


**City Council**

**Item # 7    RTC 23-74**

**Informational Report on  
Written Petition:  
Noise Levels at Levi's  
Stadium Concerts**

**February 7 , 2023**

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**City of  
Santa Clara**  
The Center of What's Possible

## **Concert Noise Levels**

**Background: Written Petition**

- June 21, 2022 Council considered a Written Petition submitted by Anurag Aggrawal and Ajay Thadhlani and other residents of North Santa Clara near Levi's Stadium Petitioners
- Petition referenced impact of noise upon residents from the Sunday, May 15, 2022 Coldplay concert and fireworks
- Council voted unanimously to place the item on a future City Council meeting agenda

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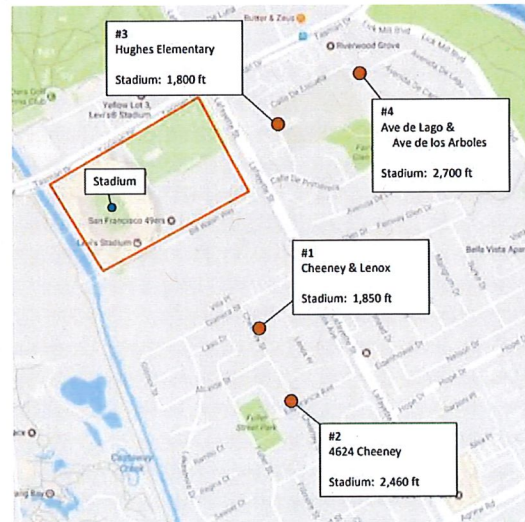
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## Concert Noise Levels

### Unattended Noise Monitoring

Wilson Ihrig & Associates performed analysis of noise data received from unattended noise monitoring station



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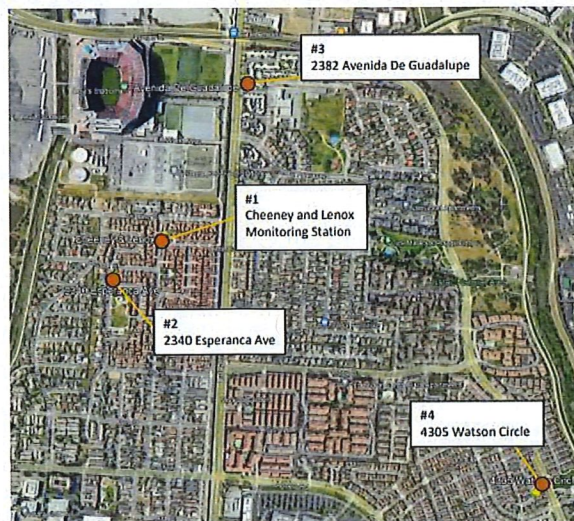
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## Concert Noise Levels

### Attended Noise Monitoring

For The Weeknd and Elton John Concerts Wilson Ihrig performed attended (live) noise monitoring at the Cheeney & Lenox station and locations where residents previously shared noise complaints through the Written Petition regarding the Coldplay Concert



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# Concert Noise Levels

## Regulatory Context

### 1. Stadium Permit Conditions of Approval:

Maximum sound level exposure at the nearest residences to the east and south of Stadium shall be a target of 60 dBA Leq (1 hour average)

### 2. Noise levels predicted in Stadium EIR:

Concert noise levels would be approximately 66 dBA Leq or less at the nearest residences south of the stadium

Hourly average noise levels would exceed ambient hourly average noise levels by 4 dBA Leq and background noise levels by 19 to 24 dBA

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# Concert Noise Levels

## Analysis Methodology

### 1. Analysis differentiates jet noise from concert noise by automated filter or by detailed manual analysis

### 2. Analysis reflects refinements to account for jet noise, so not to attribute jet noise to concert noise levels

### 3. Analysis accounts for the drop in noise levels that occurs between the nearest residential use (e.g., a rear yard property line) and the location where noise monitoring took place

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## Concert Noise Levels

### Analysis Results

1. Coldplay (May 15, 2022) – exceeded Stadium Permit noise level target by up to 9 dBA Leq and the concert-noise level predicted for the EIR by up to 3 dBA Leq
2. The Weeknd (August 27, 2022) – exceeded Stadium Permit target by 3 dBA Leq, but did not exceed the concert-noise level predicted for the EIR
3. Elton John (October 9, 2022) – did not exceed either the Stadium Permit noise level target or the concert-noise level predicted for the EIR

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## Concert Noise Levels

### Next Steps

1. Results suggest that noise levels vary from concert to concert and can be influenced by the way in which the concert is conducted
2. Staff will work with stadium management so that future events at the stadium conform with City requirements

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The seal of the City of Santa Clara, California, is circular. It features a central illustration of a mission-style building with a red roof and a bell tower, set against a blue sky with clouds and green grass. The year "1852" is inscribed below the building. The outer ring of the seal contains the text "CITY OF SANTA CLARA CALIFORNIA" at the top and "THE MISSION CITY" at the bottom, separated by dots.

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