



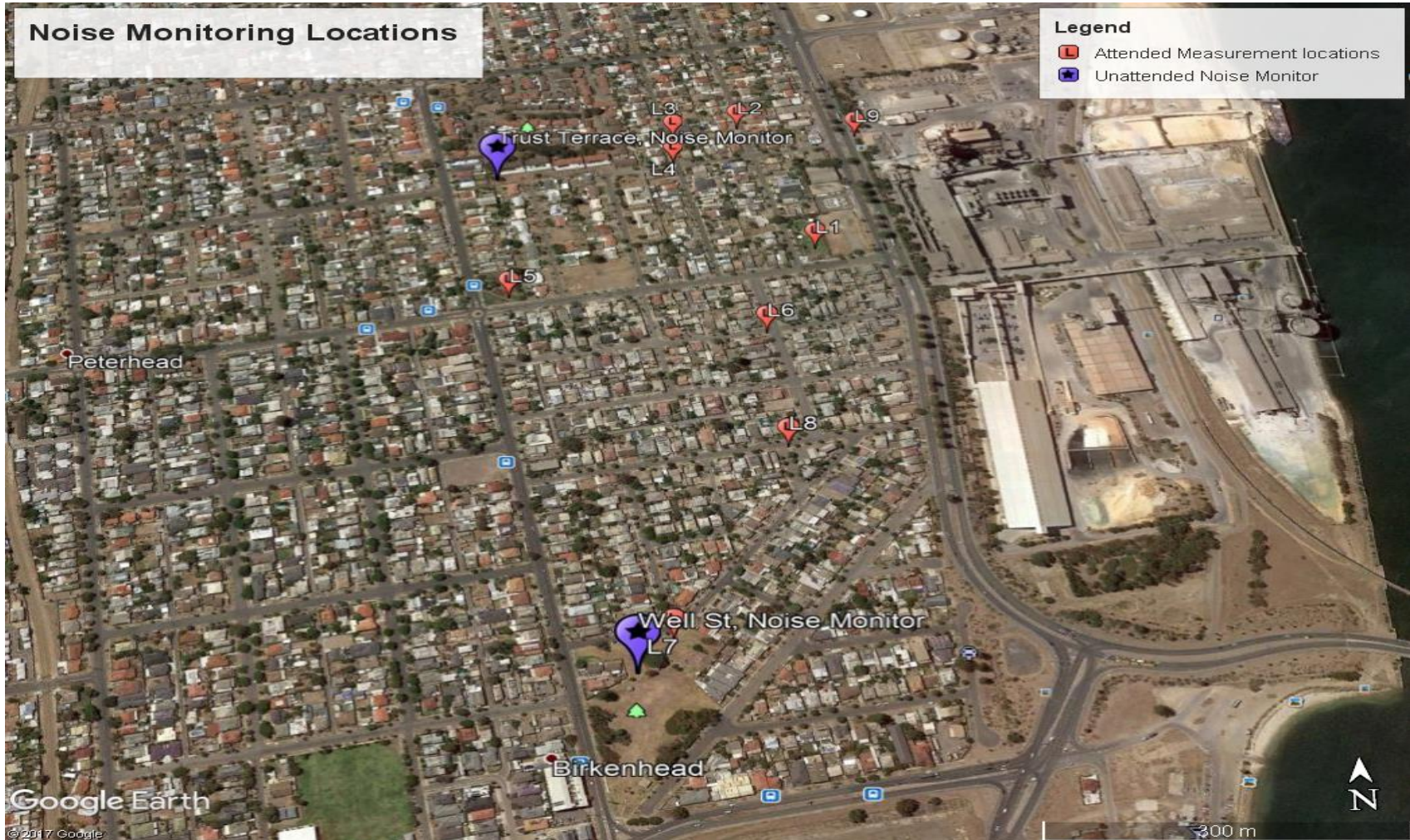
South Australia's Environment Protection Authority

Noise Monitoring Results

Monday 21st August 2017



EPA Noise Monitoring Locations



Ongoing ambient (24/7) noise monitoring

- EPA has been conducting a noise study at Port Adelaide/Le Fevre Peninsula with 9 noise monitoring locations at the moment
- Detailed information can be found at:
 - <https://sentinel.bksv.com/epa/pae>
 - http://www.epa.sa.gov.au/environmental_info/noise/resources
- Two of the locations are useful for monitoring potential noise from Adelaide Brighton Cement – Trust Terrace (EPA10) & Wells St (EPA09)

Unattended Results

- Data from unattended (ongoing ambient) noise monitoring stations
- No significant differences were detected at either Wells St or Trust Terrace when comparing results of before, during and after the March 2017 Adelaide Brighton Cement site shut down.

Laeq (dBA), 15 minute readings	Wells St		Trust Terrace	
	Day	Night	Day	Night
Before 17 Feb to 14 Mar	54.2	48.5	51.3	49.1
During 15 Mar to 9 Apr	55.3	49.3	52.6	50.6
After 10 Apr to 5 May	52.8	49.9	56.1	51.4

Night time (attended) noise results

- EPA conducted **attended** night time indicative noise measurements in Birkenhead and Peterhead during 2016 & 2017.
- Measurements have been taken at night as the background noise reduces at night while the operational noise from ABC is consistent.
- Results are presented here for your information.
- Wind direction and speed and time of day (or night) is the biggest differential in the noise measured.

Results

- Attended noise monitoring conducted at 9 locations in Birkenhead and Peterhead
 - Location 1 - Hargrave St Dog Park
 - Location 2 - Alfred St, by the stormwater detention basin
 - Location 3 - Mary St, by the stormwater detention basin
 - Location 4 - Intersection of Mary St & Walton St
 - Location 5 - Intersection of Hargrave St & Fletcher St
 - Location 6 - Intersection of Levi St & Hilton St
 - Location 7 - Wells St Park
 - Location 8 - Intersection of Methodist St & Gunn St
 - Location 9 - Victoria Road (Eastern Side)

Measurement locations were chosen based on previous knowledge of noise affected areas, ability to get appropriate reading with minimal interference and without the need to impose on any private property.

Location 1 - Hargrave St Dog Park

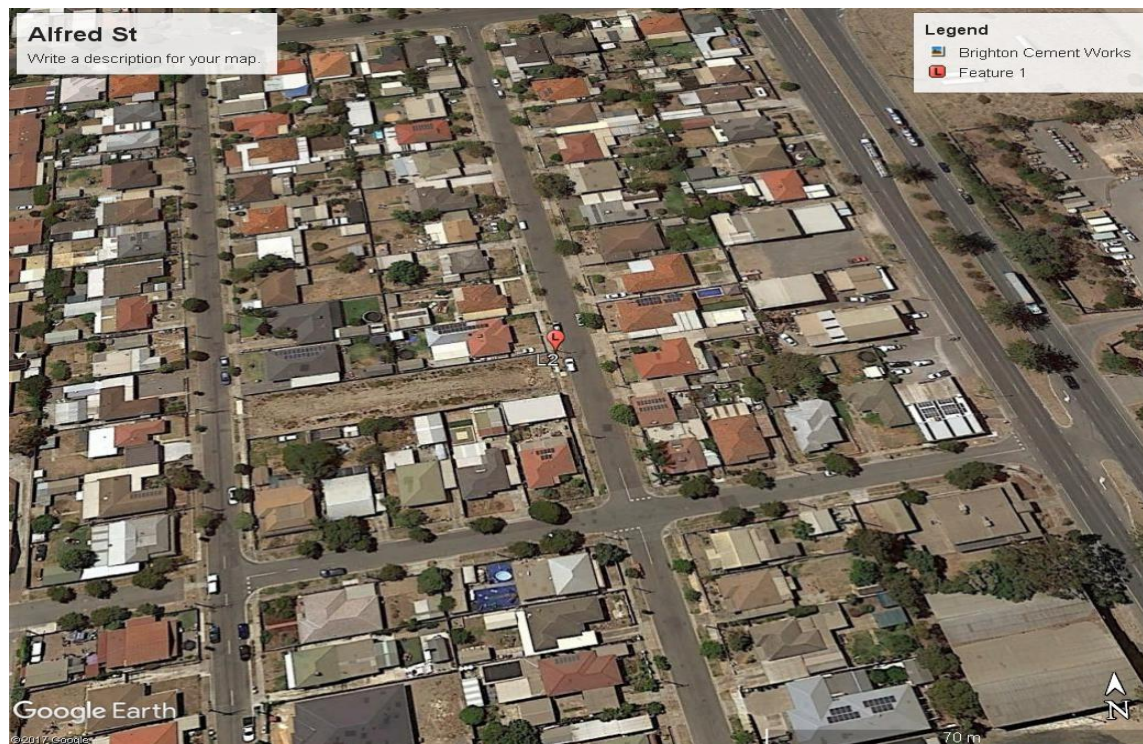
- Results (N=4) from **55 to 60 dB(A)** while ABC was in **operation**
- Results (N=2) from **49 to 54 dB(A)** while ABC was in **shut down**

The construction of the 'On the Run' Service Station appears to have reduced the noise impact in this location.



Location 2 - Alfred St, stormwater detention basin

- Results (N=4) from **51 to 54 dB(A)** ABC was in **operation**
- Result (N=1) **44 dB(A)** while ABC was in **shut down**



Location 3 - Mary St, stormwater detention basin

- Results (N=6) from **51 to 57 dB(A)** while ABC was in **operation**
- Result (N=1) was **49 dB(A)** while ABC was in **shut down**



Location 4 – Intersection of Mary St & Walton St

- Results (N=4) from **51 to 56 dB(A)** while ABC was in **operation**
- Results (N=3) from **50 to 52 dB(A)** while ABC was in **shut down**



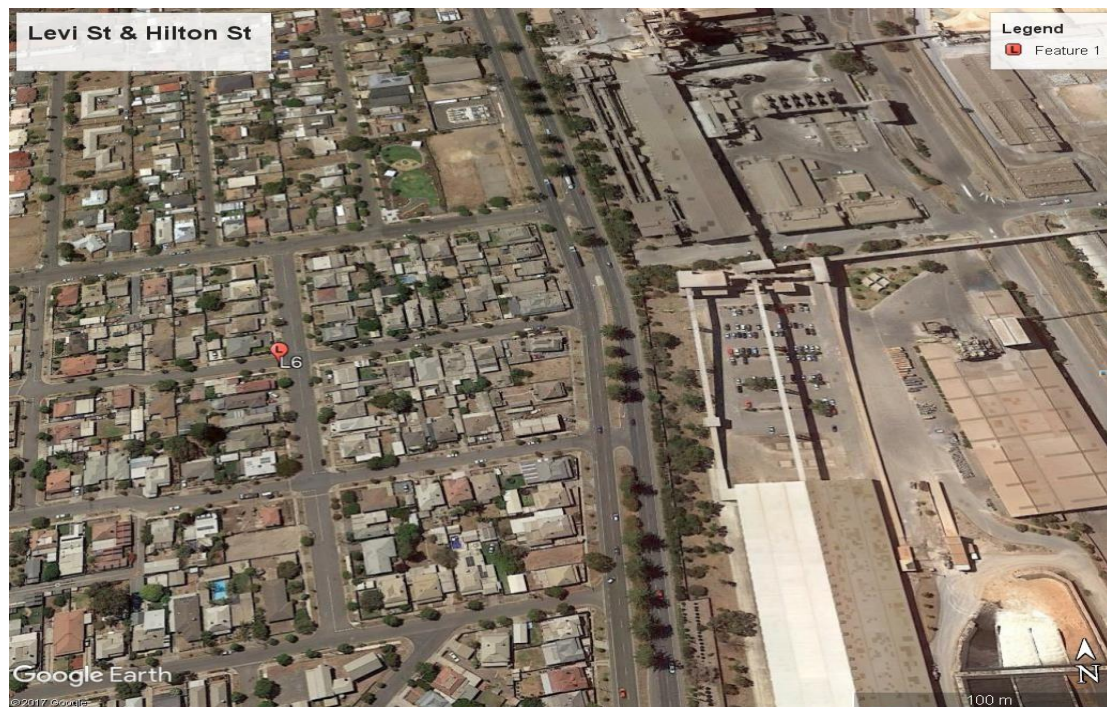
Location 5 – Intersection of Fletcher Rd & Hargrave St

- Results (N=5) from **46 to 52 dB(A)** while ABC was in **operation**
- Results (N=2) from **48 to 52 dB(A)** while ABC was in **shut down**



Location 6 – Intersection of Hilton St & Levi St

- Results (N=5) from **49** to **55 dB(A)** while ABC was in **operation**
- Results (N=2) from **45** to **52 dB(A)** while ABC was in **shut down**



Location 7 – Wells St

- Results (N=5) from **41 to 51 dB(A)** while ABC was in **operation**
- Results (N=2) from **44 to 49 dB(A)** while ABC was in **shut down**



Location 8 – Intersection of Methodist St & Gunn St

- Results (N=2) from **45 to 54 dB(A)** while ABC was in **operation**
- Results (N=2) from **46 to 51 dB(A)** while ABC was in **shut down**



Location 9 – Victoria Road (Eastern Side)

- Results (N=3) from **68 to 69 dB(A)** while ABC was in **operation**
- Results (N=2) from **65 to 66 dB(A)** while ABC was in **shut down**



Notes



- Measurements include noise from all sources, including Victoria Road
- Trucks on Victoria Road are a major source of noise in the area
- Time of measurement and wind direction had the biggest impacts on the variation in results
- All EPA attended measurements were taken at night when background noise was reduced
- During the daytime, noise from ABC would remain consistent, while background noise would increase
- All results are LAeq, 15 minute average readings, as required by the *Environment Protection (Noise Policy) 2007*