

NEWCASTLE SAND

Traffic Management Plan

Williamtown Sand Syndicate Pty Ltd

Cabbage Tree Road Sand Quarry
Cabbage Tree Road, Williamtown

23 September 2026

Traffic Management Plan

Cabbage Tree Road Sand Quarry
Cabbage Tree Road, Williamtown

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Prepared for:

WILLIAMTOWN SAND SYNDICATE PTY LTD

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Glossary

Abbreviation	Definition or Meaning
AR	Annual Review under Schedule 5, Condition 11
AS	Australian Standard
DPHI	Department of Planning, Housing and Infrastructure
EPA	Environmental Protection Authority
EPL	Environmental Protection Licence
km/h	Measure of speed in kilometres per hour
m	metre
Mt	Million tonne
NSW	New South Wales
PSC	Port Stephens Council
SSD-6125	Development Consent for the Cabbage Tree Road Sand Quarry
TfNSW	Transport for NSW
tpa	tonnes per annum
WSS	Williamtown Sand Syndicate (the owner of Newcastle Sand)

1. INTRODUCTION

1.1 BACKGROUND

Newcastle Sand currently operates at 398 Cabbage Tree Road, Williamtown, approximately 30 km from the Newcastle central business district. Newcastle Sand is a wholly owned subsidiary of Williamtown Sand Syndicate Pty Ltd (WSS). The Project will extract up to 530,000 tonnes per annum of sand products over a period of up to 15 years.

Development Consent (SSD-6125) was granted by the NSW Independent Planning Commission on 9 May 2018 for construction and operation of Cabbage Tree Road Sand Quarry. The project commenced operations in May 2020 following completion of the approved site access intersection and associated infrastructure.

The quarry extracts and processes sand products for use in the construction, landscaping and industrial sectors. Operations include extraction, screening, washing, stockpiling, loading and transport of approved quarry products.

The Development Consent requires the preparation and implementation of a Traffic Management Plan (TMP) to manage traffic generated by the development and minimise impacts on local residents, road users and the surrounding environment.

This plan has been prepared to satisfy the requirements of Development Consent SSD-6125 and forms part of Newcastle Sand's environmental management framework, and supersedes previous versions of the plan and reflects current quarry operations, management practices and regulatory requirements at the time of issue.

Modification 4 approved a 7.1 ha Western Extension on Lot 9 DP239608 together with several minor adjustments to the approved disturbance boundary. The Western Extension will utilise the existing site access, haul roads and intersection with Cabbage Tree Road. No additional site access points are proposed, and all product haulage will continue to occur via the existing approved road network. Modification 4 also allows for the importation of up to 6,000 tonnes per annum of Virgin Excavated Natural Material (VENM) sand from local construction sites for processing on site. Truck movements generated by the import of VENM sand, in combination with other truck movements, will remain within the approved haulage rates. The latest impact assessment determined that Modification 4 does not require any amendment to the approved hourly or daily haulage limits, and the impacts associated with the modification are considered negligible.

1.2 PROJECT OVERVIEW

The key details of the Project are shown within **Table 1** below. An overview of the project area is shown in **Table 1**. Truck movements onsite are depicted in **Figure 2** and **Figure 3.**

Table 1: Key Aspects of the Cabbage Tree Road Sand Project.

Aspect	Key Aspects of the Project
Key elements	Sand quarry extracting up to 530,000 tonnes per annum until 31 December 2033, incorporating dry sand extraction, screening, air separation and sand washing. The Project includes the quarry access intersection with Cabbage Tree Road, internal sealed and unsealed haul roads, processing plant, wash plant, water management infrastructure, stockpile areas, weighbridge, workshop, offices and ancillary facilities. Progressive rehabilitation will be undertaken throughout the life of the quarry, restoring disturbed land to native vegetation communities in accordance with the approved Conceptual Rehabilitation Plan.
Location	398 Cabbage Tree Road, Williamtown, within the Port Stephens Local Government Area.
Property Titles	Five titles within the Parish of Stockton, County of Gloucester including: Lot 100 DP1263921 at 398 Cabbage Tree Road, Williamtown (replaces Lot 1 DP 224587 following the construction of intersection). Lot 121 DP 556403 at 282B Cabbage Tree Road, Williamtown. Lot 11 DP 629503 at 282A Cabbage Tree Road, Williamtown. Lot 1012 DP 814078 at 282 Cabbage Tree Road Williamtown. Lot 9 DP239608 at 442 Cabbage Tree Road Williamtown (Western Extension).
Land Owner	Port Stephens Council (Lots 100, 121, 11 and 1012) and Lot 9 DP239608, operated under lease arrangements by Williamtown Sand Syndicate Pty Ltd.
Proponent	Williamtown Sand Syndicate Pty Ltd, the owner of the quarry operator Newcastle Sand.
Area	Total Project Area of approximately 48.9 hectares (including Mod 4) from a Subject Land Area of approximately 197 hectares.
Project Life	Quarrying operations are approved until 31 December 2033. The remaining operational life of the quarry will depend on market demand and annual production rates, up to the approved maximum extraction rate of 530,000 tonnes per calendar year.
Extraction Rate	Maximum of 530,000 tonnes per annum, and an indicative maximum daily rate of 3,000 tonnes in a calendar year.
Operating Hours	Construction of intersection, access and workshop and office: 7:00am to 5:00pm Monday to Friday. 8:00am to 1:00pm Saturday. No works on Sunday or public holidays. Quarrying Operations: 7:00am to 5:00pm Monday to Friday. 7:00am to 4:00pm on Saturday. No quarrying on Sunday or a Public Holiday. Loading and dispatch of trucks: 6:00am to 6:00pm Monday to Friday. 7:00am to 4:00pm Saturday. No works on Sunday or public holidays.

Aspect	Key Aspects of the Project
Transport Rate	Up to 6 laden trucks per hour (12 trips per hour) during the hours of 6 am to 7 am Monday to Friday. Up to a maximum of 10 laden trucks per hour (20 trips per hour) during hours of 7 am to 5 pm Monday to Friday (i.e. all haulage hours excluding the morning peak). Up to a maximum of 10 laden trucks per hour (20 trips per hour) during hours of 7 am to 4 pm Saturdays. Haulage between 5 am and 6 am is subject to agreement from adjacent landowners as per Schedule 3, Condition 1. Up to 6 vehicles of employees would be expected to arrive from approximately 5:30 am to 7 am and leave between 5 pm and 7 pm.
Resource and products	Approved sand resources within the Southern Resource Area, Northern Resource Area and Western Extension area, comprising raw fill sand, screened sand, sandy loam, concrete sand and glass sand (estimated at about 16% of total resource), extracted from the site and transported via truck onto Cabbage Tree Road for distribution to market. Extraction no closer than 0.7 m above the predicted maximum groundwater level. Import, processing and re-sale of VENM sand sourced offsite.
Extraction Method	Excavator and/or bulldozer to clear vegetation and strip topsoil. Bulldozer or grader to windrow sand. Excavators extract material and load onto dump trucks. Dump trucks to transfer sand to the processing plant. Front-end loader to feed conveyors to convey sand to the processing plant when dump trucks unsuitable.
Processing Methods	Raw sand product extracted directly from face with no processing. Sand fed into electrically powered screen. Screened sand sold as product or fed to electrically powered air separator or wash plant. Products stockpiled for loading directly into truck or fill bulk bags for removal from the site by truck.
Support facilities and utilities	Site office, workshop, stores, car parking. Power supply from local network Water supply from local network.

1.3 PURPOSE AND SCOPE

The purpose of this Traffic Management Plan is to establish the management framework for traffic generated by the operation of the quarry and associated transport activities, ensuring compliance with SSD-6125.

Development Consent conditions are addressed in **Table 2.** This TMP will be implemented in conjunction with the other management plans required under the Development Consent for the duration of quarry construction and operations. Specifically, this Plan seeks to:

- Minimise traffic impacts on local residents and road users.
- Maintain safe access to and from the quarry.
- Minimise noise, dust and amenity impacts associated with heavy vehicle movements.
- Ensure compliance with Development Consent SSD-6125.

- Provide a framework for the management of truck movements entering and exiting the site.
- Establish requirements for driver behaviour and haulage activities.
- Provide procedures for monitoring, reporting and investigating traffic related incidents and complaints.
- Promote continual improvement in traffic management performance.

This Plan applies to employees, contractors, visitors, operators, customers collecting product; and any person undertaking activities associated with vehicle movements to or from the site.

1.4 CONSULTATION AND PLAN DEVELOPMENT

The approved Traffic Management Plan was prepared in consultation with Transport for NSW (TfNSW) (formerly Roads and Maritime Services) and Port Stephens Council (PSC) in accordance with the requirements of Development Consent SSD-6125 for approval.

Subsequent revisions of the TMP have incorporated operational experience, compliance monitoring outcomes, complaint investigations, regulatory correspondence and recommendations arising from environmental audits.

Version 8 update has been prepared to:

- Reflect current quarry operations.
- Update regulatory agency references.
- Outline compliance, monitoring and reporting processes.
- Outline complaint investigation procedures.
- Incorporate current site traffic management practices.
- Incorporate the approval of Modification 4 to SSD-6125 and confirm that the existing traffic management measures remain appropriate for the modified development.

The Plan will continue to be reviewed periodically to ensure it remains consistent with approved operations, applicable legislation, consent requirements and industry best practice. See **Appendix 2** for a summary of consultation undertaken to date.

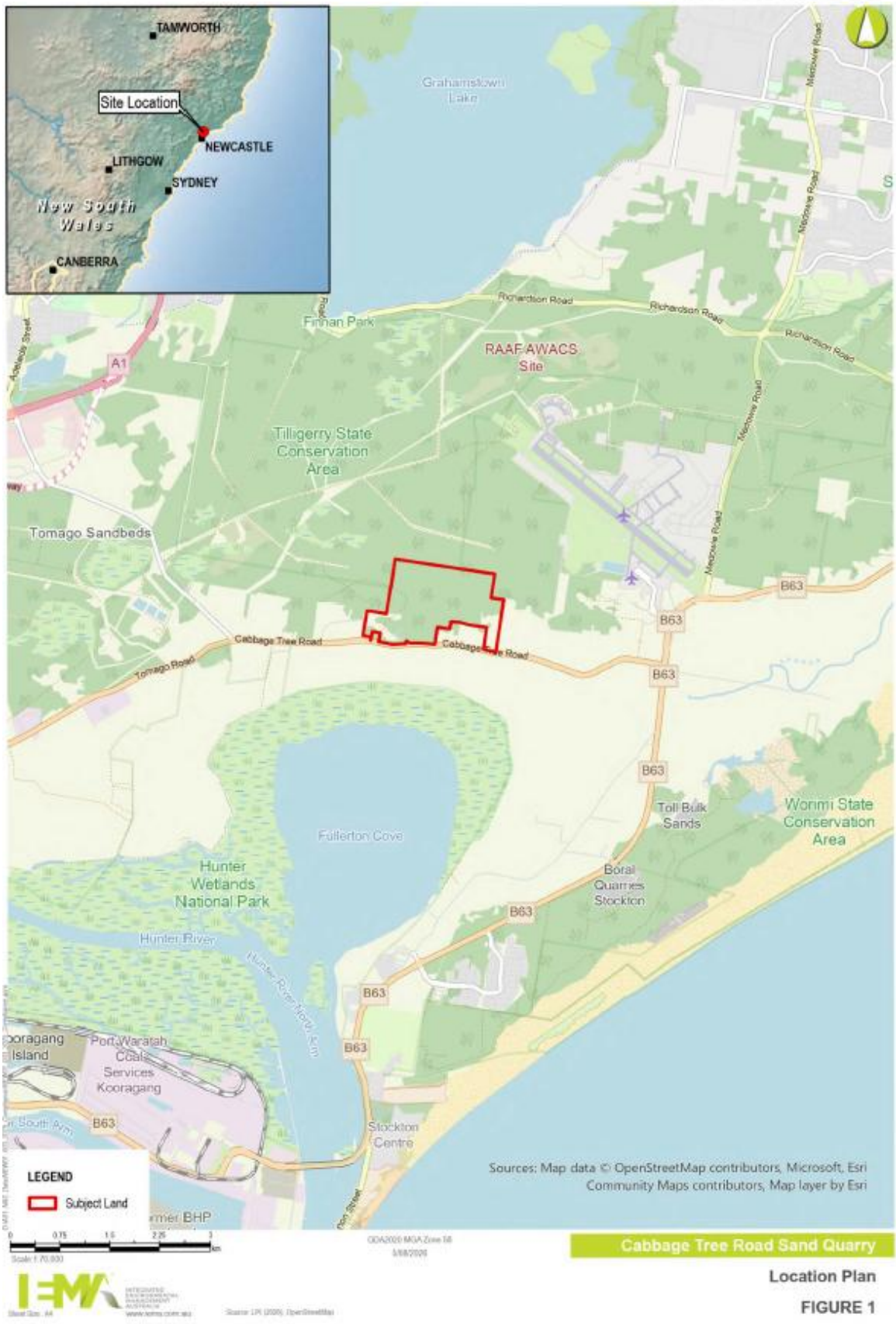


Figure 1: Cabbage Tree Quarry (Newcastle Sand) Location

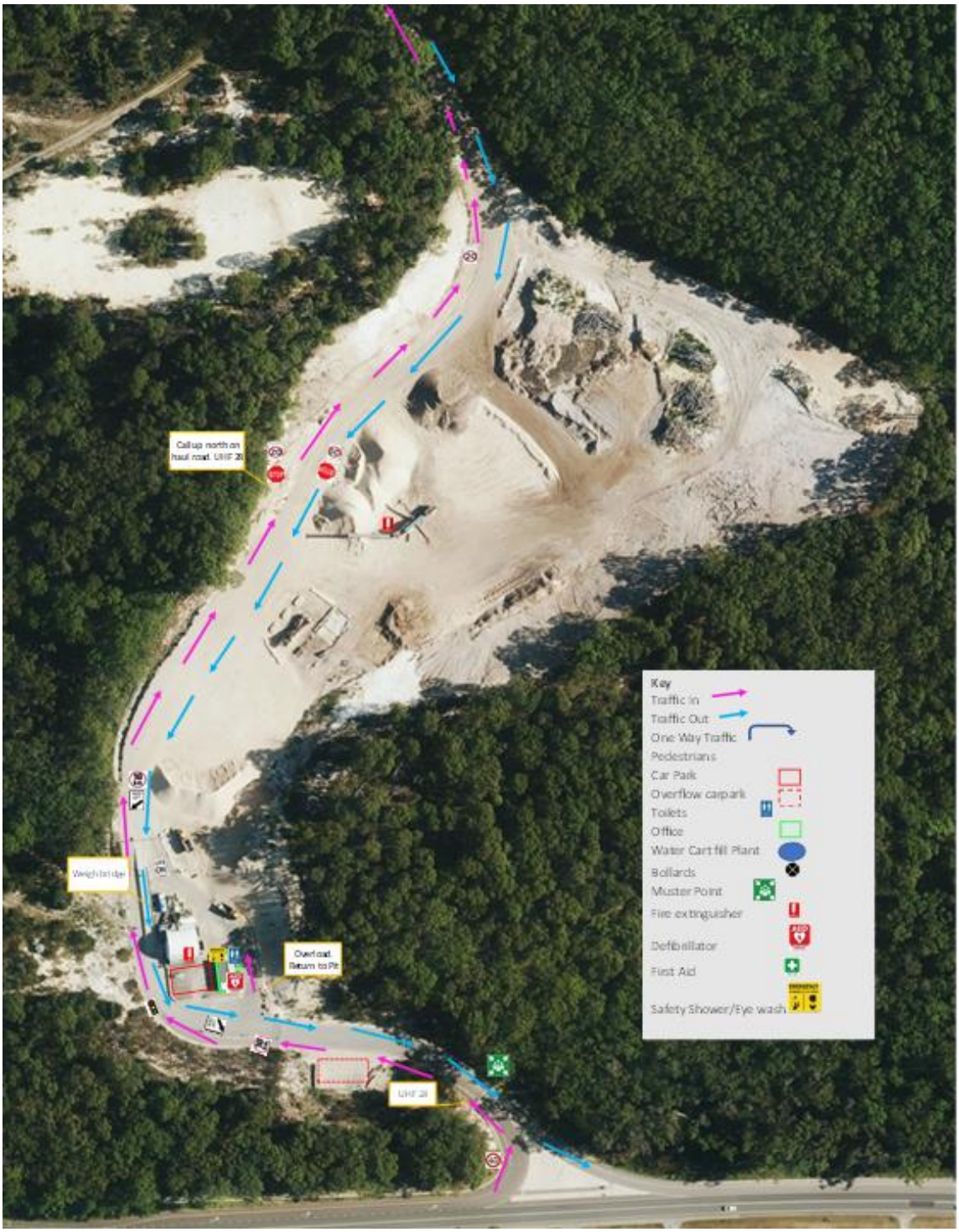


Figure 2: Site Traffic Management, Southern Resource Area



Figure 3: Traffic Management in Northern Resource Area

2. STATUTORY REQUIREMENTS

2.1 REGULATORY FRAMEWORK

The operation of Newcastle Sand is regulated through a range of approvals, licences and statutory requirements. This Traffic Management Plan has been prepared to address the traffic and transport management requirements applicable to the quarry and associated transport activities. The primary regulatory and legislative instruments relevant to this Plan include:

- State Significant Development Consent SSD-6125 (as modified).
- Environmental Planning and Assessment Act 1979.
- Road Rules 2014 (NSW).
- Roads Act 1993 (where applicable).

This Plan should be read in conjunction with Newcastle Sand's other approved management plans.

2.2 DEVELOPMENT CONSENT

Development Consent was granted for the Project under the *Environmental Planning and Assessment Act 1979* by the NSW Independent Planning Commission.

Table 2 provides a summary of where each requirement relating to traffic and transport are addressed in this document.

Table 2: Development Consent Conditions (SSD-6125 Modification 4)

Condition	Description	Addressed in Section
Schedule 3 – Specific Environmental Conditions		
22	**TRANSPORT** **Operating Conditions** The Applicant must: (a) ensure that all laden trucks entering or exiting the site have their loads covered; (b) ensure that all laden trucks exiting the site are cleaned before leaving the site of material that may fall from vehicles; and (c) use its best endeavours to ensure that appropriate signage is displayed on all trucks used to transport product from the development so they can be easily identified by road users.	**Section 5** and **6**
23	The Applicant must ensure that: (a) speed limits of 40 km/hour for vehicles entering the site on sealed roads; 60 km/hr for vehicles exiting the site; and 20 km/hour for vehicles using all other roads and areas on site are applied and enforced; (b) trucks slowing to use the intersection of the quarry access road and Cabbage Tree Road do not use engine or compression braking systems; (c) laden truck movements exiting the site do not exceed 6 per hour during the period from 6 am to 7 am, Monday to Friday;	**Section 5**

Condition	Description	Addressed in Section
	(d) laden truck movements exiting the site do not exceed 10 per hour during the period from 7 am to 5 pm, Monday to Friday; and (e) laden truck movements exiting the site do not exceed 10 per hour during the period from 7 am to 4 pm, Saturdays. *Note: In this condition, "per hour" means within any period of 60 minutes following the change of hour.* 23A The Applicant must ensure that if agreement is reached with adjoining residents under condition 1 of this Schedule, laden truck movements exiting the site do not exceed 6 per hour during the period from 5 am to 6 am, Monday to Friday.	
24	**Traffic Management Plan** The Applicant must prepare a Traffic Management Plan for the development to the satisfaction of the Planning Secretary. This plan must: (a) be prepared in consultation with the TfNSW and Council; (b) be submitted to the Planning Secretary for approval prior to commencing quarrying operations, unless otherwise agreed by the Planning Secretary; (c) describe the processes in place for the control of truck movements entering and exiting the site; (d) describe measures to ensure that trucks do not park on the verge of Cabbage Tree Road prior to the opening time of the quarry, including the use of security guards at least twice per week for at least six months from the commencement of trucking operations; (e) include a Drivers' Code of Conduct that details the safe and quiet driving practices that must be used by drivers travelling to and from the quarry; (f) include a compliance monitoring program for the requirements of the Drivers' Code of Conduct of condition 25 of this Schedule; and (g) propose measures to minimise the transmission of dust and tracking of material onto the surface of public roads from vehicles leaving the quarry. The Applicant must not commence quarrying operations until the Traffic Management Plan is approved by the Planning Secretary. The Applicant must implement the Traffic Management Plan as approved from time to time by the Planning Secretary.	This document
25	**Drivers' Code of Conduct** The Applicant must prepare a Drivers' Code of Conduct applicable to drivers of all development-related vehicles, including all trucks that haul sand from the site. This Code of Conduct must: (a) be prepared in consultation with Council and TfNSW and be submitted to the Planning Secretary for approval; (b) address the requirements of conditions 22 and 23 of this schedule; (c) describe the measures that would be implemented to ensure that drivers of all development-related vehicles, including sand haulage trucks: • comply with this Drivers' Code of Conduct; • are made aware of potential safety issues both on site and on the public road haulage routes; • are made aware of the requirement to pre-book loading slots for trucks arriving prior to 7am;	**Section 5** and Appendix 1

Condition	Description	Addressed in Section
	• are informed of when heavy traffic volumes are likely to be encountered on Cabbage Tree Road, including the AM and PM peaks; • are informed of usual school bus travel times on Tomago Road and Cabbage Tree Road as well as the location of all bus stops on these roads; • are made aware of potential interactions with general traffic on Cabbage Tree Road whilst merging from the acceleration lane of the quarry access intersection; • are informed that Masonite and Old Punt Roads are not to be used for the haulage of sand, except for deliveries to properties in the immediate vicinity of those roads; • are provided with contact details in case of emergencies or accidents; • are provided with details of potential environmental hazards, such as potential for fauna (e.g. Koalas) to cross the quarry access road, particularly at dawn and dusk; • are provided with a detailed protocol that sets out what drivers are required to do to arrange for the care of injured fauna and that they must immediately report all fauna strikes on the site to the Applicant; • provided with updates on local road conditions; • minimise truck noise impacts at residences on Cabbage Tree Road; • minimise travel to the site prior to commencing product loading operations; The Applicant must implement the Drivers' Code of Conduct as approved from time to time by the Planning Secretary.	
26	**Vehicle Monitoring** The Applicant must, by the use of its weighbridge, make, and retain for 12 months, records of the time of arrival, time of dispatch, weight of load and vehicle identification for each laden truck dispatched from the site. The Applicant must publish a summary of these records on its website each month. These records must be made available to the Department on request.	**Section 6**
27	The Applicant must install and operate video cameras adjacent to the weighbridge to monitor the time and direction of travel of vehicles as they enter and leave the quarry, to the satisfaction of the Planning Secretary. These cameras must be located in fixed positions with a field of view that excludes land not owned by the Applicant. Recordings from these cameras must be securely stored for at least 30 days and made available to the Department on request.	**Section 6**
28	The Applicant must provide a report in each Annual Review which includes details of all fauna injured or killed by development-related vehicles, time and date of any such fauna strike, species involved, action taken following the strike and any consequent measures put in place to prevent or minimise a recurrence.	**Section 6**
Schedule 5 – Environmental Management, Reporting and Auditing		
3	Management Plan Requirements The Applicant must ensure that the management plans required under this consent are prepared in accordance with any relevant guidelines, and include: detailed baseline data; a description of: the relevant statutory requirements (including any relevant approval, licence or lease conditions); any relevant limits or performance measures/criteria; and the specific performance indicators that are proposed to be used to judge the performance of, or guide the implementation of, the development or any management measures;	This Document

Condition	Description	Addressed in Section
	a description of the measures that are to be implemented to comply with the relevant statutory requirements, limits, or performance measures/criteria; a program to monitor and report on the: impacts and environmental performance of the development; and effectiveness of any management measures (see (c) above); a contingency plan to manage any unpredicted impacts and their consequences and to ensure that ongoing impacts reduce to levels below relevant impact assessment criteria as quickly as possible; a program to investigate and implement ways to improve the environmental performance of the development over time; a protocol for managing and reporting any: incidents; complaints; non-compliances with statutory requirements; and exceedances of the impact assessment criteria and/or performance criteria; and a protocol for periodic review of the plan *Note The Planning Secretary may waive some of these requirements if they are unnecessary or unwarranted for particular management plans.*	

3. EXISTING ENVIRONMENT

3.1 EXISTING CONDITIONS

Newcastle Sand is located on the Northern side of Cabbage Tree Road, Williamtown, within the Port Stephens Local Government Area. The site is accessed via a purpose-built left-in/left-out intersection incorporating dedicated acceleration and deceleration lanes approved as part of SSD-6125. Access to the quarry is restricted to this approved intersection. Cabbage Tree Road provides connectivity between Nelson Bay Road to the east and Tomago Road to the west and forms part of the regional road network servicing Williamtown, Tomago, Newcastle and Port Stephens.

The surrounding area contains a mixture of rural residential properties, industrial activities, environmental conservation areas and transport infrastructure. Residential receivers are located along sections of Cabbage Tree Road and nearby local roads.

Heavy vehicle movements associated with Newcastle Sand utilise the approved road network and are managed in accordance with the requirements of SSD-6125 and the Driver Code of Conduct.

Site access speed limits are:

- 40 km/h for vehicles entering the site from Cabbage Tree Road.
- 60 km/h for vehicles exiting the site towards Cabbage Tree Road.
- 20 km/h within operational areas of the quarry.

Traffic movements are monitored through weighbridge records, CCTV systems and site inspections to ensure compliance with approved operating requirements.

3.2 CURRENT OPERATIONS & TRAFFIC CHARACTERISTICS

Newcastle Sand has been operating since May 2020 and generates traffic associated with the transport of quarry products, employee movements, contractors, visitors and service providers. The site primarily dispatches sand products using road registered heavy vehicles in accordance with the approved operating hours and vehicle movement limits specified within Development Consent SSD-6125.

Product transport from the site is primarily undertaken by truck and dog combinations, road registered trucks. The one tonne bulk bags are also available for transport from the site.

Traffic generation from the site comprises of:

- Heavy vehicles transporting quarry products to customers.
- Employee vehicles.
- Contractor and service vehicles.
- Deliveries and maintenance vehicles.

- Occasional visitor vehicles.

Under approved operating conditions, traffic associated with quarry operations is managed through the following:

- Annual average daily truck movement of approximately 63 laden trucks per day (126 vehicle movements), equating to average hourly truck movements of 5 laden trucks per hour (10 trips per hour).
- Maximum rate of 6 laden trucks per hour (12 vehicle movements per hour) during the hours of 6 am to 7 am.
- Maximum rate of 10 laden trucks per hour (20 trips per hour) during hours of 7 am to 6 pm.
- Maximum of 10 laden trucks per hour (20 trips per hour) during hours of 7 am to 4 pm Saturdays.

Employee traffic associated with quarry operations is limited and generally occurs outside peak product dispatch periods. Potential traffic related impacts associated with the quarry operations include heavy vehicle noise associated with vehicle movements, vehicle entry exit and exit safety, driver behaviour and interactions with native fauna. These potential impacts are managed through controls detailed in **Section 5** of this plan.

Traffic monitoring undertaken since commencement of operations indicates that quarry traffic can be accommodated within the approve road network and site access arrangement when managed in accordance with this plan and the requirements of the SSD-6125. Since quarry operations commenced in 2020, Newcastle Sand has maintained detailed records of monthly laden truck movements through the site weighbridge and CCTV monitoring system. These records provide an operational dataset that supplements the original EIS traffic assessment, allowing traffic management measures to be reviewed against actual haulage demand and informing ongoing implementation of this TMP.

Figure 4 demonstrates that truck movements vary seasonally, with the highest haulage volumes generally occurring between June and November, reflecting market demand rather than a constant rate of production. This information is used to inform operational planning, staffing, customer booking systems and ongoing review of traffic management measures, while ensuring compliance with the approved hourly truck movement limits.

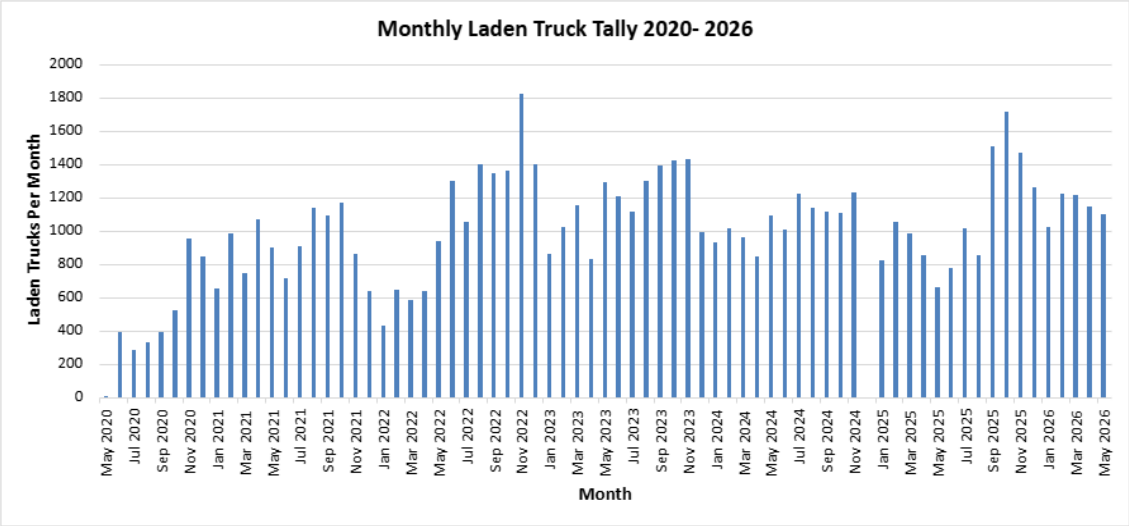


Figure 4: Operational Truck Movements Since Commencement (2020–2026)

Modification 4 (MOD4) amended the approved development to facilitate the continued efficient operation of the Newcastle Sand Quarry through a western extension of the approved extraction area and several minor operational refinements. The modification includes an additional 7.1 ha Western Extension, minor amendments to the approved extraction boundary, approval to import up to 6,000 tonnes per annum of Virgin Excavated Natural Material (VENM) for processing, updates to extraction methodologies and associated changes to biodiversity offset and environmental management requirements.

While MOD4 enables the recovery of an additional approximately 533,000 tonnes of sand over the life of the quarry, it does not increase the approved annual extraction rate, approved haulage rates, operating hours or daily truck limits. The traffic assessment undertaken as part of the MOD4 Modification Report concluded that traffic generated by the proposed changes, including the import of VENM, would remain within the existing approved haulage capacity and would not result in any additional traffic impacts on the surrounding road network. Accordingly, the existing traffic management measures outlined in this TMP remain appropriate for the modified development.

3.3 SENSITIVE RECEIVERS AND ROAD USERS

Traffic associated with Newcastle Sand has the potential to interact with a range of sensitive receivers and road users within the locality. Heavy vehicles associated with quarry operations share the surrounding road network with:

- Residential properties are located along sections of Cabbage Tree Road and surrounding local roads.
- General road users, including passenger vehicles, motorcycles, cyclists and service vehicles.
- School bus services operate within the broader Williamtown and Port Stephens area and may utilise sections of the local road network used by quarry traffic.

- The locality supports a range of native fauna species which may be present on or adjacent to road corridors used by quarry traffic. Vehicle interactions with fauna have the potential to result in injury to wildlife and create road safety risks.

To minimise potential impacts on sensitive receivers and road users, Newcastle Sand implements traffic management measures including approved operating hours, vehicle movement restrictions, speed controls, implementation of the Driver Code of Conduct, complaint management procedures and ongoing monitoring of truck movements. Drivers and site personnel are required to exercise additional caution when travelling on the local road network and comply with the requirements of this Traffic Management Plan and the Driver Code of Conduct.

4. ROLES AND RESPONSIBILITIES

Roles used within this plan are defined below, responsibilities are shown in **Section 5** or otherwise defined below.

4.1 KEY CONTACTS

Key personnel responsible for the implementation of this Traffic Management Plan are identified in **Table 3**. **Table 4** outlines regulatory and emergency contacts.

Table 3: Key Site Contacts

Contact	Name
Quarry Manager	Eliott Laver
Website	www.newcastlesand.com.au
Community Enquiries and Complaints	Via the Newcastle Sand website contact form or nominated site contact

Table 4: Regulatory and Emergency Contacts

Organisation	Purpose	Contact
NSW EPA Environment Line	Pollution incidents and environmental emergencies	131 555
NSW EPA Newcastle Office	Regulatory enquiries	(02) 4908 6800
DCCEEW Regional Operations – Newcastle	Biodiversity and wildlife enquiries	(02) 4946 4100
WIRES Wildlife Rescue	Injured or orphaned native wildlife	1300 094 737
Noah's Ark Veterinary Service	Injured wildlife and domestic animals	(02) 4982 9899
Motto Farm Veterinary Hospital	Injured wildlife and domestic animals	(02) 4987 5087
Port Stephens Animal Refuge	Lost or captured domestic animals	0468 858 156
Emergency Services	Life threatening emergencies	000

4.2 QUARRY OWNER

The Quarry Owner is WSS who operate the quarry under the wholly owned subsidiary of Newcastle Sand. The Quarry Owner is responsible for the development and assignment of a suitably qualified Quarry Manager and to provide sufficient support to the Quarry Manager to undertake the required actions defined in this plan.

4.3 QUARRY MANAGER

The Quarry Manager is the person who manages the Quarry and is responsible for the day to day activities on the site. The Quarry Manager reports to the Quarry Owner. The Quarry Manager must read, understand and implement the practical application of this plan. All activities being undertaken on the quarry site are the responsibility of the Quarry Manager. The responsibilities of the Quarry Manager are defined by **Section 5.**

4.4 HAULAGE TRUCK DRIVER

Haulage truck drivers are not employed by Newcastle Sand. Newcastle Sand expect the Haulage Truck Driver to adhere to the Driver Code of Conduct and any other reasonable instruction while within the quarry.

5. MANAGEMENT CONTROLS & COMPLIANCE MONITORING

Traffic associated with Newcastle Sand is managed through a combination of operational controls, driver requirements, monitoring systems and compliance procedures designed to minimise impacts on local residents, road users and the surrounding environment. **Table 5** and **Table 6** describes the relevant traffic management actions and controls to be implemented for the Project. These controls are based on achieving the Development Consent Management Conditions in **Table 2**.

Table 5: Transport Management Metrics

Aspects	• Vehicle and truck travel to and from site. • Trucks entering and exiting the quarry.	**Impacts**	• Noise and traffic disturbance to adjacent residents. • Increased traffic congestion on Cabbage Tree and Tomago Road. • Public safety hazards from trucks entering and exiting the quarry. • Periodic death or injury of native animals crossing the transport route.
Objectives	• Minimise disturbance to surrounding residents and local road users. • Comply with Development Consent conditions. • Comply with Driver Code of Conduct.	**Targets**	• Zero fines or notices. • Zero complaints. • Zero HSE incidents.

Table 6: Transport Management Measures

Item	Action	Trigger/Timing	Responsibility	Reporting
5.1 GENERAL				
A	Quarry construction did not commence until this Transport Management Plan and Driver Code of Conduct was approved by DPHI and TfNSW	Prior to construction	Quarry Manager	Approval of this Plan by DPHI & consultation with TfNSW
B	The Driver Code of Conduct will be supplied to prospective customers and haulage operators at the time of booking and will be required to undertake a driver focused induction on the first visit to the site (refer to **Appendix 1** for the Code of Conduct).	At time of booking During Driver Induction	Quarry Manager	Induction records
5.2 OPERATIONS				
A	All access to the quarry is via the intersection with Cabbage Tree Road.	Ongoing	Quarry Manager	Nil
B	Masonite Road and Old Punt Roads are not to be used for the haulage of sand, except for deliveries to properties in the immediate vicinity of those roads. Adherence to approved haulage route is to be verified by the Quarry Manager or other designated personnel via random observations.	Ongoing	Quarry Manager	Nil
C	Signage is erected within the site at regular intervals of the following speed limits: • Outgoing traffic at 60 km/h between outgoing weighbridge and Cabbage Tree Road; • Incoming traffic at 40 km/h between Cabbage Tree Road and the incoming weighbridge; • Incoming traffic at 20km/h from the weighbridge to the processing plant / stockpiles.	Ongoing	Quarry Manager	Nil
D	The quarry intersection and associated acceleration and deceleration lanes have been sign posted as “No Stopping” zones to prohibit buses from pulling up in this zone.	Installed	Quarry Manager	Nil

Item	Action	Trigger/Timing	Responsibility	Reporting
E	Bus operators of the quarry are informed of intersection and associated acceleration sign posted "No Stopping" zones and provided with copy of this plan.	Installed on completion of construction	Quarry Manager	Nil
F	The quarry intersection and associated acceleration and deceleration lanes have the following signage installed: • "No Stopping Zones"; • Digital signage stating whether quarry is opened or closed to avoid truck entry and idling at entry if gate is closed; • Quarry approach and need to limit air breaking; • Speed limit signage for 40 km/h entering site before intersection; • Sign on gate: No truck parking permitted at gate. In the event of arriving prior to gate being open turn off vehicle immediately. Do not reverse with beepers onto Cabbage Tree Road and do not park on Cabbage Tree Road.	Installed on completion of construction	Quarry Manager	Nil
G	A fauna crossing sign installed adjacent to the access road prior to the weighbridge and within the quarry.	Installed	Quarry Manager	Nil
H	A specific Koala exclusion fence has been installed along the frontage of Cabbage Tree Road and extended into the quarry along the access road to the weighbridge to limit the potential for vehicle strikes. One-way fauna valves have been installed along the fence in the event Koalas (or other fauna) are trapped on the road side of the fence.	Fence installed prior to construction / Ongoing	Quarry Manager	Nil
I	Quarry personnel and Drivers are to announce koala sightings on UHF and stop vehicle until it moves off the road. Any injured animals are to be reported to the Quarry Manager and transported to the nearest veterinarian and details recorded as part of Incident Reporting procedure (See **Section 5.4**).	Fauna injury	Quarry Manager	Incident Notification
I	**Loading and dispatch of trucks:** • 6:00am to 6:00pm Monday to Friday, 7:00am to 4:00pm Saturday. • No loading or haulage on Sunday or public holidays. The following activities are permitted outside these hours: • Delivery or dispatch of materials as requested by the Police or other authorities; • Emergency work to avoid loss of lives or prevent environmental harm.	Ongoing	Quarry Manager	Nil

Item	Action	Trigger/Timing	Responsibility	Reporting
J	The following hourly truck movement limits apply: • Laden truck movements exiting the site do not exceed 6 per hour during the period from 6 am to 7 am, Monday to Friday; • Laden truck movements exiting the site do not exceed 10 per hour during the period from 7 am to 5 pm, Monday to Friday; • Laden truck movements exiting the site do not exceed 10 per hour during the period from 7 am to 4 pm, Saturdays; • No haulage on Sundays or Public Holidays.	Ongoing	Quarry Manager	Summary of results in AR
K	All trucks arriving prior to quarry opening hours (prior to 7:00am) are required to pre-book loading slots.	Ongoing	Quarry Manager	Nil
L	Trucks will not park on the verge of Cabbage Tree Road at any time prior to or during quarry opening hours.	Ongoing	Quarry Manager	Nil
M	Trucks departing the Quarry will where feasible be separated by a minimum of 5-minute intervals to avoid convoys.	Ongoing	Quarry Manager	Nil
N	Where feasible appropriate signage will be displayed on all trucks used to transport product from the quarry, so they can be easily identified by road users.	Ongoing	Quarry Manager	Nil
O	All trucks will be cleaned prior to leaving the site to ensure loose sand or dirt is removed from the vehicle body and wheels to reduce spillage onto internal and external roads.	Ongoing	Quarry Manager	Nil
P	Roadways are monitored regularly for dust, sand and dirt/mud build-up from loose loads and dirty vehicles and if required, a water truck will be employed.	Ongoing	Quarry Manager	Summary of results in AR
Q	Signage has been installed and will be maintained on Cabbage Tree Road, consistent with TfNSW requirements to advise of traffic entering the road from the quarry.	Installed on completion of construction	Quarry Manager	Signoff from TfNSW on road installation.
R	Using the Drivers Code of Conduct with Appendix 1, truck drivers are instructed to not use engine or compression braking systems in slowing to use the intersection of the quarry access road and Cabbage Tree Road.	Driver Induction	Quarry Manager	Driver Induction

Item	Action	Trigger/Timing	Responsibility	Reporting
5.3 MONITORING				
A	Newcastle Sand will engage a security guard to patrol the entrance area and verge between Masonite Road and Nelson Bay Road during the one hour period prior to quarry opening, two times per week for a minimum of 6 months from commencement of operations.	Twice weekly for first 6 months of operations AND following complaint regarding site access issues.	Quarry Manager	Security Guard Inspection Log
B	The Quarry Manager or delegate will undertake random driver checks to check: • Driver's knowledge of the Code of Conduct. • Completion of one-off driver induction. • Induction records record acknowledgement of the Code of Conduct.	Monthly	Quarry Manager	Summary of results in AR
C	Incoming trucks are weighed on entry to the site via a weighbridge at the site office complex and again on leaving the site where product weight and tickets are generated and recorded for each load. Records are kept for 12 months and include records of arrival time, dispatch time, weight of load and vehicle identification for each laden truck dispatched from site	Ongoing	Quarry Manager	Incoming and outgoing truck movements recorded.
D	Daily movements of trucks exiting the site will be reviewed by the Quarry Manager for compliance and records uploaded to the website monthly.	Monthly	Quarry Manager	Uploaded to the Project Website
E	CCTV system was installed on the outgoing weighbridge to provide compliance assessment of haulage numbers. The CCTV system records both haulage number and direction of travel, with the CCTV system's field of view restricted to subject land. CCTV cameras securely store recordings for a minimum of 30 days and made available to DPHI upon request.	Ongoing	Quarry Manager	Haulage numbers and tonnage transported published within AR
F	Review CCTV footage to ensure operability of CCTV and adequacy of cleaning practices to reduce loose sand entering Cabbage Tree Road. Review and improve practices as required.	Monthly	Quarry Manager	Summary in AR.
G	The Annual Review includes a report on project related vehicle incidents, including details of all fauna injured or killed by project vehicles, time and date of any such fauna incident, action taken and consequent measures put in place to prevent or minimise recurrence.	Ongoing	Quarry Manager	Summary in AR.

Item	Action	Trigger/Timing	Responsibility	Reporting
5.4	**PROJECT NON-COMPLIANCE AND INCIDENT**			
A	Drivers must report all fauna strikes to Newcastle Sand immediately and enact the procedure detailed in section 13 of the Drivers Code of Conduct. Newcastle Sand will provide a report in each Annual Review which includes details of all fauna injured or killed by development-related vehicles, time and date of any such fauna strike, species involved, action taken following the strike and any consequent measures put in place to prevent or minimise a recurrence.	fauna injury	Quarry Manager	Notification to DPHI.
B	Traffic monitoring results are assessed for compliance against the Drivers Code of Conduct. Failure to comply with any part of the Driver Code of Conduct is considered a project non-compliance. Failure to comply with any aspect of the development consent is considered a non-compliance.	Following non-compliance with Drivers Code of Conduct	Quarry Manager	Notification to DPHI.
C	**Non-Compliance Notification** Within 7 days of becoming aware of a non-compliance, Newcastle Sand must notify the Department of the non compliance. The notification must be in writing and must be submitted via the NSW planning portal (Major Projects). The notification must identify the development (including the development application number and name), set out the condition of this consent that the development is non-compliant with, why it does not comply, the reasons for the non-compliance (if known), and what actions have been undertaken, or will be undertaken, and when, to address the non-compliance. Note: A non-compliance which has been notified as an incident does not need to also be notified as a non-compliance.	Non-Compliance identified	Quarry Manager	Notification to DPHI
D	A summary of any non-compliances or incidents and their associated corrective actions will be provided in the Annual Review.	Ongoing	Quarry Manager	Summary in AR.

E	An **Incident** is defined in the consent as: *"A set of circumstances that:* *• causes or threatens to cause material harm to the environment; and/or* *• breaches or exceeds the limits or performance measures/criteria in this consent"* In the event of an incident: • Immediately stop or isolate the activity causing the incident where practicable. • Implement appropriate controls to minimise environmental harm and ensure the area is safe. • Where possible contain pollutants that may have been released during the event. • Site management is to be notified immediately following the identification of the incident. Newcastle Sand **must notify the Department and any relevant authorities within 24 hours** of becoming aware of an incident. The notification to DPHI must be made via the NSW planning portal (Major Projects) and address details of the incident including: (a) date, time and location; (b)a brief description of what occurred and why it has been classified as an incident; (c) a description of what immediate steps were taken in relation to the incident; and (d) identifying a contact person for further communication regarding the incident. And complete an **Incident Report** within 7 days (or as otherwise agreed by the Planning Secretary) of the Applicant making the incident notification (in accordance with condition 8, Schedule 4 of the consent), the Applicant is required to submit a subsequent incident report that: (a) identifies how the incident was detected;	Incident	Quarry Manager	Notification and Report to DPHI and relevant authorities.

Item	Action	Trigger/Timing	Responsibility	Reporting
	(b) identifies when the Applicant became aware of the incident; (c) identifies any actual or potential non-compliance with conditions of consent; (d) identifies further action(s) that will be taken in relation to the incident; and (e) a summary of the incident; (f) outcomes of an incident investigation, including identification of the cause of the incident; (g) details of the corrective and preventative actions that have been, or will be, implemented to address the incident and prevent recurrence, including the period for implementing any corrective and/or preventative actions; and (h) details of any communication with other relevant stakeholders regarding the incident. Newcastle Sand will submit any further reports as directed by the Planning Secretary			
5.5 COMPLIANCE EVALUATION				
A	Monthly internal inspections.	Monthly	Quarry Manager	Nil
B	Three-yearly Independent Environmental Audits as per Section 6.3 of the project EMP.	Three-yearly	Quarry Manager	Audit Report
5.6 COMPLAINTS				
A	The Quarry Manager mobile (0402 648 079) is the dedicated contact phone number established for the life of the Project.	Ongoing	Quarry Manager	Available on website
B	Feedback, enquiries and complaints received will be recorded in a consultation register maintained throughout the life of the Project.	Ongoing	Quarry Manager	Available on website

Item	Action	Trigger/Timing	Responsibility	Reporting
C	Complaints recorded in the consultation register will include date and time complaint was made, name and contact details of complainant, nature of complaint, WSS response and commitments to follow-up by whom and when will be detailed.	Ongoing	Quarry Manager	Available on website. Summary included in AR Consultation Register
D	The following procedure will be followed whenever a complaint is received: 1. Liaison with the complainant to ascertain all details and to identify the nature and source of the complaint. Details recorded in the consultation register as per Item C above. 2. If applicable, undertake monitoring or other investigations to verify or otherwise the exceedance or non-compliance with approval or consent condition(s). 3. If applicable, initiate changes in operating practices or procedures. 4. Provide complainant with details of investigations and/or actions taken in response to complaint. 5. Conduct a follow-up interview with complainant to determine their level of satisfaction with the response and the resultant outcome. 6. All investigations and communications recorded in consultation register.	Ongoing	Quarry Manager	Summary included in AR Consultation Register
E	In the event a landowner does not consider their complaint has been resolved, the following dispute resolution process will be adopted: • Meeting with landowner and Quarry Manager to determine agreed outcome. • If dispute not resolved, landowner may initiate an Independent Review process through DPHI to reach an agreed outcome. • If dispute not resolved, DPHI will consult independent facilitator to make final decision.	Ongoing	Quarry Manager	Summary included in AR Consultation Register

Item	Action	Trigger/Timing	Responsibility	Reporting
5.7 CORRECTIVE ACTIONS				
A	**Corrective Actions** Where monitoring or landowner complaints suggest the project is non-compliant, Newcastle Sand will undertake the following sequence of investigations and controls: • Review the details of the non-compliance including operational activities at the time and the nature of the reported damage. • If due to equipment failure or failure to follow operational procedures, undertake corrective actions to prevent recurrence. • If incident is not as a result of failure, review and refine procedures. • If operational practices cannot be improved, consult with relevant stakeholders to discuss potential mitigation measures, this may include: o Increased signage on public roads. o Increased monitoring of driver behaviour. o Amendment to the code of conduct. If a non-compliance has occurred, additional monitoring will be undertaken within one week following implementation of relevant additional management controls listed above.	Following non-compliance	Quarry Manager	Summary in AR

Item	Action	Trigger/Timing	Responsibility	Reporting
5.8	**CONTINUOUS IMPROVEMENT**			
A	**Continuous Improvement** All transport management controls will be reviewed and if necessary, revised to confirm their applicability on an ongoing basis throughout the life of the Project. All controls in this plan will be reviewed and if necessary, revised to confirm their applicability on an ongoing basis throughout the life of the Project and ensure continual improvement of management practices. In addition the following circumstances will require review of this plan: • Internal monthly compliance inspections. • Non-compliance with criteria. • Annual review. • Modifications of the Consent • Audit Report.	Annually at minimum	Quarry Manager	Summary in AR

6. REPORTING

Newcastle Sand maintains records relating to traffic management activities to demonstrate compliance with Development Consent SSD-6125 and the requirements of this Traffic Management Plan. The following items associated with this plan will be reported and/or recorded during the project.

Table 7: Reporting Requirements

Item	Report	Trigger	Responsibility	Reporting Authority
A	Driver Code of Conduct monitoring	Following monthly monitoring	Quarry Manager	Summary of results in AR
B	Weighbridge records	Ongoing	Quarry Manager	Compliance status uploaded to website monthly. Internal logs of traffic records compiled monthly. Summary of results in AR.
C	Induction Records include driver acknowledgement of the need to adhere to the Code of Conduct[1].	Ongoing for each new truck driver	Quarry Manager	Nil
D	Incident Notification	Following identification of incident	Quarry Manager	Notification to DPHI in 24 hours, Incident Report to be provided in 7 days (or as agreed with DPHI) (**See Section 5.4**)
E	Non-Compliance and Corrective Action Report	Following identification of a non-compliance	Quarry Manager	Notification to DPHI within 7 days of becoming aware of a non-compliance. (**See Section 5.4**)
F	Monthly Inspections	Following monthly internal inspections	Quarry Manager	Internal
G	Three-yearly Independent Environmental Audits	Following three-yearly independent audit	Quarry Manager	DPHI
H	Annual Review AR to include: • Summary of all transport monitoring results and management actions	Annually at time agreed with DPHI	Quarry Manager	DPHI

Item	Report	Trigger	Responsibility	Reporting Authority
	undertaken in the 12-month period; • Summary of any transport incidents or non-compliances recorded in the 12-month period; • Summary of any transport-related complaints recorded in the 12-month period; • Summary of corrective actions and improvements to reduce transport impacts. AR will be uploaded to Project website within two weeks of report being issued.			
I	Security Guard Inspection Log	Following complaint regarding site access issues. (for first 6 months of operations this was twice per week)	Quarry Manager	Internal – records retained of response actions.

[1] Truck drivers were initially required to sign a separate Driver Declaration form that was appended to this TMP, Version 7 and later of this plan integrated this declaration with the induction process to streamline record keeping.

7. REVIEW AND CONTINUOUS IMPROVEMENT

This Traffic Management Plan will be reviewed periodically to ensure it remains effective, relevant and consistent with the requirements of Development Consent SSD-6125, applicable legislation and operational activities undertaken at Newcastle Sand. Newcastle Sand is committed to the continual improvement of traffic management performance and minimising impacts on local residents, road users and the surrounding environment. Where opportunities for improvement are identified, corrective actions will be implemented where appropriate and this Plan updated where necessary.

APPENDIX 1: DRIVER CODE OF CONDUCT

The purpose of this Driver Code of Conduct is to ensure that all drivers accessing Newcastle Sand operate their vehicles safely, responsibly and in a manner that minimises impacts on local residents, road users and the surrounding environment. This Code applies to all employees, contractors, customers and transport operators entering or exiting the site.

1. KEY RISKS

All drivers are to be aware of the key issues in accessing the site:

- Private dwellings are near the quarry and vehicle are to avoid generating excessive noise.
- Koala and other native fauna may be present in the area, drivers will take caution at dawn and dusk and notify quarry manager where observed or injured.
- Vehicles stopping and school buses whereby vehicles may stop with limited warning stop to access private dwellings off Cabbage Tree Road. Drivers to take caution and leave adequate space.
- Adhere to speed limits.
- No stopping as the gates open 6 am sharp on weekdays and 7 am Saturdays. Do not arrive until opening time.
- Do not park in Cabbage Tree Road or the quarry driveway or idle at the quarry gates.
- No convoys leaving site.
- Haulage rates are strictly limited (6 before 7 am, 10 per hour from 7am to 6 pm). Drivers to book slots early or contact quarry before entry.
- All loads must be covered prior to leaving site.

2. GENERAL REQUIREMENTS

All truck drivers must:

- Contact the quarry prior to arriving to ensure site access and haulage is available at the expected time. At the time of booking, a copy of this code of conduct will be supplied.
- Undertake a site induction on the first trip into the quarry prior to transporting any quarry material.
- Hold a valid driver's licence for the class of vehicle that they operate.
- Operate and maintain the vehicles consistent with manufacturer standard.
- Operate the vehicle in a safe manner within and external to the Quarry site.
- Use seat belts when driving or when a passenger in the vehicle.

- Drive to the sign posted speed limit, both on the public roads and within the quarry.
- Comply with the direction of authorised site personnel when within the site.

3. OPERATING HOURS

The quarry is limited to the following hours for Loading and dispatch of trucks:

- Laden truck movements exiting the site do not exceed 6 per hour during the period from 6 am to 7 am, Monday to Friday.
- Laden truck movements exiting the site do not exceed 10 per hour during the period from 7 am to 6 pm, Monday to Friday.
- Laden truck movements exiting the site do not exceed 10 per hour during the period from 7 am to 4 pm, Saturdays.

Note: In this condition, “per hour” means within any period of 60 minutes following the change of hour.

At no time are trucks permitted to park or stop (excepting an emergency) on the verge adjacent to the quarry or within the quarry deceleration lanes or driveway. Drivers are encouraged to delay site entry until the quarry is open. No parking or idling at gate is permitted. Temporary parking, that is clear of dwellings, may be suitable, subject to road rules over 5 km to the east (toward Hexham) or 4 km to east (at service station). Site staff will patrol the road to ensure drivers adhere to this rule.

Failure to follow and abide by these operating conditions will result in the individual driver breaching the conditions being banned from site for 24 hours AND that driver will be asked to leave site empty after 7am.

The following activities are permitted outside these hours:

- Delivery or dispatch of materials as requested by the Police or other authorities.
- Emergency work to avoid loss of lives or prevent environmental harm.

4. TRUCK MOVEMENT LIMITS

The following truck movement limits apply to the quarry as per Condition 22 of the SSD 6125:

- Laden truck movements exiting the site do not exceed 6 per hour during the period from 6 am to 7 am, Monday to Friday.
- Laden truck movements exiting the site do not exceed 10 per hour during the period from 7 am to 6 pm, Monday to Friday.
- Laden truck movements exiting the site do not exceed 10 per hour during the period from 7 am to 4 pm, Saturdays.

Note: In this condition, “per hour” means within any period of 60 minutes following the change of hour.

Truck movements from the quarry are regulated as follows:

- A traffic light installed on the outgoing weighbridge informs truck drivers when the weighbridge is open.
- A red light will inform drivers that no trucks are to enter the weighbridge.
- The traffic light system integrated with the ticketing and invoicing system regulates the maximum hourly traffic limits and annual extraction limits. A truck that does not pass through the weigh bridge system cannot be weighed or invoiced.
- CCTV is installed near the weighbridge to monitor the time and direction of travel of vehicles as they enter and leave the quarry for auditing of truck movements as needed.

5. HAULAGE ROUTE

- Access from the northern side of Cabbage Tree Road, Williamtown, via the left in / left out intersection inclusive of deceleration and acceleration lanes.
- Vehicles travelling west from the quarry are required to travel on Cabbage Tree Road to the Nelson Bay, Cabbage Tree Road roundabout and return on Cabbage Tree Road.
- Transport operators are to utilise approved arterial and regional road networks in preference to local roads wherever practicable, unless an alternative route is required for safety, access, road closures, traffic conditions or delivery requirements.
- Masonite and Old Punt Road, Tomago, are not to be used for the haulage of sand, except for deliveries to properties in the immediate vicinity of those roads.

6. SPEED LIMITS

The following speed restrictions apply for vehicles entering and exiting the quarry:

- Outgoing traffic at 60 km/h between outgoing weighbridge and Cabbage Tree Road.
- Incoming traffic at 40 km/h between Cabbage Tree Road and the incoming weighbridge.
- Incoming traffic at 20km/h from the weighbridge to the processing plant / stockpiles.

Drivers are to observe posted speed limits with speed adjusted appropriately to suit road and weather conditions.

7. TRUCK ARRIVAL & DEPARTURE

No customers or transport contractors to arrive prior to 06:00am Monday to Friday.

Trucks arriving prior to quarry opening hours (prior to 7:00am) are required to pre-book loading slots due to the high demand for these timeslots. Any unexpected truck turning up on site will have to wait onsite (with vehicle turned off) prior to exiting the site in the allocated slots. Drivers will use UHF radio contact to Quarry Manager for enquiries prior approach to the quarry.

Trucks departing the Quarry should be separated by a minimum of 5-minute intervals. This will be controlled as far as practicable by the loader operator however it is important for all drivers to be aware of the requirement to avoid convoys leaving the quarry, particularly during peak periods.

8. SCHOOL BUS TIMES AND PEAK HOUR

Safety of the public and quarry staff is paramount, as such avoiding peak hour periods and school bus services where possible is encouraged. School bus services run along Tomago Road and Cabbage Tree Road with bus stop locations varying depending on the residential address of the children using the bus on any given day. Buses stop within the existing road shoulder at the discretion of the bus driver.

- The hours of school bus operation are approximately between 7:30 am and 9:00 am and 3:30 pm and 5:00 pm.
- Traffic progressively increases and tapers from the peak hour periods that occur between 7am to 8am in the morning and 3pm to 4pm in the afternoon.

Truck drivers to be aware of possible school bus movements in these periods, and to decelerate if they see a school bus stopped beside the road. The quarry intersection and associated acceleration and deceleration lanes are sign posted as “No Stopping” zones to prohibit buses from pulling up in this zone.

9. SIGNAGE

The quarry intersection and associated acceleration and deceleration lanes include the following signage:

- “No Stopping Zones”.
- Digital signage stating whether quarry is opened or closed to avoid truck entry and idling at entry if gate is closed.
- Quarry approach and need to limit air braking.
- 40 km/h sign entering site before intersection.
- Sign on gate stating ‘No truck parking permitted at gate’.
- **Drivers to turn off vehicle immediately if arriving early.**
- Do not reverse with beepers or park on Cabbage Tree Road.

10. COMPRESSION BRAKING

No compression braking to be used in accessing the quarry or whilst onsite (safety and/or emergency scenarios excepted).

Due to the proximity of residential homes in Cabbage Tree Road, drivers are requested to limit truck noise in this area as much as possible.

11. NOISE MINIMISATION

The following measures will be implemented to reduce noise impacts:

- Adherence to the approved operating hours of the Quarry as specified in the Development Consent, outlined in Section II of this Code of Conduct.
- Avoid compression braking when accessing the quarry, with the exception of emergency.

- When parked or waiting, vehicles are turned off to eliminate unnecessary engine idle noise.

12. LOAD COVERING & CLEANING

- All loaded trucks departing the quarry are required to have an adequate cover over their load for the duration of the trip.
- The load cover may be removed upon arrival at the delivery site.
- **Loaded vehicles are to leave site covered.**
- Additionally, **all trucks will be cleaned** prior to leaving the site to ensure loose sand or dirt is removed from the vehicle body and wheels to reduce spillage onto internal and external roads.
- Drivers must ensure that following tipping that the **tailgate is locked** before leaving the site.
- Roadways will be monitored regularly for dust, sand and dirt/mud build-up from loose loads and dirty vehicles.
- Cabbage Tree Road is swept periodically by Newcastle Sand. **Drivers are to notify the Quarry Manager if they notice a sand build up on public roads adjoining site.**

13. KOALA AND NATIVE FAUNA PROTECTION

The potential for fauna strike, including Koala's, is a realistic hazard on both the roads within the quarry and along Cabbage Tree Road. The fence located along the frontage to Cabbage Tree Road and quarry access is intended to limit the potential for vehicle strikes.

To further protect Koalas and other fauna the following is implemented:

- Adhere to the maximum speed limit within the quarry and on external roads.
- Any sighting of a koala to be announced on Quarry UHF Channel 28 and Quarry Manager notified.
- If a koala is on the road then stop your vehicle until it has moved off the road and/or encourage it to move back to vegetated areas.
- Wildlife signage at the quarry entry.

The protocol for caring for injured fauna includes:

- If an animal is injured through vehicle strike, then assistance is to be rendered & the animal transported to a vet for treatment.
- Report to Quarry Manager, who will arrange for suitable wildlife care or veterinary treatment.
- Contact details for WIRES wildlife rescue and local veterinarians are listed in **Section 4.1**.

14. OTHER SAFETY HAZARDS

Other hazards drivers should be aware of include:

- Concealed driveways and access to private properties on Cabbage Tree Road.
- Drivers are to drive with caution on Cabbage Tree Road, and be aware of vehicles turning to access properties.
- Drivers should adjust their driving speed to suit prevailing wet weather conditions.
- Comply with Fatigue Management requirements.

15. BREACHES OF CODE OF CONDUCT

Where a driver is determined to breach this Code of Conduct:

- An initial warning will be provided and recorded.
- Repeated breaches of the Code of Conduct by an individual, will result in the suspension of access to the site for minimum of one month, and requirement to recomplete the site induction.
- Serious or repeated breaches after suspension will result in the suspension of drivers for 12 months or permanently at the discretion of Newcastle Sand.

16. DRIVER UPDATES

Where Newcastle Sand becomes aware of changed traffic conditions that have the potential to affect haulage activities, an update will be provided to the haulage company at time of booking. Frequent haulage operators will also typically be aware of the changes to traffic conditions.

17. CONTACTS AND COMMUNICATION

All drivers are to use the following contacts:

Table 8: Drivers Key Contacts

Purpose	Contact
Emergency Services	000
Site Access, Bookings and Operational Enquiries	Quarry Manager UHF Channel 28 Mobile: 0402 648 079.
Traffic Incidents or Hazards	
Fauna Strike or Injured Wildlife	
Site Communications (where applicable)	

APPENDIX 2: AGENCY CONSULTATION

Correspondence	Comment	Response
Letter sent to TfNSW on 20 December 2018	• Response received on 10 April 2019. Only requested amendment was that signage is installed on Cabbage Tree Road advising of trucks entering.	• Newcastle Sand has developed the detailed plans for the construction of the intersection in consultation with theTfNSW, this includes the signage for Cabbage Tree Road.
Letter sent to PSC on 20 December 2018	• Minor amendments to phrasing requested to avoid reader confusion. • Sought clarification towards prohibition of vehicles using Williamtown Drive (questioning whether Newcastle Sand were referring to Medowie Road).	• Requested amendments to phrasing applied. • Reference to Williamtown Drive removed from the plan – originally included due to inclusion in conditions of consent (potential error in consent – Williamtown Drive provides no thoroughfare to the Cabbage Tree Quarry that may be useful for quarry deliveries and site personnel).
Email from DPHI regarding amendment of draft TMP on 18 March 2019	1. Page 2, second paragraph and Key Risks section of Appendix 1. – reference is made to trucks not being allowed to park or stop in the driveway to the quarry gates. From page 39 of the Assessment Report, mention is made that there would be room for 3 trucks to park on the entry drive to the quarry. Elsewhere in the TMP it seems to indicate that trucks may be able to park on the entry road if the gate is closed. Strictly there is to be no parking of trucks on the verge of Cabbage Tree Road in the vicinity of the quarry. Please check that the TMP is consistent with the information upon which the consent is based.	• Agree that no parking is permitted in Cabbage Tree Road or the driveway / entrance to the Quarry. However, have kept driver instructions regarding arrival at the gate prior to opening in the event this occurs. • Amended truck parking references throughout document to clarify - Table 2 Appendix 2(b)(d), Table 5 Section 5.2(f) and Appendix 1 (Items 1, 2, 7 and 9).

Correspondence	Comment	Response
	2. Page 3. Table 2 . I do not understand the references to Williamtown Drive. I cannot find any reference to this road in the conditions of consent. The roads not to be used except for local deliveries are Masonite road and Old Punt Road.	• Williamtown Drive comment is listed the Development Consent Conditions (Schedule 3, Item 25c, bullet point 7) and is a typing error.
	3. Page 15, Item F, last dot point – Typo – no hyphen in "sign-on gate"	• Removed all references to this point in TMP (refer Q1 response above).
	4. Page 5 of Appendix 1, first sentence. It would be helpful if information about who and how to contact animal care were to be included in this section to assist the Quarry Manager. Such information could include the contact details for a local vet, the Koala Preservation Society or WIRES.	• Information added to Appendix 1 (Item 13) and Section 4.1 *Key Contacts*
Version 7 21 February 2021 Amended version provided to DPHI for review	- Minor corrections required to acronym. - Additional text regarding Cabbage Tree Road speed limit. - Management control relating to air braking to be included in controls as well as Code of Conduct. - Update references in Table 2.	• Corrections made.
Version 7 5 March 2021 Amended version provided to DPHI for review	- Section 1.3 – replace the work 'should' with 'will' - 'bulk bags' – check possible typographical error - Appendix 2 – if this is no longer required, please include as a line within the document as to how this is now addressed rather than having a separate appendix - Potentially remove the term 'you' where referencing drivers and/or rephrase. - As the changes between provided v7 (15 Feb 2021) and v8 (05 March 2021), we would consider that the version is still v7, with a revised date. Please could you upload the revised v7_20210305 to PSIMS (Major Projects) website, and I can progress the review.	Corrections made. • Bulk bag used in preference to more trade marked term "bulka" bag. • Appendix 2 deleted, foot note in reporting included, and reference to declarations in actions updated. • Added Complaint procedure in full. • Added website address to contacts table. • Adjusted wording from you to driver. • Changed to v7 dated 10 March.

Correspondence	Comment	Response
Version 8 Submitted to DPHI for Review.	Uploaded to Major Projects Portal on the 23 September 2026 after providing to the TfNSW and PSC for seven days. TfNSW did not have any comments on Version 8, and no response from PSC.	To be updated on the response of DPHI