISION	Project No:	NEW23P-0005-AA
Location:	OFF WILLIAMTOWN DRIVE, WILLIAMTOWN NSW	Scale:	N.T.S.
Title:	WASTE MATERIAL ONSITE PRIOR TO KCE WORKS COMMENCING	Date:	25/01/2023





Client:	GREATER NEWCASTLE AEROTROPOLIS PTY LTD	Drawing No:	FIGURE 7
Project:	LOT 109, STAGE 1 OF ASTRA AEROLAB SUBDIVISION	Project No:	NEW23P-0005-AA
Location:	OFF WILLIAMTOWN DRIVE, WILLIAMTOWN NSW	Scale:	N.T.S.
Title:	SITE AFTER COMPLETION OF KCE WORKS	Date:	25/01/2023



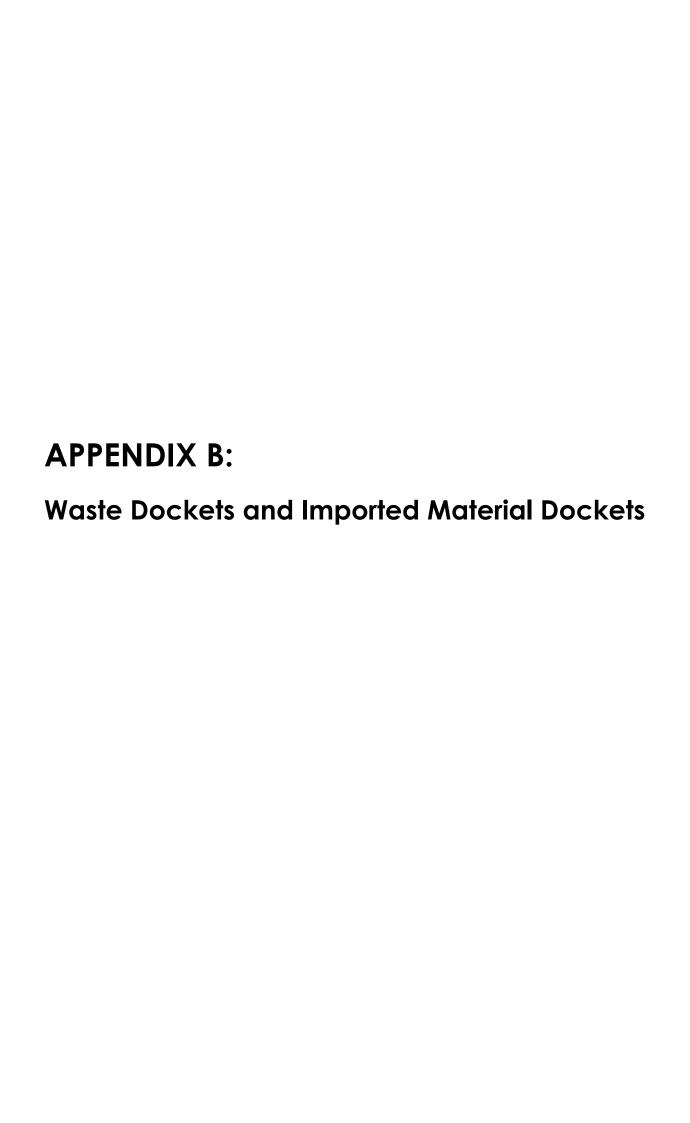


Client:	GREATER NEWCASTLE AEROTROPOLIS PTY LTD	Drawing No:	FIGURE 8
Project:	LOT 109, STAGE 1 OF ASTRA AEROLAB SUBDIVISION	Project No:	NEW23P-0005-AA
Location:	OFF WILLIAMTOWN DRIVE, WILLIAMTOWN NSW	Scale:	N.T.S.
Title:	VALLEY CIVILAB SAMPLING LOCATIONS	Date:	25/01/2023





Client:	GREATER NEWCASTLE AEROTROPOLIS PTY LTD	Drawing No:	FIGURE 9
Project:	LOT 109, STAGE 1 OF ASTRA AEROLAB SUBDIVISION	Project No:	NEW23P-0005-AA
Location:	OFF WILLIAMTOWN DRIVE, WILLIAMTOWN NSW	Scale:	N.T.S.
Title:	SITE AFTER COMPLETION OF DARACON WORKS	Date:	25/01/2023





SUEZ Recycling & Recovery Pty Ltd
Delivery Docket

Raymond Terrace Waste Management Centre 330 Newline Road Raymond Terrace 2324 Mon-Fri 6AM-4.30PM Sat 8AM-3.30PM Phone: 02 4983 4100 ABN: 34071096421

Ticket No: RT360002276.0
Time In: 26/08/2019 8:06:49 AM
Time Out: 26/08/2019 8:27:33 AM
Vehicle Rego: XN72AY

3460032 - KELLER CIVIL ENGINEERS PTY LTD-NRL Cust ref: 19019

C&D Dry Waste - 8023
1.96t@
Source: External
Dest: Raymond Terrace Landfill
GROSS
TARE
9.00t
NET Weight: 1.96t
Chargeable Weight: 1.96t

Total (ex GST): GST:

Each Item Weight:

Total Price:

----- Payment Details-----

...........

Temporary Acc:

Total Price:

Total Amount Tendered: Change Given:

Operator:

WOKDS

0.00t



SUEZ Recycling & Recovery Pty Ltd
Delivery Docket

Raymond Terrace Waste Management Centre 330 Newline Road Raymond Terrace 2324 Mon-Fri 6AM-4.30PM Sat 8AM-3.30PM Phone: 02 4983 4100 ABN: 34071096421

Ticket No: RT360002358.0
Time In: 26/08/2019 11:50:12 AM
Time Out: 26/08/2019 12:04:44 PM
Vehicle Rego: XN72AY

3460032 - KELLER CIVIL ENGINEERS PTY LTD-NRL Cust ref: 19019

C&D Dry Waste - 8023 0.90t@ Source: External Dest: Raymond Terrace Landfill

GROSS 9.96t
TARE 9.06t
NET Weight: 0.90t

Chargeable Weight: 0.90t Each Item Weight: 0.00t

Total (ex GST):

Total Price:

----- Payment Details-----

Temporary Acc:

Total Price:

Total Amount Tendered: Change Given:

Operator:

WOKDS



ABN 15 093 914 937 Andersite Road Karuah NSW 2324 Ph: 4997 5966 Fax: 4997 5933 Accounts

PO Box 3284

Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterquarries.com.au

Docket No:

Customer Name:	Time Dispatched:	Date: 16/08/2019
Delivery Address: WILLIAM FOWN Drive (Althort Access	Carrier: GW & GJ Trappe	Vehicle Rego:
Walliamtown	Order No:	Gross Weight: 22.86t
Additional Instructions:		Tare Weight: 9.90t
*4922 5000 *Newcastle Atroort Access Roads	Daily Progressive Total:	Nett Weight: 12,96t.
Product Description:	Stockpile No:	7
I agree to abide by all RMS Driver Fatigue Management and Chain of Respondelivery of this load and do so under no duress by Hunter Quarries to breac		
Drivers Signature: (Goods Received as per Conditions of Sale on overleaf) Customer Signature:		
Distribution: White - Office Copy Pink - Admin Copy Blue - Cal	rier Copy Yellow - Customer Cop	у

HUNTER

Karuah Quarry

ABN 15 093 914 937 Andersite Road Karuah NSW 2324 Ph: 4997 5966 Fax: 4997 5933 Accounts

PO Box 3284

Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterquarries.com.au

Docket No:

Customer Name:		Time Dispatched:	Date:	019
Delivery Address:		Carrier: Greys Rarthmov	Vehicle Rego:	
W 1 A acinoscocy		Order No:	Gross Weight:	21.80t
Additional Instructions:			Tare Weight:	11,341
*Newcastle Alrmort Ac	ceas Roads	Daily Progressive Total:	Nett Weight:	10.461
Product Description:	HINS - HON-	Stockpile No:		
l agree to abide by all RMS Driver Fatigue Manag delivery of this load and do so under no duress b				
Drivers Signature: (Goods Received as per Conditions of Sale on overleaf) Customer Signature:		000000000000000000000000000000000000000		

Distribution: White - Office Copy Pink - Admin Copy Blue - Carrier Copy Yellow - Customer Copy

100 007 87001



ABN 15 093 914 937 Andersite Road Karuah NSW 2324

Ph: 4997 5966 Fax: 4997 5933

Docket No:

Accounts PO Box 3284

Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterquarries.com.au

Customer Name:	Time Dispatched:	Date: 16/08/2019
Delivery Address:	Carrier:	Vehicle Rego:
Williamrown	Order No:	Gross Weight: 22.84r
Additional Instructions:		Tare Weight:
*A992 5000 Newcastle Airport Access Roads	Daily Progressive Total:	Nett Weight:
Product Description:	Stockpile No:	7
I agree to abide by all RMS Driver Fatigue Management and Chain of Respondelivery of this load and do so under no duress by Hunter Quarries to bread		
Drivers Signature: (Goods Received as per Condit Customer Signature:	a now a more	
Distribution: White - Office Copy Pink - Admin Copy Blue - Ca	rrier Copy Yellow - Customer Cop	y



Karuah Quarry ABN 15 093 914 937

Andersite Road Karuah NSW 2324

Ph: 4997 5966 Fax: 4997 5933

Docket No:

Accounts
PO Box 3284

Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterquarries.com.au

Customer Name:		Time Dispatched:	Date: 6/08/2019
Delivery Address:	rport Access	Carrier: GW & GJ Trappe.	Vehicle Rego:
Williamtown		Order No:	Gross Weight:
Additional Instructions:			Tare Weight:
*A922 5000 *Newcastle Airport Ac	cess Roads	Daily Progressive Total:	Nett Weight:
Product Description:		Stockpile No:	
I agree to abide by all RMS Driver Fatigue Manag delivery of this load and do so under no duress b			
Drivers Signature: (Goods Received as per Condition Customer Signature:		ons of Sale on overleaf)	

Distribution: White - Office Copy Pink - Admin Copy Blue - Carrier Copy Yellow - Customer Copy

10-007 8/20



Karuah Quarry ABN 15 093 914 937 Andersite Road Karuah NSW 2324 Ph: 4997 5966 Fax: 4997 5933

-	into		

<u>Accounts</u> PO Box 3284 Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterquarries.com.au

Docket No:

Customer Name:		Time Dispatched:	Date: 16/08/2019	
Delivery Address:		Carrier: Greys Earthmov	Vehicle Rego:	
Williamtown Orive (A Williamtown	arport Access	Order No:	Gross Weight:	21.52t
Additional Instructions:			Tare Weight:	11.34t
*4922 5000 *Newcari) = Airport A	ccess Roads	Daily Progressive Total:	Nett Weight:	10.18t
Product Description:	THOS - DON	Stockpile No:	7	
I agree to abide by all RMS Driver Fatigue Man delivery of this load and do so under no duress				
Drivers Signature:	(Goods Received as per Conditi Customer Signature:			
Distribution: White - Office Copy Pink	- Admin Copy Blue - Car	rier Copy Yellow - Customer Cop	V	

Karuah Quarry ABN 15 093 914 937 Andersite Road Karuah NSW 2324

Ph: 4997 5966 Fax: 4997 5933

Docket No:

<u>Accounts</u> PO Box 3284

Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterguarries.com.au

Customer Name:	Time Dispatched:	Date: 16/08/2019
Delivery Address: Williamtown Irrive (Alrport Addess:	Carrier:	Vehicle Rego:
W) Lijamterwy	Order No:	Gross Weight:
Additional Instructions:		Tare Weight: 10.38t
*4922 5000 *Newcastle Airport Access Roads	Daily Progressive Total:	Nett Weight: 12,40t
Product Description:	Stockpile No:	
l agree to abide by all RMS Driver Fatigue Management and Chain of Resp delivery of this load and do so under no duress by Hunter Quarries to brea		
Drivers Signature: (Goods Received as per Condi Customer Signature:	tions of Sale on overleaf)	

Distribution: White - Office Copy Pink - Admin Copy Blue - Carrier Copy Yellow - Customer Copy



ABN 15 093 914 937 Andersite Road Karuah NSW 2324 Ph: 4997 5966 Fax: 4997 5933 Accounts PO Box 3284

Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterquarries.com.au

Docket No:

Customer Name:		Time Dispatched:	Date: 16/08/2019	
Delivery Address:	nort access Rd	Carrier: Greys Rarthmov	Vehicle Rego:	
Williamsown		Order No:	Gross Weight:	1
Additional Instructions:			Tare Weight:	t
*Mawcastle Althort A	rress Rosile	Daily Progressive Total:	Nett Weight:	į-
Product Description:	1008 - 000	Stockpile No:	7	
I agree to abide by all RMS Driver Fatigue Mana delivery of this load and do so under no duress				
	(Goods Received as per Conditio Customer Signature:		O.007 8/2015	
Distribution: White - Office Copy Pink -	Admin Copy Blue - Carr	ier Copy Vellow - Customer Copy	1	

HUNTER

Karuah Quarry

ABN 15 093 914 937 Andersite Road Karuah NSW 2324 Ph: 4997 5966 Fax: 4997 5933 Accounts

PO Box 3284

Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterquarries.com.au

Docket No:

Customer Name:		Time Dispatched:	Date: 16/08/2	010
Delivery Address:	t Access Rd	Carrier: Peter Trappel	Vehicle Rego:	
Williamnown		Order No:	Gross Weight:	22.76t
Additional Instructions:			Tare Weight:	10.38t
*A972 Shon *Newcastle Airport Acce	ess Roads	Daily Progressive Total:	Nett Weight:	12.38t
Product Description:	18 - 1909	Stockpile No:		
I agree to abide by all RMS Driver Fatigue Managem delivery of this load and do so under no duress by H				
Drivers Signature: (Goods Received as per Conditions of Sale on overleaf) Customer Signature:		ons of Sale on overleaf)		

Distribution: White - Office Copy Pink - Admin Copy Blue - Carrier Copy Yellow - Customer Copy

IQ-007 8/201



ABN 15 093 914 937 Andersite Road Karuah NSW 2324 Ph: 4997 5966 Fax: 4997 5933 Accounts

PO Box 3284

Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterquarries.com.au

Docket No:

Customer Name:		Time Dispatched:	Date: 16/08/2019	
Delivery Address:	port Acress Rd	Carrier:	Vehicle Rego:	
Will Lind own		Order No:	Gross Weight:	
Additional Instructions:			Tare Weight: 9.90t	
*A922 Shou *Newcasils Airport Access Roads		Daily Progressive Total:	Nett Weight:	
Product Description:	THUS - BOR	Stockpile No:	7	
I agree to abide by all RMS Driver Fatigue Mand delivery of this load and do so under no duress				
Drivers Signature: (Goods Received as per Conditions of Sale on overleaf) Customer Signature:				HO-007 8/2015
Distribution: White - Office Copy Pink	- Admin Copy Blue - Carr	rier Copy Yellow - Customer Cop	v	

HUNTER

Karuah Quarry

ABN 15 093 914 937 Andersite Road Karuah NSW 2324 Ph: 4997 5966 Fax: 4997 5933 Accounts

PO Box 3284

Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterquarries.com.au

Docket No:

Customer Name:	Time Dispatched:		Date: 18708/2019	
Delivery Address:	Access Rd)	Carrier: Grays Rarthmovi	Vehicle Rego:	
Williamicoso		Order No:	Gross Weight:	21.52t
Additional Instructions:			Tare Weight:	11.34E
*4922 5000 *Newcastle Arrport Access Roads		Daily Progressive Total:	Nett Weight:	10.18t
Product Description:	- NON	Stockpile No:		
I agree to abide by all RMS Driver Fatigue Management and Chain of Responsibility legislation in acceptance and delivery of this load and do so under no duress by Hunter Quarries to breach in any form or part thereof.				
	(Goods Received as per Conditions of Sale on overleaf) Customer Signature:			

Distribution: White - Office Copy Pink - Admin Copy Blue - Carrier Copy Yellow - Customer Copy

IQ-007 8/2015



ABN 15 093 914 937 Andersite Road Karuah NSW 2324 Ph: 4997 5966 Fax: 4997 5933

	Docket No:
a. uata	B858

Accounts
PO Box 3284
Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterquarries.com.au

Customer Name:	Time Dispatched:	Date: 1670872019
Delivery Address: Cabbage Tree Rel Largort Access Rd	Carrier:	Vehicle Rego:
Wit I, Einsein Licitorn	Order No:	Gross Weight: 22.56t
Additional Instructions:		Tare Weight:
*A922 Ando *Newrasile Eirport Access Roads	Daily Progressive Total:	Nett Weight:
Product Description:	Stockpile No:	₹
I agree to abide by all RMS Driver Fatigue Management and Chain of Respondelivery of this load and do so under no duress by Hunter Quarries to breac	nsibility legislation in acceptance and h in any form or part thereof.	
Drivers Signature: (Goods Received as per Conditions of Sale on overleaf) Customer Signature:		
Distribution: White - Office Copy Pink - Admin Copy Blue - Car	rier Copy Yellow - Customer Cop	y

HUNTER

Karuah Quarry

ABN 15 093 914 937 Andersite Road Karuah NSW 2324 Ph: 4997 5966 Fax: 4997 5933 Accounts

PO Box 3284

Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 F: admin@hunterguarries.com au

Docket No:

Customer Name:	Time Dispatched:	Date: 16/08/2019
Delivery Address: Gabbage Tree Rd (Aliport Access Rd	Carrier:	Vehicle Rego:
Will Laurown	Order No:	Gross Weight: 22,761
Additional Instructions:		Tare Weight: 9.90t
*1922 5000 *Newcastle Arrontt Access Roads	Daily Progressive Total:	Nett Weight: 12.86t
Product Description:	Stockpile No:	
agree to abide by all RMS Driver Fatigue Management and Chain of Respo delivery of this load and do so under no duress by Hunter Quarries to breach	nsibility legislation in acceptance and in any form or part thereof.	
Orivers Signature: (Goods Received as per Condition Customer Signature:	ons of Sale on overleaf)	

Distribution: White - Office Copy Pink - Admin Copy Blue - Carrier Copy Yellow - Customer Copy

00/8 Z00 OF



ABN 15 093 914 937 Andersite Road Karuah NSW 2324 Ph: 4997 5966 Fax: 4997 5933 Accounts

PO Box 3284

Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterquarries.com.au

Docket No:

Customer Name:		Time Dispatched:	Date: 16/08/2019	
Delivery Address:		Carrier: Grays Rarthmov	Vehicle Rego:	
		Order No:	Gross Weight: 7.1 . 58	Ť.
Additional Instructions:			Tare Weight:	t
*4922 5000 *Newcastla Airbort Access Roads		Daily Progressive Total:	Nett Weight: 10.24	t.
Product Description: Stockpile No:				
I agree to abide by all RMS Driver Fatigue Mana delivery of this load and do so under no duress b				
	(Goods Received as per Conditions of Sale on overleaf) Customer Signature:			HQ-007 8/2015

Distribution: White - Office Copy Pink - Admin Copy Blue - Carrier Copy Yellow - Customer Copy



Karuah Quarry ABN 15 093 914 937

ABN 15 093 914 937 Andersite Road Karuah NSW 2324

Ph: 4997 5966 Fax: 4997 5933

Docket No:

Accounts
PO Box 3284

Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterquarries.com.au

Customer Name:	Time Dispatched:	Date: 6/08/2019	
Delivery Address: Cabbage, Trae, Rd, (Agricult)	Carrier: Peter Trappel	Vehicle Rego:	
W CED a ambown	Order No:	Gross Weight:	
Additional Instructions:		Tare Weight: 10.38t.	
*4922 SONO *Newcastle Altourt Access	Daily Progressive Total:	Nett Weight:	
Product Description:	Stockpile No:		
I agree to abide by all RMS Driver Fatigue Management delivery of this load and do so under no duress by Hunto	and Chain of Responsibility legislation in acceptance and er Quarries to breach in any form or part thereof.		
	eceived as per Conditions of Sale on overleaf) ner Signature:		

Distribution: White - Office Copy Pink - Admin Copy Blue - Carrier Copy Yellow - Customer Copy



ABN 15 093 914 937 Andersite Road Karuah NSW 2324 Ph: 4997 5966 Fax: 4997 5933

Accounts	
PO Box 3284	

Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterquarries.com.au

Docket No:

Customer Name: Time Dispatched:		Date: 16/08/2019	
Delivery Address:	Carrier:	Vehicle Rego:	
NO I J Sant Owns	Order No:	Gross Weight: 22.4 58 L	
Additional Instructions:		Tare Weight:	
*A922 Sono *Newcastle Alroort Access Roads	Daily Progressive Total:	Nett Weight: 12.78t	
Product Description:	Stockpile No:	1	
I agree to abide by all RMS Driver Fatigue Management and Chain of Res delivery of this load and do so under no duress by Hunter Quarries to bre			
Drivers Signature: (Goods Received as per Con Customer Signature:	ditions of Sale on overleaf)	40-007 8/2015	
Distribution: White - Office Copy Pink - Admin Copy Blue - C	Carrier Copy Yellow - Customer Cop	y	

Karuah Quarry

ABN 15 093 914 937 Andersite Road Karuah NSW 2324 Ph: 4997 5966 Fax: 4997 5933 **Accounts**

PO Box 3284

Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterquarries.com.au

Docket No:

121347911

Date: 1670872019 Customer Name: Time Dispatched: **Delivery Address:** Vehicle Rego: Carrier: Will Literate rown. Order No: Gross Weight: Additional Instructions: Tare Weight: *0407 111 ass *4922 5000 Daily Progressive Total: Nett Weight: 12.48t *Newcastle Armort Access Boads Product Description: Stockpile No: agree to abide by all RMS Driver Fatigue Management and Chain of Responsibility legislation in acceptance and delivery of this load and do so under no duress by Hunter Quarries to breach in any form or part thereof.

Drivers Signature:

(Goods Received as per Conditions of Sale on overleaf) Customer Signature:

Distribution: White - Office Copy Pink - Admin Copy Blue - Carrier Copy Yellow - Customer Copy



ABN 15 093 914 937 Andersite Road Karuah NSW 2324 Ph: 4997 5966 Fax: 4997 5933

Docket No:	
------------	--

Accounts PO Box 3284

Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterquarries.com.au

Customer Name:	Time Dispatched:	Date: 36/08/2019
Delivery Address:	Carrier:	Vehicle Rego:
Wall rapetown	Order No:	Gross Weight:
Additional Instructions:		Tare Weight:
*A922 \$000 *Newcastle Atruort Arcess Roads	Daily Progressive Total:	Nett Weight:
Product Description:	Stockpile No:	1
I agree to abide by all RMS Driver Fatigue Management and Chain of Respo delivery of this load and do so under no duress by Hunter Quarries to breach		
Drivers Signature: (Goods Received as per Conditions of Sale on overleaf) Customer Signature:		
Distribution: White - Office Copy Pink - Admin Copy Blue - Car	rier Copy Yellow - Customer Cop	<i>y</i>

QUARRIES

Karuah Quarry

ABN 15 093 914 937 Andersite Road Karuah NSW 2324 Ph: 4997 5966 Fax: 4997 5933

Docket No:

Accounts PO Box 3284

Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterguarries.com.au

Customer Name:	Time Dispatched:	Date: 16/08/2019	
Delivery Address:	Carrier:	Vehicle Rego:	
Will knint men	Order No:	Gross Weight:	
Additional Instructions:		Tare Weight:	
*#972 Non0 *Newcastle Altrort Achess Roads	Daily Progressive Total:	Nett Weight:	
Product Description:	Stockpile No:		
agree to abide by all RMS Driver Fatigue Management and Chain of Respondelivery of this load and do so under no duress by Hunter Quarries to breac			
Drivers Signature: (Goods Received as per Condition Customer Signature:	(Goods Received as per Conditions of Sale on overleaf) Customer Signature:		

Distribution: White - Office Copy Pink - Admin Copy Blue - Carrier Copy Yellow - Customer Copy



ABN 15 093 914 937 Andersite Road Karuah NSW 2324 Ph: 4997 5966 Fax: 4997 5933

Acc	ou	nt	<u>s</u>	
	_		_	

PO Box 3284 Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterquarries.com.au

Docket No:

Customer Name:	Time Dispatched:	Date:
Delivery Address:	Carrier:	Vehicle Rego:
Cabbage Free Collections Acr	Order No:	Gross Weight:
Additional Instructions:		Tare Weight:
*A4972 5000 *A4972 5000 *Newdastly Associat Ancess A	Daily Progressive Total:	Nett Weight:
Product Description:	Stockpile No:	1
I agree to abide by all RMS Driver Fatigue Management and C delivery of this load and do so under no duress by Hunter Qu	Chain of Responsibility legislation in acceptance larries to breach in any form or part thereof.	and
Drivers Signature: (Goods Receive Customer S	ed as per Conditions of Sale on overleaf) signature:	

Distribution: White - Office Copy Pink - Admin Copy Blue - Carrier Copy Yellow - Customer Copy



Karuah Quarry

ABN 15 093 914 937 Andersite Road Karuah NSW 2324 Ph: 4997 5966 Fax: 4997 5933

Docket No:

Accounts PO Box 3284

Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterquarries.com.au

Customer Name:	Time Dispatched:	Date: 5/08/2019
Delivery Address:	Carrier:	Vehicle Rego:
Williamtown	Order No:	Gross Weight: 22_72t
Additional Instructions:	7	Tare Weight:
*Newcasile Altront Access Roads	Daily Progressive Total:	Nett Weight:
Product Description:	Stockpile No:	
I agree to abide by all RMS Driver Fatigue Management and Chain of Residelivery of this load and do so under no duress by Hunter Quarries to brea	consibility legislation in acceptance and ach in any form or part thereof.	
Customer Signature:	(Goods Received as per Conditions of Sale on overleaf) Customer Signature:	

Distribution: White - Office Copy Pink - Admin Copy Blue - Carrier Copy Yellow - Customer Copy



ABN 15 093 914 937 Andersite Road Karuah NSW 2324 Ph: 4997 5966 Fax: 4997 5933

Docket	No:
7.2	13825\1
6.4	THE RESIDENCE OF THE PERSON NAMED IN

Accounts

PO Box 3284

Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterquarries.com.au

Customer Name:	Time Dispatched:	Date: 1670872019
Delivery Address:	Carrier:	Vehicle Rego:
Williamtown	Order No:	Gross Weight:
Additional Instructions:		Tare Weight: 10,38t
*A922 5000 *Newcasite Airport Access Roads	Daily Progressive Total:	Nett Weight:
Product Description:	Stockpile No:	/
I agree to abide by all RMS Driver Fatigue Management and Chain of Respondelivery of this load and do so under no duress by Hunter Quarries to breact		
Drivers Signature: (Goods Received as per Condition Customer Signature:	ons of Sale on overleaf)	



Karuah Quarry ABN 15 093 914 937 Andersite Road Karuah NSW 2324 Ph: 4997 5966 Fax: 4997 5933

Docket No:	
B85897891	Ţ

Accounts PO Box 3284

Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterquarries.com.au

Customer Name:	Time Dispatched:	Date: 9/08/2019	
Delivery Address:	Carrier:	Vehicle Rego:	
Williamrown	Order No:	Gross Weight:	
Additional Instructions:		Tare Weight:	-
*A4922 Shon *Newcastin Airport Access Roads	Daily Progressive Total:	Nett Weight: 1.2.501.	
Product Description:	Stockpile No:	7	
I agree to abide by all RMS Driver Fatigue Management and Chain of Respondelivery of this load and do so under no duress by Hunter Quarries to bread			
Drivers Signature: (Goods Received as per Conditi Customer Signature:	ons of Sale on overleaf)		HO_007 8/2015
Distribution: White - Office Copy Pink - Admin Copy Blue - Car	rier Copy Yellow - Customer Cop	V	



Karuah Quarry ABN 15 093 914 937

Andersite Road Karuah NSW 2324 Ph: 4997 5966 Fax: 4997 5933 **Accounts**

PO Box 3284

Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterquarries.com.au

Docket No:

Customer Name:	Time Dispatched:	Date: 9/118/2019
Delivery Address:	Carrier: Peter Trappel	Vehicle Rego:
Williamtown (-e	Order No:	Gross Weight:
Additional Instructions:		Tare Weight:
*Newcystle Airbort Acc	Daily Progressive Total:	Nett Weight:
Product Description:	Stockpile No:	
	ment and Chain of Responsibility legislation in acceptance and Hunter Quarries to breach in any form or part thereof.	
	oods Received as per Conditions of Sale on overleaf) ustomer Signature:	

Distribution: White - Office Copy Pink - Admin Copy Blue - Carrier Copy Yellow - Customer Copy



ABN 15 093 914 937 Andersite Road Karuah NSW 2324 Ph: 4997 5966 Fax: 4997 5933

Docket	No:
RA	

Accounts PO Box 3284

Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterquarries.com.au

Customer Name:	Time Dispatched:	Date: 9/118/2019
Delivery Address:	Carrier:	Vehicle Rego:
Williamrown	Order No:	Gross Weight:
Additional Instructions:		Tare Weight:
*4922 5000 *Newcastle Alreont Access Roads	Daily Progressive Total:	Nett Weight: 12.56t.
Product Description:	Stockpile No:	1.
I agree to abide by all RMS Driver Fatigue Management and Chain of Respondelivery of this load and do so under no duress by Hunter Quarries to bread		
Drivers Signature: (Goods Received as per Condit Customer Signature:	(Goods Received as per Conditions of Sale on overleaf) Customer Signature:	
Distribution: White - Office Copy Pink - Admin Copy Blue - Ca	rrier Copy Yellow - Customer Copy	у

Karuah Quarry

ABN 15 093 914 937 Andersite Road Karuah NSW 2324 Ph: 4997 5966 Fax: 4997 5933 <u>Accounts</u> PO Box 3284

Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterquarries.com.au

Docket No:

Customer Name:		Time Dispatched:	Date:	
Delivery Address:		Carrier:	Vehicle Rego:	
William rown Drive (A) William rown	roort access	Order No:	Gross Weight:	23.00t
Additional Instructions:			Tare Weight:	10,48t
*0407 111 058 *4922 5000 *Newcastle Arroort Ac	cess Poads	Daily Progressive Total:	Nett Weight:	12.521
Product Description:	mis - wow	Stockpile No:		
I agree to abide by all RMS Driver Fatigue Manag delivery of this load and do so under no duress b	gement and Chain of Respo by Hunter Quarries to breac	nsibility legislation in acceptance and h in any form or part thereof.		
	Goods Received as per Condition	ons of Sale on overleaf)		



ABN 15 093 914 937 Andersite Road Karuah NSW 2324 Ph: 4997 5966 Fax: 4997 5933 Accounts PO Box 3284

Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterquarries.com.au

Docket No:

Customer Name:	Time Dispatched:	Date: 1970872019		
Delivery Address: Williamtown throws throws Access	Carrier:	Vehicle Rego:		
Will Liamrews	Order No:	Gross Weight:		
Additional Instructions:		Tare Weight:		
*4922 Shive Allewonstin Aurocci Acyaga Boads	Daily Progressive Total:	Nett Weight:		
Product Description:	Stockpile No:	1		
I agree to abide by all RMS Driver Fatigue Management and Chain of Resp delivery of this load and do so under no duress by Hunter Quarries to bread				
Drivers Signature: (Goods Received as per Condit Customer Signature:	(Goods Received as per Conditions of Sale on overleaf) Customer Signature:		4Q-007 8/2015	
Distribution: White - Office Conv. Pink - Admin Conv. Blue - Carrier Conv. Yellow - Customer Conv.				



Karuah Quarry

ABN 15 093 914 937 Andersite Road Karuah NSW 2324 Ph: 4997 5966 Fax: 4997 5933 Docket No:

Accounts PO Box 3284

Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterquarries.com.au

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	E. adminentinerq	uarnes.com.au	
Customer Name:	Time Dispatched:	Date: 97.0872919	
Delivery Address:	Carrier: Sweetman Haulao	Vehicle Rego:	
William#own	Order No:	Gross Weight:	Ė,
Additional Instructions:		Tare Weight:	t:
*A922 5000 *Newcastle A)roort Access Roads	Daily Progressive Total:	Nett Weight: 12.641	t.
Product Description:	Stockpile No:		
agree to abide by all RMS Driver Fatigue Management and Chain of Respondelivery of this load and do so under no duress by Hunter Quarries to breac	onsibility legislation in acceptance and the in any form or part thereof.		
Drivers Signature: (Goods Received as per Conditi Customer Signature:	11		u z

Distribution: White - Office Copy Pink - Admin Copy Blue - Carrier Copy Yellow - Customer Copy



ABN 15 093 914 937 Andersite Road Karuah NSW 2324 Ph: 4997 5966 Fax: 4997 5933

Docket No:
A213

Accounts PO Box 3284

Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterquarries.com.au

Customer Name:	Time Dispatched:	Date: 9/08/2019
Delivery Address: Williamsown Drive (Airport Access	Carrier:	Vehicle Rego:
Williamcown	Order No:	Gross Weight: 22.86t
Additional Instructions:		Tare Weight: 10.481:
*Newcastle Airport Access Roads	Daily Progressive Total:	Nett Weight: 12.38t
Product Description:	Stockpile No:	¥.
I agree to abide by all RMS Driver Fatigue Management and Chain of Res delivery of this load and do so under no duress by Hunter Quarries to brea	ponsibility legislation in acceptance and ach in any form or part thereof.	
Drivers Signature: (Goods Received as per Conc Customer Signature:	(Goods Received as per Conditions of Sale on overleaf) Customer Signature:	
Distribution: White - Office Copy Pink - Admin Copy Blue - C	arrier Copy Yellow - Customer Cop	HO-007 8000 1



Karuah Quarry ABN 15 093 914 937

Andersite Road Karuah NSW 2324 Ph: 4997 5966 Fax: 4997 5933

Docket No:

Accounts PO Box 3284

Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterquarries.com.au

Customer Name:	Time Dispatched:	Date: 9/08/2019
Delivery Address: Wallambown Drive (Airport Access	Carrier: GW & GJ Trappe	Vehicle Rego:
Williamtown	Order No:	Gross Weight: 22.901
Additional Instructions:		Tare Weight: 9.90t
*4922 5000 ANawcastle Airport Access Roads	Daily Progressive Total:	Nett Weight: 13,001
Product Description:	Stockpile No:	
agree to abide by all RMS Driver Fatigue Management and Chain of Respondelivery of this load and do so under no duress by Hunter Quarries to bread	onsibility legislation in acceptance and sh in any form or part thereof.	
Drivers Signature: (Goods Received as per Condit Customer Signature:	(Goods Received as per Conditions of Sale on overleaf) Customer Signature:	

Pink - Admin Copy Distribution: White - Office Copy Blue - Carrier Copy Yellow - Customer Copy



ABN 15 093 914 937 Andersite Road Karuah NSW 2324 Ph: 4997 5966 Fax: 4997 5933

Docket No:
and a common of the

Accounts
PO Box 3284
Thornton NSW 2322
Ph: 4966 8577 Fax: 4966 8522
E: admin@hunterquarries.com.au

Customer Name:		Time Dispatched:	Date: 9/UR/2	019
Delivery Address:		Carrier: Sweetman Haulag	Vehicle Rego:	
Willamsown brive	LAITPOIL ACHERS	Order No:	Gross Weight:	23,10*
Additional Instructions:			Tare Weight:	10.42t
*4922 NONO *Newcasila Alroor	r Access Roads	Daily Progressive Total:	Nett Weight:	12.68t
Product Description:	W MINIO - RON	Stockpile No:	7	
I agree to abide by all RMS Driver Fatigudelivery of this load and do so under no	ue Management and Chain of Respo duress by Hunter Quarries to bread	onsibility legislation in acceptance and the in any form or part thereof.		
Drivers Signature: (Goods Received as per Conditions of Sale on overleaf) Customer Signature:				
Distribution: White - Office Copy	Pink - Admin Copy Blue - Ca	rrier Copy Yellow - Customer Cop	ру	

HUNTER

Karuah Quarry

ABN 15 093 914 937 Andersite Road Karuah NSW 2324 Ph: 4997 5966 Fax: 4997 5933 Docket No:

Accounts
PO Box 3284
Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterquarries.com.au

Customer Name:		Time Dispatched:	Date: 9/08/2	019
Delivery Address:		Carrier:	Vehicle Rego:	
Williamtown Drive (A. Williamtown	LEDGEE ACCORS	Order No:	Gross Weight:	22.62t
Additional Instructions:			Tare Weight:	10.48t
*0407 111 358 *4922 5000 *Newcastle Althort A	ndess Roads	Daily Progressive Total:	Nett Weight:	12.14t
Product Description:	vaine eest	Stockpile No: ATRAX		
I agree to abide by all RMS Driver Fatigue Mandelivery of this load and do so under no duress	agement and Chain of Res by Hunter Quarries to bre	ponsibility legislation in acceptance and ach in any form or part thereof.		
Drivers Signature:	(Goods Received as per Cond Customer Signature:	ditions of Sale on overleaf)		



ABN 15 093 914 937 Andersite Road Karuah NSW 2324 Ph: 4997 5966 Fax: 4997 5933

Accounts

PO Box 3284

Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterquarries.com.au

Docket No:

Customer Name:		Time Dispatched:	Date: 9/08/2	019
Delivery Address: Williamtown Drive (Airbort Access F		Carrier:	Vehicle Rego:	
		Order No:	Gross Weight:	22.74t
Additional Instructions:	1		Tare Weight:	10.48t
*4922 HOGO *Newcastie Aliport A	cuess Roads	Daily Progressive Total:	Nett Weight:	12.26t
Product Description:	TRUS - RON	Stockpile No:	1	
l agree to abide by all RMS Driver Fatigue Man delivery of this load and do so under no duress	nagement and Chain of Respo s by Hunter Quarries to breac	nsibility legislation in acceptance and h in any form or part thereof.		7,75,
Drivers Signature:	(Goods Received as per Condition Customer Signature:	ons of Sale on overleaf)		
Distribution: White - Office Copy Pink	- Admin Copy Blue - Car	rier Copy Yellow - Customer Cop	V	

QUARRIES

Karuah Quarry

ABN 15 093 914 937 Andersite Road

Karuah NSW 2324 Ph: 4997 5966 Fax: 4997 5933

Docket No:

Accounts PO Box 3284

Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterguarries.com.au

Customer Name:	Time Dispatched:	Date: 9/08/2019
Delivery Address: Williamnown Drive (Allport Access)	Carrier: Sweetman Haula	Vehicle Rego:
Williamsown	Order No:	Gross Weight: 72.901
Additional Instructions:		Tare Weight: 10.42t
*A922 5000 *Newcastle Airport Access Roads	Daily Progressive Total;	Nett Weight: 12.48t
Product Description:	Stockpile No:	
agree to abide by all RMS Driver Fatigue Management and Chain of Respondelivery of this load and do so under no duress by Hunter Quarries to bread		
Drivers Signature: (Goods Received as per Condit Customer Signature:	ions of Sale on overleaf)	

Distribution: White - Office Copy Pink - Admin Copy Blue - Carrier Copy Yellow - Customer Copy



ABN 15 093 914 937 Andersite Road Karuah NSW 2324 Ph: 4997 5966 Fax: 4997 5933 Docket No:

Accounts
PO Box 3284

Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterquarries.com.au

Customer Name:	Time Dispatched:	Date: 9/08/2019
Delivery Address: Williamtown Arrive (Allrhort Access	Carrier:	Vehicle Rego:
Williamtown	Order No:	Gross Weight:
Additional Instructions:		Tare Weight: 9 901:
A4922 SOON ANGWERSTIG Aircont Arcissa Roads	Daily Progressive Total:	Nett Weight:
Product Description:	Stockpile No:	1
I agree to abide by all RMS Driver Fatigue Management and Chain of Res delivery of this load and do so under no duress by Hunter Quarries to brea		
Orivers Signature: (Goods Received as per Conditions of Sale on overleaf) Customer Signature:		
Distribution: White - Office Copy Pink - Admin Copy Blue - C	arrier Copy Yellow - Customer Cop	у



Karuah Quarry

ABN 15 093 914 937 Andersite Road Karuah NSW 2324

Ph: 4997 5966 Fax: 4997 5933

Docket No:

E: admin@hunterquarries.com.au

Accounts
PO Box 3284
Thornton NSW 239

Thornton NSW 2322 Ph: 4966 8577 Fax: 4966 8522

Customer Name: Date: 9/08/2019 Time Dispatched: Delivery Address: Vehicle Rego: Carrier: Weetman Mania Order No: Gross Weight: Additional Instructions: Tare Weight: 10.426 *0407 111 358 *4922 5000 Daily Progressive Total: Nett Weight: *Newcastle Airport Access Roads 12.601; **Product Description:** Stockpile No: I agree to abide by all RMS Driver Fatigue Management and Chain of Responsibility legislation in acceptance and delivery of this load and do so under no duress by Hunter Quarries to breach in any form or part thereof. Drivers Signature: (Goods Received as per Conditions of Sale on overleaf) Customer Signature:

Distribution: White - Office Copy Pink - Admin Copy Blue - Carrier Copy Yellow - Customer Copy

10-007 R/2018



Andersite Road Karuah NSW 2324 Ph: 4997 5966 Fax: 4997 5933 Accounts PO Box 3284

Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterquarries.com.au

Docket No:

Customer Name:		Time Dispatched:	Date: 970872	019
Delivery Address:	(Airport Access	Carrier:	Vehicle Rego:	
Will ishir own		Order No:	Gross Weight:	22.98t
Additional Instructions:			Tare Weight:	10.48t
*4922 5000 *Newcastle Altron	T Access Poads	Daily Progressive Total:	Nett Weight:	12.50r
Product Description:	nt	Stockpile No:	1	
I agree to abide by all RMS Driver Fatigudelivery of this load and do so under no	e Management and Chain of Respo duress by Hunter Quarries to breac	onsibility legislation in acceptance and h in any form or part thereof.		
Drivers Signature:	(Goods Received as per Conditi Customer Signature:	ons of Sale on overleaf)		
Distribution: White - Office Copy	Pink - Admin Copy Blue - Car	rier Copy Yellow - Customer Cop	y	

QUARRIES

Karuah Quarry

ABN 15 093 914 937 Andersite Road Karuah NSW 2324

Docket No:

Accounts PO Box 3284

Thornton NSW 2322 Ph: 4966 8577 Fax: 4966 8522

Customer Name:	Time Dispatched:	Date: 19708/2019
Delivery Address:	Carrier: Sweetman Haul	Vehicle Rego:
Wy I (y amir own	Order No:	Gross Weight:
Additional Instructions:		Tare Weight: 10.42t
*Wewcastin Arroom Acces	Daily Progressive Total:	Nett Weight:
Product Description:	Stockpile No:	
agree to abide by all RMS Driver Fatigue Management delivery of this load and do so under no duress by Hui	t and Chain of Responsibility legislation in acceptance ar ter Quarries to breach in any form or part thereof.	nd
Drivers Signature: (Goods Custo	Received as per Conditions of Sale on overleaf) mer Signature:	

Distribution: White - Office Copy Pink - Admin Copy Blue - Carrier Copy Vellow - Customer Copy



Andersite Road Karuah NSW 2324 Ph: 4997 5966 Fax: 4997 5933

Ac	cou	nts

PO Box 3284

Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterquarries.com.au

Docket No:

Customer Name:	Time Dispatched:	Date: 19/08/2019
Delivery Address: KCR Williamtown Drive (Airport Access) Williamtown	Carrier: GW & GJ Trappe Order No:	Vehicle Rego: Gross Weight:
Additional Instructions:		Tare Weight: 9 90 h
*0407 111 358 *4922 5000 *Newcastle Airport Access Roads	Daily Progressive Total:	Nett Weight: 13.08b
Product Description:	Stockpile No:	7
I agree to abide by all RMS Driver Fatigue Management and Chain of Respondelivery of this load and do so under no duress by Hunter Quarries to breach	nsibility legislation in acceptance and in any form or part thereof.	
Drivers Signature: (Goods Received as per Condition Customer Signature:	ons of Sale on overleaf)	TANKE COURT
Distribution: White - Office Copy Pink - Admin Copy Blue - Carr	rier Copy Yellow - Customer Copy	/

QUARRIES

Karuah Quarry ABN 15 093 914 937

Andersite Road Karuah NSW 2324

Ph: 4997 5966 Fax: 4997 5933

Docket No:

<u>Accounts</u>

PO Box 3284 Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterquarries.com.au.

Customer Name:	Time Dispatched:	Date: 19/08/2019
Delivery Address:	Carrier: GW & GJ Trappe	Vehicle Rego:
Will Laist own	Order No:	Gross Weight:
Additional Instructions:	I.	Tare Weight: 9,901
*Newcastie Altoort Ade	Daily Progressive Total:	Nett Weight: 1.2.84 f.
Product Description:	Stockpile No:	
I agree to abide by all RMS Driver Fatigue Managem delivery of this load and do so under no duress by F	ent and Chain of Responsibility legislation in acceptance and lunter Quarries to breach in any form or part thereof.	
Drivers Signature: (Goo	ds Received as per Conditions of Sale on overleaf) tomer Signature:	
Jan Miller		

Distribution: White - Office Copy Pink - Admin Copy Blue - Carrier Copy Vellow - Customer Co



ABN 15 093 914 937 Andersite Road Karuah NSW 2324 Ph: 4997 5966 Fax: 4997 5933

Accounts

PO Box 3284

Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterquarries.com.au

Docket No:

		*		
Customer Name:		Time Dispatched:	Date:	7/19
Delivery Address:	riport Access (Carrier: Sweetman Haulan	Vehicle Rego:	
at I to a decrease to		Order No:	Gross Weight:	2280£
Additional Instructions:			Tare Weight:	10.421
Mewchat In Aliport Actuals Roads		Daily Progressive Total:	Nett Weight:	12.386
Product Description:	PHH 1 - 19774	Stockpile No:	7	
I agree to abide by all RMS Driver Fatigue Mana delivery of this load and do so under no duress	agement and Chain of Respo by Hunter Quarries to breach	nsibility legislation in acceptance and in any form or part thereof.		
	(Goods Received as per Condition Customer Signature:	ons of Sale on overleaf)		

Distribution: White - Office Copy Pink - Admin Copy Blue - Carrier Copy Yellow - Customer Copy



Karuah Quarry ABN 15 093 914 937

Andersite Road Karuah NSW 2324 Ph: 4997 5966, Fax: 4997 5933

Docket No:

Accounts PO Box 3284

Thornton NSW 2322 Ph: 4966 8577 Fax: 4966 8522

Customer Name:	Time Dispatched:	Date: 19/08/2019
Delivery Address:	Carrier:	Vehicle Rego:
Wall Cramt own	Order No:	Gross Weight: 72,701
Additional Instructions:	X	Tare Weight: 9.901.
*4922 5000 *Newcastle Airport Access Roads	Daily Progressive Total:	Nett Weight: 12.80t
Product Description:	Stockpile No:	
agree to abide by all RMS Driver Fatigue Management and Chain of Resp delivery of this load and do so under no duress by Hunter Quarries to brea	onsibility legislation in acceptance and ch in any form or part thereof.	
Drivers Signature: (Goods Received as per Condi Customer Signature:	tions of Sale on overleaf)	

Distribution: White - Office Copy Pink - Admin Copy Blue - Carrier Copy



ABN 15 093 914 937 Andersite Road Karuah NSW 2324 Ph: 4997 5966 Fax: 4997 5933

Docket No:

Accounts PO Box 3284

Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterquarries.com.au

Customer Name:	Time Dispatched:	Date: 2/08/2019
Delivery Address:	Carrier:	Vehicle Rego:
Max leggin com-	Order No:	Gross Weight: 22, 861
Additional Instructions:		Tare Weight:
*Newdaris Airmort Access Roads	Daily Progressive Total:	Nett Weight: 12.961.
Product Description:	Stockpile No:	3
I agree to abide by all RMS Driver Fatigue Management and Chain of Respondelivery of this load and do so under no duress by Hunter Quarries to bread		
Drivers Signature: (Goods Received as per Condit Customer Signature:	(Goods Received as per Conditions of Sale on overleaf) Customer Signature:	
Distribution: White - Office Copy Pink - Admin Copy Blue - Ca	rrier Copy Yellow - Customer Cop	y



Karuah Quarry

ABN 15 093 914 937 Andersite Road Karuah NSW 2324

Ph: 4997 5966 Fax: 4997 5933

Docket No:

Accounts PO Box 3284

Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterquarries.com.au

Customer Name:	Time Dispatched:	Date:	019
Delivery Address: Will Lamborgo (IF IVAL DA) PROTT Aceta	Carrier: Sweet man Haula	Vehicle Rego:	
Wy L 1-1 santr cycn	Order No:	Gross Weight:	23.22t
Additional Instructions:		Tare Weight:	10.981
**************************************	Daily Progressive Total:	Nett Weight:	12.24t
Product Description:	Stockpile No:	7	
agree to abide by all RMS Driver Fatigue Management and Chain of delivery of this load and do so under no duress by Hunter Quarries to	Responsibility legislation in acceptance and breach in any form or part thereof.		
	(Goods Received as per Conditions of Sale on overleaf) Customer Signature;		

Distribution: White - Office Copy Pink - Admin Copy Blue - Carrier Copy Yellow - Customer Copy



ABN 15 093 914 937 Andersite Road Karuah NSW 2324

Ph: 4997 5966 Fax: 4997 5933

Accounts

PO Box 3284 Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterquarries.com.au

Docket No:

Customer Name:	_ = -1 _ 1 -	Time Dispatched:	Date: 2708/2019
Delivery Address:	ort Access F	Carrier:	Vehicle Rego:
Wall rame own		Order No:	Gross Weight: 22.70 t
Additional Instructions:			Tare Weight: 10.38t.
*4922 5000 *Newcasile Airport Aces	sss Roads	Daily Progressive Total:	Nett Weight:
Product Description:	161 - 9016	Stockpile No:	<i>y</i>
I agree to abide by all RMS Driver Fatigue Managem delivery of this load and do so under no duress by F			
	(Goods Received as per Conditions of Sale on overleaf) Customer Signature:		
Distribution: White - Office Copy Pink - Add	min Copy Blue - Carr	ier Copy Yellow - Customer Cop	/

Karuah Quarry ABN 15 093 914 937

Andersite Road Karuah NSW 2324 Ph: 4997 5966 Fax: 4997 5933 **Accounts**

PO Box 3284

Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterquarries.com.au

Docket No:

Customer Name:	Time Dispatched;	Date: 2708/2019
" KCB	7:13 AM	22/00/2015
Delivery Address:	Carrier:	Vehicle Rego:
Williamiows brise (Airport	Addess R	
Mattisutions	Order No:	Gross Weight:
Additional Instructions:		Tare Weight:
#4922 Sond #Newcastle Arcourt Access	Daily Progressive Total:	Nett Weight: 12.201
Product Description:	Stockpile No:	
l agree to abide by all RMS Driver Fatigue Management an delivery of this load and do so under no duress by Hunter		
	eived as per Conditions of Sale on overleaf)	

Distribution: White - Office Copy Pink - Admin Copy Blue - Carrier Copy Yellow - Customer Copy



ABN 15 093 914 937 Andersite Road Karuah NSW 2324 Ph: 4997 5966 Fax: 4997 5933 Docket No:

Accounts PO Box 3284 Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterquarries.com.au

Customer Name:		Time Dispatched:	Date: 22/08/20	779
Delivery Address:	roort Acmass E	Carrier:	Vehicle Rego:	
Will Ungright there		Order No:	Gross Weight:	22.721
Additional Instructions:			Tare Weight:	9.90t
*Newpastle Airport Acc	cass Roads	Daily Progressive Total:	Nett Weight:	12.82t
Product Description:	RHS - MH	Stockpile No:	7	
I agree to abide by all RMS Driver Fatigue Manage delivery of this load and do so under no duress by				
	oods Received as per Conditio ustomer Signature:		40-007 8/2015	
Distribution: White - Office Copy Pink - A	admin Copy Blue - Carr	ier Copy Yellow - Customer Copy	y	



Karuah Quarry ABN 15 093 914 937

Andersite Road Karuah NSW 2324 Ph: 4997 5966 Fax: 4997 5933

<u>Accounts</u>

PO Box 3284 Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterquarries.com.au

Docket No:

Customer Name:	Time Dispatched:	Date: 2/08/2019
Delivery Address: CR	Carrier:	Vehicle Rego:
Wall Familian	Order No:	Gross Weight:
Additional Instructions:		Tare Weight: 10,98t,
*4922 5000 *Newcastle Alrhort Access Roads	Daily Progressive Total:	Nett Weight:
Product Description:	Stockpile No:	
agree to abide by all RMS Driver Fatigue Management and Chain of Redelivery of this load and do so under no duress by Hunter Quarries to br	esponsibility legislation in acceptance and each in any form or part thereof.	
Drivers Signature: (Goods Received as per Col Customer Signature:	nditions of Sale on overleaf)	

Distribution: White - Office Copy Pink - Admin Copy Blue - Carrier Copy Yellow - Customer Copy



ABN 15 093 914 937 Andersite Road Karuah NSW 2324 Ph: 4997 5966 Fax: 4997 5933

Docket	No
スス	13

Accounts PO Box 3284

Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterquarries.com.au

Customer Name:	Time Dispatched:	Date: 2/08/2019
Delivery Address:	Carrier:	Vehicle Rego:
Williambown Drive LAirport Access Williambown	Order No:	Gross Weight: 22,60t
Additional Instructions:		Tare Weight:
W4922 5000 Whawcastin Almout Access Boads	Daily Progressive Total:	Nett Weight: 12.22t
Product Description:	Stockpile No:	1
I agree to abide by all RMS Driver Fatigue Management and Chain of Respectivery of this load and do so under no duress by Hunter Quarries to breat Drivers Signature: (Goods Received as per Condicustomer Signature:	ch in any form or part thereof. tions of Sale on overleaf)	THE PROPERTY OF THE PROPERTY O
Distribution: White - Office Copy Pink - Admin Copy Blue - Ca	arrier Copy Yellow - Customer Cop	y

HUNTER

Karuah Quarry ABN 15 093 914 937

ABN 15 093 914 937 Andersite Road Karuah NSW 2324 Ph: 4997 5966 Fax: 4997 5933 ____

Accounts PO Box 3284

Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterquarries.com.au

Docket No:

Customer Name:	Time Dispatched:	Date: 27/08/2019
Delivery Address:	Carrier: Pater Trappel	Vehicle Rego:
Mig I I penal aroun	Order No:	Gross Weight:
Additional Instructions:		Tare Weight: 10.43t
*4922 5000 *Newcastle attoric Anness	Daily Progressive Total:	Nett Weight: 12.32t
Product Description:	Stockpile No:	
l agree to abide by all RMS Driver Fatigue Management delivery of this load and do so under no duress by Hunte	and Chain of Responsibility legislation in acceptance and er Quarries to breach in any form or part thereof.	1
	eceived as per Conditions of Sale on overleaf) eer Signature;	

Distribution: White - Office Copy Pink - Admin Copy Blue - Carrier Copy Yellow - Customer Copy

HQ-007 8/2015



ABN 15 093 914 937 Andersite Road Karuah NSW 2324 Ph: 4997 5966 Fax: 4997 5933 **Accounts**

PO Box 3284

Thornton NSW 2322 Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterquarries.com.au

Docket No:

Customer Name:	Time Dispatched:	Date: 27/08/2019		
Delivery Address: Will ramfown Drive LAirport Access I	Carrier:	Vehicle Rego:		
Wall mar own	Order No:	Gross Weight:		
Additional Instructions:		Tare Weight:		
*4922 5000 *Newcastle Airport Access Roads	Daily Progressive Total:	Nett Weight: 12, 461		
Product Description:	Stockpile No:	J.		
I agree to abide by all RMS Driver Fatigue Management and Chain of Responsibility legislation in acceptance and delivery of this load and do so under no duress by Hunter Quarries to breach in any form or part thereof. Drivers Signature: (Goods Received as per Conditions of Sale on overleaf) Customer Signature:				
istribution: White - Office Copy Pink - Admin Copy Blue - Carrier Copy Yellow - Customer Copy				



Karuah Quarry ABN 15 093 914 937

Andersite Road Karuah NSW 2324

Ph: 4997 5966 Fax: 4997 5933

Accounts

PO Box 3284

Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterguarries.com.au

Docket No:

Customer Nemer	T. B	T	
Customer Name:	Time Dispatched:	Date: 22/08/20	019
Delivery Address: KCF WILLIAM LOWE TRIPED TO ACKE	Carrier: (TW & G.) Trappe	Vehicle Rego:	
Wa I La ame own	Order No:	Gross Weight:	22.92t
Additional Instructions:		Tare Weight:	9.90t
*Newrastle Althort Access Roads	Daily Progressive Total:	Nett Weight:	13.02t
Product Description:	Stockpile No:		
l agree to abide by all RMS Driver Fatigue Management and Chain of delivery of this load and do so under no duress by Hunter Quarries to	Responsibility legislation in acceptance and breach in any form or part thereof.		
	(Goods Received as per Conditions of Sale on overleaf) Customer Signature:		

Distribution: White - Office Copy Pink - Admin Copy Blue - Carrier Copy Yellow - Customer Copy



ABN 15 093 914 937 Andersite Road Karuah NSW 2324 Ph: 4997 5966 Fax: 4997 5933

Docket No:
PS (C)(73 (C) 3

Accounts PO Box 3284

Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterquarries.com.au

Customer Name:		Time Dispatched:	Date:	0.19
Delivery Address:	Altoori Access	Carrier:	Vehicle Rego:	
at a 1-1 with court		Order No:	Gross Weight:	22 .821
Additional Instructions:			Tare Weight:	10.481
*4922 Somi *Newdarine Airport	Access Roads	Daily Progressive Total:	Nett Weight:	12.34t
Product Description:	HOM - HOM	Stockpile No:	J	
I agree to abide by all RMS Driver Fatigue Madelivery of this load and do so under no dure Drivers Signature:	anagement and Chain of Responses by Hunter Quarries to bread	ch in any form or part thereof.		
	Customer Signature:	16lb		0-007 8/2015
Distribution: White - Office Copy Pin	k - Admin Copy Blue - Ca	rrier Copy Yellow - Customer Cop	y	



Drivers Signature:

Karuah Quarry

ABN 15 093 914 937 Andersite Road Karuah NSW 2324 Ph: 4997 5966 Fax: 4997 5933 Docket No:

Accounts PO Box 3284 Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterquarries.com.au

Time Dispatched: Date: 2708/2019 Customer Name: Vehicle Rego: Delivery Address: Sweetman Haula Williamtown brave (Airport Actions) Order No: Gross Weight: 23.421 Additional Instructions: Tare Weight: 10.981 *0407 111 358 *4922 5000 Daily Progressive Total: Nett Weight: 12.44t Stockpile No: Product Description: l agree to abide by all RMS Driver Fatigue Management and Chain of Responsibility legislation in acceptance and delivery of this load and do so under no duress by Hunter Quarries to breach in any form or part thereof.

(Goods Received as per Conditions of Sale on overleaf)

Distribution: White - Office Copy Pink - Admin Copy Blue - Carrier Copy Yellow - Customer Copy

Customer Signature:



ABN 15 093 914 937 Andersite Road Karuah NSW 2324 Ph: 4997 5966 Fax: 4997 5933 Accounts PO Box 3284

Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterquarries.com.au

Docket No:

Customer Name:		training Di	1	
A C M		Time Dispatched:	Date:	03.0
			-	
Delivery Address:		Carrier:		
KUR		Burns Race hmov	Vehicle Rego:	
Wildiambows Hrive	"AUTOOFT Amcess !			
Williammenen		Order No.		
		Order No:	Gross Weight:	22.58T
Additional Instructions:			Tour Mainte	
			Tare Weight:	10.761
*0407 111 358				
	American March	Daily Progressive Total:	Nett Weight:	
*Newcastla Airport	ACCESS KORDS	Lawy 1 regressive total.	ivett vveignt;	11.82t
16 Rt - 2 - 2 I - 14 s s	TEPRITO WOW		140	
Product Description:	- 10 30	Stockpile No:	1	
		AXEAR		
agree to shide by all DMO D : E				
agree to abide by all RMS Driver Fatigue Melivery of this load and do so under no dur	Management and Chain of Respon	nsibility legislation in acceptance and		
,	ess by Hunter Quarries to breach	in any form or part thereof.		
Orivers Signature:	(Goods Received as per Conditions of Sale on overleaf)			
Customer Signature:				
20/		-52		
1-1-11 11 11 11 11 11 11 11 11 11 11 11		LOS I		

Distribution: White - Office Copy Pink - Admin Copy Blue - Carrier Copy Yellow - Customer Copy



Karuah Quarry

ABN 15 093 914 937 Andersite Road Karuah NSW 2324

Ph: 4997 5966 Fax: 4997 5933

Docket No:

Accounts
PO Box 3284
Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterquarries.com.au

Customer Name:	Time Dispatched:	Date:	0.1 %:
Delivery Address: Will Lambown Drive (Altport Access	Carrier:	Vehicle Rego:	
Wall Lamtown	Order No:	Gross Weight:	22.72t
Additional Instructions:		Tare Weight:	10.38t
*Newcastle Althort Access Roads	Daily Progressive Total:	Nett Weight:	12:34t
Product Description:	Stockpile No: Areas		
I agree to abide by all RMS Driver Fatigue Management and Chain of Residelivery of this load and do so under no duress by Hunter Quarries to breather.	ponsibility legislation in acceptance and ach in any form or part thereof.		
Drivers Signature: (Goods Received as per Conditions of Sale on overleaf) Customer Signature:			



ABN 15 093 914 937 Andersite Road Karuah NSW 2324 Ph: 4997 5966 Fax: 4997 5933

Α	CC	οι	ın	ts		
-	_			_	_	

PO Box 3284

Thornton NSW 2322 Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterquarries.com.au

Docket No:

Customer Name:		Time Dispatched:	Date:
Delivery Address:	rport Access	Carrier: GW & GJ TYHDDE	Vehicle Rego:
With Example on		Order No:	Gross Weight:
Additional Instructions:			Tare Weight: 9.901
*Newcastle Althor Ac	- 4	Daily Progressive Total:	Nett Weight: 12 901
Product Description:	MUS - NOW	Stockpile No: ATORR	1
I agree to abide by all RMS Driver Fatigue Mana delivery of this load and do so under no duress l	gement and Chain of Respo by Hunter Quarries to breach	nsibility legislation in acceptance and in any form or part thereof.	
	(Goods Received as per Conditions of Sale on overleaf) Customer Signature:		
Distribution: White - Office Copy Pink -	Admin Copy Blue - Carl	rier Copy Yellow - Customer Cop	V



Karuah Quarry ABN 15 093 914 937

Andersite Road Karuah NSW 2324

Ph: 4997 5966 Fax: 4997 5933

Docket No:

Accounts PO Box 3284

Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterquarries.com.au

Customer Name:	Time Dispatched:	Date: 07/08/2019
Delivery Address:	Carrier: GW & GJ Trappe	Vehicle Rego:
With transform	Order No:	Gross Weight: 72.76.
Additional Instructions:		Tare Weight:
*Mewcast (# Alriver Arcass Roads	Daily Progressive Total:	Nett Weight: 12.86.E.
Product Description:	Stockpile No:	
I agree to abide by all RMS Driver Fatigue Management and Chain of Re delivery of this load and do so under no duress by Hunter Quarries to bro	sponsibility legislation in acceptance and each in any form or part thereof.	
Drivers Signature: (Goods Received as per Cor Customer Signature:	(Goods Received as per Conditions of Sale on overleaf) Customer Signature:	

Distribution: White - Office Copy Pink - Admin Copy Blue - Carrier Copy Yellow - Customer Copy



ABN 15 093 914 937 Andersite Road Karuah NSW 2324 Ph: 4997 5966 Fax: 4997 5933

PO Box 3284

Thornton NSW 2322 Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterquarries.com.au

Docket No:

Customer Name:	Time Dispatched:	Date: 07/18/2014
Delivery Address:	Carrier: Pater Trappel	Vehicle Rego:
Williamtown brive Chirphri Access Williamtown	Order No:	Gross Weight: 22 801
Additional Instructions:		Tare Weight:
*4922 5000 *Newcastle Althort Access Roads	Daily Progressive Total:	Nett Weight: 12.32t
Product Description:	Stockpile No: ATRAS	Z.
I agree to abide by all RMS Driver Fatigue Management and Chain of Responsibility legislation in acceptance and delivery of this load and do so under no duress by Hunter Quarries to breach in any form or part thereof. Drivers Signature: (Goods Received as per Conditions of Sale on overleaf) Customer Signature:		10-007 a/2015
Distribution: White - Office Copy Pink - Admin Copy Blue - C	Carrier Copy Yellow - Customer Cop	у

QUARRIES

Karuah Quarry ABN 15 093 914 937

Andersite Road Karuah NSW 2324

Docket No:

<u>Accounts</u> PO Box 3284

Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522

Ph: 49	997 5966 Fax: 4997 593	33 E: admin@hunterqu	iarries.com.au	
Customer Name:		Time Dispatched:	Date: 0708/2	019
Delivery Address:	rport Access	Carrier: GW & GJ Trappel	Vehicle Rego:	Healt
Will Takimtown		Order No:	Gross Weight:	22 945
Additional Instructions:			Tare Weight:	9.90t
*0407 111 358 *4922 5000 *Newcastle Alroort Ad	roess Roads	Daily Progressive Total:	Nett Weight:	13.04t
Product Description:	INUS - WON	Stockpile No:	Te	
agree to abide by all RMS Driver Fatigue Management and Chain of Responsibility legislation in acceptance and delivery of this load and do so under no duress by Hunter Quarries to breach in any form or part thereof.				
Drivers Signature: (Goods Received as per Conditions of Sale on overleaf) Customer Signature:				

Distribution: White - Office Copy Pink - Admin Copy Blue - Carrier Copy Yellow - Customer Copy



ABN 15 093 914 937 Andersite Road Karuah NSW 2324 Ph: 4997 5966 Fax: 4997 5933

Accounts	
----------	--

PO Box 3284

Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterquarries.com.au

Docket No:

Customer Name:		Time Dispatched:	Date: 207.087.2019	
Delivery Address:	Name of the second	Carrier:	Vehicle Rego:	
Williamstown begins a	ALTERY CALMANN	Order No:	Gross Weight:	86 t
Additional Instructions:			Tare Weight:	48t
*ANDO SONO *Newcast) & Airport	Arcess Roads	Daily Progressive Total:	Nett Weight:	38t
Product Description:	bruns una	Stockpile No:	ž.	
I agree to abide by all RMS Driver Fatigue Madelivery of this load and do so under no dure				
Drivers Signature:	(Goods Received as per Condition Customer Signature:	ons of Sale on overleaf)		
Distribution White Office Come Din	L. Ashasia Osama Diagona			

Distribution: White - Office Copy Pink - Admin Copy Blue - Carrier Copy Yellow - Customer Copy



Karuah Quarry

ABN 15 093 914 937 Andersite Road Karuah NSW 2324

Ph: 4997 5966 Fax: 4997 5933

Docket No:

Accounts PO Box 3284

Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterguarries.com.au

Customer Name:	Time Dispatched:	Date:	019
Delivery Address:	Carrier: Furns Rarthmov	Vehicle Rego:	
Williamtown	Order No:	Gross Weight:	22.58t
Additional Instructions:		Tare Weight:	10.76t
AMAYCASTIC ATTOOL ACCESS Roads	Daily Progressive Total:	Nett Weight:	11.821
Product Description:	Stockpile No:		
agree to abide by all RMS Driver Fatigue Management and Chain of Respletivery of this load and do so under no duress by Hunter Quarries to brea Orivers Signature: (Goods Received as per Conditional Customer Signature:	ch in any form or part thereof.		

Distribution: White - Office Copy Pink - Admin Copy Blue - Carrier Copy Vellow - Customo



ABN 15 093 914 937 Andersite Road Karuah NSW 2324 Ph: 4997 5966 Fax: 4997 5933

Docket	No:	
	1.33	59

Accounts
PO Box 3284
Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterquarries.com.au

Customer Name:		Time Dispatched:	Date:	019
Delivery Address:	Access	Carrier:	Vehicle Rego:	
Mar Crawling Property		Order No:	Gross Weight:	22,86±
Additional Instructions:			Tare Weight:	in Set
*Newcastle Arrort A	Coess Roads	Daily Progressive Total:	Nett Weight:	12.48t
Product Description:	11:E1190 — 18:OH	Stockpile No:	y	
I agree to abide by all RMS Driver Fatigue Maddelivery of this load and do so under no dures				
Drivers Signature:	(Goods Received as per Conditions of Sale on overleaf) Customer Signature:			0.000
Distribution: White - Office Copy Pink	- Admin Copy Blue - Car	rier Copy Yellow - Customer Cop	V	



Karuah Quarry ABN 15 093 914 937

ABN 15 093 914 937 Andersite Road Karuah NSW 2324 Ph: 4997 5966 Fax: 4997 5933 Docket No:

Accounts PO Box 3284

Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterquarries.com.au

Customer Name:	Time Dispatched:	Date:
Delivery Address:	Carrier:	Vehicle Rego:
WTITISHITOHO	Order No:	Gross Weight:
Additional Instructions:		Tare Weight: 10 39+
*Mewcarile Alroni Access Roads	Daily Progressive Total;	Nett Weight: 12,45t
Product Description:	Stockpile No:	
agree to abide by all RMS Driver Fatigue Management and Chain of Respondelivery of this load and do so under no duress by Hunter Quarries to bread	onsibility legislation in acceptance and sh in any form or part thereof.	
Drivers Signature: (Goods Received as per Condit Customer Signature:	ions of Sale on overleaf)	

Distribution: White - Office Copy Pink - Admin Copy Blue - Carrier Copy Vellage Corte

J-007 B/2018



ABN 15 093 914 937 Andersite Road Karuah NSW 2324 Ph: 4997 5966 Fax: 4997 5933

	Docket No:
ounts	26 33 31 53 53 5 7 1 1
Ourits	

Accounts
PO Box 3284
Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterquarries.com.au

Customer Name:	Time Dispatched:	Date: (1708/2019
Delivery Address:	Carrier:	Vehicle Rego:
MILL I beild were	Order No:	Gross Weight:
Additional Instructions:		Tare Weight:
NAMES DE LA COURT ACTURE ROACE	Daily Progressive Total:	Nett Weight:
Product Description:	Stockpile No:	1
I agree to abide by all RMS Driver Fatigue Management and Chain of Respondelivery of this load and do so under no duress by Hunter Quarries to bread	onsibility legislation in acceptance and h in any form or part thereof.	
Drivers Signature: (Goods Received as per Conditions of Sale on overleaf) Customer Signature:		
Distribution: White - Office Copy Pink - Admin Copy Blue - Car	rier Copy Yellow - Customer Cop	y

HUNTER

Karuah Quarry

ABN 15 093 914 937 Andersite Road Karuah NSW 2324 Ph: 4997 5966, Fax: 4997 5933 Docket No:

Accounts PO Box 3284

Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterguarries.com.au

Customer Name:	Time Dispatched:	Date:	010
Delivery Address:	Carrier:	Vehicle Rego:	
With autown	Order No:	Gross Weight:	22.971
Additional Instructions:		Tare Weight:	10.38t
*4922 5000 *Newcastle Airport Access Poads	Daily Progressive Total:	Nett Weight:	12,54t
Product Description:	Stockpile No:		
agree to abide by all RMS Driver Fatigue Management and Chain of Resp delivery of this load and do so under no duress by Hunter Quarries to brea			
Orivers Signature: (Goods Received as per Condi	tions of Sale on overleaf)		

Distribution: White - Office Copy Pink - Admin Copy Blue - Carrier Copy Yellow - Customer Copy

HQ-007 8/2015



ABN 15 093 914 937 Andersite Road Karuah NSW 2324 Ph: 4997 5966 Fax: 4997 5933

Docket No:
A21364311

Accounts PO Box 3284 Thornton NSW 2322 Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterquarries.com.au

Time Dispatched:	Date: 0708 /2019	
	Vehicle Rego:	
Order No:	Gross Weight: 22 You	
	Tare Weight: g. got	
Daily Progressive Total:	Nett Weight: 12.86t	
Stockpile No:	1	
Responsibility legislation in acceptance and breach in any form or part thereof.		
(Goods Received as per Conditions of Sale on overleal) Customer Signature:		
	Carrier: Order No: Daily Progressive Total: Stockpile No: Responsibility legislation in acceptance and breach in any form or part thereof. Conditions of Sale on overleaf)	

QUARRIES

Karuah Quarry ABN 15 093 914 937

Andersite Road Karuah NSW 2324 Ph: 4997 5966 Fax: 4997 5933

Docket No:

Accounts PO Box 3284

Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterquarries.com.au

Customer Name:		Time Dispatched:	Date: 0708/2019	,
Delivery Address: William rown Drive (A) re	ort Access	Carrier:	Vehicle Rego:	
Will Liamptown		Order No:	Gross Weight:	2.841
Additional Instructions:			Tare Weight:).48t
*A977 SDUG *Newdwerle Africal Acce	ss Roads	Daily Progressive Total:	Nett Weight:	2.36t
Product Description:	HA - NON	Stockpile No:		
l agree to abide by all RMS Driver Fatigue Managem delivery of this load and do so under no duress by H				
Cus	ds Received as per Conditioner Signature:			

White - Office Copy Pink - Admin Copy Blue - Carrier Copy Distribution: Yellow - Customer Copy



ABN 15 093 914 937 Andersite Road Karuah NSW 2324

Ph: 4997 5966 Fax: 4997 5933

Docket No:

Accounts
PO Box 3284

Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterquarries.com.au

Customer Name:	Time Dispatched:	Date: 70/08/2019
Delivery Address:	Carrier: Burns Earthmov.	Vehicle Rego:
Will I Company	Order No:	Grdss Weight:
Additional Instructions:		Tare Weight: 10.75t
*A922 Short Access Roads	Daily Progressive Total:	Nett Weight:
Product Description:	Stockpile No:	1
agree to abide by all RMS Driver Fatigue Management and Chain of Respondelivery of this load and do so under no duress by Hunter Quarries to breach	nsibility legislation in acceptance and in any form or part thereof.	
Drivers Signature: (Goods Received as per Condition Customer Signature:	ns of Sale on overleaf)	a Pool B 2000
Distribution: White - Office Copy Pink - Admin Copy Blue - Carr	ier Copy Yellow - Customer Copy	



Karuah Quarry

ABN 15 093 914 937 Andersite Road Karuah NSW 2324 Ph: 4997 5966 Fax: 4997 5933 Docket No:

Accounts
PO Box 3284
Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterquarries.com.au

Customer Name:	Time Dispatched:	Date: 0/08/2019
Delivery Address:	Carrier: Parer Trappel	Vehicle Rego:
White assure	Order No:	Gross Weight:
Additional Instructions:		Tare Weight: 10.38t
*Newcastle Attuact Access Roads	Daily Progressive Total:	Nett Weight: 12,52t
Product Description:	Stockpile No:	
I agree to abide by all RMS Driver Fatigue Management and Chain of Respondelivery of this load and do so under no duress by Hunter Quarries to bread		THE PARTY OF THE
Drivers Signature: (Goods Received as per Condit Customer Signature:	ions of Sale on overleaf)	



ABN 15 093 914 937 Andersite Road Karuah NSW 2324 Ph: 4997 5966 Fax: 4997 5933 **Accounts**

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterquarries.com.au

PO Box 3284 Thornton NSW 2322

Docket No:

Customer Name:	Time Dispatched:	Date: 20/08/2019
Delivery Address:	Carrier:	Vehicle Rego:
Wit Lip auntinum	Order No:	Gross Weight:
Additional Instructions:		Tare Weight:
*4922 5000 *Newcastie Alroom Access Roads	Daily Progressive Total:	Nett Weight:
Product Description: KB-TX5MM MTMBS - NON	Stockpile No:	1
l agree to abide by all RMS Driver Fatigue Management and Chain of Respondelivery of this load and do so under no duress by Hunter Quarries to breach Drivers Signature: (Goods Received as per Condition	in any form or part thereof.	
Customer Signature:	Customer Signature:	
Distribution: White - Office Copy Pink - Admin Copy Blue - Carr	ier Copy Yellow - Customer Copy	/



Karuah Quarry ABN 15 093 914 937

Andersite Road Karuah NSW 2324 Ph: 4997 5966 Fax: 4997 5933

Docket No: A21364711

<u>Accounts</u> PO Box 3284

Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterquarries.com.au

Customer Name:	Time Dispatched:	Date:
KCE	2:41 PM	28/08/2019
Delivery Address:	Carrier:	Vehicle Rego:
RCR	Burns Earthmov	in BZ46XG
Williamicon brive (Airport A)	ncess 8	
Withiamner	Order No:	Gross Weight:
Additional Instructions:		Tare Weight:
81HF #14		10.76t
*0407) 1 158		
- 54922 5000	Daily Progressive Total:	Nett Weight:
SNewcastle Airport Access Ros	ads 308.48t	17.551
Product Description: KH-Labam Mathual - No	Stockpile No:	
agree to abide by all RMS Driver Fatigue Management and Chadelivery of this load and do so under no duress by Hunter Quarr	ain of Responsibility legislation in acceptance and ries to breach in any form or part thereof.	
Drivers Signature: (Goods Received a	as per Conditions of Sale on overleaf)	
Customar Sign		

White - Office Copy

Distribution:

Customer Signature:

Pink - Admin Copy

Blue - Carrier Copy Yellow - Customer Copy



ABN 15 093 914 937 Andersite Road Karuah NSW 2324 Ph: 4997 5966 Fax: 4997 5933

	Doc	ket	No:
--	-----	-----	-----

88589835)

Accounts
PO Box 3284
Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterquarries.com.au

Customer Name:		Time Dispatched:	Date: 207.08/3	019
Delivery Address:	irport Access 6	Carrier: GW & GJ Trappe	Vehicle Rego:	
Williamrown		Order No:	Gross Weight:	22.84t
Additional Instructions:			Tare Weight:	9.90t
#4922 5000 *Newcastle Alreort A	ocess Roads	Daily Progressive Total:	Nett Weight:	12.94t
Product Description: 15 Produc	INUX - NON	Stockpile No:	7	
I agree to abide by all RMS Driver Fatigue Man delivery of this load and do so under no duress				
Drivers Signature:	(Goods Received as per Conditions of Sale on overleaf) Customer Signature:			10-007 8/2015
Distribution: White - Office Copy Pink	- Admin Copy Blue - Carr	rier Copy Yellow - Customer Copy	У	

HUNTER

Karuah Quarry

ABN 15 093 914 937 Andersite Road Karuah NSW 2324 Ph: 4997 5966 Fax: 4997 5933 Docket No:

Accounts
PO Box 3284

Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterguarries.com.au

Customer Name:	Time Dispatched:	Date: 20/08/2019
Delivery Address: William own Drive (All Dorf Access)	Carrier: Peter Trappel	Vehicle Rego:
Williamtown	Order No:	Gross Weight: 22.801
Additional Instructions:		Tare Weight:
*4922 5000 *Newcasile Airport Access Roads	Daily Progressive Total:	Nett Weight: 12.42t
Product Description: KH-L294H MINUS - NON	Stockpile No:	
agree to abide by all RMS Driver Fatigue Management and Chain of Respondelivery of this load and do so under no duress by Hunter Quarries to bread	nsibility legislation in acceptance and h in any form or part thereof.	
Drivers Signature: (Goods Received as per Condition Customer Signature:	ons of Sale on overleaf)	

Distribution: White - Office Copy Pink - Admin Copy Blue - Carrier Copy Yellow - Customer Copy

1-007 8/2015



ABN 15 093 914 937 Andersite Road Karuah NSW 2324 Ph: 4997 5966 Fax: 4997 5933 Accounts

PO Box 3284

Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterquarries.com.au

Docket No:

Customer Name;	Time Dispatched:	Date:
KKERE:	2:23 PM	ZD708/2019
Delivery Address:	Carrier:	Vehicle Rego:
sorr'	Pater Trappel	a RX77DP
Williamican brive Chicoort Access	P	
Wall tanit cam.	Order No:	Gross Weight:
Additional Instructions:		Tare Weight:
*0407 111 358		20.556
*A922 5000 *Newcasile Airport Access Roads	Daily Progressive Total:	Nett Weight:
Product Description: REP LASHIN MARKET - NON	Stockpile No:	·
I agree to abide by all RMS Driver Fatigue Management and Chain of Respondelivery of this load and do so under no duress by Hunter Quarries to bread	onsibility legislation in acceptance and h in any form or part thereof.	
Drivers Signature: (Goods Received as per Condition Customer Signature:	ions of Sale on overleaf)	
Distribution: White - Office Copy Pink - Admin Copy Blue - Cal	rrier Copy Yellow - Customer Cop	У

HUNTER QUARRIES

Karuah Quarry

ABN 15 093 914 937 Andersite Road Karuah NSW 2324 Ph: 4997 5966 Fax: 4997 5933

Accounts
PO Box 3284

Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterquarries.com.au

Docket No:

Customer Name:	Time Dispatched:	Date: 0/08/2019
Delivery Address:	Carrier: GW & GJ Trappe	Vehicle Rego:
W3.1 Lizameterway	Order No:	Gross Weight:
Additional Instructions:		Tare Weight: 9,901
*Avvx Small *Newgastle Alrbort Access Roads	Daily Progressive Total:	Nett Weight: 12.88t
Product Description:	Stockpile No:	
agree to abide by all RMS Driver Fatigue Management and Chain o delivery of this load and do so under no duress by Hunter Quarries to		
Drivers Signature: (Goods Received as per Customer Signature	Conditions of Sale on overleaf)	

Distribution: White - Office Copy Pink - Admin Copy Blue - Carrier Copy Yellow - Customer Copy



ABN 15 093 914 937 Andersite Road Karuah NSW 2324 Ph: 4997 5966 Fax: 4997 5933

	Docket No:
te	11828381971

Accounts
PO Box 3284

Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterquarries.com.au

Customer Name:		Time Dispatched:	Date: 20/08/2019	
Delivery Address:	LAITPORT Access	Carrier:	Vehicle Rego:	
Williamtown		Order No:	Gross Weight: 22.66†	
Additional Instructions:			Tare Weight: 10.48t	
*4922 5000 *NewCastle Alreort	Addess Foads	Daily Progressive Total:	Nett Weight: 12.18t	
Product Description:	HATHING NOR	Stockpile No:	1	
I agree to abide by all RMS Driver Fatigue I delivery of this load and do so under no du	Management and Chain of Resp ress by Hunter Quarries to bread	onsibility legislation in acceptance and ch in any form or part thereof.		
Drivers Signature:	(Goods Received as per Condi Customer Signature:	tions of Sale on overleaf)		
Distribution: White - Office Copy P	ink - Admin Copy Blue - Ca	arrier Copy Yellow - Customer Cop	V	

HUNTER

Karuah Quarry ABN 15 093 914 937

ABN 15 093 914 937 Andersite Road Karuah NSW 2324 Ph: 4997 5966 Fax: 4997 5933 Docket No:

Accounts PO Box 3284

Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterguarries.com.au

Customer Name:		Time Dispatched:	Date:
Delivery Address:	rport Access	Carrier:	Vehicle Rego:
Williamtown		Order No:	Gross Weight: 22.92†
Additional Instructions:	ь		Tare Weight: 10.48t
AMERICATION APPOINT AT	cess Roads	Daily Progressive Total:	Nett Weight: 12.44t
Product Description:	MINE NON	Stockpile No:	
agree to abide by all RMS Driver Fatigue Mana delivery of this load and do so under no duress b			
	Goods Received as per Condi Customer Signature:	tions of Sale on overleaf)	



ABN 15 093 914 937 Andersite Road Karuah NSW 2324 Ph: 4997 5966 Fax: 4997 5933

Docket	No:	
8.8	589	

Accounts PO Box 3284

Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterquarries.com.au

Customer Name:	Time Dispatched:	Date: 070872019
Delivery Address:	Carrier:	Vehicle Rego:
William own Dires Teleport Access	Order No:	Gross Weight:
Additional Instructions:		Tare Weight: 10.38t
*4922 5000 *Newcastie Airport Access Roads	Daily Progressive Total: 26t	Nett Weight: 12.48t
Product Description:	Stockpile No:	7
I agree to abide by all RMS Driver Fatigue Management and Chain of Res delivery of this load and do so under no duress by Hunter Quarries to bree Drivers Signature: (Goods Received as per Cond Customer Signature:	ach in any form or part thereof.	
Distribution: White - Office Copy Pink - Admin Copy Blue - C	Carrier Copy Yellow - Customer Cop	·y

HUNTER

Karuah Quarry ABN 15 093 914 937

ABN 15 093 914 937 Andersite Road Karuah NSW 2324

Ph: 4997 5966 Fax: 4997 5933

Docket No:

Accounts

PO Box 3284

Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterquarries.com.au

Customer Name:	Time Dispatched:	Date: 0/08/2019
Delivery Address: Williamrown Drive (Alroor, Access	Carrier: Rurns Rarthmov	Vehicle Rego:
Will (amtown	Order No:	Gross Weight:
Additional Instructions:		Tare Weight: 10 761
*A922 hours *Newcastle Airport Access Boads	Daily Progressive Total:	Nett Weight: 1.521
Product Description:	Stockpile No:	
agree to abide by all RMS Driver Fatigue Management and Chain of Res delivery of this load and do so under no duress by Hunter Quarries to bre		
Drivers Signature: (Goods Received as per Cond Customer Signature:	ditions of Sale on overleaf)	



ABN 15 093 914 937 Andersite Road Karuah NSW 2324 Ph: 4997 5966 Fax: 4997 5933

Accounts PO Box 3284

Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterquarries.com.au

Docket No:

Customer Name:		Time Dispatched:	Date: 070872019
Delivery Address:	e-télitori decembr	Carrier:	Vehicle Rego:
ma (1) american		Order No:	Gross Weight:
Additional Instructions:			Tare Weight:
ANNWASHATTE BITTON	L Armess Boars	Daily Progressive Total:	Nett Weight:
Product Description:	tin at tess. Reserv	Stockpile No:	7
I agree to abide by all RMS Driver Fatigudelivery of this load and do so under no	ue Management and Chain of Resp duress by Hunter Quarries to bread	onsibility legislation in acceptance and ch in any form or part thereof.	
Drivers Signature:	(Goods Received as per Condi Customer Signature:	tions of Sale on overleaf)	
Distribution: White - Office Copy	Pink - Admin Copy Blue - Ca	errier Copy Yellow - Customer Cop	V



Karuah Quarry ABN 15 093 914 937

Andersite Road Karuah NSW 2324

<u>Accounts</u> PO Box 3284

Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522

Docket No:

Pn: 4997 5966 Fax: 4997 5933 E: admin@hunterquarries.c				
Customer Name:	Time	Dispatched:	Date:	019
Delivery Address:	Carrie	Rurus Karthmov	Vehicle Rego:	
Wall i this court	Order	No:	Gross Weight:	22.24t
Additional Instructions:			Tare Weight:	10.761
*New actio Althort Act	Daily	Progressive Total:	Nett Weight:	11.480
Product Description:	Stock	pile No:		
agree to abide by all RMS Driver Fatigue Manag delivery of this load and do so under no duress by	ement and Chain of Responsibility Hunter Quarries to breach in any	legislation in acceptance and form or part thereof.		
Drivers Signature: (G	oods Received as per Conditions of Sa ustomer Signature:	le on overleaf)		

Distribution: White - Office Copy Pink - Admin Copy Blue - Carrier Copy Vellow - Customer Copy



ABN 15 093 914 937 Andersite Road Karuah NSW 2324 Ph: 4997 5966 Fax: 4997 5933 Accounts

B85898564

Docket No:

PO Box 3284

Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterquarries.com.au

ustomer Name: Time Dispatched:		Date: 21 / (/8 / 2019)		
Delivery Address:	elront access !	Carrier:	Vehicle Rego:	
M. E. L. F. SWILDING		Order No:	Gross Weight:	22.98t
Additional Instructions:			Tare Weight:	10.421
*A922 5000 *Newcastle Alreoft	Arcass Roads	Daily Progressive Total:	Nett Weight:	12.56t
Product Description:	HTHUS - NON	Stockpile No:	y .	
I agree to abide by all RMS Driver Fatigue Ma delivery of this load and do so under no dures				
Drivers Signature:	(Goods Received as per Conditions of Sale on overleaf) Customer Signature:			and con of
Distribution: White - Office Copy Pink	k - Admin Copy Blue - Car	rier Copy Yellow - Customer Cop	у	i si

HIMTER

Karuah Quarry

ABN 15 093 914 937 Andersite Road Karuah NSW 2324

Ph: 4997 5966 Fax: 4997 5933

Docket No:

Accounts
PO Box 3284

Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterquarries.com.au

Customer Name:	Time Dispatched:	Date: 21748/2019
Delivery Address:	Carrier: Sweetman Haula	Vehicle Rego:
William amtersay	Order No:	Gross Weight:
Additional Instructions:		Tare Weight:
*A922 5000 *Newcastle Alront Acces	Daily Progressive Total:	Nett Weight:
Product Description:	Stockpile No:	
agree to abide by all RMS Driver Fatigue Management delivery of this load and do so under no duress by Hunt	and Chain of Responsibility legislation in acceptance and er Quarries to breach in any form or part thereof.	
	received as per Conditions of Sale on overleaf)	

Distribution: White - Office Copy Pink - Admin Copy Blue - Carrier Copy Yellow - Customer



Andersite Road Karuah NSW 2324 Ph: 4997 5966 Fax: 4997 5933

Docket No:

<u>Accounts</u> PO Box 3284

Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522

Customer Name:	Time Dispatched:	Date:	
Delivery Address: KCE WILLIAMTOWN INTIVE FAITDONE ACTUARS	Carrier:	Vehicle Rego:	
W. F. I. T. Estret, covers	Order No:	Gross Weight:	
Additional Instructions:		Tare Weight: 10.38f	
*Mawcastle Almost Access Roads	Daily Progressive Total:	Nett Weight: 17.341	
roduct Description:	Stockpile No:	1	
agree to abide by all RMS Driver Fatigue Management and Chain of Res elivery of this load and do so under no duress by Hunter Quarries to brea	ponsibility legislation in acceptance and ach in any form or part thereof.		
Goods Received as per Cond Customer Signature:	litions of Sale on overleaf)		
istribution: White - Office Copy Pink - Admin Copy Blue - Co	arrier Copy Yellow - Customer Cop	y	
Wild Edition in the Control of the Control	-		
Kanuch Quann		Docket No:	



Karuah Quarry

ABN 15 093 914 937 Andersite Road Karuah NSW 2324 Ph: 4997 5966 Fax: 4997 5933 Accounts PO Box 3284

Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterquarries.com.au

Customer Name:	Time Dispatched:	Date: 21708/2019
Delivery Address:	Carrier:	Vehicle Rego:
Wistrawinen	Order No:	Gross Weight:
Additional Instructions:		Tare Weight:
*A922 SOUT *Nekdastie Arrest Acces	Daily Progressive Total:	Nett Weight: 12.94t
Product Description:	Stockpile No:	
l agree to abide by all RMS Driver Fatigue Managemen delivery of this load and do so under no duress by Hûn	t and Chain of Responsibility legislation in acceptance and ter Quarries to breach in any form or part thereof.	
Divolo Olgitataror	Received as per Conditions of Sale on overleaf) mer Signature:	4



ABN 15 093 914 937 Andersite Road Karuah NSW 2324 Ph: 4997 5966 Fax: 4997 5933

Docket	No:
원용	

Accounts
PO Box 3284

Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterquarries.com.au

Customer Name:		Time Dispatched:	Date: 21/118/2019	
Delivery Address;	/Alepart Access	Carrier:	Vehicle Rego:	
Williamson		Order No:	Gross Weight:	
Additional Instructions:			Tare Weight:	
*4922 5000 *Newcaclie Afrons) Access Roads	Daily Progressive Total:	Nett Weight:	
Product Description:	NON STUM IN NON	Stockpile No:	\$	
I agree to abide by all RMS Driver Fatigu delivery of this load and do so under no				
Drivers Signature:	(Goods Received as per Condit Customer Signature:	(Goods Received as per Conditions of Sale on overleaf) Customer Signature:		
	11			
Distribution: White - Office Conv	Pink - Admin Cony Rlug - Ca	rrier Conv. Vallow - Customer Con	A/	

Karuah Quarry

ABN 15 093 914 937 Andersite Road Karuah NSW 2324 Ph: 4997 5966 Fax: 4997 5933 Accounts

PO Box 3284

Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterquarries.com.au

Docket No:

Customer Name:	Time Dispatched:	Date: 21/08/2019
Delivery Address: KCR WILLIAM DATE OF TAXABLE ACTORS	Carrier:	Vehicle Rego:
. Williamcown	Order No:	Gross Weight:
Additional Instructions:		Tare Weight:
A4922 5000 ANewcastle Airport Access Roads	Daily Progressive Total:	Nett Weight:
Product Description:	Stockpile No:	

I agree to abide by all RMS Driver Fatigue Management and Chain of Responsibility legislation in acceptance and delivery of this load and do so under no duress by Hunter Quarries to breach in any form or part thereof.

Drivers Signature:

(Goods Received as per Conditions of Sale on overleaf)

Customer Signature:

-007 8/2015

Distribution: White - Office Copy Pink - Admin Copy Blue - Carrier Copy Yellow - Customer C



ABN 15 093 914 937 Andersite Road Karuah NSW 2324

Ph: 4997 5966 Fax: 4997 5933

ı	D	0	С	k	e	t	N	0
---	---	---	---	---	---	---	---	---

Accounts
PO Box 3284

Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterquarries.com.au

Customer Name:	Time Dispatched:	Date: 21 / 08 / 2	10119
Delivery Address:	Carrier: GW & GJ Trappe	Vehicle Rego:	
	Order No:	Gross Weight:	22.741
Additional Instructions:		Tare Weight:	9, 901
*4922 Show AMERICASTIP AIRBORT ARREST	Daily Progressive Total:	Nett Weight:	(2.84)
Product Description: Killed Zamph HTMHs	Stockpile No:	1	
l agree to abide by all RMS Driver Fatigue Management delivery of this load and do so under no duress by Hun	nd Chain of Responsibility legislation in acceptance and Quarries to breach in any form or part thereof.		
	eived as per Conditions of Sale on overleaf) r Signature:		
Distribution: White - Office Copy Pink - Admin	opy Blue - Carrier Copy Yellow - Customer Copy	y	

HUNTER

Karuah Quarry

ABN 15 093 914 937 Andersite Road Karuah NSW 2324

Ph: 4997 5966 Fax: 4997 5933

Docket No:

Accounts PO Box 3284

Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterquarries.com.au

Customer Name:	Time Dispatched:	Date: 21/08/2019
Delivery Address:	Carrier:	Vehicle Rego:
* W) [Lamtown	Order No:	Gross Weight:
Additional Instructions:		Tare Weight:
*A922 5000 *Newcastle Altrort Access Roads	Daily Progressive Total:	Nett Weight:
Product Description: ## 125MH M 13112 - #ON	Stockpile No:	
I agree to abide by all RMS Driver Fatigue Management and Chain of Respo delivery of this load and do so under no duress by Hupter Quarries to breach		
Drivers Signature: (Goods Received as per Condition Customer Signature:	ons of Sale on overleaf)	

HQ-007 8/

Distribution: White - Office Copy Pink - Admin Copy Blue - Carrier Copy Yellow - Customer Copy



ABN 15 093 914 937 Andersite Road Karuah NSW 2324 Ph: 4997 5966 Fax: 4997 5933 Accounts PO Box 3284

Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterquarries.com.au

Docket No:

Customer Name:	Time Dispatched:	Date: 21.708/2019		
Delivery Address: KTM Williamstrum Unive Thirpart Access	Carrier:	Vehicle Rego:		
Will Liambown	Order No:	Gross Weight:		
Additional Instructions:		Tare Weight:		
*4922 5000 *Newcastle Airport Access Roads	Daily Progressive Total:	Nett Weight:		
Product Description: R-1238M BINUS - NON	Stockpile No:	7		
I agree to abide by all RMS Driver Fatigue Management and Chain of Respo delivery of this load and do so under no duress by Hunter Quarries to breach	nsibility legislation in acceptance and in any form or part thereof.			
Drivers Signature: (Goods Received as per Condition Customer Signature:	(Goods Received as per Conditions of Sale on overleaf) Customer Signature:			
Distribution: White - Office Copy Pink - Admin Copy Blue - Car	rier Copy Yellow - Customer Copy	(



Karuah Quarry

ABN 15 093 914 937 Andersite Road Karuah NSW 2324 Ph: 4997 5966 Fax: 4997 5933 Docket No:

Accounts PO Box 3284

Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterguarries.com.au

Customer Name:		Time Dispatched:	Date: 21708/2019	
Delivery Address:	Troort Achess	Carrier: Sweetman Haula	Vehicle Rego:	
Williamcown		Order No:	Gross Weight:	22.86t
Additional Instructions:			Tare Weight:	10,42t
*4922 5000 *Newcastle Airport A	ccess Foads	Daily Progressive Total:	Nett Weight:	12.44t
Product Description:	MUS NOM	Stockpile No:		
agree to abide by all RMS Driver Fatigue Mana delivery of this load and do so under no duress	agement and Chain of Resp by Hunter Quarries to brea	onsibility legislation in acceptance and ch in any form or part thereof.		
	(Goods Received as per Condi Customer Signature:			

Distribution: White - Office Copy Pink - Admin Copy Blue - Carrier Copy Yellow - Customer Copy

HQ-007 8/2015



ABN 15 093 914 937 Andersite Road Karuah NSW 2324 Ph: 4997 5966 Fax: 4997 5933 Accounts
PO Box 3284

Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterquarries.com.au

Docket No:

Customer Name:		Time Dispatched:	Date: 21/08/2019		
Delivery Address: Williams can Indive Larmont Acress Williams can		Carrier:	Vehicle Rego:		
		Order No;	Gross Weight:	22.78E	
Additional Instructions:			Tare Weight:	10.48t	
*Mewcastle Altoort Access Roads		Daily Progressive Total:	Nett Weight:	12.30t	
Product Description:		Stockpile No:	3		
l agree to abide by all RMS Driver Fatig delivery of this load and do so under no		ch in any form or part thereof.			
Drivers Signature:	Customer Signature:	(Goods Received as per Conditions of Sale on overleaf) Customer Signature:			
Distribution: White - Office Copy	Pink - Admin Cony Blue - Co	errier Cony Vellow - Customer Con	N/		

HUNTER

Distribution: White - Office Copy Pink - Admin Con

Karuah Quarry ABN 15 093 914 937

ABN 15 093 914 937 Andersite Road Karuah NSW 2324 Ph: 4997 5966 Fax: 4997 5933 Accounts PO Box 3284

Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterquarries.com.au

Docket No:

Customer Name:	Time Dispatched:	Date: 21/08/2019
Delivery Address: KCR Williamtown Urive (Airport Ac	Carrier: Peter Trappe) Order No:	Vehicle Rego: Gross Weight:
Additional Instructions:	Daily Progressive Total:	Tare Weight:
Product Description:	Stockpile No:	
agree to abide by all RMS Driver Fatigue Management and Chair delivery of this load and do so under no duress by Hurrter Quarrie	n of Responsibility legislation in acceptance and as to breach in any form or part thereof.	
Customer Signa	per Conditions of Sale on overleaf)	

HQ-007 8/201



ABN 15 093 914 937 Andersite Road Karuah NSW 2324 Ph: 4997 5966 Fax: 4997 5933 Accounts

Docket No:

PO Box 3284

Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterquarries.com.au

Customer Name:		Time Dispatched:	Date: 21/08/2	019
Delivery Address:	Alrobri Access E	Carrier:	Vehicle Rego:	
Will i amt own		Order No:	Gross Weight:	22.98t
Additional Instructions:			Tare Weight:	9.90t
*A922 5000 *Newcastis Airport /	Access Roads	Daily Progressive Total:	Nett Weight:	13.08t
Product Description:	AINUS - NON	Stockpile No:	1	
I agree to abide by all RMS Driver Fatigue Mar delivery of this load and do so under no dures	nagement and Chain of Responsible Burnter Quarries to breach	nsibility legislation in acceptance and in any form or part thereof.		
Drivers Signature:	(Goods Received as per Condition Customer Signature:	ins of Sale on overleaf)		
Distribution: White - Office Copy Pink	- Admin Copy Blue - Carr	ier Copy Yellow - Customer Copy	У	

HUNTER

Drivers Signature:

Karuah Quarry ABN 15 093 914 937

ABN 15 093 914 937 Andersite Road Karuah NSW 2324 Ph: 4997 5966 Fax: 4997 5933

Accounts
PO Box 3284

Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterquarries.com.au

Docket No:

Customer Name:	Time Dispatched:	Date: 21/08/2019
Delivery Address: KIR WILLIAM LOWN Drive (Alrport Access F	Carrier: Sweetman Haulac	Vehicle Rego:
Williamtown	Order No:	Gross Weight:
Additional Instructions:		Tare Weight:
*4922 5000 *Mewcasile Airport Access Roads	Daily Progressive Total:	Nett Weight: 12.72t
Product Description:	Stockpile No:	
agree to abide by all RMS Driver Fatigue Management and Chain of Respordelivery of this load and do so under no duress by Hunter Quarries to breach		

(Goods Received as per Conditions of Sale on overleaf)

Distribution: White - Office Copy Pink - Admin Copy Blue - Carrier Copy Yellow - Customer Copy

Customer Signature:

1Q-007 8/2015



ABN 15 093 914 937 Andersite Road Karuah NSW 2324 Ph: 4997 5966 Fax: 4997 5933 Docket No:

Accounts
PO Box 3284

Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterquarries.com.au

Customer Name:	Time Dispatched:	Date: 21 / 08 / 201 9
Delivery Address: KCR WILLIAMTOWN Drive Laurbort Access R	Carrier: Peter Trappel S	Vehicle Rego:
W.L.). Fisam Colors	Order No:	Gross Weight: 22.881
Additional Instructions:		Tare Weight:
*A922 5000 *Newcastle Alreort Access Roads	Daily Progressive Total:	Nett Weight: 12.501
Product Description:	Stockpile No:	1
I agree to abide by all RMS Driver Fatigue Management and Chain of Respordelivery of this load and do so under no duress by Hunter Quarries to breach	nsibility legislation in acceptance and in any form or part thereof.	
Drivers Signature: (Goods Received as per Condition Customer Signature:	ns of Sale on overleaf)	ENVIS ZUL
Distribution: White - Office Copy Pink - Admin Copy Blue - Carri	er Copy Yellow - Customer Copy	



Karuah Quarry

ABN 15 093 914 937 Andersite Road Karuah NSW 2324 Ph: 4997 5966 Fax: 4997 5933 Accounts

PO Box 3284 Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterquarries.com.au

Docket No:

Customer Name:	Time Dispatched:	Date: 21/08/2	019
Delivery Address:	Carrier: Parer Trappel	Vehicle Rego:	
Walfaamrown	Order No:	Gross Weight:	22.84t
Additional Instructions:		Tare Weight:	10.48t
*4922 5000 *Newcastle Airport Access Roads	Daily Progressive Total:	Nett Weight:	12.36t
Product Description:	Stockpile No:		
I agree to abide by all RMS Driver Fatigue Management and Chain of F delivery of this load and do so under no duress by Hunter Quarries to b			
Drivers Signature: (Goods Received as per C	onditions of Sale on overleaf)		

Customes Com

-007 8/2015



ABN 15 093 914 937 Andersite Road Karuah NSW 2324 Ph: 4997 5966 Fax: 4997 5933

Docket No:
A213

Accounts PO Box 3284

Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterquarries.com.au

Customer Name:	Time Dispatched:	Date: 21/08/2019
Delivery Address: WALLIAMTOWN Drive (Alrport Access	Carrier:	Vehicle Rego:
Williamtown	Order No:	Gross Weight:
Additional Instructions:		Tare Weight: 10.38t
*4922 5000 *Newcastle Al-port Access Roads	Daily Progressive Total:	Nett Weight:
Product Description:	Stockpile No:	/
I agree to abide by all RMS Driver Fatigue Management and Chain of Respondelivery of this load and do so under no duress by Hunter Quarries to bread	onsibility legislation in acceptance and h in any form or part thereof.	
Drivers Signature: (Goods Received as per Condit Customer Signature:	ons of Sale on overleaf)	
Distribution: White - Office Copy Pink - Admin Copy Blue - Ca	rrier Copy Yellow - Customer Cop	у



Karuah Quarry

ABN 15 093 914 937 Andersite Road Karuah NSW 2324

Karuah NSW 2324 Ph: 4997 5966 Fax: 4997 5933 Docket No:

Accounts
PO Box 3284

Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterquarries.com.au

Customer Name:	Time Dispatched:	Date: 21/08/2019
Delivery Address: KCR Williamsown Frive (Alsport Acc)	Carrier: GW & GJ Trappe	Vehicle Rego:
Williamtown	Order No:	Gross Weight: 22.741
Additional Instructions:		Tare Weight:
*4922 5000 SNewcastle Alrbort Access Road	Daily Progressive Total:	Nett Weight: 12.84t
Product Description:	Stockpile No:	
I agree to abide by all RMS Driver Fatigue Management and Chain delivery of this load and do so under no duress by Hunter Quarries	of Responsibility legislation in acceptance and to breach in any form or part thereof.	
Drivers Signature: (Goods Received as per Customer Signature)	er Conditions of Sale on overleaf) ure:	



ABN 15 093 914 937 Andersite Road Karuah NSW 2324 Ph: 4997 5966 Fax: 4997 5933 Accounts

PO Box 3284

Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterquarries.com.au

Docket No:

Customer Name:	Time Dispatched:	Date: 21/08/2019
Delivery Address:	Carrier: Sweetman Haulac	Vehicle Rego:
Willenstown	Order No:	Gross Weight:
Additional Instructions:		Tare Weight:
*A472 5000 *Newcastle Airport Access Roads	Daily Progressive Total:	Nett Weight:
Product Description:	Stockpile No:	1
I agree to abide by all RMS Driver Fatigue Management and Chain of Respondelivery of this load and do so under no duress by Hunter Quarries to bread		
Drivers Signature: (Goods Received as per Condit Customer Signature:	ions of Sale on overleaf)	
Distribution: White - Office Copy Pink - Admin Copy Blue - Ca	rrier Copy Yellow - Customer Cop	

HUNTER

Karuah Quarry

ABN 15 093 914 937 Andersite Road Karuah NSW 2324 Ph: 4997 5966 Fax: 4997 5933 Accounts

PO Box 3284

Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterquarries.com.au

Docket No:

R858985911

Customer Name:		Time Dispatched:	Date: 1/08/2	039
Delivery Address:	port Access F	Carrier: Order No:	Vehicle Rego: Gross Weight:	22 76t
Additional Instructions:	shac Roads	Daily Progressive Total:	Tare Weight:	10.48t
Product Description:	ns - Non'	Stockpile No:		
agree to abide by all RMS Driver Fatigue Manager delivery of this load and do so under no duress by	ment and Chain of Respo Hunter Quarries to breach	nsibility legislation in acceptance and in any form or part thereof.		-1 1 1
	oods Received as per Conditionstomer Signature:	ons of Sale on overleaf)		

Distribution: White - Office Copy Pink - Admin Copy Blue - Carrier Copy Yellow - Customer Copy

-007 8/2015



ABN 15 093 914 937 Andersite Road Karuah NSW 2324 Ph: 4997 5966 Fax: 4997 5933 **Accounts**

PO Box 3284 Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterquarries.com.au

Docket No:

Customer Name:	Time Dispatched:	Date: 21/08/2019
Delivery Address:	Carrier:	Vehicle Rego:
Will Familiown	Order No:	Gross Weight:
Additional Instructions:		Tare Weight:
*4922 5000 *Newcastle Airport Access Roads	Daily Progressive Total:	Nett Weight:
Product Description:	Stockpile No:	<i>y</i>
I agree to abide by all RMS Driver Fatigue Management and Chain of Respondelivery of this load and do so under no duress by Hunter Quarries to bread		
Drivers Signature: (Goods Received as per Condition Customer Signature:	- 20	
Distribution: White - Office Copy Pink - Admin Copy Blue - Ca	rrier Copy Yellow - Customer Cop	V

Karuah Quarry

ABN 15 093 914 937 Andersite Road Karuah NSW 2324

Ph: 4997 5966 Fax: 4997 5933

Docket No: A213710\1

PO Box 3284 Thornton NSW 2322

<u>Accounts</u>

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterquarries.com.au

Customer Name		
Customer Name:	Time Dispatched:	Date: 21/08/2019
Delivery Address:	Carrier: Peter Trappel	Vehicle Rego:
Wallramrown	Order No:	Gross Weight:
Additional Instructions:		Tare Weight: 10.381
*4922 5000 *Newrastle Airport Access Roads	Daily Progressive Total:	Nett Weight: 12.541
Product Description:	Stockpile No:	
agree to abide by all RMS Driver Fatigue Management and Chain of Resp delivery of this load and do so under no duress by Hunter Quarries to bread	onsibility legislation in acceptance and ch in any form or part thereof.	
Drivers Signature: (Goods Received as per Condit Customer Signature:	ions of Sale on overleaf)	

Distribution: White - Office Copy Pink - Admin Copy Blue - Carrier Copy Yellow -



ABN 15 093 914 937 Andersite Road Karuah NSW 2324 Ph: 4997 5966 Fax: 4997 5933 Accounts

PO Box 3284

Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterquarries.com.au

Docket No:

Customer Name:	Time Dispatched:	Date: 1/08/2019
Delivery Address:	Carrier:	Vehicle Rego:
Williamsown	Order No:	Gross Weight:
Additional Instructions:		Tare Weight: 10.48t
*4922 5000 *Newcastle Arrort Access Roads	Daily Progressive Total:	Nett Weight:
Product Description:	Stockpile No:	<i>\$</i>
I agree to abide by all RMS Driver Fatigue Management and Chain of Respondelivery of this load and do so under no duress by Hunter Quarries to breach	<u> </u>	
Drivers Signature: (Goods Received as per Conditions of Sale on overleaf) Customer Signature:		
Distribution: White - Office Copy Pink - Admin Copy Blue - Carrier Copy Yellow - Customer Copy		

HUNTER

Karuah Quarry

ABN 15 093 914 937 Andersite Road Karuah NSW 2324 Ph: 4997 5966 Fax: 4997 5933 Accounts

PO Box 3284

Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterquarries.com.au

Docket No:

A213713\1

Customer Name: Time Dispatched: Date: 1/08/2019 Delivery Address: Vehicle Rego: Carrier: GW & GJ Trappe Williamiown Orive (Airport Access Order No: Gross Weight: 22.86T Additional Instructions: Tare Weight: 9. 901 Daily Progressive Total: Nett Weight: Newcasile Aironti Access Roads 12.96t Product Description: Stockpile No: I agree to abide by all RMS Driver Fatigue Management and Chain of Responsibility legislation in acceptance and delivery of this load and do so under no duress by Hunter Quarries to breach in any form or part thereof. Drivers Signature: (Goods Received as per Conditions of Sale on overleaf)

Distribution: White - Office Copy Pink - Admin Copy Blue - Carrier Copy Yellow - Customer Copy

Customer Signature:

Q-007 8/2015



ABN 15 093 914 937 Andersite Road Karuah NSW 2324 Ph: 4997 5966 Fax: 4997 5933

Docket No:
A213715\1

Accounts PO Box 3284

Thornton NSW 2322

Ph: 4966 8577 Fax: 4966 8522 E: admin@hunterquarries.com.au

Customer Name:	Time Dispatched:	Date: 71 / 0.8 / 2019
Delivery Address:	Carrier:	Vehicle Rego:
Wikkamtown	Order No:	Gross Weight:
Additional Instructions:		Tare Weight: 10.38t
*Newcastle Alrbort Aches	Daily Progressive Total:	Nett Weight: 12:42t
Product Description:	Stockpile No:	1
I agree to abide by all RMS Driver Fatigue Management delivery of this load and do so under no duress by Hunt	1	
	eceived as per Conditions of Sale on overleaf) ner Signature:	

APPENDIX C:

Daracon Documentation



HEAD OFFICE

20 Kullara Close, Beresfield NSW 2322 PO Box 401 Beresfield NSW 2322 P 02 4974 9200

dgroup@daracon.com.au www.daracon.com.au

SYDNEY

184 Adderley Street West, Auburn NSW 2144 **P 02 8799 2600**

HUNTER VALLEY
2 Kime Road, Mount Thorley 2330
P 02 6574 0200

GUNNEDAH

171 Blackjack Road, Gunnedah NSW 2380 PO Box 767 Gunnedah NSW 2380 P 02 6742 4977

4 May 2021

Greater Newcastle Aerotropolis Pty Limited
Private Bag 2001
Raymond Terrace NSW 2324

Dear Bede

RE: Astra Aerolab Civil Works Stage 1 - RAP Compliance

In accordance with Contract Preliminaries, Daracon confirm that that where applicable, Daracon have undertaken the works in accordance with the Remediation Action Plan prepared by Douglas Partners dated November 2019.

Details of works undertaken in accordance with Remediation Action Plan (RAP) Section 8 *Scope of Works*, are outlined as follows:

Identified Scope	Treatment Details	Record
Localised opportunistic Dumping	Site rubbish removed prior to Daracon commencement onsite. No treatment required.	Nearmaps high-resolution aerial image dated 11/2/2020 depicting absence of dumped rubbish and car bodies.
Additional Assessment of PFAS impacts	Additional assessment/ investigation undertaken in the form of PFAS testing by GNAPL. Results of testing indicate no requirement for barrier layer of capping, in line with RAP requirements.	Valley Civilab Report ref P-R- 002-ESA-Rev0, and related email correspondence.
On-site Management of PFAS Impacts	Not required based on the above testing.	N/A
On-site management of impacts associated with effluent ponds	Not applicable to Daracon Scope of Work.	N/A



Sediments and Groundwater associated with effluent pond	Not Applicable to Daracon Scope of Works	N/A
Classification of imported materials for on-site reuse	Earthworks fill imported by GNAPL.	N/A
Unexpected Find – White Crystaline Material within excavated earthworks material	Material separated and stockpiled. Material testing undertaken by Qualtest. Material assessed as suitable for onsite reuse. No Treatment Required.	Qualtest Report NEW20P- 0020-AC

Please don't hesitate to contact the undersigned for any further clarification regarding these works.

Yours sincerely,

Matthew Jensen

Project Manger

Daracon Contractors

Attachments:

- 1. Record of Start-up meeting, including RAP Requirements.
- 2. Aerial Photo dated 11/02/2020
- 3. Valley Civilab PFAS investigation and Results and correspondence, and related correspondence provided by GNAPL.
- 4. PFAS Results correspondence
- 5. Qualtest Report NEW20P-0020-AC
- 6. Reference correspondence

