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## **Vipac Engineers & Scientists**

Scentre Group

# **Section 75W Modification (MOD1) to the Approved Commercial Tower Building Envelope Concept Approval Major Project MP10\_0068 Westfield Shopping Centre Parramatta Odour Assessment**

<b>Report Title: Odour Assessment</b> <b>Job Title: Section 75W Modification (MOD1) to the Approved Commercial Tower Building Envelope Concept Approval Major Project MP10_0068 Westfield Shopping Centre Parramatta</b>														
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## **EXECUTIVE SUMMARY**

Vipac Engineers and Scientists Ltd (Vipac) undertook an odour assessment on behalf of Scentre Design & Construction of their proposed re-development of the Westfield Parramatta Project. The assessment included a consideration of potential odour impacts from future tenants. Recommendations are made for design and operation requirements that will ensure odour pollution is acceptable.

Key concerns for odour pollution are waste management and ventilation systems. Waste management should be addressed by a well-implemented waste management plan. Ventilation systems should be designed appropriately for the type of odour produced.

No further odour management measures have been identified or recommended.



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## 1 INTRODUCTION

Vipac Engineers and Scientists Ltd (Vipac) undertook an odour assessment on behalf of Westfield Design & Construction of their proposed re-development of the Westfield Parramatta Project (Westfield Parramatta Redevelopment Odour Assessment, hereafter referred to as the Original Odour Assessment). The application for the Project including an additional level of retail, a high-rise office building and additional car parking, to be developed in 2 stages was submitted in 2012 and was subsequently approved

The odour assessment undertaken for the original application included a consideration of potential odour impacts from future tenants. Recommendations were made for design and operation requirements to ensure odour pollution is acceptable.

Westfield Design & Construction, now known as Scentre Design & Construction, propose modifications under S75W to the approved part 3A application (MP10\_0068) of the re-development project including relocation of the approved commercial building envelope and increase of the commercial GFA and tower height. Vipac has therefore been commissioned to:

- identify and review any additional issues in relation to odour impacts that the amendments may potentially contribute to; and
- revise the odour assessment report to address the additional issues, as required.

## 2 PROJECT DESCRIPTION

### 2.1 LOCATION

The proposed development site is located centrally in Parramatta, Sydney. The surrounding areas consist of residential and commercial land uses.



Figure 2-1: Site Location

## 2.2 DESCRIPTION

The proposed modification (Figure 2-2) seeks to:

- Relocate the approved commercial building envelope further west;
- Reduce to Argyle St setback to 3m;
- Increase the Commercial GFA of the building from 35,000sqm to 112,000sqm;
- Increase the height of the commercial tower from 25 to 46 storeys (120m to 210m above ground level);
- Relocate the commercial tower lobby and entry from Church St to Argyle St; and
- Increase the floor plate size of commercial tower.

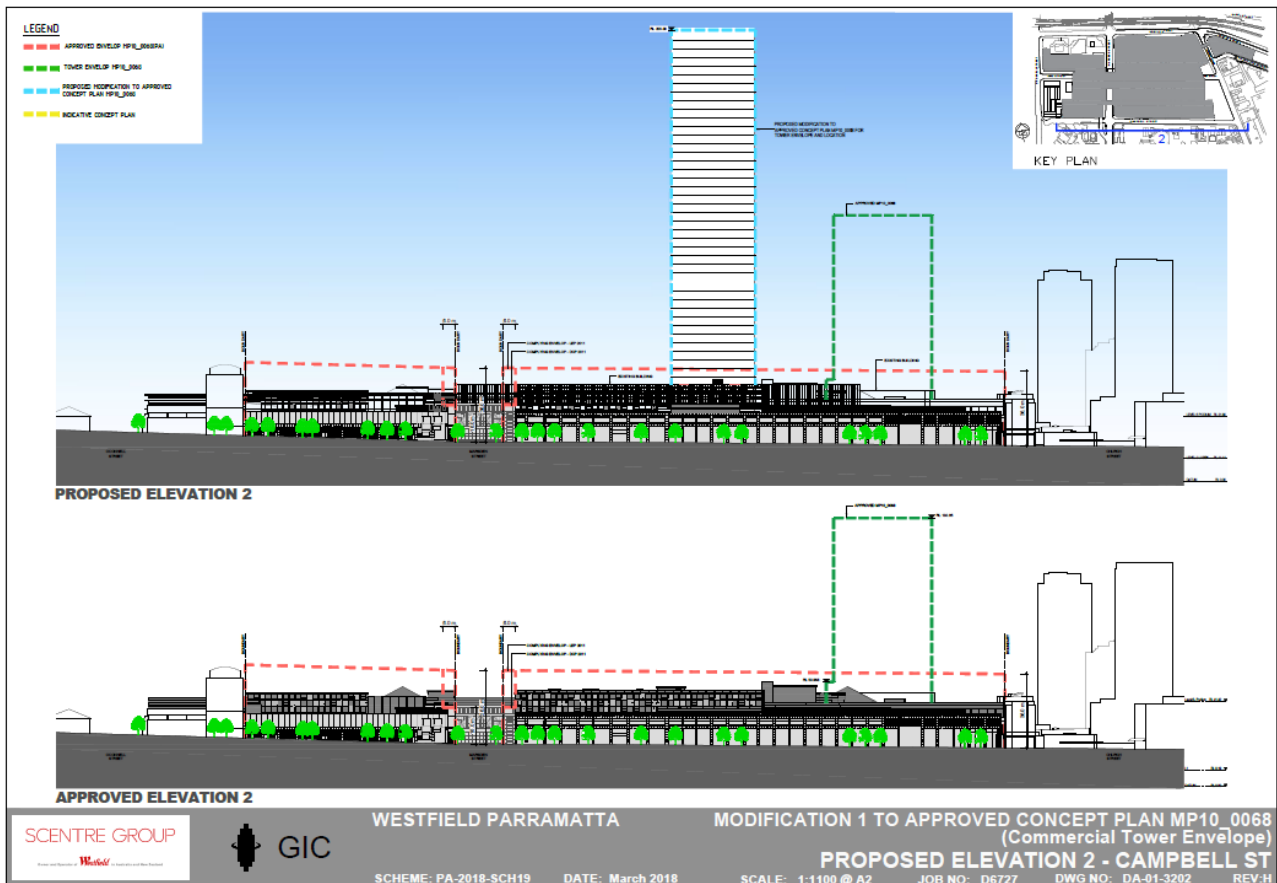


Figure 2-2: Proposed modifications

### 3 SUMMARY OF ORIGINAL ODOUR ASSESSMENT

The original odour assessment may be summarised as follows:

- Odour from cooking and waste was identified of primary concern for the development.
- Residential residences to the south and west of the development site are considered to be the most sensitive receptors.
- An assessment of dispersion meteorology identified northerly winds as most capable of carrying pollutants to sensitive receptors. As these winds occur less than 10% of the time, pollutant concentrations at the southern residential receptors were expected to be generally low.
- The assessment recommended compliance with AS 1668.2-2002 "The use of ventilation and air conditioning in buildings PART2: Ventilation design for indoor air containment control", which sets out design requirements for air handling systems for the control of odours from cooking operation.
- Recommendations for an environmental management plan were provided for management of odour.

### 4 CONCLUSIONS & RECOMMENDATIONS

The proposed modifications (Section 2.2) are not considered to affect the potential odour impacts from the planned re-development on any neighbouring receptors. As outlined in the original odour assessment, key concerns for odour pollution are waste management and ventilation systems. Waste management should be addressed by a well-implemented waste management plan. Ventilation systems should be designed appropriately for the type of odour produced.

No further odour management measures have therefore been identified or recommended.