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Shaun Carrey  
Project Manager  
Woolworths Group  
Via email: [scarrey@woolworths.com.au](mailto:scarrey@woolworths.com.au)

## **RE: Odour Assessment – Proposed development at 495 Fourth Avenue, Austral**

Dear Shaun,

Todoroski Air Sciences has investigated the potential for odour impacts upon the proposed neighbourhood shopping development at 495 Fourth Avenue, Austral New South Wales (NSW) (hereafter referred to as the Project). The focus of this letter report is to consider the potential for odour impacts due to nearby poultry operations to result in any adverse odour impacts upon the Project site.

### **Background**

The Project site is located within an area designated as a future urban release area in the South West Growth Centre of Sydney known as the Austral Precinct. The rezoning of this area will change the current makeup of the area from low density rural properties and activities including poultry farms and market gardens, to a more urbanised setting with higher density residential housing.

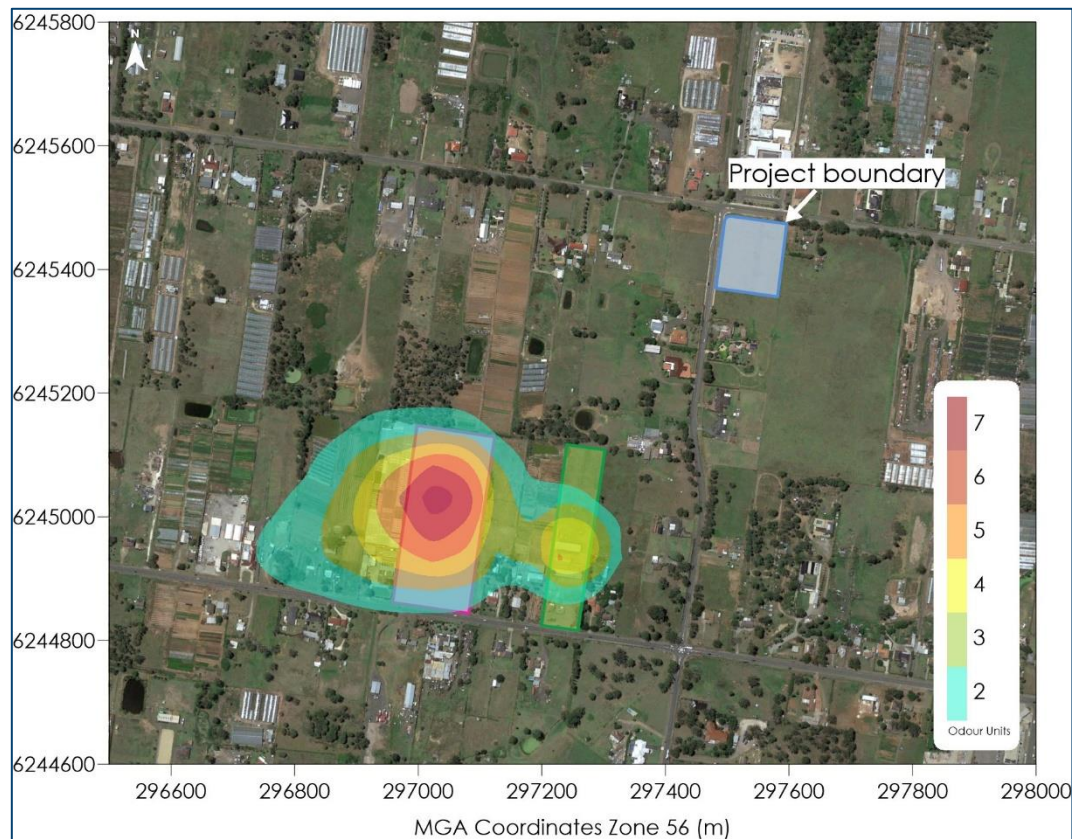
### **Assessment of potential odour impacts**

In order to evaluate the potential odour impacts at the Project site, we have reviewed odour dispersion modelling predictions from nearby identified poultry operations, which were previously prepared for other developments, to infer the likelihood of odour impact at the site.

The potential odour impacts associated with the poultry operations at 545-555 Fifteenth Avenue and 515 Fifteenth Avenue have been assessed in the *Odour Impact Assessment 530-540 Fifteenth Avenue, Austral* (Todoroski Air Sciences, 2023). The dispersion modelling predictions for the modelled poultry farm is presented as an isopleth diagram showing the 99<sup>th</sup> percentile nose-response ground level odour concentrations in **Figure 1** with the Project boundary overlaid in the figure (shown as blue outline) for reference.

The modelling prediction show no significant adverse odour impacts would arise at the Project site and that the predicted levels of odour would be below the most stringent NSW Environment Protection Authority (EPA) criterion of 2 OU (NSW EPA, 2022).

It has come to our understanding that separate development applications (DA-995/2020 and DA-1333/2021) have been approved by Liverpool Council to remove the existing structures at 545-555 Fifteenth Avenue and 515 Fifteenth Avenue to allow for construction of new developments. Therefore, any potential odour from this source would no longer be a concern and would not impact on the site in the future.



Source: Todoroski Air Sciences, 2023

**Figure 1: Predicted 99<sup>th</sup> percentile nose-response average ground level odour concentrations (OU) - poultry farms assumed to be operating**

### Summary and conclusions

Dispersion modelling of potential odour impacts associated with the nearby poultry farms were reviewed and indicate that the predicted odour levels are below the criterion of 2 OU at the Project site and thus the Project would be suitable for development.

Given the cessation of operations at the poultry farms located on 545-555 Fifteenth Avenue and 515 Fifteenth Avenue, it is improbable that any odour impacts will affect the Project site.

Please feel free to contact us if you would like to clarify any aspect of this report.

Yours faithfully,  
Todoroski Air Sciences

Philip Henschke (CAQP)

**References**

NSW EPA (2022)

"Approved Methods for the Modelling and Assessment of Air Pollutants in New South Wales", NSW Environment Protection Authority, August 2022.

Todoroski Air Sciences (2023)

"Odour Impact Assessment 530-540 Fifteenth Avenue, Austral", Todoroski Air Sciences, February 2023.

