



CARPARK CERTIFICATION OF AN EXPANSION OF A LIQUID WASTE PROCESSING FACILITY

14-16 Kiora Crescent in Yennora

Prepared for: Enviro Waste Services Group

N1915887A (Version 1b)

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1. INTRODUCTION

ML Traffic Engineers was commissioned by Enviro Waste Services Group to prepare a car parking certification report of the proposed liquid waste processing facility at 14-16 Kiora Crescent in Yennora.

Vehicle access and egress to the car parking areas is via Kiora Crescent.

Parking is provided on the ground level.

Reference is made to AS2890.1 (2002) and AS2890.2 (2018) and Council's Development Control Plan for compliance.

2. DRIVEWAY

The details of the driveway from Kiora Crescent to ground level parking area are as follows from the perspective of the inbound movement for descriptive purposes only:

- The width of the two-way driveway is 6.1 metres at the property line
- Gradients are less than 5 percent.

3. CAR SPACES

The details of the car parking area are as follows:

- The general 90-degree car spaces are 2.4 metres wide and 5.4 metres long
- Car space adjacent to the wall has one metre clearance.
- Wheel stop with compliant setbacks are provided within the car space.

4. TRUCK PARKING

Truck parking is in the parking aisle and within the building. Truck entry is forward in and forward out. The driveway and site is at the cul-de-sac end of Kiora Crescent and where there is low vehicle traffic volumes as well as low pedestrian volumes. The largest truck is a 10 metre long rigid truck.

Given the truck entry and exit circumstances, it is recommended that staff be trained in traffic control and a traffic control plan be prepared and implemented to manage truck reverse movements.

5. SWEEP PATHS

Swept Paths analysis has been done using 10 metres long truck to confirm that the vehicle movements are adequate. The following Swept Paths have been performed:

- 10 metres long truck forward inbound and forward out

The swept paths show adequate manoeuvrability.

The swept paths are provided in Appendix A.

6. VEHICLE SIGHT DISTANCE

The car driver's sight distance requirement to enter the external road is stated in Figure 3.2 of AS2890.1.

The sight distance varies according to the speed of the external road. Kiora Crescent has a default speed limit of 50km/hr.

The minimum sight distance required is 45 metres. The minimum vehicle sight distance is met.

The pedestrian sight distance triangle is met as set out in Figure 3.3 of AS2890.1 with convex safety mirrors.

7. TRUCK SIGHT DISTANCE

The car driver's sight distance requirement to enter the external road is stated in Figure 3. of AS2890.2.

The sight distance varies according to the speed of the external road. Kiora Crescent has a default speed limit of 50km/hr.

The minimum sight distance required is 69 metres. Site measurements showed that the minimum sight distance looking left or right is met without permanent obstructions (for a forward out movement_.

The pedestrian sight triangle (as set out in Figure 3.3) is met as well.

8. CONCLUSIONS AND RECOMMENDATIONS

The car parking area and driveway is overall compliant with Australian Standards and Council's DCP.