

14 February 2020

Principal Specialist Planner
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For Hayden Wadams

Dear Hayden,

Request for Further Information – LUC60351212

Thank you for your letter dated 29 January requesting further information for the resource consent application lodged by Eden Park for concerts.

I set out below a reply to the requests made in the order that the items appear in your letter. The numbering of the proposed conditions has changed as a result of amendments made. The response references the revised condition numbering.

Acoustic barrier

1. Section 4.2 of the Assessment of Environmental Effects (AEE) prepared by Tattico notes that for the purposes of this application it should be assumed that the acoustic barrier is constructed and is in place prior to any concert taking place. Please confirm whether or not you are offering this a consent condition.

The following condition is offered as part of the application (Condition 6):

Concerts shall not be permitted to take place at Eden Park until the acoustic barrier contained in the Certificate of Compliance issued by the Auckland Council on 13 December 2019 is installed.

Accessory activities and entertainment elements

2. Section 5.2 of the AEE notes that the concert performances may include a range of accessory activities and entertainment elements. Please clarify whether or not this includes professional fireworks displays and/or helicopter flights, and if so, whether those activities will comply with Eden Park Precinct standards I310.6.13 and I310.6.14.

The application includes both theatrical/stage pyrotechnics (includes stage gerbs, stage fountains, stage mines, flames, fireballs, and smoke effects) which are anticipated to be part of most concert performances (and the effects of which are generally confined to the stadium) and fireworks “displays” generally undertaken at the end of a performance and which would be visible/audible from outside of the stadium venue.

Where a ‘fireworks display’ is undertaken at the end of a concert, it is proposed that this will comply with the noise standard in I310.6.13(5) (Professional fireworks displays) which includes that displays must comply with 140dB L_{zpeak} at any point in the audience area and within the boundary of any activity sensitive to noise. Firework displays will conclude at the finish time of 10.30pm or 11pm.

Where helicopters are used in conjunction with a concert event, their use will comply with standard I310.6.14 of the Eden Park precinct.

Security detail

3. Section 7.2.1 of the AEE states that Eden Park Trust propose to activate a special Security Detail to circulate in the surrounding streets post the events. Please provide further details of this special Security Detail, including approximately how many persons this will involve, how long they can be expected to patrol, and any other relevant details to understand how it will operate. Please confirm whether or not you are offering this as a consent condition.

Eden Park Ambassadors circulate in teams of no fewer than two security personnel in the vicinity of the stadium prior to events at the stadium. Deployment and numbers is dependent on a number of factors including crowd size, crowd profile, likely modes of arrival/departure and other safety and security considerations. These are assessed in planning for an event in conjunction with the promoter and police and form part of the Event Management Plan employed for the event.

A specific requirement as to the numbers or location of security teams is not proposed as a specific condition, rather it is proposed that these matters be managed through the Event Management Plan. The measures relative to crowd size are contained in Table 1 of the Event Management Plan included in the Operations Management Plan – Concerts.

Pre and Post Event Management Plan

4. Section 7.2.2 of the AEE states, under the heading ‘Production Build and Disestablishment’, that it is proposed that noise is regularly monitored to ensure compliance with the Eden Park Precinct standards. Please clarify whether this ‘regular’ monitoring will occur during the production build and disestablishment of every concert or just some concerts. Who will undertake the monitoring? Will the result be made available to the Council?

It is proposed as part of the Operations Management Plan – Concerts that noise monitoring will be undertaken during the construction build and disestablishment for each concert and the results will be made available to the Council.

Lighting

5. Section 7.8 the AEE includes some general comments on lighting effects and indicates that the stadium floodlights may stay on past the curfew (11pm) for egress purposes until the stadium has cleared. It also indicates the potential use of spot lights / directional lights associated with the performances. Please provide an expert lighting assessment to confirm whether or not the proposed concerts (including pack-in / pack-out and testing) will comply with the Eden Park Precinct lighting standards. If the proposal will not comply with the standards, please discuss the effects of the non-compliance on affected persons.

The proposal includes the use of the stadium floodlights while the crowd disperses from the stadium at the completion of the concert. It is anticipated that it will take up to 30-45 minutes for a capacity crowd to egress the stadium. This results in the use of floodlighting (using egress mode) past the 11.00pm curfew in the Eden Park precinct standard I310.6.2 (4). In addition, lighting used for the six concert performance will exceed the 25 special lighting events permitted in a 12 month period in standard I310.6.3 (1). Feature lighting to illuminate the exterior of the stadium is also proposed for each concert event which will exceed to 25 occasions permitted during a 12 month period in standard I310.6.2.10. An assessment of lighting effects is contained in the report prepared by LDP.

The following conditions of consent are proposed for lighting (Conditions 26-28):

- a) The luminous intensity of artificial lighting for a concert performance (including floodlighting) shall not exceed 70,000cd measured or calculated at the windows of habitable rooms of lawfully established dwellings within a residential zone not owned by Eden Park Trust.
- b) Prior to commencement of the first concert held at Eden Park, the consent holder shall submit to Council's Team Leader Compliance Monitoring a certificate from a registered lighting engineer to confirm that the lighting satisfies the requirements set out in Condition (X).
- c) Within 10 working days following the completion of the first concert held at Eden Park, the consent holder shall provide confirmation from a suitably qualified lighting engineer that lighting satisfied the requirements of Condition (X) and submit this to Council's Team Leader Compliance Monitoring – Central.

Noise

6. The acoustic assessment prepared by Marshall Day Acoustics only very briefly mentions the noise of night games. Up to 25 night time games are consented to occur at Eden Park (resource consent LUC60126194) in any 12 month period. Please provide an updated acoustic assessment that includes a specific section that assesses the cumulative noise effects of the 25 consented night time games (including sources of noise not controlled by the limits), and the effects of the 6 proposed concerts. The assessment should consider the total number of nights per 12 month period that there could be noise levels over the relevant noise limits (from all sources of noise at Eden Park) and how often those could occur, or be aggregated into short periods (i.e several events over 2 - 4 weeks).

7. The acoustic assessment notes that for the purposes of noise modelling, the loudspeaker directivity was “based on ‘line array directivity’ and positioned as two-point sources at 12m high (the top of a typical line array)”. Please comment on whether a higher line array arrangement, such as that utilised by U2 for their 360° Tour, would produce a noticeably different modelling result.

8. The noise contour maps provided in the acoustic assessment only display the predicted noise levels in the immediate vicinity of the site. It appears that noise levels in excess of 50 dB LAeq will be received at other properties in the wider area. Please provide additional noise contour maps produced at a larger scale and which extend out (in all directions) to a point beyond which the predicted noise levels will be 50 dB LAeq or less.

Please refer to the updated report Eden Park – Assessment of Noise Effects prepared by Marshall Day dated 3 February 2020. The revised report includes an assessment of cumulative noise effects, considers a higher line array speaker arrangement and contains a 50 dB LAeq noise contour map.

Traffic

9. The predicted arrival profile and mode shares in section 3.5 of the Transport Assessment prepared by Traffic Planning Consultants Ltd is based on figures from two All Blacks games at Eden Park in 2016. Both of these games were held on a Saturday night.

a. Please explain why these figures have been used as a basis for predicting arrival profiles and mode shares for a weekday event?

There were no suitable weekday events that have been held at Eden Park in recent times that would have a similar arrival profile of a capacity concert event.

Nevertheless, there is no evidence to suggest that the arrival profile will be any different from a weekday to weekend event. There are several factors that influence arrival profiles and mode choice including the type of act, the demographic of the audience, the time gates open and the communication strategy around travel during the lead up to the event.

As set out in Section 3.5 of our Transport Assessment, the two All Blacks games were selected for the following reasons.

- They were near capacity events with the same local traffic management response (TMP – 5) as proposed for full capacity concert events.
- The public transport provisions and communications strategies are also expected to be similar.
- Gates will open at a similar time.
- The likely attendance and mode split are also expected to be similar with a mixture of about 50% Auckland based crowd with 50% of visitors from out of town or overseas.

b. Please explain whether or not the figures are representative of the demand profiles on those particular evenings i.e were there any constraints on particular routes / networks?

We are not aware of any constraints on the network at the time of the 2016 events. As set out in the Transport Assessment, the same local traffic management (TMP-5) was provided around Eden Park surrounds as well as what is expected to be a similar mode share profile.

c. Please explain how a supporting act, particularly a well-known supporting act, may influence arrival profiles?

The profiles provided in the Transport Assessment has assumed that 44% of a crowd will arrive before the start of any supporting act (before 6:30pm) and then growing to 80% by the end of supporting act (around 7:15pm). The applicant's traffic engineer considers this to be the most likely profile for most events and a reasonable basis for assessment. Nevertheless, should Council want to consider an earlier arrival profile, then the same profile could be used with timings adjusted to be 45 minute earlier.

It is considered that any effects around an earlier profile can be managed with the proposed operational plan. A good communication strategy around travel habits include mode choice and time of travel, appropriate local traffic management and the ability to host audiences within the stadium surrounds before the events will all contribute to mitigating any effects on the wider network.

An updated traffic report Rev F dated February 2020 has been prepared by TPC in response to the traffic matters raised by Council.

It may be helpful to display the predicted arrival profiles and mode shares in the form of likely ranges. Please also confirm whether or not the applicant has access to any further information on event arrival profiles and mode shares for other events around Auckland (including concerts at other venues). If so, please provide this information.

We are not aware of any available information of other venues and their arrival profile and mode share. Nevertheless, every venue will be different due to its location and accessibility to the various modes. For example, Mt Smart Stadium has a limited access to rail and no hospitality precinct nearby and Western Springs has no access to rail or any nearby hospitality.

This means any results on mode share and arrival profile would be significantly different to an event at Eden Park where all modes have a high level of accessibility and audiences have a choice to travel early and be entertained either in Kingsland, Dominion Road or onsite.

What this does highlight, is that in terms of transport effects, Eden Park and its surrounding environment has the greatest potential to manage effects and to adapt to different audience types and any transport issues that might arise.

Proposed conditions

11. Please clarify how 'duration' is defined for the purposes of proposed condition 8. Does this mean the time between the commencement of the first act and the conclusion of the final act?

Duration refers to the time between the start of the first (or single) concert performance/act and finish of the last (or single) concert performance/act. An advice note is included in the revised conditions to clarify this.

Advice note:

For the purpose of Condition 9, duration refers to the time between the commencement of the first (or single) performance/act and the finish of the final (or single) performance/act.

12. In the case of an event lasting longer than the applicable duration of either 4 or 6 hours being counted as two concerts, please confirm that the duration of such an event could not exceed double the total duration of a single concert - i.e either 8 hours (weekday) or 12 hours (Saturday or Sunday preceding a public holiday).

We confirm that the duration of an event is not proposed to exceed double the total duration of a single concert, that is either 8 hours (weekday) or 12 hours (Saturday and Sunday preceding a public holiday). An advice note has been included to clarify this.

13. Please clarify how 'start time' is defined for the purposes of proposed condition 10.

Start time refers to the commencement of the first performance/act for the purposes of Condition 10 (now Condition 11). An advice note has been included to clarify this.

14. Proposed condition 11 appears to preclude daytime concerts on weekdays (except public holidays). Please confirm that this is the intention.

Condition 11 (now Condition 12) relates specifically to night-time concerts held on a weekday only and is not intended to cover daytime concerts. Night-time is defined in the Eden Park precinct as 30 minutes before sunset on one day.

15. Proposed condition 21 states that the floodlights will be switched off once the stadium is cleared. Please advise how long it is expected to take to clear the stadium for a maximum capacity concert.

A capacity crowd for an All Blacks test takes between 15-30 minutes to egress from the stadium clear. It is anticipated that it will take between 30-45 minutes for a capacity crowd to clear the stadium.

16. Please clarify how 'heavy vehicles' are defined for the purposes of conditions 21 and 22.

Heavy vehicles for the purpose of these conditions refers to 11m long rigid trucks or larger. An advice note has been included to clarify this.

Other matters

We note your suggested changes/recommendations included in the section 92 request. We confirm that in terms of item 1, reference to scheduled start and finish time has been removed in the proposed conditions.

I enclose the following updated application documents incorporating the section 92 responses outlined above:

- Assessment of Effects
- Attachment F – Traffic Assessment
- Attachment G – Proposed Conditions of Consent
- Attachment H – Assessment of Noise Effects
- Attachment L – Assessment of Lighting Effects

Yours faithfully



Mark Vinall
Director
TATTICO LIMITED