

Short Term Monitoring Program

Oxley, QLD

Version Control

Version 1: 18 June 2014						
Section	Summary					

Glossary of Terms

A	Arrivals				
Background noise level (L90)	The sound level in dB(A) that is exceeded 90% of the time				
Correlated Noise Event (CNE)	A noise event correlated to an aircraft operation that flew through the capture zone				
Correlation Summary	Percentage of captured aircraft operations correlated with noise events recorded by the noise monitor				
D	Departures				
Day	6:00am to 11:00pm				
Н	Helicopters				
LAmax	Maximum sound level in dB(A)				
Local	Operation that departs and arrives at the same airport. Local movements include circuits and training flights.				
Movement	An aircraft operation, such as a arrival or departure				
Night	11:00 pm to 6:00 am				
NFPMS	Noise and Flight Path Monitoring System				
Noise Event	A noise that exceeds the threshold sound level for longer than the threshold time that is set				
NMT	Noise Monitoring Terminal				
0	Overflight i.e. an aircraft movement that flew over the area but did not arrive or depart from the airport of concern				
Т	Local Operation (Departure and Arrival)				
Threshold	Determined level on noise monitor that triggers a noise event when exceeded				

For further information on the metrics used in this report refer to Australian Standard 1055.1–1997 "Acoustics – Description and measurement of environmental noise".

Airservices Noise Monitoring Program

Information about Airservices noise monitoring program is available on the Airservices website, including reports of the noise and operational data collected by the Noise and Flight Path Monitoring System, as well as fact sheets about topics related to aircraft noise. The website is available at: www.airservicesaustralia.com/aircraftnoise/

Contact Us

To lodge a complaint or make an enquiry about aircraft operations, you can go to WebTrak (www.airservicesaustralia.com/aircraftnoise/webtrak/) use our online form (www.airservicesaustralia.com/aircraftnoise/webtrak/) telephone 1800 802 584 (freecall) or 1300 302 240 (local call –Sydney) fax (02) 9556 6641 or write to, Noise Complaints and Information Service, PO Box 211, Mascot NSW 1460.

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This report contains a summary of data collected over the specified period and is intended to convey the best information available from the NFPMS at the time. The system databases are to some extent dependent upon external sources and errors may occur. All care is taken in preparation of the report but its complete accuracy can not be guaranteed. Airservices Australia does not accept any legal liability for any losses arising from reliance upon data in this report which may be found to be inaccurate.

Deployment Purpose

Short term noise monitoring was conducted at Oxley following recommendations made by the community.

The purpose of this report is to provide a technical summary of the recorded aircraft noise and operational data collected at Oxley during May 2014.

An explanation of terms used within this report can be found in the Glossary on page 2 of the report.

Deployment Monitoring Period

05/05/2014 12:00 am - 02/06/2014 12:00 am

Noise Monitoring Terminal (NMT) Details

Location Private Residence, Bayford Street, Oxley, QLD 4075

Latitude 27° 33′ 35.69″ S Longitude 153° 58′ 44.13″E

NMT Altitude 59 ft above mean sea level

Capture Zone 2.5 km radius with 8,000 ft (above ground level) height for noise data

capture

Threshold Settings 50.0 dB(A) to 61.0 dB(A) depending on time of day

Oxley Findings

- For more information please refer to Figure 1, Figure 2 and Table 1 on page 4.
- The noise monitor was located in Oxley 2 km west of Archerfield airport.
- 3,000 movements flew through the capture zone during the reporting period. 2,266 of these were Archerfield operations.
- 19% of total operations that flew through the capture zone (as shown in figure 2) were Brisbane airport movements.
- 1,606 correlated noise events exceeded 65 dB(A), 28 of these occurred during the hours of night.
- The number of correlated noise events exceeding 65 dB(A) in any one day ranged from 17 to 88.
- Residents of Oxley experienced 28 correlated noise events that exceed 80 dB(A) during the reporting period.
- The loudest correlated aircraft noise event with a max level of 88.9 dB(A) was an unknown aircraft that departed from Archerfield airport.
- The correlation summary for all movements was 42%. This is considered an average result based on reviews of fixed noise monitoring terminals nationally.

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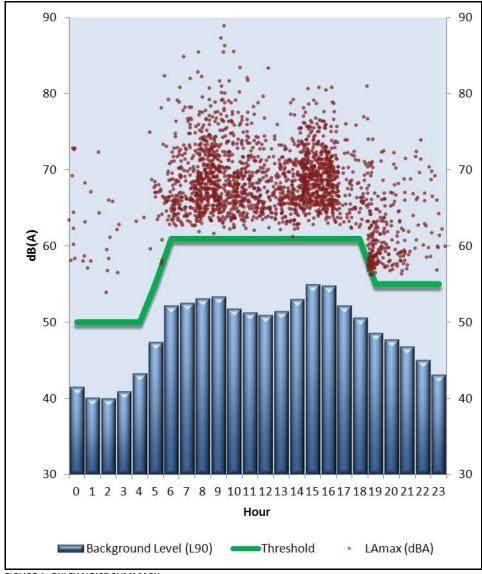


FIGURE 1: OXLEY NOISE SUMMARY 05/05/2014 12:00AM – 02/06/2014 12:00AM

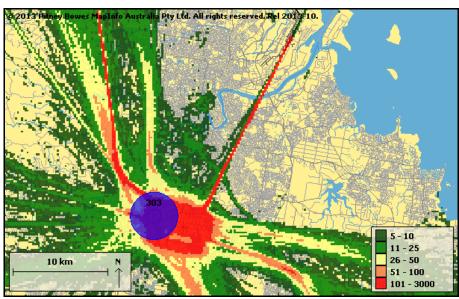


FIGURE 2: TRACK DENSITY OF OPERATIONS THAT TRAVERSED OXLEY

TABLE 1: TOP 10 MOST CORRELATED AIRCRAFT TYPES OVER THE OXLEY NOISE MONITORING TERMINAL

	Airport	Operation Type	RWY	No. Correlated Noise Events	LAmax dB(A)	
Aircraft Type					Average	Maximum
Unknown (U)	Archerfield	Α	10L	206	69.2	82.2
Unknown (U)	Archerfield	D	28R	150	69.1	84.8
Unknown (U)	Archerfield	Α	10R	135	68.7	80.5
Unknown (U)	Unknown	0	Unknown	128	68.1	77.5
Unknown (U)	Archerfield	Т	10L	106	67.0	79.5
Unknown (U)	Archerfield	Т	28R	99	66.1	78.1
Unknown (U)	Archerfield	Т	28L	93	67.8	77.1
Unknown (U)	Archerfield	Т	10R	73	64.0	81.0
Unknown (U)	Archerfield	D	Unknown	72	69.4	88.9
Unknown (U)	Archerfield	Α	28R	69	68.0	78.2

Aircraft Category: Jet (J), Turboprop (T), Propeller (P), Helicopter (H), Unknown (U) **Operation Type:** Arrival (A), Departure (D), Local Operation (T), Overflight (O)