AURIZON PORT SERVICES SHED EXPANSION

Port of Newcastle, Bourke Street, Carrington NSW Traffic Impact Assessment

Prepared for:

Aurizon Operations Limited 900 Ann Street, Fortitude Valley QLD 4006 Australia

SLR[©]

SLR Ref: 610.30882.00000-R01 Version No: -v2.0 September 2022

PREPARED BY

SLR Consulting Australia Pty Ltd ABN 29 001 584 612 Tenancy 202 Submarine School, Sub Base Platypus, 120 High Street North Sydney NSW 2060 Australia

T: +61 2 9427 8100 E: sydney@slrconsulting.com www.slrconsulting.com

BASIS OF REPORT

This report has been prepared by SLR Consulting Australia Pty Ltd (SLR) with all reasonable skill, care and diligence, and taking account of the timescale and resources allocated to it by agreement with Aurizon Operations Limited (the Client). Information reported herein is based on the interpretation of data collected, which has been accepted in good faith as being accurate and valid.

This report is for the exclusive use of the Client. No warranties or guarantees are expressed or should be inferred by any third parties. This report may not be relied upon by other parties without written consent from SLR.

SLR disclaims any responsibility to the Client and others in respect of any matters outside the agreed scope of the work.

DOCUMENT CONTROL

Reference	ce Date		Checked	Authorised
610.30882.00000-R01-v2.0	13 September 2022	Charlie Seventekin	Anthony Kay	Jeffrey Baczynski



EXECUTIVE SUMMARY

SLR has been engaged by Aurizon to prepare a TIA to support their expanding operations at the Port of Newcastle. The proposed expansion will result in the transportation of approximately 85,000 tonnes of cement per year from East Coast Cement located at 21 Heron Road in Kooragang, NSW to Aurizon's existing facility at the Port of Newcastle in Carrington, NSW.

The Proposal is to be undertaken as a DA in accordance with the Section 4.15 of the EP&A Act.

Based on the analysis and discussion documented herein, the following is concluded:

- The proposed development will generate up to four additional truck movements per hour during Port's peak traffic periods, from 7:00am to 4:00pm, Monday to Friday;
- No additional staff will be employed for the expanded operations and therefore the existing site access and car parking arrangements are retained and considered satisfactory;
- The incremental changes in the development's traffic generation potential are considered insignificant (up to four truck movements in the peak hour) and unlikely to result in a material impact on the wider road network; and
- Based on a review of the historic crash data along the haulage route and consideration of the anticipated low traffic generation potential of the proposed expansion work, the proposal is unlikely to cause safety deficiencies on the wider road network.



CONTENTS

1	INTRODUCTION	6
1.1	Context	6
1.2	Assessment Scope	6
2	EXISTING CONDITIONS	8
2.1	Subject Site	8
2.1.1	Site Description	8
2.2	Road Network	9
2.3	Road Network Planning	11
2.3.1	State-controlled Road Network Planning	11
2.3.2	Council-controlled Road Network Planning	11
2.4	Crash History	11
3	DEVELOPMENT OVERVIEW	15
3.1	Proposed Development	15
3.2	Vehicular Impacts	16
3.3	Site Access and Car Parking	17
4	DESIGN CONSIDERATIONS	19
4.2.1	Site Access and Internal Traffic Arrangements	19
4.2.2	Car Parking and Circulation	19
5	ASSESSED TRAFFIC DEMANDS	20
5.1	Existing Traffic Demands	20
5.2	Development Traffic Demands	20
6	SUMMARY AND CONCLUSIONS	21



CONTENTS

DOCUMENT REFERENCES

TABLES

Table 1	Matters to be Addressed (DPE Comments/ Requirements)	6
Table 2	Key Road Network	10
Table 3	Crash Data Details	12
Table 4	Forecast Truck Movements	17

FIGURES

Figure 1	Site Location	8
Figure 2	Key Road Network	10
Figure 3	Crash Locations (Dataset queried on 07/06/2022)	12
Figure 4	Road Haulage Route	16
Figure 5	Existing Site Access	18

APPENDICES

- Appendix A Existing Site Imagery
- Appendix B Property Report

Appendix C Swept Path Assessment

Appendix D Traffic Survey Data

1 Introduction

1.1 Context

Aurizon is seeking approval from the Department of Planning and Environment (DPE) for the expansion of their existing operations at the Port of Newcastle, NSW (the Proposal). The Proposal is to be lodged as a development application (DA) in accordance with the Section 4.15 of the *Environmental Planning and Assessment Act 1979* (EP&A Act).

This Traffic Impact Assessment (TIA) has been prepared by SLR Consulting Australia Pty Ltd (SLR) on behalf of Aurizon (the applicant) to support the Proposal. The Proposal includes increasing the capacity of zinc, copper and lead concentrate and adding mineral sands and cement to the types of materials loaded, unloaded and stored on site.

This report has been prepared to address the traffic and transport requirements set out within the DPE's letter concerning the Aurizon Port Services Capacity Increase and Mineral Sands Project Development Application, dated 17 November 2020 (see **Section 1.2** for further detail). The findings of this assessment will form an appendix to the proposed Statement of Environmental Effects (SEE) to be submitted to the DPE.

1.2 Assessment Scope

Table 1 sets out the traffic and transport matters raised by the DPE, including reference to sections of this reportwhere such matters have been addressed.

Table 1 Matters to be Addressed (DPE Comments/ Requirements)

No	Comments / Requirements	SLR Response
1	Details of all daily and peak traffic volumes likely to be generated during operation, including a description of key access, vehicle types and potential queuing impacts.	See Section 3 and Section 5.
2	Plans demonstrating how all vehicles likely to be generated during operation can be accommodated on the site to avoid queuing in the street network.	See Section 5 and Appendix C.

In addressing the above matters, the following should be noted:

- Materials such as zinc, copper and mineral sands have not been considered as these materials will be delivered by rail before being loaded onto ships. The only material to be delivered by road will be cement, and therefore it the quantum of trucks associated with these deliveries which is considered as part of this TIA;
- Approximately 85,000 tonnes of cement per annum will be transported via 20-foot ISO bulk powder tanks, where:
 - Tare weight is 4,080kg;
 - Maximum gross weight up to 30,000kg; and
 - Maximum payload is 25,920kg



- The quantum of cement will therefore be transported by 3,280 bulk powder tanks per annum, to be delivered by a prime mover truck with a step-down trailer, or 20m Articulated Vehicle (AV). The AV movements will occur 24 hours a day, 7 days a week. Most of the deliveries will be undertaken during the Port's peak traffic hours (between 7am and 4pm more information provided in **Section 5**);
- No additional light vehicle movements are anticipated as the existing employee numbers at the site will remain the same;
- No upgrades are considered necessary or proposed to the existing road network as a result of the anticipated increase in the traffic in the vicinity of the site; and
- No significant changes are proposed to the existing site layout. All vehicles will continue to enter and exit the site via the existing access road and in a forward direction.



2 Existing Conditions

2.1 Subject Site

The site is located within the Port of Newcastle lease area in Carrington, NSW. The site is bound by other industrial and logistics operators within the Port of Newcastle to the north, west and south. The site is further bounded by the Hunter River and Aurizon's dedicated berth to the east.

The site is legally described as Lot 16, DP 1190232 (northern lot) and Lot 220, DP1195310 (southern lot) and leased by Aurizon Port Services NSW (APSN) from the Port of Newcastle. A high-resolution aerial image for the site is provided in **Appendix A**.

The property report generated by NSW Planning Portal¹ is provided in **Appendix B**. The subject site is illustrated in **Figure 1**.



Figure 1 Site Location

2.1.1 Site Description

The subject site is accessible to light vehicles via Bourke Street from the north and Cowper Street from the south. Heavy vehicles are only able to access the subject site via Darling Street.



¹ <u>https://www.planningportal.nsw.gov.au/spatialviewer/#/find-a-property/address</u>

The site is located within Zone 'SP1 Special Activities' under City of Newcastle Council's (CNC or Council) Development Control Plan (DCP), which includes objectives to maintain and strengthen the port, freight and bulk storage, industrial and maritime industrial land uses to support the ongoing efficiency of operations at the Port of Newcastle (under the Three Ports SEPP).

The site includes a shed (inc. bays and a hopper), used for the storage of zinc, copper and lead concentrates, enclosed conveyor to transfer these concentrates to the berths, an administration building, rail corridor, storage yard and other ancillary development.

The current operations for the storage and transfer of concentrates (to and from the site) are as follows:

- Concentrate is transported to the site by rail (in sealed containers);
- Containers are unloaded from rail (via a forklift) at the Tippler Pad (unloading pad) into the Tippler building;
- Concentrate containers are 'tipped' (while inside the fully enclosed Tippler building) to allow transportation of concentrate to the shed via enclosed conveyors, empty containers are placed back on the train wagon;
- The Tippler building is fully enclosed with dust emission from tipping activities mitigated by a retractable curtain and operation of a negative pressure system;
- Concentrates are placed in specific bays (stockpiles) via the conveyor system within the shed;
- Concentrates are removed from bays (via front end loaders) and placed within the hopper (within the shed);
- The hopper transfers concentrate to the conveyor which is transferred to the ship loader (via three conveyors and two transfer stations); and
- The ship is loaded and leaves the berth.

It is also understood that no cement is transported to/ from the site currently.

2.2 Road Network

Cement will be transported from East Coast Cement located at 21 Heron Road, Kooragang to Aurizon's existing facility at the Port of Newcastle. Details of the key roads and proposed haulage route are illustrated in **Figure 2** and detailed **Table 2**.



Figure 2 Key Road Network



Table 2Key Road Network

Road Name	Classification	Authority	Existing Form	Posted Speed
Heron Road	Local Road	Council	One traffic lane in each direction, median-divided at the northern side the road and undivided at the southern side of the road, industrial cross-section.	60 km/h
Cormorant Road	State Road (Road Number 108) / Local Road*	State / Council	Two traffic lanes in each direction, median-divided, industrial cross-section (State Road) One traffic lane in each direction, median-divided, industrial cross-section (Local Road)	80 km/h (State Road) 60 km/h (Local Road)
Tourle Street	State Road (Road Number 108)	State	Two traffic lanes in each direction, median-divided, industrial cross-section	60 km/h
Industrial Drive	State Road (Road Number 316)	State	Two traffic lanes in each direction, median-divided, industrial cross-section	60 km/h
Elizabeth Street	Regional Road	Council	One traffic lane in each direction, undivided, industrial cross-section	50 km/h



Road Name	Classification	Authority	Existing Form	Posted Speed
Parker Street	Regional Road	Council	One traffic lane in each direction, undivided, industrial cross-section	Unposted (Default 50 km/h)
Darling Street	Regional Road	Council	One traffic lane in each direction, undivided, urban cross-section	50 km/h

*Cormorant Road is a state road between Tourle Street and Teal Street, and a local road between Teal Street and Heron Road.

2.3 Road Network Planning

2.3.1 State-controlled Road Network Planning

The TfNSW project website² has been reviewed to identify the location and nature of any planned road upgrades for State-controlled roads identified in **Table 2**. The review indicates that there are no future upgrades for the state-controlled roads within the area defined.

2.3.2 Council-controlled Road Network Planning

A review of the most recent CNC *Delivery and Operational Plan* and their project website³ indicates that there are no planned future upgrades for the regional and council-controlled road network defined in **Table 2**.

2.4 Crash History

Crash data was reviewed along the proposed cement delivery route from East Coast Cement to Aurizon's facility at Port of Newcastle with a view to identify any safety deficiencies, including:

- Heron Road between Cormorant Road and East Coast Cement access road;
- Cormorant Road between Tourle Street and Heron Road;
- Tourle Street between Industrial Drive and Cormorant Road;
- Industrial Drive between Elizabeth Street and Tourle Street;
- Elizabeth Street between Industrial Drive and Parker Street;
- Parker Street between Darling Street and Elizabeth Street; and
- Darling Road between the site access and Parker Street.

Crash data has been extracted from TfNSW Centre for Road Safety website⁴. Crashes are reported for the latest five-year period between 2016 and 2020. The locations of the reported crashes are illustrated in **Figure 3**.



² Projects - Roads and Waterways – Transport for NSW

³ Projects and Works - City of Newcastle (nsw.gov.au)

⁴ <u>https://roadsafety.transport.nsw.gov.au/statistics/interactivecrashstats/lga_stats.html?tablga=4</u>





Details of the crashes illustrated in Figure 3 above are further detailed in Table 3.

Table 3Crash Data Details

Location	Crash ID	Year	Severity	Rum Code	Description
Heron Road	1194675	2019	Fatal	60	Parked
Cormorant Road	1164398	2018	Serious injury	88	Out of control on carriageway
Cormorant Road	1170027	2018	Moderate injury	74	Out of control on carriageway
Cormorant Road	1112943	2016	Minor/other injury	30	Rear end
Cormorant Road	1238511	2020	Serious injury	74	Out of control on carriageway
Cormorant Road	1214486	2019	Moderate injury	73	Right off carriageway into object/parked vehicle
Cormorant Road	1119573	2016	Non-casualty (towaway)	30	Rear-end
Cormorant Road	1111907	2016	Non-casualty (towaway)	20	Head on



Location	Crash ID	Year	Severity	Rum Code	Description
Cormorant Road	1128795	2017	Minor/other injury	39	Other same direction
Cormorant Road	1134481	2017	Minor/other injury	87	Off carriageway left on left bend into object/parked vehicle
Cormorant Road	1221825	2019	Serious injury	86	Off carriageway left on left bend
Tourle Street	1160541	2017	Minor/other injury	30	Rear end
Industrial Drive	1112437	2016	Non-casualty (towaway)	39	Other same direction
Industrial Drive	1247824	2020	Moderate injury	87	Off carriageway left on left bend into object/parked vehicle
Industrial Drive	1166387	2018	Moderate injury	34	Lane change right
Industrial Drive	1162508	2017	Moderate injury	48	From footpath
Industrial Drive/Woodstock Street	1235355	2020	Non-casualty (towaway)	13	Right near
Industrial Drive	1219180	2019	Moderate injury	30	Rear end
Industrial Drive	1227204	2020	Non-casualty (towaway)	87	Off carriageway left on left bend into object/parked vehicle
Industrial Drive	1134480	2017	Serious injury	81	Off carriageway left on right bend into object/parked vehicle
Industrial Drive	1213603	2019	Non-casualty (towaway)	89	Other curve
Industrial Drive	1132085	2017	Non-casualty (towaway)	83	Off carriageway right on right vend into object/parked vehicle
Industrial Drive	1207005	2019	Non-casualty (towaway)	83	Off carriageway right on right vend into object/parked vehicle
Industrial Drive	1131560	2017	Moderate injury	83	Off carriageway right on right vend into object/parked vehicle
Industrial Drive	1222175	2019	Moderate injury	71	Left off carriageway into object/parked vehicle
Industrial Drive	1188288	2018	Moderate injury	70	Off carriageway to left
Industrial Drive	1094863	2016	Non-casualty (towaway)	73	Right off carriageway into object/parked vehicle
Industrial Drive	1115187	2016	Serious injury	85	Off carriageway right on left bend into object/parked vehicle
Elizabeth	1108228	2016	Non-casualty (towaway)	37	Left turn sideswipe
Parker Street/Darling Street	1125763	2016	Serious injury	84	Off carriageway right on left bend



As shown in **Figure 3** and listed in **Table 3**, there were a total of 30 reported crashes along the proposed haulage route within the five year review period. Of these 30 crashes, one resulted in a fatality, six resulted in serious injuries, nine resulted in moderate injuries, four resulted in minor injuries, and 10 crashes were tow-away only (non-casualty).

Based on the desktop evaluation of the crash records and low traffic generation potential of the proposal (2 heavy vehicle trips in the peak hour – further detailed in **Section 3.2**) it is considered that there are no singular or recurring road safety issue that would preclude the development or be materially exacerbated by the development.



3 Development Overview

3.1 Proposed Development

Aurizon is seeking approval from the DPE for the expansion of operations at the site. The Proposal is to be undertaken via a DA in accordance with Section 4.15 of the EP&A Act.

The proposed development will increase the storage, loading and unloading capacity for zinc, copper and minerals sands at the existing facility, where these materials are delivered to the facility by rail before being transferred onto ships.

The proposed development also proposes to allow cement to be handled at the facility; up to 85,000 tonnes per annum. Cement will be transported from East Coast Cement (21 Heron Rd, Kooragang NSW 2304) to the Port within 30 tonne ISO containers on 20m long AVs. 85,000 tonnes will result in potential truck movements of 3,280 per year. Existing heavy vehicle access to the Port is via Elizabeth Street, Parker Street and Darling Street. It is proposed that the existing route will be taken for the proposed transportation of cement.

The cement will either be delivered directly to the northern lot where it will be loaded on to ships, or alternatively it will be delivered to the southern lot for storing within the proposed storage shed until it is required to be loaded onto a ship, via the northern lot, at a later date. It should be noted that these short interlot trips will occur on the Port's internal road network, and therefore these short movements will not occur on the public road network.

Figure 4 demonstrates the cement delivery route from East Coast Cement to Aurizon facility.







The concentrate and mineral sands would be stored within separate bays within the existing and extended shed, which will be constructed as part of this application. To facilitate the increase in storage and throughput, the existing shed will be extended by up to approximately 100 meters.

Increased capacity of other materials including zinc, copper, lead concentrate and adding mineral sands will be delivered by rail. As such, no new traffic will be generated on the road network by these materials.

The Port will maintain the current operational hours, twenty-four (24) hours a day and seven (7) days a week. Delivery of cement is expected to be concentrated during the daytime hours (7am to 4pm). There will be no additional staff required to facilitate the increased onsite storage, loading and unloading activities.

3.2 Vehicular Impacts

An increase in truck movements to / from the site will occur across a 24-hour day to support cement deliveries. For the purposes of this traffic assessment, it is assumed that the Port operates approximately 50 weeks a year and 7 days a week. This means that 9.37 trucks (rounded up to 10) are anticipated to deliver cement into the site each day, generating a total of 20 truck movements per day (10 in and 10 out).

The estimated truck movements in regard to increased cement capacity are also tabulated in **Table 4**.

Table 4Forecast Truck Movements

Purpose	Trips	Peak Hour Vehicle Trip Rate	Peak Hour Trips
Cement Delivery (Heavy Vehicle)	20 trips/ day (10 trucks in and 10 trucks out)	For conservativeness, assume that heavy vehicle trips are split evenly across 9 hours (daytime), despite the operations will continue for 24 hours a day	Up to 4 vph (2 in + 2 out)

3.3 Site Access and Car Parking

No changes are proposed to the existing site access arrangement and car parking spaces. As detailed in **Figure 2** and **Table 2**, the haulage of cement will occur via Darling Street.

Current site access arrangement via Darling Street is shown in Figure 5.



Figure 5 Existing Site Access





4 Design Considerations

4.1 Overview

A review of the proposed internal traffic arrangements, as shown on the existing site plan included in **Appendix A**, was undertaken against the following relevant documents:

- Newcastle Development Control Plan (DCP) Section 3.13;
- Australian Standards for Parking facilities Part 2: Off-Street Commercial Vehicle Facilities (AS2890.2); and
- Austroads Guidelines.

4.2 Development Control Plan Requirements

4.2.1 Site Access and Internal Traffic Arrangements

Vehicular access to the northern lot is currently provided with a left-turn ingress and right-turn egress movement via a priority-controlled access driveway from/to Port's internal road⁵ as shown in **Figure 5**. The width of the site access driveway is approximately 9.5m wide and therefore only one-way travel is undertaken.

Cement will also be transported to the southern lot and Aurizon will transport the cement between the two lots as needed. As illustrated in **Figure 5**, it is proposed that cement transporting heavy vehicles will enter the site from the gates located to the north of Dyke Road. It is important to note that Aurizon is proposing to construct the proposed shed as an extension to the southern shed and extending it into the southern lot. If required, Aurizon will install gates at the southern boundary of their land to enable cement deliveries being undertaken at this location. Swept path assessments illustrated in Appendix C – Sheet SK05 provides an overview of the investigated access locations.

Based on the swept path assessments provided in **Appendix C**, no changes to the access road are proposed nor considered necessary as part of this application.

Reflective of the above, the proposed vehicular access arrangements satisfy the relevant design criteria (AS2890.2) and are therefore considered appropriate.

4.2.2 Car Parking and Circulation

The minimum car parking provisions for land within a port is not specified in the DCP or *Chapter 5 of State Environmental Planning Policy (Transport and Infrastructure) 2021.* It is noted that this proposal does not include additional staff on site, thus the existing parking arrangements will be retained. As such, the subject site is considered compliant with the relevant applicable planning instruments.

⁵ Engine House Road, according to <u>https://www.planningportal.nsw.gov.au/spatialviewer/#/find-a-property/address</u>



5 Assessed Traffic Demands

5.1 Existing Traffic Demands

In order to ascertain the existing traffic demands, speed environment and vehicle composition for the road network surrounding the site access, a seven-day automated tube count (ATC) surveys were undertaken between 28 May 2022 and 04 June 2022. Tube count surveys were installed at the following location:

• Darling Street between Hargrave Street and Robertson Street, approximately 130m north from Robertson Street.

A review of the ATC survey data indicated that the average bi-directional traffic volume was 1,570 vehicles on weekdays and 574 vehicles per day on weekend days. It was also observed that bi-directional traffic peaked at 142 vehicles per hour between 9:00am and 10:00am on Monday 30 May 2022.

It was also identified that 69% of the total weekday traffic (7,854 vehicles) at the surveyed location took place from 7:00am to 4:00pm (nine-hour window), Monday to Friday.

The traffic survey data is provided at **Appendix D**.

5.2 Development Traffic Demands

As detailed in **Section 3.1** and **Section 3.2**, the proposed development will generate approximately 3,280 AV per annum to deliver cement from East Coast Cement to the Port of Newcastle. This equates to ten return trips (20 movements) per day and up to four truck movements per hour during the nine-hour day time period as identified in **Section 5.1** (7:00am to 4:00pm).

In the broader context, 20 vehicle movements across the day constitutes approximately 1% of the existing traffic along Darling Street. Based on the low traffic impacts of the proposed development on the wider road network, no additional analysis was considered necessary.



6 Summary and Conclusions

SLR has been engaged by Aurizon to prepare a TIA to support their expanding operations at the Port of Newcastle. The proposed expansion will result in the transportation of approximately 85,000 tonnes of cement per year from East Coast Cement located at 21 Heron Road in Koorarang, NSW to Aurizon's existing facility at the Port of Newcastle in Carrington, NSW.

The Proposal is to be undertaken as a DA in accordance with the Section 4.15 of the EP&A Act.

Based on the analysis and discussion documented herein, the following is concluded:

- The proposed development will generate up to four additional truck movements per hour during Port's peak traffic periods, from 7:00am to 4:00pm, Monday to Friday;
- No additional staff will be employed for the expanded operations and therefore the existing site access and car parking arrangements are retained and considered satisfactory;
- The incremental changes in the development's traffic generation potential are considered insignificant (up to four truck movements in the peak hour) and unlikely to result in a material impact on the wider road network; and
- Based on a review of the historic crash data along the haulage route and consideration of the anticipated low traffic generation potential of the proposed expansion work, the proposal is unlikely to cause safety deficiencies on the wider road network.





Existing Site Imagery





APPENDIX B

Property Report





Property Report

106 BOURKE STREET CARRINGTON 2294



Property Details

Address: Lot/Section /Plan No:

S:	106 BOURKE STR	REET CARRINGTO	N 2294
tion	1/-/DP1187068	1/-/DP1195231	1/-/DP1218150
0:	11/-/DP1190231	110/-/DP1191911	111/-/DP1191911
	113/-/DP1191911	13/-/DP1190232	14/-/DP1190232
	15/-/DP1190232	16/-/DP1190232	2/-/DP1187068
	2/-/DP1195231	2/-/DP1218150	219/-/DP1195310
	220/-/DP1195310	3/-/DP1104199	3/-/DP1187068
	3/-/DP1195231	3/-/DP1218150	30/-/DP1190075
	4/-/DP1104199	8/-/DP1190231	91/-/DP1193181
	92/-/DP1193181	93/-/DP1193181	
:	NEWCASTLE CIT	Y COUNCIL	

Council

Summary of planning controls

Planning controls held within the Planning Database are summarised below. The property may be affected by additional planning controls not outlined in this report. Please contact your council for more information.

Land Zoning	SPI - Speci
Height Of Building	NA
Floor Space Ratio	NA
Minimum Lot Size	NA
Heritage	NA
Land Reservation Acquisition	NA
Foreshore Building Line	NA

P1 - Special Activities: (pub. 2-12-2021)

Detailed planning information

State Environmental Planning Policies which apply to this property

State Environmental Planning Policies can specify planning controls for certain areas and/or types of development. They can also identify the development assessment system that applies and the type of environmental assessment that is required.

This report provides general information only and does not replace a Section 10.7 Certificate (formerly Section 149)



Property Report

106 BOURKE STREET CARRINGTON 2294

- State Environmental Planning Policy (Biodiversity and Conservation) 2021: Excluded (pub. 2-12-2021)
- State Environmental Planning Policy (Biodiversity and Conservation) 2021: Land Application (pub. 2-12-2021)
- State Environmental Planning Policy (Biodiversity and Conservation) 2021: Subject Land (pub. 2-12-2021)
- State Environmental Planning Policy (Building Sustainability Index: BASIX) 2004: Land Application (pub. 25-6-2004)
- State Environmental Planning Policy (Exempt and Complying Development Codes) 2008: Land Application (pub. 12-12-2008)
- State Environmental Planning Policy (Housing) 2021: Land Application (pub. 26-11-2021)
- State Environmental Planning Policy (Industry and Employment) 2021: Land Application (pub. 2-12-2021)
- State Environmental Planning Policy (Planning Systems) 2021: Land Application (pub. 2-12-2021)
- State Environmental Planning Policy (Primary Production) 2021: Land Application (pub. 2-12-2021)
- State Environmental Planning Policy (Resilience and Hazards) 2021: Land Application (pub. 2 -12-2021)
- State Environmental Planning Policy (Resilience and Hazards) 2021: Subject Land (pub. 2-12 -2021)
- State Environmental Planning Policy (Resources and Energy) 2021: Land Application (pub. 2-12-2021)
- State Environmental Planning Policy (Transport and Infrastructure) 2021: Land Application (pub. 2-12-2021)
- State Environmental Planning Policy (Transport and Infrastructure) 2021: Subject Land (pub. 2-12-2021)
- State Environmental Planning Policy No 65—Design Quality of Residential Apartment Development: Land Application (pub. 26-7-2002)

This report provides general information only and does not replace a Section 10.7 Certificate (formerly Section 149)



106 BOURKE STREET CARRINGTON 2294

Other matters affecting the property

Information held in the Planning Database about other matters affecting the property appears below. The property may also be affected by additional planning controls not outlined in this report. Please speak to your council for more information

1.5 m Buffer around Classified Roads	Classified Road Adjacent
Government Property Index:Lot Area	10301 sqm
Land near High Pressure Pipelines	This property may be located near High Pressure Pipelines and could be subject to requirements listed under ISEPP Clause 66C. Please contact the relevant consent authority for more information.
Local Aboriginal Land Council	AWABAKAL
Mine Subsidence Development	Guideline: 2
	Full Guideline Development guidelines
	Note Development guidelines are subject to change.
	Guideline: 3
	Full Guideline Development guidelines
	Note Development guidelines are subject to change.
	Guideline: 7
	Full Guideline <u>Development guidelines</u>
	Note Development guidelines are subject to change.
	Guideline: 8
	Full Guideline Development guidelines
	Note Development guidelines are subject to change.
Mine Subsidence District	NEWCASTLE
Regional Plan Boundary	Hunter
State Heritage Register Curtilage	Hydraulic Engine House and Crane Bases Nos 7, 8, 9 and 10
Sydney Trains Infrastructure Protection Zone	Clause 45/Referral

This report provides general information only and does not replace a Section 10.7 Certificate (formerly Section 149)



Swept Path Assessment







The content contained within this document may be based

on third party data. SLR Consulting Australia Pty Ltd does not guarantee the accuracy of any such information.

610.30882 Project No: 10/08/2022 Drawn by: Charlie Seventekin AS SHOWN Scale: Sheet Size: A3 Projection: GDA2020 Zone 56

Date:

CONCEPT ONLY SWEPT PATH LEGEND

Vehicle Path Vehicle Body







: 6.0 : 28.3 : 72.0

SCALE 1:500

Aurizon Port Services

Aurizon Facility - Port of Newcastle



20m long Articulated Vehicle



L16 175 EAGLE STREET BRISBANE CITY 4000 AUSTRALIA T: 61 7 3858 4800 www.slrconsulting.com

The content contained within this document may be based

on third party data. SLR Consulting Australia Pty Ltd does not guarantee the accuracy of any such information.

10/08/2022 Charlie Seventekin Drawn by: AS SHOWN Sheet Size: A3 Projection: GDA2020 Zone 56

Date:

Scale:

SWEPT PATH LEGEND

Vehicle Path

Vehicle Body ---- Body Clearance Front Wheels



: 6.0 : 28.3 : 72.0



Aurizon Port Services

Aurizon Facility - Port of Newcastle

20m long Articulated Vehicle **On-Site Reversing**







The content contained within this document may be based on third party data. SLR Consulting Australia Pty Ltd does not guarantee the accuracy of any such information.

10/08/2022 Charlie Seventekin Drawn by: AS SHOWN Scale: Sheet Size: A3 Projection: GDA2020 Zone 56

Date:

CONCEPT ONLY SWEPT PATH LEGEND

Vehicle Path Vehicle Body Body Clearance Front Wheels





: 6.0 : 28.3 : 72.0

Aurizon Port Services

Aurizon Facility - Port of Newcastle

20m long Articulated Vehicle Forward Exit Movement









The content contained within this document may be based on third party data. SLR Consulting Australia Pty Ltd does not guarantee the accuracy of any such information.

610.30882 10/08/2022 Charlie Seventekin Drawn by: AS SHOWN Sheet Size: A3 Projection: GDA2020 Zone 56

Date:

Scale:

CONCEPT ONLY SWEPT PATH LEGEND

/ehicle Path Vehicle Body Body Clearance Front Wheels





: 6.0 : 28.3 : 72.0

Aurizon Port Services

Aurizon Facility - Port of Newcastle

20m long Articulated Vehicle Extended Shed Access



APPENDIX D

Traffic Survey Data





-

Site Darling St

Direction Northbound

Back to Site Summary Page

Day	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	7 days		Weekday		Weekend	
Date	30-05-2022	31-05-2022	01-06-2022	02-06-2022	03-06-2022	28-05-2022	29-05-2022	Total	Average	Total	Average	Total	Average
AM Peak	08:00	09:00	09:00	09:00	09:00	11:00	11:00	N/A	09:00	N/A	09:00	N/A	11:00
PM Peak	15:00	13:00	12:00	12:00	14:00	12:00	12:00	N/A	12:00	N/A	12:00	N/A	12:00
00:00	1	5	4	4	1	1	6	22	3	15	3	7	4
01:00	1	3	6	1	3	2	0	16	2	14	3	2	1
02:00	0	2	3	2	2	4	0	13	2	9	2	4	2
03:00	1	2	2	6	3	0	0	14	2	14	3	0	0
04:00	6	7	9	11	12	3	0	48	7	45	9	3	2
05:00	28	27	30	19	21	9	0	134	19	125	25	9	5
06:00	48	54	47	51	50	25	4	279	40	250	50	29	15
07:00	59	66	64	49	48	26	9	321	46	286	57	35	18
08:00	76	64	73	69	56	17	9	364	52	338	68	26	13
09:00	76	68	80	71	66	21	21	403	58	361	72	42	21
10:00	58	46	62	53	53	34	15	321	46	272	54	49	25
11:00	52	51	58	55	49	43	23	331	47	265	53	66	33
12:00	59	59	58	71	59	33	34	373	53	306	61	67	34
13:00	63	62	56	61	54	33	22	351	50	296	59	55	28
14:00	56	60	52	71	65	29	21	354	51	304	61	50	25
15:00	64	48	52	52	52	29	18	315	45	268	54	47	24
16:00	46	42	38	46	42	17	23	254	36	214	43	40	20
17:00	52	39	36	38	31	20	10	226	32	196	39	30	15
18:00	21	16	23	28	42	11	8	149	21	130	26	19	10
19:00	17	11	14	10	21	4	8	85	12	73	15	12	6
20:00	10	6	10	10	14	4	19	73	10	50	10	23	12
21:00	16	15	13	14	17	5	2	82	12	75	15	7	4
22:00	14	7	4	6	14	5	0	50	7	45	9	5	3
23:00	12	1	2	2	8	1	3	29	4	25	5	4	2
Total	836	761	796	800	783	376	255	4607	657	3976	796	631	322
% Heavy	36.96%	37.19%	34.67%	33.88%	31.55%	25.27%	4.71%	32.41% 34.8		B6%	16.96%		



-

Site Darling St

Direction Southbound

Back to Site Summary Page

Day	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	7 days		Weekday		Weekend	
Date	30-05-2022	31-05-2022	01-06-2022	02-06-2022	03-06-2022	28-05-2022	29-05-2022	Total	Average	Total	Average	Total	Average
AM Peak	09:00	08:00	10:00	10:00	10:00	11:00	09:00	N/A	10:00	N/A	10:00	N/A	10:00
PM Peak	12:00	12:00	15:00	15:00	14:00	13:00	16:00	N/A	12:00	N/A	12:00	N/A	13:00
00:00	1	3	1	1	1	4	0	11	2	7	1	4	2
01:00	2	0	1	1	3	0	1	8	1	7	1	1	1
02:00	0	2	1	1	1	3	0	8	1	5	1	3	2
03:00	3	0	0	3	2	1	2	11	2	8	2	3	2
04:00	6	5	4	8	6	2	1	32	5	29	6	3	2
05:00	30	35	30	30	31	9	1	166	24	156	31	10	5
06:00	40	38	34	34	33	8	1	188	27	179	36	9	5
07:00	62	50	59	51	49	24	5	300	43	271	54	29	15
08:00	60	71	63	56	46	23	5	324	46	296	59	28	14
09:00	66	49	61	45	58	20	14	313	45	279	56	34	17
10:00	61	59	64	72	59	29	14	358	51	315	63	43	22
11:00	51	62	52	64	56	32	8	325	46	285	57	40	20
12:00	79	63	70	59	61	28	18	378	54	332	66	46	23
13:00	73	55	58	53	43	32	22	336	48	282	56	54	27
14:00	65	59	49	64	65	24	16	342	49	302	60	40	20
15:00	76	44	71	75	54	23	16	359	51	320	64	39	20
16:00	46	57	50	48	33	10	26	270	39	234	47	36	18
17:00	39	36	36	36	37	16	12	212	30	184	37	28	14
18:00	25	19	21	18	27	7	8	125	18	110	22	15	8
19:00	22	16	16	21	17	6	7	105	15	92	18	13	7
20:00	16	6	15	16	10	9	7	79	11	63	13	16	8
21:00	14	12	12	10	16	7	2	73	10	64	13	9	5
22:00	0	4	3	9	16	9	0	41	6	32	6	9	5
23:00	5	6	0	2	13	5	1	32	5	26	5	6	3
Total	842	751	771	777	737	331	187	4396	629	3878	774	518	265
% Heavy	38.36%	35.69%	33.98%	33.46%	28.90%	28.40%	6.95%	32.60% 34.19%		19%	20.66%		

ASIA PACIFIC OFFICES

ADELAIDE

60 Halifax Street Adelaide SA 5000 Australia T: +61 431 516 449

DARWIN

Unit 5, 21 Parap Road Parap NT 0820 Australia T: +61 8 8998 0100 F: +61 8 9370 0101

NEWCASTLE CBD

Suite 2B, 125 Bull Street Newcastle West NSW 2302 Australia T: +61 2 4940 0442

TOWNSVILLE

12 Cannan Street South Townsville QLD 4810 Australia T: +61 7 4722 8000 F: +61 7 4722 8001

AUCKLAND

Level 4, 12 O'Connell Street Auckland 1010 New Zealand T: 0800 757 695

SINGAPORE

39b Craig Road Singapore 089677 T: +65 6822 2203

BRISBANE

Level 16, 175 Eagle Street Brisbane QLD 4000 Australia T: +61 7 3858 4800 F: +61 7 3858 4801

GOLD COAST

Level 2, 194 Varsity Parade Varsity Lakes QLD 4227 Australia M: +61 438 763 516

NEWCASTLE

10 Kings Road New Lambton NSW 2305 Australia T: +61 2 4037 3200 F: +61 2 4037 3201

WOLLONGONG

Level 1, The Central Building UoW Innovation Campus North Wollongong NSW 2500 Australia T: +61 2 4249 1000

NELSON

6/A Cambridge Street Richmond, Nelson 7020 New Zealand T: +64 274 898 628

CAIRNS

Level 1 Suite 1.06 Boland's Centre 14 Spence Street Cairns QLD 4870 Australia T: +61 7 4722 8090

MACKAY

21 River Street Mackay QLD 4740 Australia T: +61 7 3181 3300

PERTH

Grd Floor, 503 Murray Street Perth WA 6000 Australia T: +61 8 9422 5900 F: +61 8 9422 5901

CANBERRA

GPO 410 Canberra ACT 2600 Australia T: +61 2 6287 0800 F: +61 2 9427 8200

MELBOURNE

Level 11, 176 Wellington Parade East Melbourne VIC 3002 Australia T: +61 3 9249 9400 F: +61 3 9249 9499

SYDNEY

Tenancy 202 Submarine School Sub Base Platypus 120 High Street North Sydney NSW 2060 Australia T: +61 2 9427 8100 F: +61 2 9427 8200

WELLINGTON

12A Waterloo Quay Wellington 6011 New Zealand T: +64 2181 7186

www.slrconsulting.com