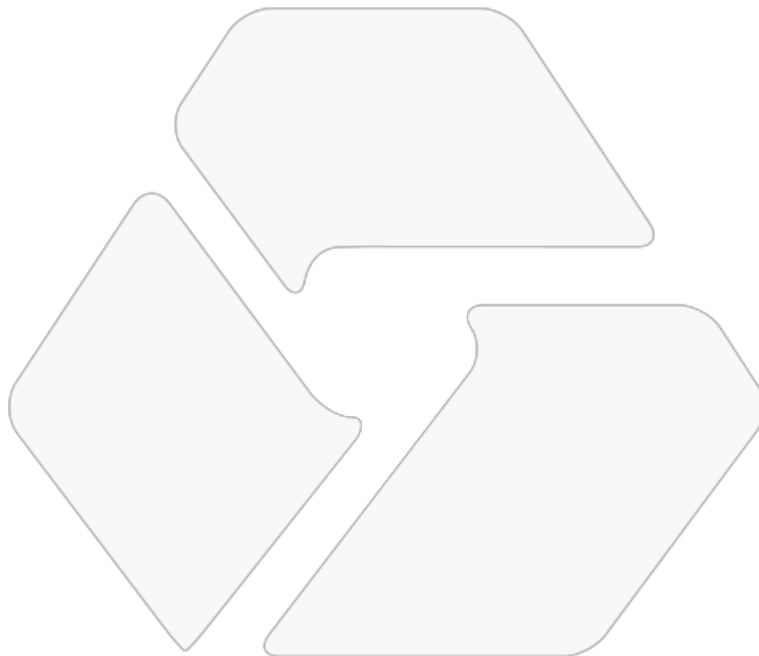




TREVOR R HOWSE

EXTERNAL LIGHTING ASSESSMENT



PREPARED FOR

Endemol Shine Australia

REGARDING



BUILDING REGULATIONS • FIRE SAFETY ENGINEERING • LEGAL SERVICES

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Report Register

The following report register documents the development and issue of this report and project as undertaken by this office, in accordance with the *Quality Assurance* policy of Trevor R Howse Pty Limited.

Our Ref.	Issue No.	Remarks	Issue Date
J22063(c)	1	External lighting assessment issued for inclusion in Development Application	10.5.2022

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Contents Page

Summary & Conclusion	4
1.1 Summary	4
1.2 Conclusion.....	5
Introduction.....	6
2.1 General	6
2.2 Report Purpose.....	6
2.3 Report Basis.....	6
2.4 Exclusions	7
Site Description.....	8
3.1 General	8
3.2 Subject and Adjoining Properties.....	8
Proposed Development.....	10
4.1 Description of proposal.....	10
4.2 External lighting layout	11
4.2 External lighting equipment	12
Environmental Assessment	13
5.1 General	13
5.2 Assessment.....	13
Appendices.....	14
A.1 External lighting specification	14

Summary & Conclusion

1.1 Summary

This “External Lighting Assessment” has been prepared at the request of Endemol Shine Australia (ESA).

It relates to the proposed installation of external lighting in and around the Sydney Showground, as part of forthcoming series of the [REDACTED]

This event is a ‘temporary event’. Bump-in is proposed to occur [REDACTED]

Figure 1.1.1 – Sydney Showground area



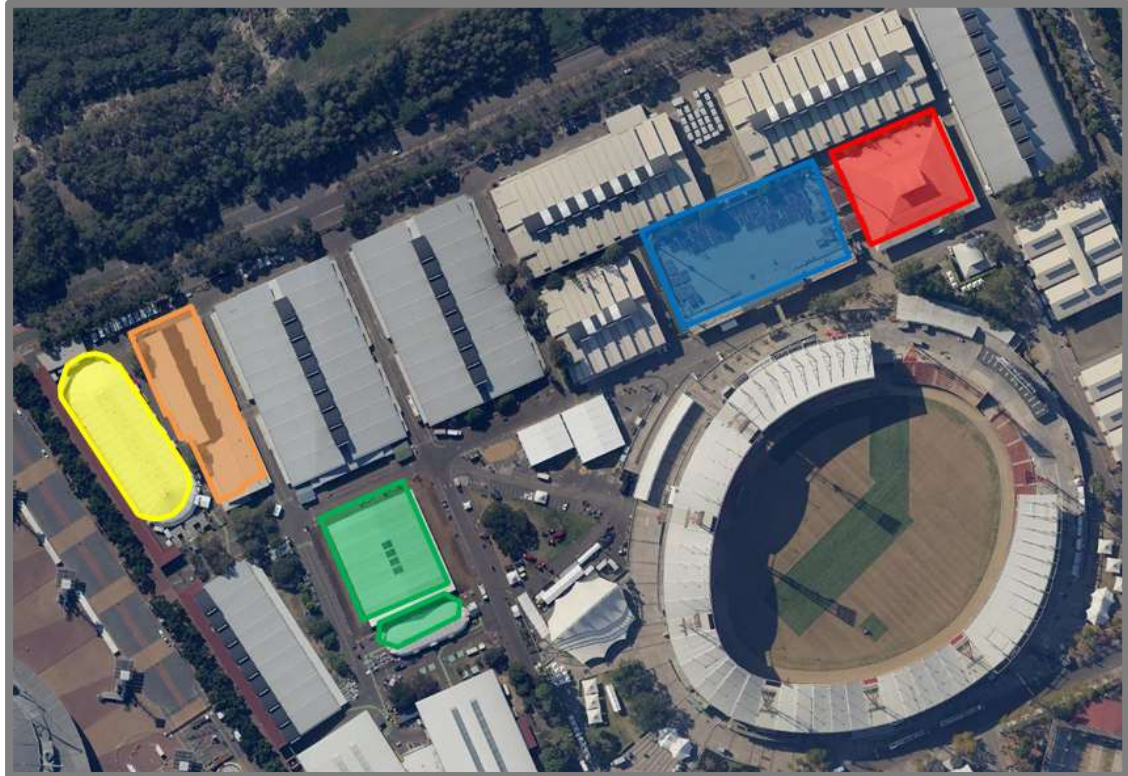
The purpose of this External Lighting Assessment is to –

- Detail the general extent and type of external lighting proposed for the temporary event; and

- Assess the potential environmental impact of that lighting.

The extent of proposed site area is depicted in figure 1.1.2 below.

Figure 1.1.2 – proposed site plan



1.2

Arising from the assessment contained within this report, it is concluded that the proposed external lighting has no negative affect on any residential buildings or fauna in nearby vegetation.

The proposed lighting is wholly consistent with that used by other fixed structures in the vicinity of the Sydney Showground (i.e. ANZ Stadium); shall be primarily directed sideways or downwards; and shall be prevented from spilling out of the Showground by the surrounding structures in the same space.

Introduction

2.1 General

This “External Lighting Assessment” has been prepared at the request of Endemol Shine Australia (ESA).

It relates to the proposed installation of external lighting in and around the Sydney Showgrounds, as part of forthcoming series of the Big Brother television production.

More specifically, the proposed temporary event involves –

- The construction of a [REDACTED]
- The occupation and use of the McIntosh Pavilion for production staff, some filming, and workshop;
- The erection of a mock-entry / exit in the Hordern Arena area (solely for filming of the ‘entry’ of housemates into the [REDACTED])
- [REDACTED]

[REDACTED]

2.2 Report Purpose

The purpose of this External Lighting Assessment is to –

- Detail the extent and type of external lighting proposed for the temporary event; and
- Assess the potential environmental impact of that lighting.

2.3 Report Basis

The content of this External Lighting Assessment reflects and relies upon –

- Site plan provided by the client;
- Statement of Environmental Effects document, reference J22063-1, and dated 10 May, 2022; and

- Typical lighting fixtures schedule prepared by Mitech Design; and
- Australian Standard 4282—1997 (Control of the obtrusive effects of outdoor lighting).

2.4 Exclusions

It is conveyed that this External Lighting Assessment does not relieve any other party, including but not limited to architect, structural engineer, services consultant, authorities, and builder, from their responsibility to ensure the design and construction of the proposed works complies with the relevant Codes and Standards.

Site Description

3.1 General

The subject site is located at the intersection of Olympic Boulevard and Kevin Coombs Avenue, Sydney Olympic Park, and is legally described as–

- Lot 1121, DP 1142724

The aforementioned allotment spans the majority of the Sydney Showgrounds space and contains a variety of elements, namely –

- Fixed, permanent buildings;
- Temporary buildings / structures;
- Internal roadways; and
- General site infrastructure.

3.2 Subject and Adjoining Properties

With reference to diagram 3.2.1 below, the subject site is bounded by–

- Olympic Boulevard (to the west);
- Kevin Coombs Avenue (to the north);
- Australia Avenue (to the east); and
- Olympic Park railway station (to the south).

Diagram 3.2.1 – Locality plan



Proposed Development

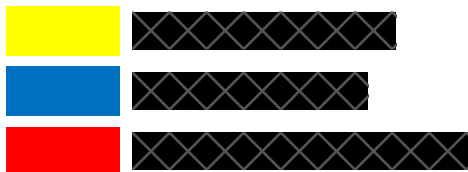
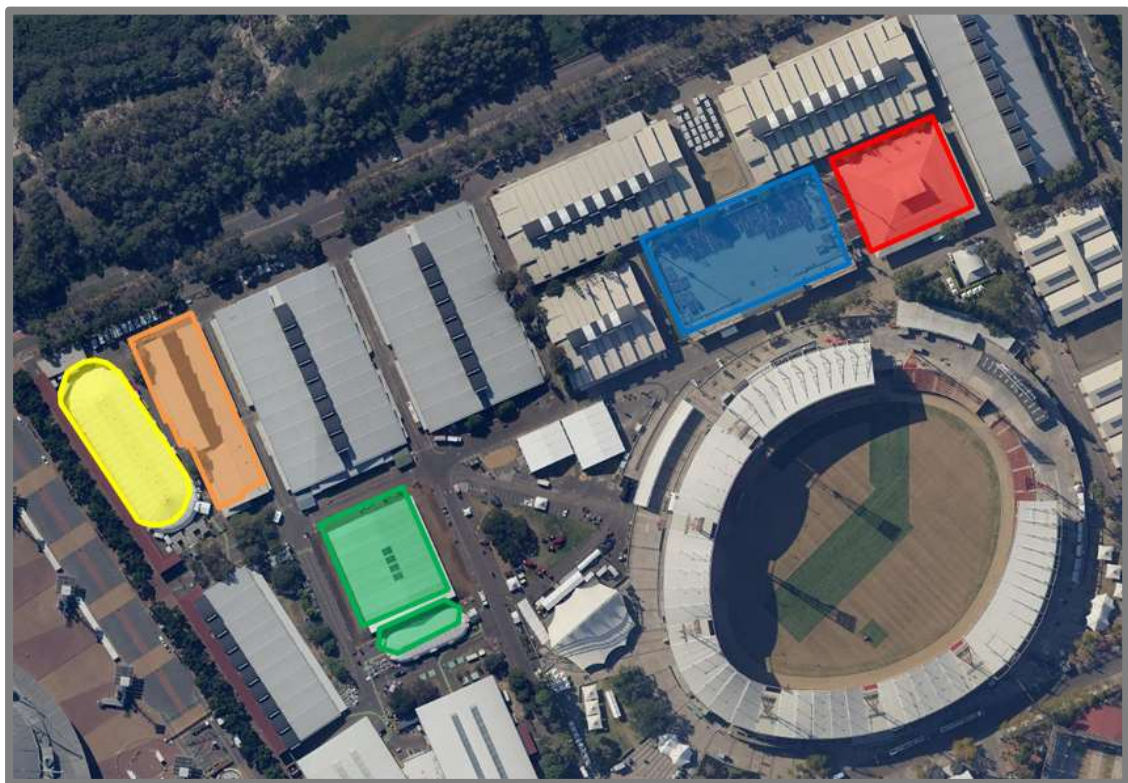
4.1 Description of proposal

As described within item 2.1 of this report above, the overall proposal temporary event involves the ho [REDACTED]

This event requires the undertaking of various building works (albeit temporary structures and generally within the confines of existing buildings) and the placement of various items of production equipment and containers.

The extent of proposed site area is depicted in figure 4.1.1 below.

Figure 4.1.1 – proposed site plan



The external nature of *some* of the proposed works for filming purposes requires the placement of several external lights.

The purpose of these lights is to provide a background to the production filming and illuminate the activities ("set") being performed in those specific locations.

The areas that shall contain this external lighting are described within item 4.2 below.

4.2 External lighting layout

The areas for proposed external lighting are the [REDACTED] exit; both of which are depicted in figure 4.1.1 above.

The [REDACTED] is intended to provide a space that contains physical [REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

Importantly, this area shall only be used for very short filming periods – [REDACTED]

[REDACTED]

The proposed lighting plan encompasses the following elements –

- Directional light fixtures providing side-throw illumination to the proposed structures.

Each of these light fittings shall be mounted on either scaffolding, towers, or vertical trusses.

- Up-lighting to the proposed structures. These fixtures are not intended to shine upwards to the night sky.
- Several lights shall be positioned within the 'on-camera' area for effect.

4.2 External lighting equipment

The aforementioned external lighting shall comprise the following equipment –

- Par 64 Parcan 1000W tungsten lighting fixtures
General operating level of 50% capacity
- LED Par lighting fixtures
18 x 8W in each fixture
General operating level of 50% capacity
- Panorama IP65 moving spot lights, 420 W
- Panorama IP65 wash lights
19 x 40W in each fixture
- Perseo moving spot lights

Environmental Assessment

5.1 General

As described in item 4.2 above, the majority of the proposed lighting fixtures shall be positioned to either point in a downward direction onto the 'on-camera' area, or side-throw to illuminate surrounding building structures and vegetation as a back-drop to the filming.

Upward light spill shall be minimised at all times.

5.2 Assessment

Given the absence of residential accommodation in any of the buildings surrounding the proposed temporary event site, and the absence of any fauna nesting in the surrounding vegetation, it is not considered that the proposed downward and side-throw lighting fixtures shall have any environmental impact.

The presence and limited use of all proposed lighting is considered to be wholly consistent with the use of similar lighting for other events held at the Sydney Olympic Park, inclusive of those specifically held at the adjoining ANZ Stadium.

Noting that the use of such lighting in those instances does not create a negative environment impact, the same conclusion is considered to be applicable in this instance.

Appendices

A.1 External lighting specification