

Proposed Alterations and Additions of an Existing Tyre Recycling Facility 30 Daisy Street, Revesby

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1. INTRODUCTION

TRAFFIX has been commissioned by JEP Environmental and Planning Pty Ltd to undertake a traffic impact assessment (TIA) in support of a development application (DA) for alterations and additions of an existing tyre recycling facility at 30 Daisy Street, Revesby. The development is located within the Canterbury Bankstown Council Local Government area (LGA) and has been assessed under that Council's controls.

The report is structured as follows:

- Section 2: Describes the site and its location.
- Section 3: Documents existing traffic conditions.
- Section 4: Describes the proposed development.
- Section 5: Assesses the parking requirements.
- Section 6: Assesses traffic impacts.
- Section 7: Discusses access and internal design aspects.
- Section 8: Presents the overall study conclusions.



2. PROPOSAL DESCRIPTION

TRAFFIX has been advised as follows:

"BSV Tyre Recycling Australia Pty Ltd operates an EPA licenced resource recovery facility for used tyres at 30 Daisy Street, Revesby NSW (EPL 20387). The company is accredited by Tyre Stewardship Australia (TSA), the peak industry body established to ensure the sustainable management of used tyres in Australia.

The site contains a single storey industrial building with associated mezzanine office level. The factory environment within this building is used for tyre shredding and crumbing with mechanical plant and equipment. A weighbridge is located on the southern boundary of the site. A large outdoor covered area at the rear eastern side of the site is used for tyre storage, baling and containerisation. The lot has a total area of approximately 4,000m2.

BSV has development consent under DA843/2013 for the receipt, processing and production of various tyre derived products from used car and truck tyres received. The site has historically relied on the baling and export of used tyres. In 2019, the Council of Australian Governments (COAG) agreed to ban the export of a range of waste types including whole tyres (except truck, bus and aviation tyres being exported for re-treading), which commenced on 1 December 2021. Since this date, the facility has focused on crumb rubber production for use in asphalt making and sustainable children playground surfaces, and the production of a tyre chip which is exported as a coal replacement (referred to as a Tyre Derived Fuel or TDF).

Over the past two years, export markets have been growing rapidly for TDF, as countries look for fossil fuel replacements to support the energy transition and reduce greenhouse gas emissions. The use of TDF as a coal replacement can assist industries like the cement and steel industry lower their emissions. At the same time, demand for crumb rubber domestically has been very low. As a consequence, the company has been directing all tyres into TDF for export as a fuel replacement.

As a consequence, BSV Tyre Recycling Australia Pty Ltd is seeking approval for alterations and additions to its development consent to increase the production of TDF. The Proposal will increase the receival limit of tyres from 14,600 tonnes per year to 29,900 tonnes per year, whilst retaining the ability to manufacture rubber crumb when demand is displayed by the domestic market. Crumb rubber production capability will remain as approved in the shed under DA843/2013.



The proposal includes the following components:

- Decommissioning of the tyre baling machines located under the rear awning of the site;
- Amending location of existing shipping containers for storage of rubber products (whole tyres and TDF);
- Installation of two mobile diesel shredding units to increase the production of TDF on the rear hardstand of the site, to be located under the rear awning with local exhaust ventilation;
- Establishment of a dedicated area for tyre unloading and temporary storage prior to processing;
- Installation of a pre-cast concrete panel wall along the southern boundary of the site to improve fire safety and noise attenuation;
- Replace the single head fire hydrants with dual fire hydrants near the tyre storage area, including provision of fire extinguishers, fire hose reels and provision for at least 108m³ of fire water containment bunding;
- Installation of a new firewater isolation valve to the north-eastern side of the site; and
- Inclusion of a dedicated bicycle space.

No change in operating hours is proposed, and will remail as 6am to 11pm on weekdays, 8 am to 5pm on Saturdays and 9am to 4pm on Sundays as per DA843/2013. Two (2) additional staff members will be employed, bringing the total staff from fifteen (15) to seventeen (17). Also, a maximum of nine (9) staff members will be on-site at any given time which ensures compliance with available parking spaces. Two (2) recycling shifts will occur on a Monday to Friday (6am to 3pm and 3pm to 11pm), and one (1) shift on Saturdays and Sundays.

Tyres will be transported to the facility in medium rigid vehicles (MRVs) and in forty cubic foot shipping containers transported by side loading semi-trailers. All vehicles will enter the site in a forward direction over the weighbridge on the southern side of the site, and will exit in the forward direction over the weighbridge and out of the site. All product hauled off-site will be containerised in forty cubic foot shipping containers for transport via semi-trailers to Port Botany for export.

The alterations and additions to the existing tyre recycling facility will help improve operational efficiency, reduce the need for tyre stockpiling outside and will help the facility to better support the tyre recycling needs on the Sydney Metropolitan Area. The Proposal is compliant



with the requirements of NSW Fire & Rescue (2014) Fire Safety Guideline – Guideline for Bulk Storage of Rubber Tyres¹.

Additional tyre recycling infrastructure is identified as a need under the NSW Waste and Sustainable Materials Strategy – A Guide to Future Infrastructure Needs². By 2030, the shortfall in infrastructure capacity of tyre recycling is projected to increase to 100,000 tonnes of tyres per annum. Deployment of additional infrastructure such as that outlined in this Proposal is critical to ensure that tyres continue to be managed in a sustainable manner at the end of life in Sydney."



3. LOCATION AND SITE

The subject site is located at 30 Daisy Street, Revesby (Lot 198, DP 7866) and is located on the eastern side of Daisy Street, approximately 65.0 metres north of the intersection of Gordon Parker Street and Daisy Street in a local context. It is located approximately 1.6 kilometres north of Revesby Railway Station and 20.0 kilometres southwest of the Sydney Central Business District (CBD) in a regional context.

The site is rectangular in configuration and has a total site area of 4,043 m². The existing site currently operates as a tyre recycling facility. It has a western frontage of 34 metres to Daisy Street. The site is bounded by neighbouring industrial developments to the north, south, and east.

Vehicular access to the site is currently provided via Daisy Street.

A Location Plan is presented in Figure 1, with a Site Plan presented in Figure 2.

Reference should also be made to the photographic record presented in **Appendix A** which provides an appreciation of the surrounding road network and key intersection in the vicinity of the subject site.

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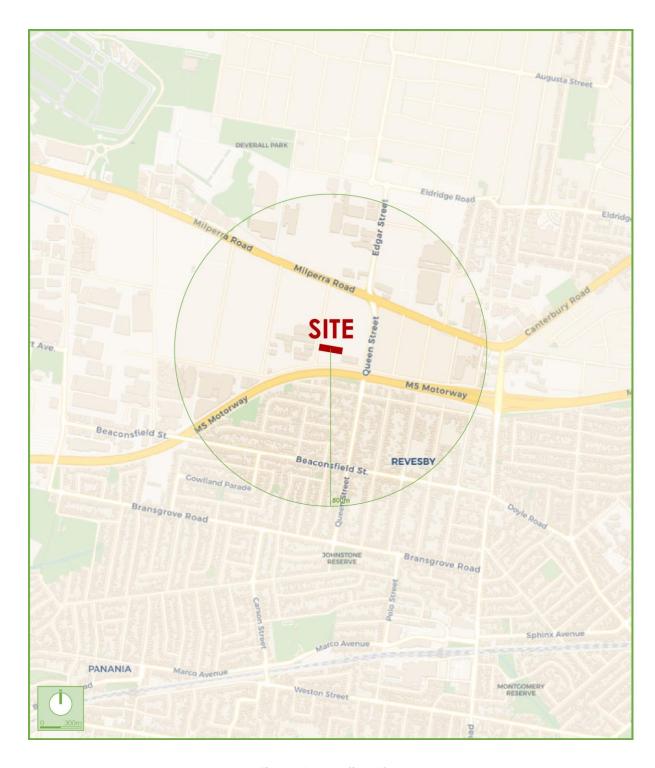


Figure 1: Location Plan

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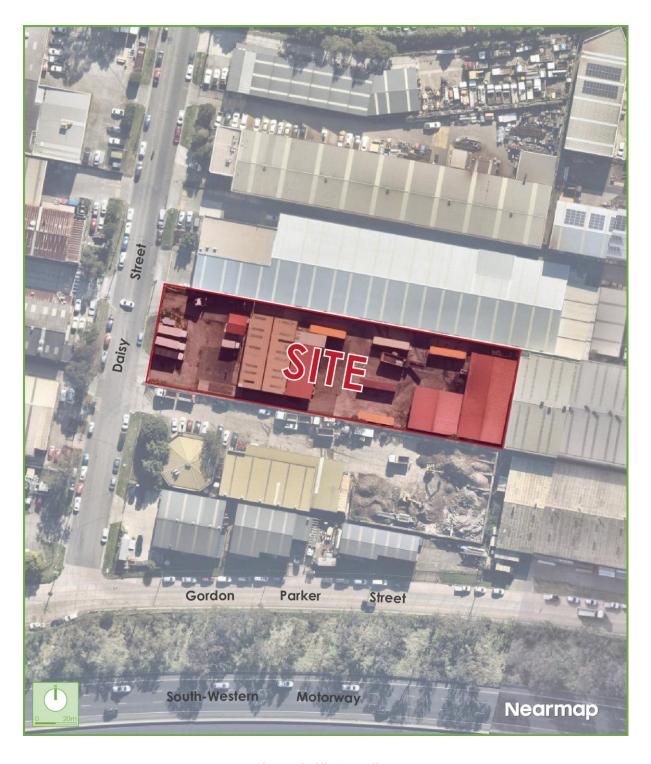


Figure 2: Site Location



4. EXISTING TRAFFIC CONDITIONS

4.1 Road Network

The road hierarchy in the vicinity of the site is shown in **Figure 3** with the following roads of particular interest:

M5 Motorway:

a TfNSW Motorway (MR6005) and TfNSW approved 26.0m B-double truck route that traverses east-west between General Holmes Drive in the east and the Hume Motorway in the west. Within the vicinity of the site, it is subject to 100 km/h speed zoning and accommodates three (3) lanes of traffic in each direction within a divided carriageway. Parking is not permitted along the M5 motorway.

Milperra Road:

a TfNSW Main Road (MR 167) and TfNSW approved 26.0m B-double truck route that traverses in an east-west direction between Canterbury Road in the east and Newbridge Road in the west. Within the vicinity of the site, it is subject to 70km/h speed zoning and accommodates three (3) lanes of traffic in each direction. Milperra Road does not permit any form of onstreet parking.

Queen Street:

a local road and TfNSW approved 26.0m B-double truck route that traverses north-south between Milperra Road in the north and Horsley Road in the south. It accommodates 1-2 lanes in each direction within an undivided carriageway and is subject to 60km/h speed zoning. Parking is not permitted along either side of Queen Street.

Gordon Parker Street:

a local road TfNSW approved 26.0m B-double truck route that traverses east-west between Victoria Street in the east and Violet Street in the west. It accommodates two-way traffic flow within an undivided carriageway and is subject to 50km/h speed zoning in the vicinity of the subject site. Kerbside parking is provided along the southern side of Gordon Parker Street and parking is not permitted along its northern side.

Daisy Street:

a local road that traverses north-south between Milperra Road in the north and Gordon Parker Street in the south. Daisy Street



accommodates two-way traffic flow and is subject to 50km/h speed zoning. Unrestricted parking is generally permitted along both sides of Daisy Street.

It can be seen from the road hierarchy presented in **Figure 3** below that the subject site is conveniently located with access to Milperra Road and the wider road network.



Figure 3: Road Hierarchy



4.2 Public Transport

The existing bus services that operate in the locality are shown in **Figure 4**. It is evident that the development benefits from good bus services with bus stops within 400m of the site, specifically along Milperra Road and Queen Street.

- 925 East Hills to Lidcombe
- M90 Burwood to Liverpool

These bus services provide a frequent and sustainable mode of transport for staff travelling to and from the subject site.

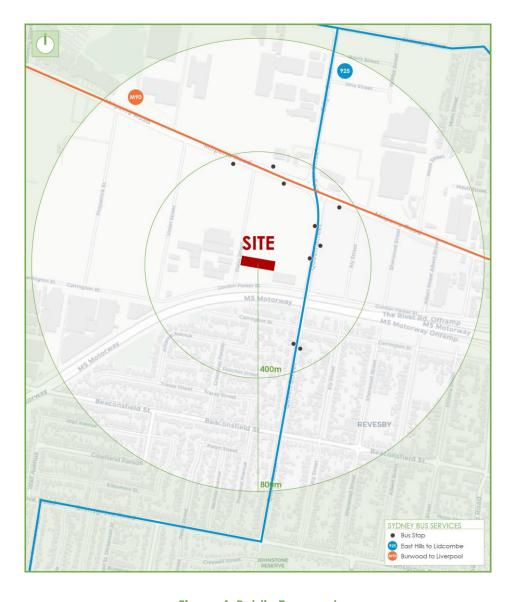


Figure 4: Public Transport



4.3 Key Intersections

The key intersections in the vicinity of the subject site are summarised as follows:

- Milperra Road / Queen Street / Edgar Street
- Queen Street / Gordon Parker Street

The key features of the above intersections are summarised below.

4.3.1 Milperra Road / Queen Street / Edgar Street



Figure 5. Intersection of Milperra Road and Queen Street and Edgar Street

As shown in **Figure 5** the intersection of Milperra Road / Queen Street / Edgar Street is a major signalised intersection. The main attributes of each approach are summarised below:

Milperra Road

• The western approach provides three (3) eastbound through traffic lanes, one (1) dedicated right-turn lane onto Queen Street, and one (1) priority-controlled left turn slip lane onto Edgar Street, southbound. A dedicated 'Bus Only' lane is provided past the priority-controlled left turn slip lane.



• The eastern approach provides three (3) westbound through traffic lanes, one (1) dedicated right-turn lane onto Edgar Street northbound, and one (1) priority-controlled left turn slip lane onto Edgar Street, southbound.

Queen Street

• The southern approach provides two (2) northbound through traffic lanes, one (1) dedicated right-turn lane onto Milperra Road eastbound, and one (1) priority-controlled left turn slip lane onto Milperra Road, westbound.

Edgar Street

• The northern approach provides one (1) southbound through traffic lane, two (2) dedicated right-turn lanes onto Milperra Road westbound, and one (1) priority-controlled left turn slip lane onto Milperra Road, eastbound.

4.3.2 Queen Street / Gordon Parker Street



Figure 6. Intersection of Queen Street and Gordon Parker Street

It can be seen from **Figure 6** the intersection of Queen Street and Gordon Parker Street is a priority-controlled four-leg intersection. The main attributes of each approach are outlined below:



Queen Street

- The northern approach provides one (1) southbound through traffic lane and one (1) dedicated right-turn lane onto Gordon Parker Street westbound.
- The southern approach provides one (1) northbound through traffic lane and one dedicated right-turn lane onto Gordon Parker Street eastbound.

Gordon Parker Street

- The western approach provides one (1) left turn lane and one (1) right turn lane onto Queen Street.
- The eastbound approach provides one (1) left turn lane only onto Queen Street.



5. KEY FEATURES OF THE PROPOSAL

A detailed description of the proposed development is provided in the Statement of Environmental Effects prepared separately. In summary, the development for which approval is now sought is for a tyre recycling facility comprising the following:

- Increase in the receival limit of tyres from 14,600 tonnes per year (existing/approved) to 29,900 tonnes per year (proposed).
- Retention of the following existing (approved) vehicular access driveways via Daisy Street:
 - Northern driveway: Passenger vehicle combined entry/egress driveway.
 - Southern driveway: Heavy vehicle combined entry/egress driveway.
- Retention of 11 existing (approved) at-grade parking spaces.
- No changes to the existing (approved) staff shift arrangements as follows:
 - Morning shift: 6:00am-3:00pm
 - Evening shift: 3:00pm-11:00pm
- Reconfiguration of the rear hardstand area comprising the following:
 - Decommissioning of the tyre baling machines located under the rear awning.
 - Alternative positioning of existing shipping containers for storage of rubber products;
 - Installation of two (2) mobile diesel shredding units
 - Establishment of a dedicated area for tyre unloading and temporary storage;
 - Installation of a pre-cast concrete panel wall along the southern boundary of the site;
 - Loading area accommodating vehicles up to a 19.0m Articulated Vehicles (AV)
 which is the largest vehicle requiring access to the subject site in accordance with
 existing approvals.
- Retention of the existing (approved) operational hours of the site as follows:
 - Monday to Friday 6:00am-11:00pm.
 - Saturday 8:00am-5:00pm.
 - Sunday 9:00am-4:00pm.

The parking and traffic impacts arising from the development are discussed in **Section 5** and **Section 6**. Reference should be made to the plans submitted separately to Council which are presented at reduced scale in **Appendix B**.



6. PARKING REQUIREMENTS

6.1 Council Controls

The Canterbury Bankstown Development Control Plan (DCP) 2023, Chapter 3.2 (Amended August 2024) requires parking for Industries to be provided by the rates shown in **Table 1** below:

Table 1: Canterbury Bankstown Council DCP 2023 Parking Rates and Provision

Туре	GFA*	Parking Rate	Spaces Required	Spaces Provided
Industries, (including ancillary Office)	405m²	1 space per 100m ² GFA.	4	11
	Totals			11

It can be seen from **Table 1** the subject development is nominally required to provide four (4) staff car parking spaces in accordance with Council's DCP 2023. In response, a total of 11 staff parking spaces are provided which exceeds Council's parking requirements and ensures all parking demands will continue to be accommodated onsite.

6.2 Accessible Parking

The Canterbury Bankstown Development Control Plan (DCP) 2023, Chapter 3.2 (Amended August 2024) Section 2.7 provides the following accessible parking rates for commercial and industrial premises (BCA Classes 5-8) where development contains 10 or more car spaces:

- 1 accessible car space per 50 car spaces for staff;
- 1 accessible car space for visitors per 50 car spaces where a car park has less than 500 car spaces;
- 1 additional accessible car space per 100 car spaces above 500 car spaces for visitors.

Based on the above, the subject development would be required to provide a minimum of one (1) accessible parking space with shared space and bollard as per AS2890.6 (2022) requirements. In response, accessible parking spaces are not provided which is considered acceptable in the circumstances given the subject site is not accessible to the public and all parking is restricted to staff parking, as discussed. Therefore, all accessible parking requirements (if any) can be managed internally by the site operator on a needs basis, as as required.



6.3 Bicycle Parking

Council's DCP requires bicycle parking to be provided in accordance with Chapter 3.2 (Amended August 2024) for industries by the following rates:

Staff Parking: 1 space per 20 staff

There will be no more than 10 staff onsite at any one time. Therefore, the proposed development requires one (1) bicycle parking to be provided and one (1) bicycle parking space is provided in response, thereby complying with Council's DCP bicycle parking requirements.

6.4 Waste Collection and Servicing

All servicing requirements are to be accommodated onsite and managed internally. 19.0m Articulated Vehicles (AV's) are the largest vehicles requiring access to the subject site. Reference should be made to the swept path analysis provided in **Appendix C** showing the satisfactory operation of 19.0m AV's entering and exiting the subject site in a forward direction by undertaking a 3-point turn onsite in accordance with the requirements of AS2890.2 (2018).



7. TRAFFIC AND TRANSPORT IMPACTS

7.1 Overview

Reference should be made to the vehicle movement schedule provided in **Appendix D**. External traffic impacts during the weekday morning and afternoon network peak have been assessed in order to determine traffic impacts during peak periods.

7.2 Existing Site Generation

The existing tyre recycling facility currently generates the following light vehicles (staff) only trips during the network peaks between 7:30am-9:30am and 4:00pm-6:00pm in accordance with the vehicle movement schedule provided in **Appendix D**:

Morning Peak: Maximum 3 vehicle trips per hour (3 in, 0 out);

Afternoon Peak: Maximum 3 vehicle trips per hour (0 in, 3 out)

7.3 Proposed Traffic Generation

7.3.1 Commercial Vehicles

Morning Peak: Maximum 6 vehicle trips per hour (3 in, 3 out);

Afternoon Peak: Maximum 2 vehicle trip per hour (1 in, 1 out).

7.3.2 Light Vehicles (Staff)

Morning Peak: Maximum 3 vehicle trips per hour (3 in, 0 out);

Afternoon Peak: Maximum 3 vehicle trips per hour (0 in, 3 out).

7.3.3 Net Traffic Generation

Based on the above, the net traffic generation is summarised as follows:

Morning peak period additional vehicle trips: +6 vehicle trips (+3 in, +3 out)

Afternoon peak period additional vehicle trips: +2 vehicle trips (+1 in, +1 out).



7.4 Truck Routes

The proposed truck routes presented in **Figure 7** below are the most direct routes to and from the M5 Motorway, thereby minimising residential impacts.

Routes to site (Inbound)

- 1. Trucks will arrive on M5 Motorway, westbound.
- 2. Turn right onto The River Road, northbound.
- 3. Turn left onto Milperra Road, westbound.
- 4. Turn left onto Daisy Street, southbound.
- 5. Turn left into Tyre Recycling Facility site.
- Routes from site(Outbound)
- 1. Trucks will depart left onto Daisy Street, southbound.
- 2. Turn left onto Gordon Parker Street, eastbound.
- 3. Turn left onto Queen Street, northbound.
- 4. Turn right onto Milperra Road, eastbound.
- 5. Turn right onto The River Road, southbound.
- 6. Turn left onto M5 Motorway, eastbound.

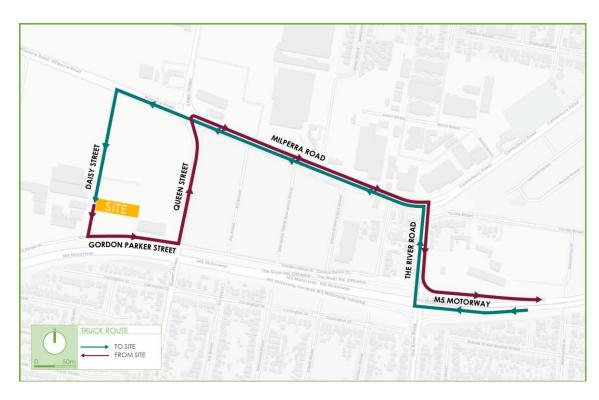


Figure 7: Truck Routes

Swept path analysis of 19.0m has also been undertaken for specific manoeuvre in and out of the site provided in **Appendix C**.



7.5 Traffic Surveys

For the purposes of assessing traffic impacts of the proposed development, traffic surveys were undertaken of two (2) key intersections as discussed in **Section 3.3** above. The surveys were undertaken during the peak periods between 7:30AM to 9:30AM and 4:00PM to 6:00PM on Wednesday 7thAugust 2024.

7.6 Traffic Distribution

The adopted traffic split for the development is based on the truck routes provide in Section 6.4 summarised as follows:

- 100% of traffic will approach and exit the subject site from Milperra Road (East)
- 100% of traffic will approach the subject site via turning left from Milperra Road onto Daisy Street
- 100% of traffic will exit the subject site by turning left to Gordon Parker Street from Daisy Street and onto Queen Street.

Reference should be made to the traffic distribution diagrams presented in **Figure 8** and **Figure 9** below showing the development traffic flows for each key intersection, respectively.

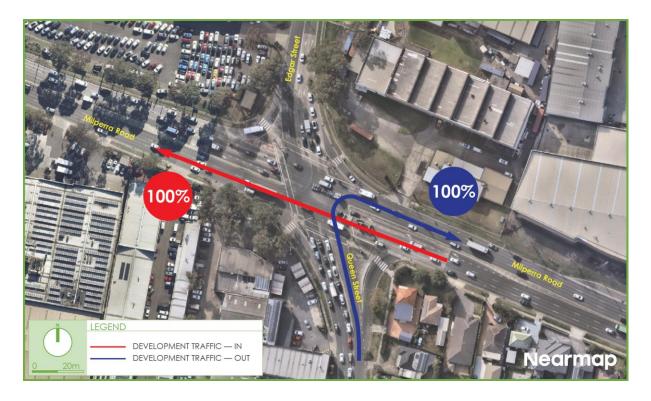


Figure 8. Traffic Distribution at Milperra Road and Queen Street and Edgar Street Intersection





Figure 9. Traffic Distribution at Queen Street and Gordon Parker Street Intersection

7.7 Peak Period Intersection Performance

7.7.1 Modelling Scenarios

In order to assess the potential traffic impacts of the proposed development, the following scenarios were assessed:

- 2024 Base Case; and
- 2024 Base Case plus Development.

7.7.2 SIDRA Intersection Analysis

As previously mentioned, traffic surveys were undertaken of the intersections mentioned above, which are considered to be most critical in relation to the site.

The traffic volumes in these surveys formed the base case volumes for software modelling undertaken to assess intersection performance characteristics under existing traffic conditions. The SIDRA model produces a range of outputs, the most useful of which are the degree of saturation (DoS) and average vehicle delay per vehicle (AVD). The AVD is in turn related to a



level of service (LoS) criteria. These performance measures can be interpreted using the following explanations:

- both queue length and delay increase rapidly as DoS approaches 1, it is usual to attempt to keep DoS to less than 0.9. When DoS exceeds 0.9 residual queues can be anticipated, as occurs at many major intersections throughout the metropolitan area during peak periods. In this regard, a practical limit at 1.1 can be assumed. For intersections controlled by roundabout or give way / stop control, satisfactory intersection operation is generally indicated by a DoS of 0.8 or less.
- the AVD for individual intersections provides a measure of the operational performance of an intersection. In general, levels of acceptability of AVD for individual intersections depend on the time of day (motorists generally accept higher delays during peak commuter periods) and the road system being modelled (motorists are more likely to accept longer delays on side streets than on the main road system).
- this is a comparative measure which provides an indication of the operating performance of an intersection as shown in **Table 2** below.

Level of Service Average Delay per Traffic Signals, Give Way, Stop Signs (LoS) Vehicle (secs/veh) Roundabout Α less than 14 Good operation Good operation Good with acceptable Acceptable delays and В 15 to 28 delays and spare capacity spare capacity Satisfactory but accident С 29 to 42 Satisfactory study required Near capacity and D 43 to 56 Operating near capacity accident study required At capacity, at signals incidents will cause At capacity and requires Ε 57 to 70 excessive delays. other control mode Roundabouts require other control mode Unsatisfactory and requires Unsatisfactory and requires F More than 70 other control mode or

Table 2: Intersection Performance Indicators (TfNSW)

The traffic impacts arising from the proposed development during the morning and evening peak periods have been assessed using SIDRA Intersection model 9.1. The results are

additional capacity.

major treatment.



summarised in **Table 3** below, with detailed outputs provided in **Appendix E** for individual lanes and approaches.

Table 3: Existing and Development Intersection Performance

Intersection	Period	Scenario	Degree of Saturation	Average Delay	Level of Service
	АМ	Existing	0.933	51.3	D
Milperra Road / Queen Street / Edgar Street		Existing + Development	0.897	51.2	D
(Signalised)	PM AM	Existing	0.966	46.3	D
		Existing + Development	0.966	46.7	D
		Existing	2.336	1344.7	F
Queen Street / Gordon Parker Street		Existing + Development	2.336	1344.7	F
(Priority-Controlled)	PM	Existing	2.975	1887.8	F
		Existing + Development	2.975	1887.8	F

It can be seen from **Table 3** that the signalised intersection of Milperra Road / Queen Street / Edgar Street operates at Level of Service (LoS) 'D' during both peaks for the existing and development scenarios with an average delay of 51.3 seconds during the existing morning scenario, 51.2 seconds during the development morning scenario and 46.7 seconds during the development afternoon scenario.

The priority controlled intersection of Queen Street / Gordon Street/ Parker Street operates at Level of Service (LoS) 'F' during both peaks for the existing and development scenarios with an average delay of 1344.7 seconds during both morning scenarios, and 1887.8 seconds during both afternoon scenarios.

It is emphasised there are no changes to the existing LoS during both morning and afternoon peaks for both intersections with minimal (if any) changes to the average delays with respect to the proposed development. In other words, the vehicle trips generated by the proposed development will have negligible impacts to the operation of both intersections which will continue to operate consistently with existing intersection performance parameters. Therefore, intersection upgrades are not warranted on account of the proposed development.



8. ACCESS AND INTERNAL DESIGN ASPECTS

8.1 Vehicular Access

The proposed development proposes to retain the existing (approved) vehicular access via Daisy Street with no changes proposed to the existing (approved) arrangements in this regard. Reference should be made to the swept path analysis presented in **Appendix C** showing the satisfactory operation of the existing access driveway which is able to accommodate 19.0m Articulated Vehicles being the largest vehicles requiring access to the site.

8.2 Internal Design

The internal car park complies with the requirements of AS 2890.1 (2004), AS 2890.2 (2018), and AS 2890.6 (2022), with the following characteristics noteworthy:

- All standard car parking spaces have been designed in accordance with User Class 1A being for employee parking. These spaces are provided with a minimum space length of 5.4m, a minimum width of 2.4m and a minimum aisle width of 5.8m.
- All spaces located adjacent to obstructions of greater than 150mm in height are provided with an additional width of 300mm.
- All accessible spaces have been designed in accordance with AS 2890.6 (2022), being 2.4m wide, 5.4m long and situated immediately adjacent to a dedicated shared area or the circulating aisle.
- All swept paths operate satisfactorily in accordance with AS2890 as shown by the Swept Path Analysis presented in Appendix C.

8.3 Summary

In summary, the internal configuration of the car park has been designed in accordance with AS 2890.1 (2004), AS 2890.2 (2018) and AS 2890.6 (2022).



9. CONCLUSIONS

In summary:

- The proposal seeks approval for an increase in the receival limit of tyres from 14,600 tonnes per year (existing/approved) to 29,900 tonnes per year (proposed) as well as changes to the internal configuration of the subject site.
- The subject development is well connected to the surrounding local and regional road network and access to public transport services as discussed in Section 3.
- The proposed development provides 11 car parking spaces within an at-grade carpark thereby satisfying the requirements of Council's DCP as discussed in **Section 5**.
- The traffic generation arising from the development has been assessed as a net increase over existing conditions and equates to an additional six (6) vehicle trips per hour (+3 in, +3 out) during the morning and an additional two (2) vehicle trip per hour(+1 in, 1 out) during the evening peak hour which is considered a minor increase with no noticeable impacts to nearby intersection performance based on SIDRA Intersection modelling as discussed in Section 6.
- The at-grade car park and internal circulation areas have been assessed to comply with the requirements of AS 2890.1 (2004), AS 2890.2 (2018) and AS 2890.6 (2022), thereby ensuring safe and efficient operation.

This traffic impact assessment therefore demonstrates that the subject application is supportable on traffic planning grounds.

	APPENDIX A
	Photographic Record



View looking east along Daisy Street towards the subject site access driveway.



View looking east along Daisy Street towards the subject site access driveway.



View looking west along Gordon Parker Street towards its intersection with Daisy Street.



View looking east along Gordon Parker Street towards its intersection with Queen Street.



View looking east along Queen Street towards its intersection with Milperra Road.



View looking north along Queen Street towards its intersection with Milperra Road.

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Plans

Alterations and Additions to an Existing Tyre Recycling Facility

30 Daisy Street, Revesby, NSW (Lot 198, DP7866)



DEVELOPMENT STATISTICS		
LOT AREA:	4,043 SQMT	
GROUND FLOOR AREA OF MAIN SHED:	360 SQMT	
GROUND FLOOR AREA OF OFFICE IN MAIN SHED:	14.5 SQMT	
FIRST FLOOR OFFICE OF MAIN SHED:	30.5 SQMT	
GROUND FLOOR OF REAR SHED:	831 SQMT	
TOTAL PROPOSED PARKING SPACES:	11 PARKING SPACES	

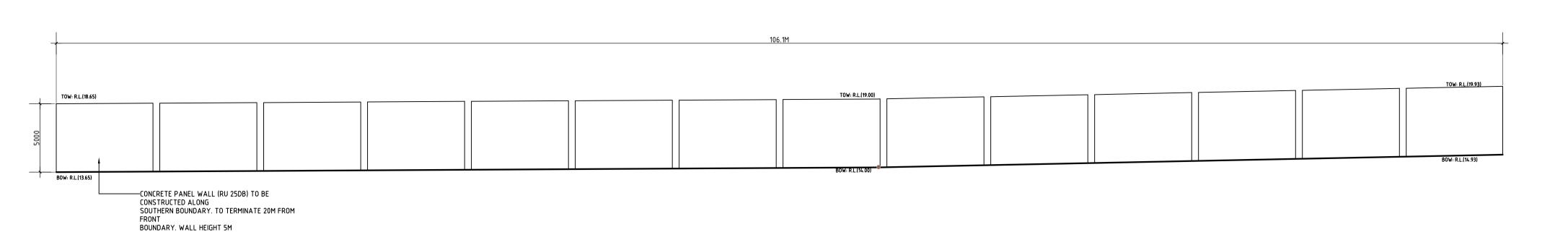
Date	Plan Number	Cover Page
17-09-2024	101	30 Daisy Street, Revesby NSW, 2212 (Lot 198, DP7866)

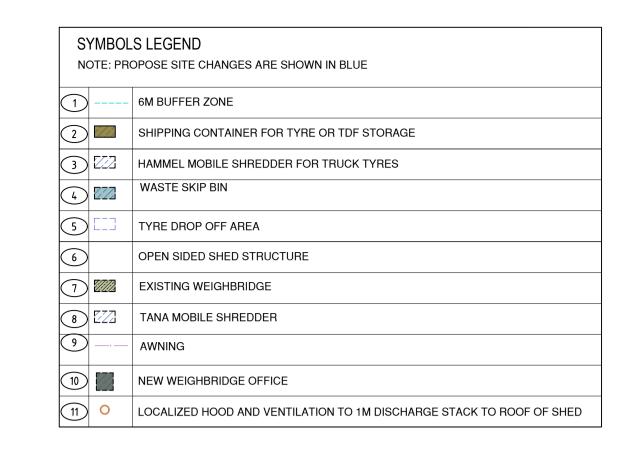
JEP Environment & Planning
Strategy | Approvals | Compliance | Licensing

A: Suite 102, Level 1, 25-29 Berry St, North Sydney NSW 2060 E: admin@jacksonenvironment.com.au T: 02 8056 1849 W: http://www.jacksonenvironment.com.au



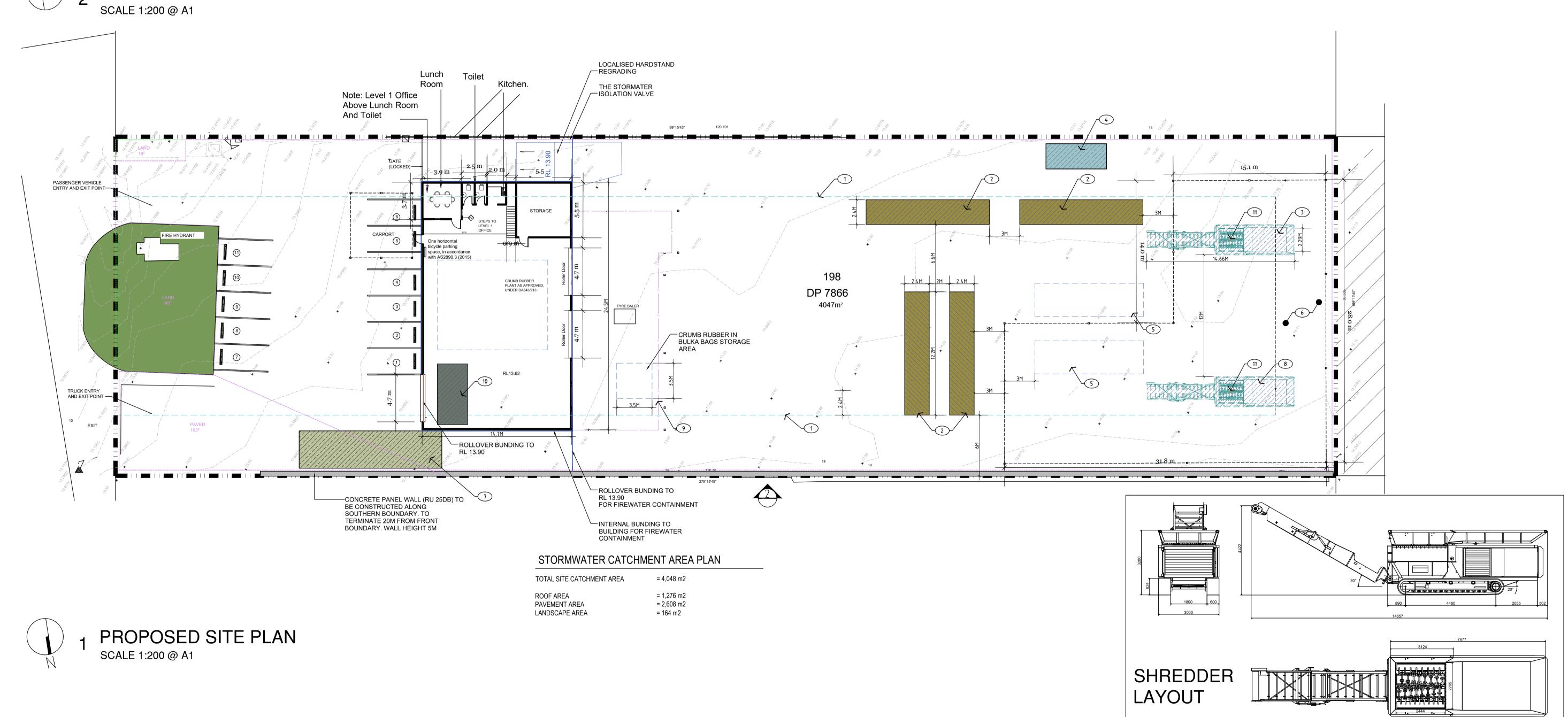
Client	BSV Tyre Recycling Australia Pty Ltd
Project	Alterations and Additions to an Existing Tyre Recycling Facility
Title	Cover Page
Scale	N/A
Source	JEP Environment & Planning
	Project Title Scale







PROPOSED NOISE WALL ELEVATION



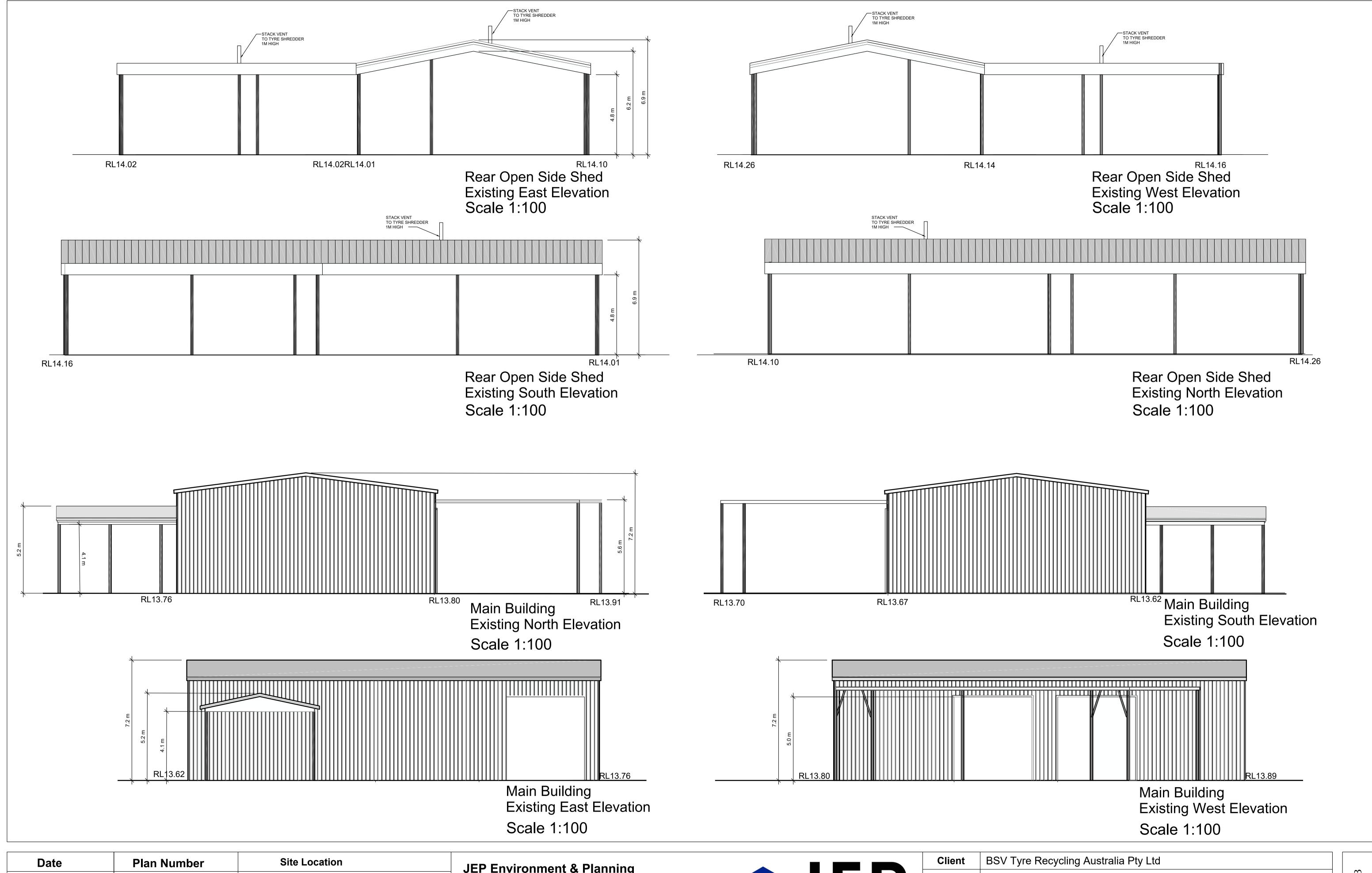
Date	Plan Number	Site Location
17-09-2024	102	30 Daisy Street, Revesby NSW, 2212 (Lot 198, DP7866)

JEP Environment & Planning
Strategy | Approvals | Compliance | Licensing

W: http://www.jacksonenvironment.com.au

A: Suite 102, Level 1, 25-29 Berry St, North Sydney NSW 2060 E: admin@jacksonenvironment.com.au
T: 02 8056 1849

JEP
ENVIRONMENT & PLANNING



Date	Plan Number	Site Location
17-09-2024	103	30 Daisy Street, Revesby NSW, 2212 (Lot 198, DP7866)

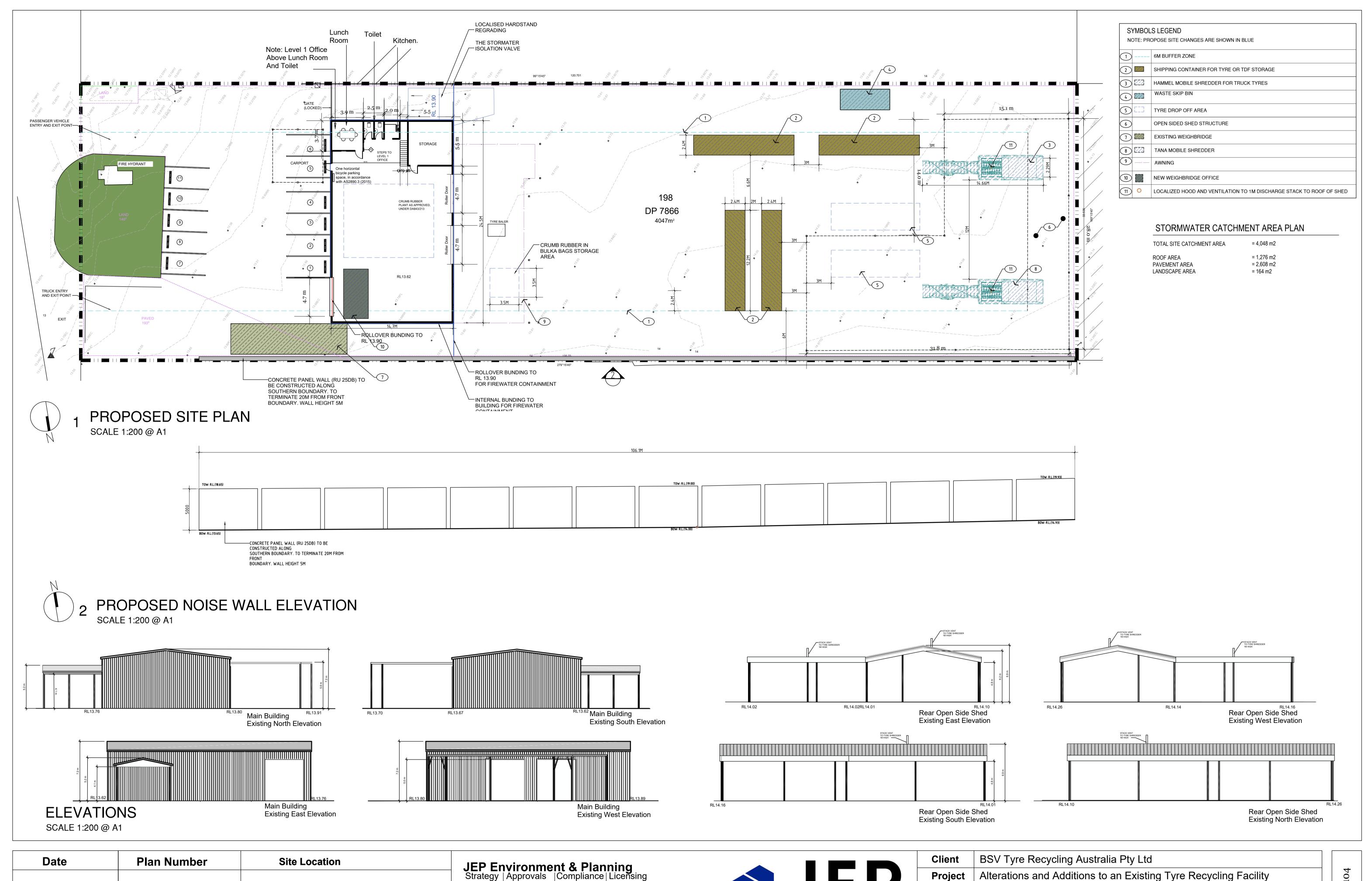
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A: Suite 102, Level 1, 25-29 Berry St, North Sydney NSW 2060 E: admin@jacksonenvironment.com.au
T: 02 8056 1849

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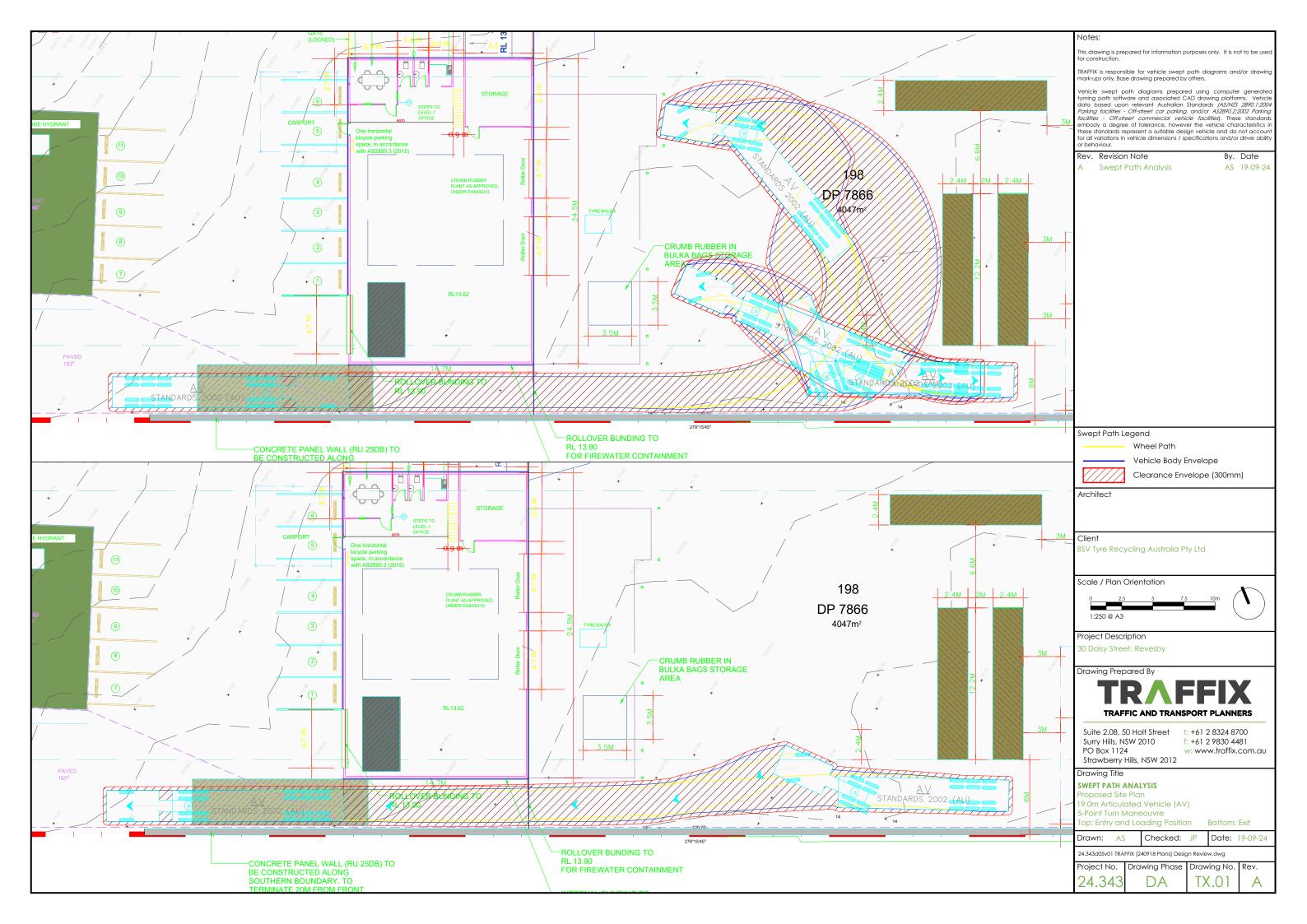
Client	BSV Tyre Recycling Australia Pty Ltd	
Project	Alterations and Additions to an Existing Tyre Recycling Facility	
Title	Existing Elevations	
Scale	1:100	
Source	JEP Environment & Planning	



Date	Plan Number	Site Location	JEP Environment & Planning		Client	BSV Tyre Recycling Australia Pty Ltd	
			Strategy Approvals Compliance Licensing		Project	Alterations and Additions to an Existing Tyre Recycling Facility	104
17-09-2024	105	30 Daisy Street, Revesby NSW, 2212	A: Suite 102, Level 1, 25-29 Berry St, North Sydney NSW 2060		Title	Notification Plan	
		(Lot 198, DP7866)	E: admin@jacksonenvironment.com.au T: 02 8056 1849 W: http://www.jacksonenvironment.com.au	ENVIRONMENT & PLANNING	Scale	1:200	DA
					Source	JEP Environment & Planning	

APPENDIX C

Swept Path Analysis





ESTIMATED TRAFFIC GENERATION BASED ON EXISTING DA843/2013

			BS	V Tyre Recycling - Revesb	y - Operational traffic				
Time Period	Time of day	Staff	vehicles	Traffic Levels (Incoming Tyres)	Outgoing Empty MRVs	Incoming MRVs To Pickup Crumb Rubber	Outgoing Loaded MRVs (Crumb Rubber)	Incoming Empty Semi-Trailers	Outgoing Loaded Ser Trailers (Baled Tyres
		Incoming	Outgoing	Medium Rigid Vehicles	Medium Rigid Vehicles	Medium Rigid Vehicles	Medium Rigid Vehicles	Semi Trailers	Semi Trailers
	12:00am to 1:00am								
	1:00am to 2:00am								
	2:00am to 3:00am								
Night	3:00am to 4:00am								
	4:00am to 5:00am								
	5:00am to 6:00am	2							
	6:00am to 7:00am	3		1	1				
	7:00am to 8:00am								
	8:00am to 9:00am	3							
	9:00am to 10:00am								
	10:00am to 11:00am			1	1				
	11:00am to 12:00pm							1	1
Day	12:00pm to 1:00pm								
	1:00pm to 2:00pm					1	1		
	2:00pm to 3:00pm	5	2	1	1				
	3:00pm to 4:00pm		3						
	4:00pm to 5:00pm								
	5:00pm to 6:00pm		3						
	6:00pm to 7:00pm	2		1	1				
Evening	7:00pm to 8:00pm							1	1
Evening	8:00pm to 9:00pm								
	9:00pm to 10:00pm								
Night	10:00pm to 11:00pm		7	1	1				
Nignt	11:00pm to 12:00am								
	Totals	15	15	5	5	1	1	2	2
	Total number of staff vehicles per day (Incoming and Outgoing)	30							
	Total number of trucks per day(Incoming and Outgoing)	16	1						

PROPOSED TRAFFIC GENERATION (BASED ON ANNUAL PROCESSING CAPACITY OF 29,900 TONNES PER YEAR)

		F. #	ehicles	Incoming Loaded MRVs (Incoming		Incoming Loaded Semi Trailers	Outgoing Empty Semi Trailers	Incoming empty MRVs To	Outgoing Loaded MRVs (Crumb	Incoming empty Semi Trailers To	Outgoing loaded Ser
Time Period	Time of day	Staff v	ehicles	Tyres)	Outgoing Empty MRVs	(Incoming Tyres)	Outgoing Empty Semi Trailers	Pickup Crumb Rubber	Rubber)	Pickup TDF	Trailers (TDF)
		Incoming	Outgoing	Medium Rigid Vehicles	Medium Rigid Vehicles	Semi Trailers	Semi Trailers	Medium Rigid Vehicles	Medium Rigid Vehicles	Semi Trailers	Semi Trailers
	12:00am to 1:00am										
	1:00am to 2:00am										
	2:00am to 3:00am										
Night	3:00am to 4:00am										
	4:00am to 5:00am										
	5:00am to 6:00am	3									
	6:00am to 7:00am	3		1	1						
	7:00am to 8:00am					1	1				
	8:00am to 9:00am	3		2	2						
	9:00am to 10:00am									1	1
	10:00am to 11:00am			2	2						
	11:00am to 12:00pm					1	1				
Day	12:00pm to 1:00pm			2	2						
	1:00pm to 2:00pm							1	1		
	2:00pm to 3:00pm	6	3	2	2					1	1
	3:00pm to 4:00pm		3			1	1				
	4:00pm to 5:00pm			1	1						
	5:00pm to 6:00pm		3								
	6:00pm to 7:00pm	2		1	1						
Fuening	7:00pm to 8:00pm					1	1				
Evening	8:00pm to 9:00pm									1	1
	9:00pm to 10:00pm			1	1						
AU -l-A	10:00pm to 11:00pm		8	1	1					1	1
Night	11:00pm to 12:00am										
	Totals	17	17	13	13	4	4	1	1	4	4
	Total number of staff vehicles per day (Incoming and Outgoing)	34							•		
	Total number of trucks per day(Incoming and Outgoing)	44									

Plus Staff Vehicles 20/day 1 fuel truck/week Other vehicles 1 skip bin truck/month Currently employs 15 people. 2 additional jobs to be created No diesel stored onsite. Tanker brought onsite for refueling. Collects skip bin containing steel removed from tyres

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SIDRA Modelling Results

SITE LAYOUT

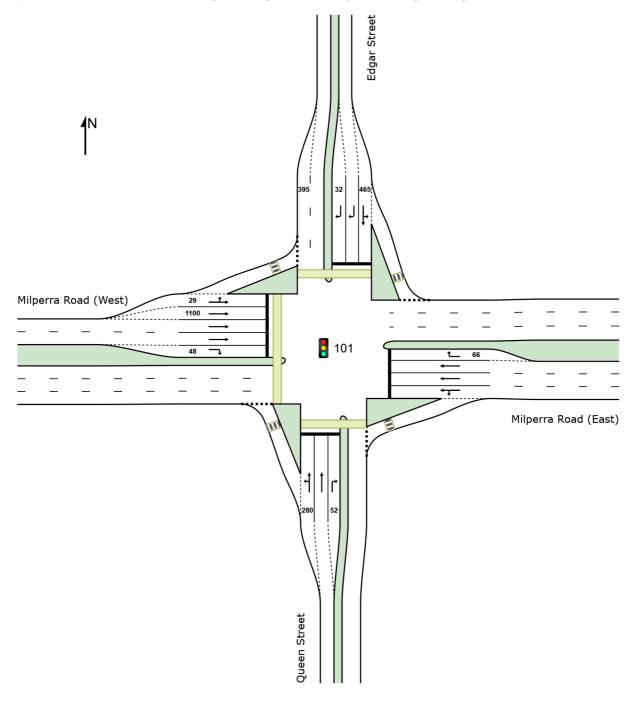
Site: 101 [Milperra Road/Queen Street/Edgar Street - AM Peak

(Site Folder: 2024 Base)]

Milperra Road/Queen Street/Edgar Street Signalised Intersection

Site Category: (None)
Signals - EQUISAT (Fixed-Time/SCATS) Isolated

Layout pictures are schematic functional drawings reflecting input data. They are not design drawings.



Site: 101 [Milperra Road/Queen Street/Edgar Street - AM Peak

(Site Folder: 2024 Base)]

Output produced by SIDRA INTERSECTION Version: 9.1.5.224

Milperra Road/Queen Street/Edgar Street Signalised Intersection

Site Category: (None)

Signals - EQUISAT (Fixed-Time/SCATS) Isolated Cycle Time = 120 seconds (Site Optimum Cycle Time - Minimum

Delay)

Variable Sequence Analysis applied. The results are given for the selected output sequence.

Vehi	cle Mo	ovement	Performa	псе									
Mov	Turn	Mov	Demand	Arrival	Deg.	Aver.	Level of	95% Ba		Prop.	Eff.	Aver.	Aver.
ID		Class	Flows [Total HV]	Flows [Total HV]	Satn	Delay	Service	Que [Veh.	eue Dist]	Que	Stop Rate	No. of Cycles	Speed
			veh/h %	veh/h %	v/c	sec		veh	m ¹			,	km/h
South	n: Que	en Street											
1	L2	All MCs	113 11.2	113 11.2	0.705	10.9	LOSA	17.0	125.4	0.94	0.88	0.94	45.2
2	T1	All MCs	564 3.9	564 3.9	0.705	51.2	LOS D	17.0	125.4	0.95	0.86	0.96	33.8
3	R2	All MCs	194 14.1	194 14.1	* 0.933	89.9	LOS F	13.8	108.3	1.00	1.07	1.45	22.9
Appro	oach		871 7.1	871 7.1	0.933	54.6	LOS D	17.0	125.4	0.96	0.91	1.07	31.1
East:	Milper	ra Road ((East)										
4	L2	All MCs	24 47.8	24 47.8	0.150	11.4	LOSA	1.5	13.3	0.83	0.68	0.83	40.6
5	T1	All MCs	99 14.9	99 14.9	* 0.150	47.3	LOS D	2.0	15.5	0.89	0.68	0.89	47.0
6	R2	All MCs	36 58.8	36 58.8	0.481	71.8	LOS F	2.2	23.4	1.00	0.74	1.00	27.7
Appro	oach		159 29.8	159 29.8	0.481	47.4	LOS D	2.2	23.4	0.91	0.69	0.91	41.7
North	: Edga	r Street											
7	L2	All MCs	255 10.3	255 10.3	0.864	24.7	LOS B	35.1	258.7	0.97	1.05	1.07	35.2
8	T1	All MCs	397 3.4	397 3.4	* 0.864	53.1	LOS D	35.1	258.7	0.97	1.05	1.07	33.5
9	R2	All MCs	457 9.0	457 9.0	0.729	67.3	LOS E	12.8	96.7	0.97	0.87	1.04	41.6
Appro	oach		1108 7.3	1108 7.3	0.864	52.4	LOS D	35.1	258.7	0.97	0.97	1.06	36.2
West	Milpe	rra Road	(West)										
10	L2	All MCs	69 43.9	69 43.9	0.082	11.4	LOSA	1.3	13.3	0.35	0.62	0.35	57.3
11	T1	All MCs	223 95.3	223 95.3	0.402	51.2	LOS D	4.0	50.8	0.93	0.74	0.93	44.5
12	R2	All MCs	89 10.6	89 10.6	* 0.526	43.4	LOS D	4.0	30.4	0.99	0.77	0.99	43.6
Appro	oach		382 66.1	382 66.1	0.526	42.2	LOS C	4.0	50.8	0.84	0.73	0.84	46.2
All Ve	hicles		2520 17.6	2520 17.6	0.933	51.3	LOS D	35.1	258.7	0.94	0.89	1.02	36.5

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Parameter Settings dialog (Options tab).

Vehicle movement LOS values are based on average delay per movement.

Intersection and Approach LOS values are based on average delay for all vehicle movements.

Delay Model: SIDRA Standard (Control Delay: Geometric Delay is included).

Queue Model: SIDRA queue estimation methods are used for Back of Queue and Queue at Start of Green.

Gap-Acceptance Capacity Formula: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Arrival Flows used in performance calculations are adjusted to include any Initial Queued Demand and Upstream Capacity Constraint effects.

Pedestrian I	Noveme	ent Perf	ormano	:e							
Mov	Input	Dem.	Aver.	Level of AV	/ERAGE	BACK OF	Prop.	Eff.	Travel	Travel	Aver.
ID Crossing	Vol.	Flow	Delay	Service		EUE	Que	Stop	Time	Dist.	Speed
					[Ped	Dist]		Rate			
	ped/h	ped/h	sec		ped	m			sec	m	m/sec
South: Queen	Street										

P1 Full	50	53	54.3	LOS E	0.2	0.2	0.95	0.95	208.1	200.0	0.96
North: Edgar	Street										
P3 Full	50	53	54.3	LOS E	0.2	0.2	0.95	0.95	208.1	200.0	0.96
West: Milperra	a Road (V	Vest)									
P4 Full	50	53	54.3	LOS E	0.2	0.2	0.95	0.95	208.1	200.0	0.96
All Pedestrians	150	158	54.3	LOS E	0.2	0.2	0.95	0.95	208.1	200.0	0.96

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Project: \Trx-server1\TDATA\Synergy\Projects\24\24.343\Modelling\m01v02\24.343m01v02 30 Daisy Street, Revesby - SIDRA Modelling.sip9

Site: 101 [Milperra Road/Queen Street/Edgar Street - AM Peak

(Site Folder: 2024 Base + Development (v02))]

Output produced by SIDRA INTERSECTION Version: 9.1.5.224

Milperra Road/Queen Street/Edgar Street Signalised Intersection

Site Category: (None)

Signals - EQUISAT (Fixed-Time/SCATS) Isolated Cycle Time = 120 seconds (Site Optimum Cycle Time - Minimum

Delay)

Variable Sequence Analysis applied. The results are given for the selected output sequence.

Vehi	cle Mo	ovement	Performa	nce									
Mov ID	Turn	Mov Class	Demand Flows	Arrival Flows	Deg. Satn	Aver. Delav	Level of Service	95% B Que		Prop. Que	Eff. Stop	Aver. No. of	Aver. Speed
		0.5.00	[Total HV]		v/c	sec	23.1122	[Veh. veh	Dist] m	ζ	Rate	Cycles	km/h
South	n: Que	en Street											
1	L2	All MCs	113 11.2	113 11.2	0.679	10.5	LOSA	16.7	123.2	0.93	0.90	0.93	44.8
2	T1	All MCs	564 3.9	564 3.9	0.679	50.8	LOS D	16.7	123.2	0.94	0.85	0.94	33.9
3	R2	All MCs	197 15.5	197 15.5	* 0.897	82.5	LOS F	13.3	105.7	1.00	1.02	1.35	24.1
Appro	oach		874 7.5	874 7.5	0.897	52.7	LOS D	16.7	123.2	0.95	0.90	1.03	31.6
East:	Milper	ra Road ((East)										
4	L2	All MCs	24 47.8	24 47.8	0.148	10.4	LOSA	1.5	12.8	0.79	0.66	0.79	42.7
5	T1	All MCs	105 17.0	105 17.0	0.148	43.8	LOS D	1.9	15.4	0.88	0.67	0.88	47.9
6	R2	All MCs	36 58.8	36 58.8	* 0.562	74.1	LOS F	2.3	24.0	1.00	0.77	1.08	27.2
Appro	oach		165 30.6	165 30.6	0.562	45.5	LOS D	2.3	24.0	0.89	0.69	0.91	42.5
North	: Edga	r Street											
7	L2	All MCs	255 10.3	255 10.3	0.868	25.2	LOS B	35.5	261.7	0.97	1.05	1.08	35.0
8	T1	All MCs	397 3.4	397 3.4	* 0.868	53.7	LOS D	35.5	261.7	0.97	1.05	1.08	33.3
9	R2	All MCs	457 9.0	457 9.0	0.729	67.3	LOS E	12.8	96.7	0.97	0.87	1.04	41.6
Appro	oach		1108 7.3	1108 7.3	0.868	52.8	LOS D	35.5	261.7	0.97	0.97	1.06	36.1
West	Milpe	rra Road	(West)										
10	L2	All MCs	69 43.9	69 43.9	0.085	11.1	LOSA	1.3	13.0	0.35	0.62	0.35	57.5
11	T1	All MCs	223 95.3	223 95.3	* 0.402	51.2	LOS D	4.0	50.8	0.93	0.74	0.93	44.5
12	R2	All MCs	89 10.6	89 10.6	0.372	58.3	LOS E	4.9	37.2	0.95	0.78	0.95	39.1
Appro	oach		382 66.1	382 66.1	0.402	45.6	LOS D	4.9	50.8	0.83	0.73	0.83	45.1
All Ve	hicles		2529 17.8	2529 17.8	0.897	51.2	LOS D	35.5	261.7	0.94	0.89	1.01	36.6

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Parameter Settings dialog (Options tab).

Vehicle movement LOS values are based on average delay per movement.

Intersection and Approach LOS values are based on average delay for all vehicle movements.

Delay Model: SIDRA Standard (Control Delay: Geometric Delay is included).

Queue Model: SIDRA queue estimation methods are used for Back of Queue and Queue at Start of Green.

Gap-Acceptance Capacity Formula: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Arrival Flows used in performance calculations are adjusted to include any Initial Queued Demand and Upstream Capacity Constraint effects.

Pedestrian I	Movem	ent Perf	ormano	:e							
Mov ID Crossing	Input Vol.	Dem. Flow		Level of Service		BACK OF EUE Dist]	Prop. Que	Eff. Stop Rate	Travel Time	Travel Dist.	Aver. Speed
	ped/h	ped/h	sec		ped	m -			sec	m	m/sec
South: Queen	Street										

P1 Full	50	53	54.3	LOS E	0.2	0.2	0.95	0.95	208.1	200.0	0.96
North: Edgar	Street										
P3 Full	50	53	54.3	LOS E	0.2	0.2	0.95	0.95	208.1	200.0	0.96
West: Milperra	a Road (V	/est)									
P4 Full	50	53	54.3	LOS E	0.2	0.2	0.95	0.95	208.1	200.0	0.96
All Pedestrians	150	158	54.3	LOS E	0.2	0.2	0.95	0.95	208.1	200.0	0.96

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Project: \Trx-server1\TDATA\Synergy\Projects\24\24.343\Modelling\m01v02\24.343m01v02 30 Daisy Street, Revesby - SIDRA Modelling.sip9

Site: 101 [Milperra Road/Queen Street/Edgar Street - PM Peak

(Site Folder: 2024 Base)]

Output produced by SIDRA INTERSECTION Version: 9.1.5.224

Milperra Road/Queen Street/Edgar Street Signalised Intersection

Site Category: (None)

Signals - EQUISAT (Fixed-Time/SCATS) Isolated Cycle Time = 120 seconds (Site Optimum Cycle Time - Minimum

Delay)

Variable Sequence Analysis applied. The results are given for the selected output sequence.

Vehic	Vehicle Movement Performance Mov Turn Mov Demand Arrival Deg. Aver. Level of 95% Back Of Prop. Eff. Aver. Aver.												
Mov ID	Turn	Mov Class	Flows	Flows [Total HV]	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% Ba Que [Veh. veh		Prop. Que	Eff. Stop Rate	Aver. No. of Cycles	Aver. Speed km/h
South	ı: Que	en Street											
1	L2	All MCs	114 1.9	114 1.9	0.640	8.4	LOSA	10.6	75.6	0.95	0.81	0.95	48.1
2	T1	All MCs	396 2.4	396 2.4	0.640	48.8	LOS D	13.3	94.7	0.96	0.81	0.96	33.7
3	R2	All MCs	168 2.5	168 2.5	* 0.938	84.0	LOS F	12.0	85.5	1.00	1.07	1.48	23.3
Appro	oach		678 2.3	678 2.3	0.938	50.8	LOS D	13.3	94.7	0.97	0.88	1.09	32.9
East:	Milper	ra Road ((East)										
4	L2	All MCs	161 5.9	161 5.9	0.357	12.8	LOSA	6.4	50.9	0.75	0.73	0.75	44.3
5	T1	All MCs	221 42.9	221 42.9	0.357	47.3	LOS D	6.4	50.9	0.89	0.74	0.89	47.4
6	R2	All MCs	164 9.0	164 9.0	* 0.966	92.5	LOS F	12.4	93.1	1.00	1.09	1.58	24.2
Appro	oach		546 21.8	546 21.8	0.966	50.7	LOS D	12.4	93.1	0.88	0.84	1.05	38.0
North	: Edga	r Street											
7	L2	All MCs	204 5.2	204 5.2	0.944	39.7	LOS C	44.6	320.1	1.00	1.18	1.27	29.4
8	T1	All MCs	440 1.9	440 1.9	* 0.944	75.6	LOS F	44.6	320.1	1.00	1.18	1.27	27.1
9	R2	All MCs	544 2.3	544 2.3	0.749	37.4	LOS C	10.1	72.4	0.99	0.86	1.06	47.7
Appro	oach		1188 2.7	1188 2.7	0.944	51.9	LOS D	44.6	320.1	1.00	1.03	1.17	36.9
West:	Milpe	rra Road	(West)										
10	L2	All MCs	409 4.9	409 4.9	0.350	11.6	LOSA	6.8	50.5	0.36	0.68	0.36	58.6
11	T1	All MCs	200 35.3	200 35.3	* 0.350	49.6	LOS D	6.8	50.5	0.91	0.72	0.91	45.2
12	R2	All MCs	167 1.3	167 1.3	0.482	53.8	LOS D	8.9	62.7	0.94	0.81	0.94	40.5
Appro	ach		777 11.9	777 11.9	0.482	30.5	LOS C	8.9	62.7	0.63	0.72	0.63	50.2
All Ve	hicles		3189 8.1	3189 8.1	0.966	46.3	LOS D	44.6	320.1	0.88	0.89	1.00	39.6

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Parameter Settings dialog (Options tab).

Vehicle movement LOS values are based on average delay per movement.

Intersection and Approach LOS values are based on average delay for all vehicle movements.

Delay Model: SIDRA Standard (Control Delay: Geometric Delay is included).

Queue Model: SIDRA queue estimation methods are used for Back of Queue and Queue at Start of Green.

Gap-Acceptance Capacity Formula: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Arrival Flows used in performance calculations are adjusted to include any Initial Queued Demand and Upstream Capacity Constraint effects.

Pedestrian I	Movem	ent Perf	ormano	:e							
Mov ID Crossing	Input Vol.	Dem. Flow		Level of Service		BACK OF EUE Dist]	Prop. Que	Eff. Stop Rate	Travel Time	Travel Dist.	Aver. Speed
	ped/h	ped/h	sec		ped	m -			sec	m	m/sec
South: Queen	Street										

P1 Full	50	53	54.3	LOS E	0.2	0.2	0.95	0.95	208.1	200.0	0.96
North: Edgar S	Street										
P3 Full	50	53	54.3	LOS E	0.2	0.2	0.95	0.95	208.1	200.0	0.96
West: Milperra	a Road (W	/est)									
P4 Full	50	53	54.3	LOS E	0.2	0.2	0.95	0.95	208.1	200.0	0.96
All Pedestrians	150	158	54.3	LOS E	0.2	0.2	0.95	0.95	208.1	200.0	0.96

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Project: \Trx-server1\TDATA\Synergy\Projects\24\24.343\Modelling\m01v02\24.343m01v02 30 Daisy Street, Revesby - SIDRA Modelling.sip9

Site: 101 [Milperra Road/Queen Street/Edgar Street - PM Peak

(Site Folder: 2024 Base + Development (v02))]

Output produced by SIDRA INTERSECTION Version: 9.1.5.224

Milperra Road/Queen Street/Edgar Street Signalised Intersection

Site Category: (None)

Signals - EQUISAT (Fixed-Time/SCATS) Isolated Cycle Time = 120 seconds (Site Optimum Cycle Time - Minimum

Delay)

Variable Sequence Analysis applied. The results are given for the selected output sequence.

Vehic	le Mo	ovement	t Performa	nce									
Mov	Turn	Mov	Demand		Deg.	Aver.	Level of	95% Ba		Prop.	Eff.	Aver.	Aver.
ID		Class	Flows	Flows [Total HV]	Satn	Delay	Service	Que [Veh.	eue Dist]	Que	Stop Rate	No. of Cycles	Speed
				veh/h %	v/c	sec		veh.	m m		itate	Cycles	km/h
South	: Que	en Street											
1	L2	All MCs	114 1.9	114 1.9	0.640	8.4	LOSA	10.6	75.6	0.95	0.81	0.95	48.1
2	T1	All MCs	396 2.4	396 2.4	0.640	48.8	LOS D	13.3	94.7	0.96	0.81	0.96	33.7
3	R2	All MCs	173 3.0	173 3.0	* 0.965	91.4	LOS F	12.9	92.6	1.00	1.11	1.57	22.1
Appro	ach		682 2.5	682 2.5	0.965	52.9	LOS D	13.3	94.7	0.97	0.89	1.11	32.3
East:	Milper	ra Road	(East)										
4	L2	All MCs	161 5.9	161 5.9	0.359	12.8	LOSA	6.4	51.2	0.75	0.73	0.75	44.3
5	T1	All MCs	222 43.1	222 43.1	0.359	47.3	LOS D	6.4	51.2	0.89	0.74	0.89	47.4
6	R2	All MCs	164 9.0	164 9.0	* 0.966	92.5	LOS F	12.4	93.1	1.00	1.09	1.58	24.2
Appro	ach		547 21.9	547 21.9	0.966	50.7	LOS D	12.4	93.1	0.88	0.84	1.05	38.0
North:	Edga	r Street											
7	L2	All MCs	204 5.2	204 5.2	0.943	39.4	LOS C	44.5	319.3	1.00	1.18	1.27	29.4
8	T1	All MCs	440 1.9	440 1.9	* 0.943	75.3	LOS F	44.5	319.3	1.00	1.18	1.27	27.2
9	R2	All MCs	544 2.3	544 2.3	0.749	37.4	LOS C	10.1	72.4	0.99	0.86	1.06	47.7
Appro	ach		1188 2.7	1188 2.7	0.943	51.8	LOS D	44.5	319.3	1.00	1.03	1.17	36.9
West:	Milpe	rra Road	(West)										
10	L2	All MCs	409 4.9	409 4.9	0.350	11.6	LOSA	6.8	50.5	0.36	0.68	0.36	58.6
11	T1	All MCs	200 35.3	200 35.3	* 0.350	49.6	LOS D	6.8	50.5	0.91	0.72	0.91	45.2
12	R2	All MCs	167 1.3	167 1.3	0.482	53.8	LOS D	8.9	62.7	0.94	0.81	0.94	40.5
Appro	ach		777 11.9	777 11.9	0.482	30.5	LOS C	8.9	62.7	0.63	0.72	0.63	50.2
All Ve	hicles		3195 8.2	3195 8.2	0.966	46.7	LOS D	44.5	319.3	0.88	0.89	1.01	39.4

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Parameter Settings dialog (Options tab).

Vehicle movement LOS values are based on average delay per movement.

Intersection and Approach LOS values are based on average delay for all vehicle movements.

Delay Model: SIDRA Standard (Control Delay: Geometric Delay is included).

Queue Model: SIDRA queue estimation methods are used for Back of Queue and Queue at Start of Green.

Gap-Acceptance Capacity Formula: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Arrival Flows used in performance calculations are adjusted to include any Initial Queued Demand and Upstream Capacity Constraint effects.

Pedestrian I	Pedestrian Movement Performance													
Mov	Input	Dem.	Aver.	Level of AV	ERAGE	BACK OF	Prop.	Eff.	Travel	Travel	Aver.			
ID Crossing	Vol.	Flow	Delay	Service	QUE		Que	Stop	Time	Dist.	Speed			
					[Ped	Dist]		Rate						
	ped/h	ped/h	sec		ped	m			sec	m	m/sec			
South: Queen	Street													

P1 Full	50	53	54.3	LOS E	0.2	0.2	0.95	0.95	208.1	200.0	0.96
North: Edgar	Street										
P3 Full	50	53	54.3	LOS E	0.2	0.2	0.95	0.95	208.1	200.0	0.96
West: Milperra	a Road (V	/est)									
P4 Full	50	53	54.3	LOS E	0.2	0.2	0.95	0.95	208.1	200.0	0.96
All Pedestrians	150	158	54.3	LOS E	0.2	0.2	0.95	0.95	208.1	200.0	0.96

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Project: \Trx-server1\TDATA\Synergy\Projects\24\24.343\Modelling\m01v02\24.343m01v02 30 Daisy Street, Revesby - SIDRA Modelling.sip9

SITE LAYOUT

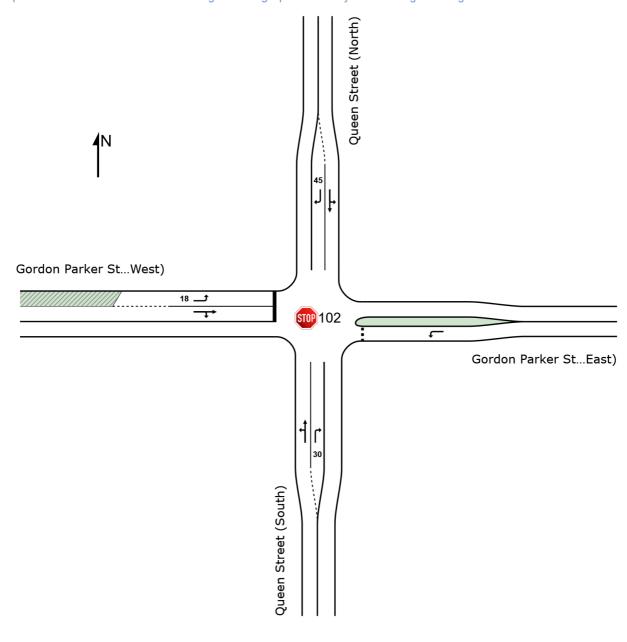
5 Site: 102 [Queen Street/Gordon Parker Street - AM Peak (Site

Folder: 2024 Base)]

Queen Street/Gordon Parker Street Priority-Controlled Intersection

Site Category: (None) Stop (Two-Way)

Layout pictures are schematic functional drawings reflecting input data. They are not design drawings.



👼 Site: 102 [Queen Street/Gordon Parker Street - AM Peak (Site

Folder: 2024 Base)]

Output produced by SIDRA INTERSECTION Version: 9.1.5.224

Queen Street/Gordon Parker Street Priority-Controlled Intersection

Site Category: (None) Stop (Two-Way)

Vehic	cle Mo	ovement	Perfor	man	ıce										
Mov ID	Turn	Mov Class	Dema Flo [Total H veh/h	ows IV][FI	rival ows HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service		Back Of leue Dist] m	Prop. Que	Eff. Stop Rate	Aver. No. of Cycles	Aver. Speed km/h
South	: Que	en Street	(South)												
1	L2	All MCs	160	5.3	160	5.3	0.481	5.6	LOSA	0.0	0.0	0.00	0.10	0.00	50.4
2	T1	All MCs	752	2.7	752	2.7	0.481	0.1	LOSA	0.0	0.0	0.00	0.10	0.00	57.8
3	R2	All MCs	38	0.0	38	0.0	0.039	7.8	LOSA	0.2	1.1	0.53	0.69	0.53	35.2
Appro	ach		949	3.0	949	3.0	0.481	1.3	NA	0.2	1.1	0.02	0.13	0.02	55.8
East:	Gordo	n Parker	Street (E	East)											
4	L2	All MCs	12	9.1	12	9.1	0.018	8.0	LOSA	0.1	0.4	0.51	0.66	0.51	33.7
Appro	ach		12	9.1	12	9.1	0.018	8.0	LOSA	0.1	0.4	0.51	0.66	0.51	33.7
North	: Que	en Street	(North)												
7	L2	All MCs	16	6.7	16	6.7	0.302	5.7	LOSA	0.0	0.0	0.00	0.02	0.00	54.0
8	T1	All MCs	548	3.8	548	3.8	0.302	0.1	LOSA	0.0	0.0	0.00	0.02	0.00	59.5
9	R2	All MCs	76 1	8.1	76 ·	18.1	0.185	14.6	LOS B	0.6	5.1	0.77	0.91	0.78	39.1
Appro	ach		640	5.6	640	5.6	0.302	1.9	NA	0.6	5.1	0.09	0.12	0.09	55.2
West:	Gordo	on Parker	Street (West	t)										
10	L2	All MCs	93 3	8.6	93 3	38.6	0.382	26.0	LOS B	1.3	12.6	0.81	1.10	1.07	32.9
11	T1	All MCs	2	0.0	2	0.0	2.336	1309.4	LOS F	19.0	143.0	1.00	2.09	5.21	1.1
12	R2	All MCs	45	9.3	45	9.3	2.336	1344.7	LOS F	19.0	143.0	1.00	2.09	5.21	1.0
Appro	ach		140 2	8.6	140 2	28.6	2.336	471.7	LOS F	19.0	143.0	0.88	1.44	2.47	3.9
All Ve	hicles		1741	6.0	1741	6.0	2.336	39.4	NA	19.0	143.0	0.12	0.23	0.25	25.1

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Parameter Settings dialog (Options tab).

Vehicle movement LOS values are based on average delay per movement.

Minor Road Approach LOS values are based on average delay for all vehicle movements.

NA (TWSC): Level of Service is not defined for major road approaches or the intersection as a whole for Two-Way Sign Control (HCM LOS rule).

Two-Way Sign Control Capacity Model: SIDRA Standard.

Delay Model: SIDRA Standard (Control Delay: Geometric Delay is included).

Queue Model: SIDRA queue estimation methods are used for Back of Queue and Queue at Start of Gap.

Gap-Acceptance Capacity Formula: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Arrival Flows used in performance calculations are adjusted to include any Initial Queued Demand and Upstream Capacity Constraint effects.

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Project: \\Tfx-server1\TDATA\Synergy\Projects\24\24.343\Modelling\m01v02\24.343m01v02 30 Daisy Street, Revesby - SIDRA Modelling.sip9

👼 Site: 102 [Queen Street/Gordon Parker Street - AM Peak (Site

Folder: 2024 Base + Development (v02))]

Output produced by SIDRA INTERSECTION Version: 9.1.5.224

Queen Street/Gordon Parker Street Priority-Controlled Intersection

Site Category: (None) Stop (Two-Way)

Vehic	le Mo	ovemen	t Perform	ance										
Mov ID	Turn	Mov Class	Deman Flow [Total HV veh/h %	s FI	rival ows HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service		Back Of ueue Dist] m	Prop. Que	Eff. Stop Rate	Aver. No. of Cycles	Aver. Speed km/h
South	: Que	en Street	(South)											
1	L2	All MCs	160 5.	3 160	5.3	0.481	5.6	LOSA	0.0	0.0	0.00	0.10	0.00	50.4
2	T1	All MCs	752 2.	7 752	2.7	0.481	0.1	LOSA	0.0	0.0	0.00	0.10	0.00	57.8
3	R2	All MCs	38 0.	38	0.0	0.039	7.8	LOSA	0.2	1.1	0.53	0.69	0.53	35.2
Appro	ach		949 3.	949	3.0	0.481	1.3	NA	0.2	1.1	0.02	0.13	0.02	55.8
East:	Gordo	n Parker	Street (Ea	st)										
4	L2	All MCs	12 9.	1 12	9.1	0.018	8.0	LOSA	0.1	0.4	0.51	0.66	0.51	33.7
Appro	ach		12 9.	1 12	9.1	0.018	8.0	LOSA	0.1	0.4	0.51	0.66	0.51	33.7
North	Que	en Street	(North)											
7	L2	All MCs	16 6.	7 16	6.7	0.302	5.7	LOS A	0.0	0.0	0.00	0.02	0.00	54.0
8	T1	All MCs	548 3.	3 548	3.8	0.302	0.1	LOSA	0.0	0.0	0.00	0.02	0.00	59.5
9	R2	All MCs	76 18.	1 76 ·	18.1	0.185	14.6	LOS B	0.6	5.1	0.77	0.91	0.78	39.1
Appro	ach		640 5.	640	5.6	0.302	1.9	NA	0.6	5.1	0.09	0.12	0.09	55.2
West:	Gordo	on Parker	Street (W	est)										
10	L2	All MCs	96 40.	7 96 4	40.7	0.403	26.9	LOS B	1.4	13.7	0.82	1.11	1.10	32.5
11	T1	All MCs	2 0.) 2	0.0	2.336	1309.4	LOS F	19.0	143.0	1.00	2.09	5.21	1.1
12	R2	All MCs	45 9.	3 45	9.3	2.336	1344.7	LOS F	19.0	143.0	1.00	2.09	5.21	1.0
Appro	ach		143 30.	143	30.1	2.336	462.4	LOS F	19.0	143.0	0.88	1.43	2.46	4.0
All Ve	hicles		1744 6.	2 1744	6.2	2.336	39.4	NA	19.0	143.0	0.12	0.24	0.25	25.1

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Parameter Settings dialog (Options tab).

Vehicle movement LOS values are based on average delay per movement.

Minor Road Approach LOS values are based on average delay for all vehicle movements.

NA (TWSC): Level of Service is not defined for major road approaches or the intersection as a whole for Two-Way Sign Control (HCM LOS rule).

Two-Way Sign Control Capacity Model: SIDRA Standard.

Delay Model: SIDRA Standard (Control Delay: Geometric Delay is included).

Queue Model: SIDRA queue estimation methods are used for Back of Queue and Queue at Start of Gap.

Gap-Acceptance Capacity Formula: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Arrival Flows used in performance calculations are adjusted to include any Initial Queued Demand and Upstream Capacity Constraint effects.

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Project: \\Tfx-server1\TDATA\Synergy\Projects\24\24.343\Modelling\m01v02\24.343m01v02 30 Daisy Street, Revesby - SIDRA Modelling.sip9

5 Site: 102 [Queen Street/Gordon Parker Street - PM Peak (Site

Folder: 2024 Base)]

Output produced by SIDRA INTERSECTION Version: 9.1.5.224

Queen Street/Gordon Parker Street Priority-Controlled Intersection

Site Category: (None) Stop (Two-Way)

Vehi	cle Mo	ovement	Perfo	rma	nce										
Mov ID	Turn	Mov Class		lows HV]		rival lows HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service		Back Of leue Dist] m	Prop. Que	Eff. Stop Rate	Aver. No. of Cycles	Aver. Speed km/h
South	n: Que	en Street	(South))											
1	L2	All MCs	39	13.5	39	13.5	0.297	5.7	LOSA	0.0	0.0	0.00	0.04	0.00	49.3
2	T1	All MCs	525	2.4	525	2.4	0.297	0.0	LOSA	0.0	0.0	0.00	0.04	0.00	59.1
3	R2	All MCs	35	0.0	35	0.0	0.045	9.1	LOSA	0.2	1.2	0.60	0.76	0.60	33.7
Appro	oach		599	3.0	599	3.0	0.297	0.9	NA	0.2	1.2	0.03	0.08	0.03	57.1
East:	Gordo	n Parker	Street ((East)										
4	L2	All MCs	98	0.0	98	0.0	0.173	9.5	LOSA	0.6	4.1	0.62	0.82	0.62	32.6
Appro	oach		98	0.0	98	0.0	0.173	9.5	LOSA	0.6	4.1	0.62	0.82	0.62	32.6
North	: Que	en Street	(North)												
7	L2	All MCs	37	2.9	37	2.9	0.388	5.6	LOSA	0.0	0.0	0.00	0.03	0.00	54.2
8	T1	All MCs	700	1.4	700	1.4	0.388	0.1	LOSA	0.0	0.0	0.00	0.03	0.00	59.2
9	R2	All MCs	34	25.0	34 2	25.0	0.044	9.1	LOSA	0.2	1.4	0.56	0.72	0.56	43.1
Appro	oach		771	2.5	771	2.5	0.388	0.8	NA	0.2	1.4	0.02	0.06	0.02	57.7
West	Gordo	on Parker	Street	(Wes	st)										
10	L2	All MCs	151	2.8	151	2.8	0.251	13.0	LOSA	1.0	7.0	0.57	1.01	0.61	41.4
11	T1	All MCs	7	0.0	7	0.0	2.975	1846.9	LOS F	45.4	334.4	1.00	2.98	8.49	0.8
12	R2	All MCs	97	6.5	97	6.5	2.975	1887.8	LOS F	45.4	334.4	1.00	2.98	8.49	0.7
Appro	oach		255	4.1	255	4.1	2.975	778.8	LOS F	45.4	334.4	0.75	1.81	3.83	2.4
All Ve	hicles		1722	2.8	1722	2.8	2.975	116.4	NA	45.4	334.4	0.17	0.37	0.63	11.8

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Parameter Settings dialog (Options tab).

Vehicle movement LOS values are based on average delay per movement.

Minor Road Approach LOS values are based on average delay for all vehicle movements.

NA (TWSC): Level of Service is not defined for major road approaches or the intersection as a whole for Two-Way Sign Control (HCM LOS rule).

Two-Way Sign Control Capacity Model: SIDRA Standard.

Delay Model: SIDRA Standard (Control Delay: Geometric Delay is included).

Queue Model: SIDRA queue estimation methods are used for Back of Queue and Queue at Start of Gap.

Gap-Acceptance Capacity Formula: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Arrival Flows used in performance calculations are adjusted to include any Initial Queued Demand and Upstream Capacity Constraint effects.

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Project: \Tfx-server1\TDATA\Synergy\Projects\24\24.343\Modelling\m01v02\24.343m01v02 30 Daisy Street, Revesby - SIDRA Modelling.sip9

o Site: 102 [Queen Street/Gordon Parker Street - PM Peak (Site

Folder: 2024 Base + Development (v02))]

Output produced by SIDRA INTERSECTION Version: 9.1.5.224

Queen Street/Gordon Parker Street Priority-Controlled Intersection

Site Category: (None) Stop (Two-Way)

Vehic	cle Mo	ovement	Perfo	rma	nce										
Mov ID	Turn	Mov Class	FI			rival lows HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service		Back Of leue Dist] m	Prop. Que	Eff. Stop Rate	Aver. No. of Cycles	Aver. Speed km/h
South	ı: Que	en Street	(South))											
1	L2	All MCs	39	13.5	39	13.5	0.297	5.7	LOSA	0.0	0.0	0.00	0.04	0.00	49.3
2	T1	All MCs	525	2.4	525	2.4	0.297	0.0	LOSA	0.0	0.0	0.00	0.04	0.00	59.1
3	R2	All MCs	35	0.0	35	0.0	0.045	9.1	LOSA	0.2	1.2	0.60	0.76	0.60	33.7
Appro	oach		599	3.0	599	3.0	0.297	0.9	NA	0.2	1.2	0.03	0.08	0.03	57.1
East:	Gordo	n Parker	Street ((East)										
4	L2	All MCs	98	0.0	98	0.0	0.173	9.5	LOSA	0.6	4.1	0.62	0.82	0.62	32.6
Appro	oach		98	0.0	98	0.0	0.173	9.5	LOSA	0.6	4.1	0.62	0.82	0.62	32.6
North	: Que	en Street	(North)												
7	L2	All MCs	37	2.9	37	2.9	0.388	5.6	LOSA	0.0	0.0	0.00	0.03	0.00	54.2
8	T1	All MCs	700	1.4	700	1.4	0.388	0.1	LOSA	0.0	0.0	0.00	0.03	0.00	59.2
9	R2	All MCs	34	25.0	34	25.0	0.044	9.1	LOSA	0.2	1.4	0.56	0.72	0.56	43.1
Appro	oach		771	2.5	771	2.5	0.388	0.8	NA	0.2	1.4	0.02	0.06	0.02	57.7
West:	Gordo	on Parker	Street	(Wes	st)										
10	L2	All MCs	154	2.7	154	2.7	0.256	13.1	LOSA	1.0	7.2	0.57	1.01	0.62	41.3
11	T1	All MCs	7	0.0	7	0.0	2.975	1846.9	LOS F	45.4	334.4	1.00	2.98	8.49	0.8
12	R2	All MCs	97	6.5	97	6.5	2.975	1887.8	LOS F	45.4	334.4	1.00	2.98	8.49	0.7
Appro	oach		258	4.1	258	4.1	2.975	769.5	LOS F	45.4	334.4	0.75	1.81	3.80	2.4
All Ve	hicles		1725	2.7	1725	2.7	2.975	116.2	NA	45.4	334.4	0.17	0.37	0.63	11.8

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Parameter Settings dialog (Options tab).

Vehicle movement LOS values are based on average delay per movement.

Minor Road Approach LOS values are based on average delay for all vehicle movements.

NA (TWSC): Level of Service is not defined for major road approaches or the intersection as a whole for Two-Way Sign Control (HCM LOS rule).

Two-Way Sign Control Capacity Model: SIDRA Standard.

Delay Model: SIDRA Standard (Control Delay: Geometric Delay is included).

Queue Model: SIDRA queue estimation methods are used for Back of Queue and Queue at Start of Gap.

Gap-Acceptance Capacity Formula: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Arrival Flows used in performance calculations are adjusted to include any Initial Queued Demand and Upstream Capacity Constraint effects.

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