

Client:



Contractor:

WALLA WALLA - AUSTRALIA
DILAPIDATION SURVEY REPORT

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WAL-GRS-PM-RPT-0001

Dilapidation Survey Report

Project: WALLA WALLA SOLAR FARM

AUTHOR	APPROVED	REV.	DATE	REASON OF ISSUE
LR	DT	A1	08/09/2022	FA



**ROAD CONDITION ASSESSMENT
(BEFORE CONSTRUCTION)**

WALLA WALLA SOLAR FARM

(Benambra Road, between the Olympic Highway intersection and a railway crossing)

(Schneiders Road between Benambra Road and the end of the plot)

Prepared for

GRANSOLAR


6 SEPTEMBER 2022

DOCUMENT REGISTER

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Prepared by Luke Rytenskild, Dare Janzekovic

Document History

Version	Version date	Details	Reviewed and Authorised	
			Name / Position	Signature
1	6 September 2022	PRIOR TO CONSTR	Luke Rytenskild Director RPEQ 6293	

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1.0 INTRODUCTION

1.1 Background

Rytenskild Traffic Engineering (RTE) has been engaged by Gransolar to carry out an assessment of existing road surface conditions for the Walla Walla Solar Farm project at Walla Walla.

The report is required to satisfy issues the following condition of approval:

Road Maintenance

8. The Applicant must:
 - (a) undertake an independent dilapidation survey to assess the:
 - existing condition of Benambra Road on the transport route **including the intersection with the Olympic Highway** and the crossing of Schneiders Road, prior to construction, upgrading or decommissioning works; and
 - condition of Benambra Road on the transport route **including the intersection with the Olympic Highway** and the crossing of Schneiders Road, following construction, upgrading or decommissioning works;
 - (b) repair Benambra Road on the transport route **including the intersection with the Olympic Highway** and the crossing of Schneiders Road if dilapidation surveys identify that the road has been damaged during construction, upgrading or decommissioning works;
- in consultation with the relevant roads authority, to the satisfaction of the **Planning Secretary**.

This report is a “pre-project” conditions assessment with the inspection carried out on 25 August 2022.

1.2 Study area

In accordance with the approval, the conditions assessment was carried out for the following sections of road:

- Benambra, between the Olympic Highway and Cummings Road intersections.
- Schneiders Road from Benambra Road for a length of approximately 1.7 kilometres

The assessment included the Olympic Highway / Benambra Road intersection.

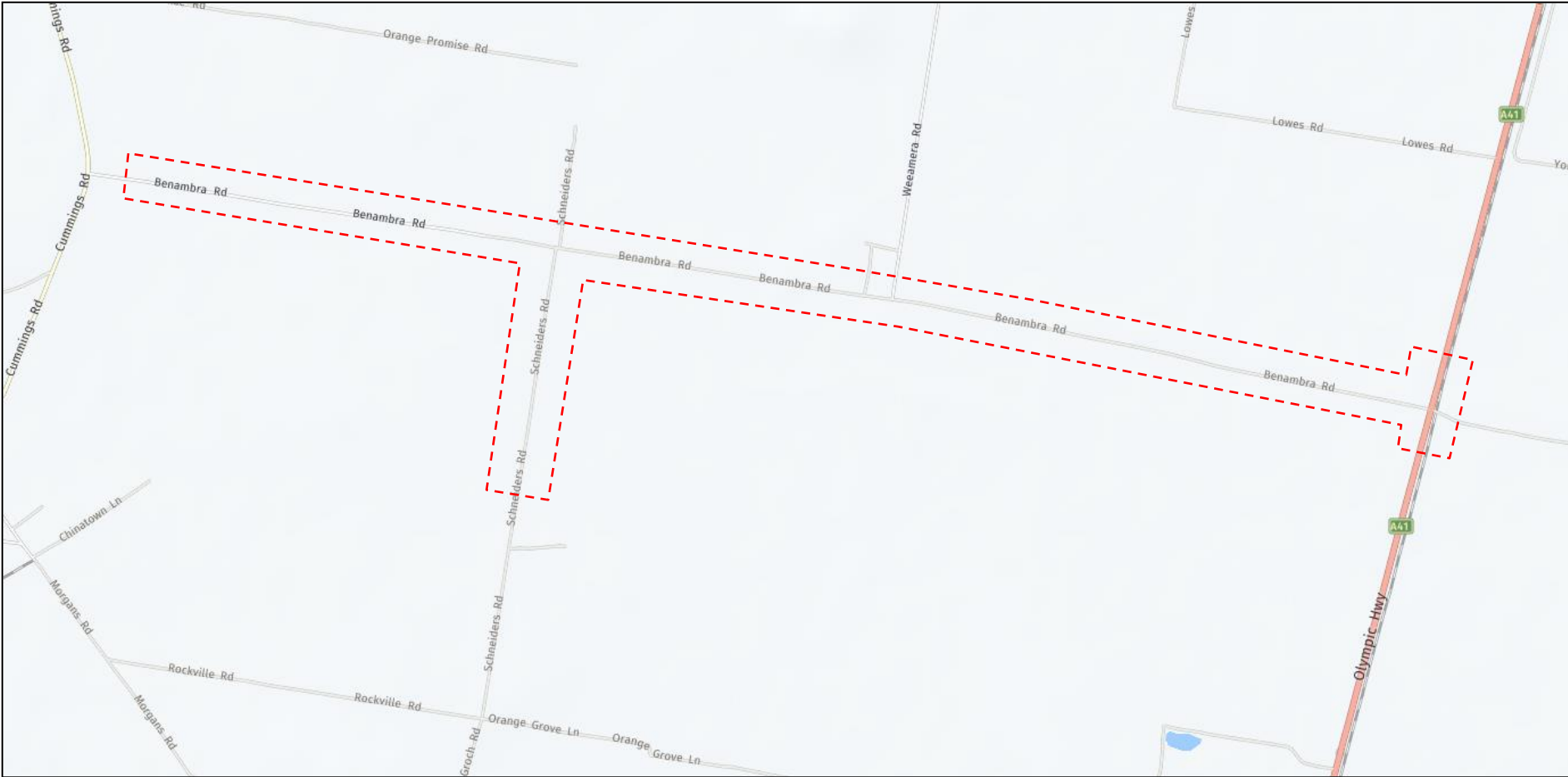


FIGURE 1.1 – APPROXIMATE STUDY AREA

2.0 SURVEYED PAVEMENT CONDITION

2.1 Method

The existing condition of the section of road in the study area have been inspected with significant points of pavement failure located and photographed.

A photographic survey has been carried out for the route, with chainage points and points of pavement failure tagged from the vehicle tripmeter. Points of interest and their location were noted.

2.2 Observed pavement condition

The existing pavement condition was inspected by Luke Rytenskild RPEQ in August 2022. These conditions are described as follows:

Shoving	Shoving: Bulging and horizontal deformation of the road surface – generally occurs in areas of high shear stress. Plastic flow: Deformation in asphalt of asphalt surfaces.
Edge break	Occurs along the unsupported edges of asphalt or sprayed seal surfaces where the surface of an unsealed shoulder is below the level of the adjacent pavement surface. Seal/shoulder interface is directly trafficked resulting in abrasion and shear failure of pavement edge.
Potholing	A steep-sided or bowl-shaped cavity extending into layers below the wearing course.
Patches	A repaired section of pavement ranging in size from less than 1 m ² to many linear metres of a half or even full pavement width.

Benambra Road generally has a sealed pavement width of 7 metres with grass / gravel shoulders. The road pavement is generally in good condition, with isolated sections of failure, mainly pot holing.

An unsealed section from the Boral access to a point to the west of Schneiders Road is subject to regular rutting and pot holing.

Schneiders Road is unsealed and subject to regular rutting and pot holing. At the time of inspection some sections of the road where difficult to navigate.

2.3 Photographic imagery

Images of the road conditions are shown in Appendix A. Images were taken in the following sequence:

- Along Benambra Road, commencing from the Olympic Highway intersection and finishing at the Cummings Road intersection.
- Along Schneiders Road commencing from Benambra Road and finishing at a point 1.7 kilometres to the south.
- At the Olympic Highway / Benambra Road intersection.

Prepared by



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- APPENDIX A - TYPICAL ROAD CONDITIONS (NORTHERN SIDE)
- APPENDIX B - SPECIFIC AREAS OF PAVEMENT FAILURE (NORTHERN SIDE)
- APPENDIX C - TYPICAL ROAD CONDITIONS (SOUTHERN SIDE)
- APPENDIX D - SPECIFIC AREAS OF PAVEMENT FAILURE (SOUTHERN SIDE)

APPENDIX A – IMAGES OF ROAD PAVEMENT CONDITIONS

IMAGES TAKEN AT REGULAR INTERVALS OF APPROX 30m, ALONG BENAMBRA ROAD COMMENCING AT THE EASTERN END (OLYMPIC HWY)





0.6 km



0.7 km



0.9 km



1.0 km



1.1 km



1.3 km



1.4 km



1.6 km



1.7km



2.0 km



2.3 km



3.1km



3.5 km





3.7 km



















4.7 km















5.7 km









5.9 km



6.1 km







6.3 km







6.6 km











7.0 km





7.2 km





7.5 km





7.6 km





7.7 km











8.0 km







8.1 km







8.3 km







8.4 km





8.5 km





8.7 km



8.8 km





CUMMINGS ROAD INTERSECTION



SCHNEIDERS ROAD

0.0 km





0.2 km













0.6 km







0.8 km





1.0 km







1.3 km







1.6 km







2.0 km



0.0 km



0.4 km



PLANNED SITE ACCESS







OLYMPIC HIGHWAY INTERSECTION





















