

Quarterly Noise Report

Prepared For:
California Department of Transportation (Caltrans)
Division of Aeronautics

4th Quarter 2021
October 1, 2021 – December 31, 2021



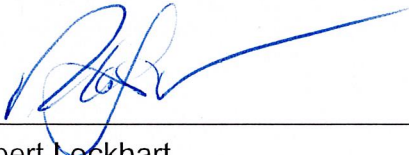
Airport Noise Office

February 28, 2022

Quarterly Noise Report
4th Quarter 2021
(October 1, 2021 through December 31, 2021)

On May 24, 2012, the California Department of Transportation (Caltrans), Division of Aeronautics, confirmed via a correspondence letter that the County of Santa Clara verified Norman Y. Mineta San Jose International Airport (SJC) achieved a zero noise impact area pursuant to the California Code of Regulations, Title 21 (Public Works), Division 2.5 (Division of Aeronautics), Chapter 6 (Noise Standards), Article 1 (General), Section 5012 (Airport Noise Standard) as of its 2nd Quarter 2011 Quarterly Noise Report. The letter went on to state that having met the standard, SJC no longer requires a variance.

This Quarterly Noise Report for the 4th Quarter of 2021 was prepared by the Airport Noise Office at Norman Y. Mineta San Jose International Airport (SJC), in accordance with the California Noise Standards (California Code of Regulations, Title 21, Section 5000 et seq.).



Robert Lockhart
Deputy Director of Aviation
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**Summary of Statistical Information for the California Department of Transportation
(Caltrans) Division of Aeronautics**

1. Size of Noise Impact Area as defined in the Noise Standards (California Code of Regulations, Title 21, Chapter 2.5, Subchapter 6):
0 Square Miles

2. Estimated number of dwelling units included in the Noise Impact Area as defined in the Noise Standards*:
0 Dwelling Units

3. Estimated number of people residing within the Noise Impact Area as defined in the Noise Standards*:
0 People

4. Identification of the aircraft type having the highest takeoff noise level operating at this airport together with the estimated number of operations by this aircraft type during the calendar quarter reporting period:
Embraer EMB-175 (E75L); 2,485 Departure Operations

5. Total number of aircraft operations during the calendar quarter: (Not Mandatory)
38,079

6. Number of Air Carrier operations during the calendar quarter: (Not Mandatory)
24,065

7. Percentage of Air Carrier operations by aircraft certificated under Federal Aviation Regulation (FAR) Part 36, Stage III: (Not Mandatory)
100%

8. Estimated number of operations by General Aviation aircraft during the calendar quarter: (Not Mandatory)
8,056

9. Estimated number of operations by Military aircraft during the calendar quarter: (Not Mandatory)
118

10. Estimated number of operations by Taxi/Commuter aircraft during the calendar quarter: (Not Mandatory)
5,840

Form DOA 617, Dated 10/89

* Calculations Based Upon 2010 Census Block Boundary Data.

Aircraft Noise Measurements and Modeling

Table 1 contains statistics of aircraft operations based upon the Federal Aviation Administration (FAA) Air Traffic Control Tower (ATCT) counts at Norman Y. Mineta San Jose International Airport (SJC).

Data contained within Tables 2-7 below was obtained from queries and reports run within Envirosuite Airport Noise and Operations Monitoring System (ANOMS). Table 2 contains the locations of the permanent Remote Monitoring Terminals (RMT) maintained by Envirosuite in the surrounding communities of SJC.

Tables 3-5 contains a summary of daily local aircraft measured noise levels (dB CNEL) for the three (3) months of the calendar quarter reporting period. Table 6 contains a summary of the monthly local aircraft measured noise levels (dB CNEL). Table 7 contains a summary of the annual local aircraft measured noise levels (dB CNEL).

The 65 dB CNEL noise contour for the period between January 1, 2021 through December 31, 2021 is included at the end of this report. The noise contour was prepared using the Federal Aviation Administration's (FAA) Aviation Environmental Design Tool (AEDT) software. The noise contour figure depicts the locations of the permanent RMTs that were utilized for validation.

The FAA AEDT software is a state-of-the-art software system that models aircraft performance in space and time to estimate fuel consumption, emissions, noise, and air quality consequences. The modeling methodology fulfills the requirements of the State of California, Title 21, California Noise Standards.

Table 1 – Total Aircraft Operations

Operations	4th Quarter 2021	3rd Quarter	2nd Quarter	1st Quarter
Total	38,079	37,512	33,160	26,281
Air Carrier/Cargo	24,065	23,089	18,410	14,277
General Aviation	8,056	8,765	7,080	7,630
Military	118	262	355	242
Taxi/Commuter	5,840	5,396	5,146	4,132

Table 2 – Remote Monitoring Terminal (RMT) Locations

RMT #	Location	Latitude	Longitude
101	Oak Street, San Jose, CA	37.321292	-121.881981
102	Center for Performing Arts, San Jose, CA	37.329572	-121.892365
104	Bellarmino Prep School, San Jose, CA	37.340997	-121.917993
105	Rosemary Garden, San Jose, CA	37.362400	-121.914750
106	St. John/Autumn, San Jose, CA	37.334240	-121.899946
107	Fire Station 6, Santa Clara, CA	37.395160	-121.949916
108	MacGregor Lane, Santa Clara, CA	37.386895	-121.946527
109	Lake Santa Clara, Santa Clara, CA	37.392133	-121.967717
110	Chestnut Street, Santa Clara, CA	37.390153	-121.959598
111	Fuller Street Park, Santa Clara, CA	37.397987	-121.965516
112	Mountain View/Alviso, Santa Clara, CA	37.409690	-121.979440
114	Fairway Glen Park, Santa Clara, CA	37.405623	-121.961404
115	3rd/Reed, San Jose, CA	37.328608	-121.882987

Table 3 – Daily Community Noise Equivalent Level (CNEL) Values – October 2021

Day	Remote Monitoring Terminal (RMT)												
	101	102	104	105	106	107	108	109	110	111	112	114	115
1	61.8	65.6	57.3	58.3	64.2	59.4	61.3	61.0	62.4	61.2	57.8	56.3	64.3
2	58.9	62.2	52.2	56.8	62.2	57.7	61.4	59.2	61.7	59.8	55.7	55.5	50.2
3	60.9	63.8	52.6	57.7	64.2	58.7	62.5	59.4	62.4	60.4	55.7	56.7	52.1
4	61.0	64.1	55.7	59.7	58.9	58.9	62.6	59.3	62.5	60.5	56.0	57.0	56.1
5	62.0	64.0	52.6	57.2	58.9	59.3	62.4	59.7	62.7	60.6	56.5	57.5	56.6
6	61.9	64.1	49.2	59.4	61.1	59.1	62.1	59.5	62.2	60.6	57.4	57.3	56.8
7	62.6	65.2	50.8	61.7	60.9	61.2	64.2	61.5	64.4	62.1	58.1	59.4	57.6
8	63.5	66.4	51.9	61.9	65.3	61.3	64.5	61.6	64.3	62.3	58.1	59.6	57.1
9	60.9	63.9	54.5	54.7	64.3	62.9	63.2	61.0	63.4	61.6	57.4	58.5	55.0
10	62.7	66.0	52.2	55.0	65.9	60.6	64.1	61.6	64.2	61.9	57.9	59.0	55.6
11	62.5	65.6	57.3	60.0	65.5	59.3	62.2	60.0	62.0	59.6	56.5	58.3	55.0
12	61.3	64.8	54.5	56.7	64.6	58.1	61.6	58.4	60.7	58.3	54.8	56.1	55.3
13	61.5	65.4	51.3	57.3	64.5	60.4	63.5	60.5	63.1	61.0	56.6	59.1	53.8
14	61.4	65.0	55.2	60.8	64.5	60.9	63.8	61.6	65.5	62.8	58.5	58.7	54.2
15	61.6	64.5	56.4	60.9	63.9	63.1	63.6	61.2	64.5	62.1	58.1	58.3	53.3
16	58.5	61.9	54.0	58.2	63.8	58.4	61.8	59.4	62.7	60.3	55.9	56.9	51.4
17	63.1	66.1	56.2	58.1	66.2	58.2	61.5	59.1	62.3	60.2	56.6	56.8	62.5
18	62.4	66.2	53.3	57.1	65.5	60.9	64.0	61.5	63.7	61.8	57.8	59.9	54.8
19	58.6	63.1	57.6	59.2	62.1	50.0	55.1	58.8	64.5	62.0	60.2	50.8	59.3
20	60.1	65.9	58.9	61.8	63.7	54.0	51.1	59.9	65.4	63.0	61.0	43.8	62.4
21	61.4	65.9	59.6	61.7	64.7	56.2	51.7	58.7	65.0	62.0	60.5	44.1	62.7
22	63.2	66.1	55.5	56.1	65.9	61.3	64.1	61.8	64.3	62.6	58.7	59.6	58.2
23	60.6	64.0	58.5	61.9	63.6	51.7	53.6	59.1	65.1	62.4	60.6	48.5	61.9
24	64.0	67.1	58.9	60.9	67.5	62.6	64.8	63.1	67.3	64.7	61.8	60.5	62.3
25	62.7	66.0	55.2	60.0	65.5	62.8	66.0	62.8	82.2	63.8	59.7	61.0	55.3
26	61.8	65.5	50.1	59.6	64.4	60.2	62.9	60.5	62.9	61.1	57.1	58.4	55.2
27	62.0	65.9	50.9	62.2	65.3	59.5	62.8	60.3	62.9	60.8	56.8	57.7	54.2
28	62.2	65.9	55.7	62.4	65.7	60.9	63.9	61.3	79.6	62.0	58.4	58.6	53.6
29	62.2	66.1	54.2	57.4	65.5	60.8	64.3	61.7	64.5	62.7	58.9	59.2	56.0
30	61.3	64.1	48.7	51.5	64.1	59.5	62.8	59.8	62.6	60.8	56.7	57.5	53.5
31	59.7	62.9	53.2	55.6	63.0	59.0	62.6	61.1	64.7	62.6	59.9	57.5	55.9
Average	61.7	65.1	55.3	59.5	64.4	60.0	62.8	60.6	70.2	61.7	58.3	57.8	58.1
# of Days	31	31	31	31	31	31	31	31	31	31	31	31	31

*Note: * indicates days with missing NMT data*

Table 4 – Daily Community Noise Equivalent Level (CNEL) Values – November 2021

Day	Remote Monitoring Terminal (RMT)												
	101	102	104	105	106	107	108	109	110	111	112	114	115
1	61.2	65.1	59.6	64.8	64.2	53.4	51.0	59.5	65.4	62.7	61.3	45.5	62.7
2	61.3	64.7	53.2	57.1	64.2	60.3	63.7	61.2	63.9	62.3	58.0	58.6	55.1
3	60.4	64.5	59.3	63.8	63.2	60.9	63.3	60.6	63.3	61.7	57.6	58.1	54.0
4	62.8	66.4	55.6	59.6	66.0	61.6	64.8	62.0	64.7	62.9	58.9	60.3	55.8
5	63.0	66.0	56.1	62.8	65.1	60.8	64.3	61.8	64.3	62.4	58.4	59.3	58.3
6	61.7	65.2	53.2	57.8	64.8	60.1	62.9	60.3	62.9	60.9	56.5	58.4	66.8
7	63.3	65.6	58.2	58.0	65.2	62.0	64.2	61.5	64.3	62.5	58.5	59.8	55.9
8	59.8	65.5	58.9	63.3	63.7	52.4	54.4	59.7	65.3	63.7	62.1	59.6	60.9
9	62.2	66.7	57.4	62.1	66.1	55.2	58.2	57.9	62.1	59.7	58.1	53.3	63.4
10	64.7	65.4	55.2	57.8	64.7	60.0	63.6	61.1	63.8	61.6	57.1	58.1	54.0
11	62.0	66.0	61.4	59.2	65.5	61.5	64.0	61.9	64.9	62.7	58.5	59.3	54.7
12	62.0	66.0	59.7	60.8	65.3	61.1	64.2	62.2	64.6	62.6	58.7	59.0	56.5
13	60.4	64.1	54.0	55.6	63.6	58.2	61.8	60.5	62.6	60.9	57.1	56.2	54.5
14	62.8	65.2	60.0	58.6	65.5	60.5	64.1	61.7	64.5	62.5	58.3	59.0	54.8
15	62.2	66.6	61.5	62.0	65.3	61.6	64.3	62.1	64.8	63.1	59.9	59.7	53.7
16	61.8	65.7	56.6	63.8	64.6	61.2	63.3	60.3	63.1	61.2	57.5	57.9	54.1
17	61.0	64.8	60.1	58.1	64.1	59.8	63.1	60.7	63.1	61.0	57.5	58.1	54.6
18	61.7	65.7	53.8	60.6	64.9	61.9	64.4	62.1	65.0	63.0	59.0	59.6	54.2
19	64.4	68.2	57.5	60.8	67.1	58.6	61.8	59.8	62.8	60.6	56.8	55.8	61.9
20	61.9	65.3	57.7	58.8	64.7	60.3	63.5	61.1	63.9	61.9	58.0	58.4	56.1
21	62.7	67.1	61.4	60.6	64.9	61.5	64.4	61.9	64.8	62.9	59.0	59.3	55.7
22	62.1	65.8	58.5	60.6	64.8	60.7	64.0	61.1	64.3	62.2	58.1	58.8	54.7
23	62.8	66.3	60.9	59.8	65.6	60.5	63.2	60.6	63.2	61.2	57.4	58.5	56.7
24	61.8	65.2	60.2	62.9	65.2	59.6	62.7	60.4	62.8	60.7	57.4	57.3	57.5
25	58.7	61.5	57.4	59.2	61.2	58.2	61.8	59.0	62.5	59.9	55.7	56.5	55.4
26	61.5	64.9	57.0	58.6	63.5	60.0	63.1	60.6	63.2	61.1	56.7	58.1	57.2
27	61.8	65.0	58.4	59.3	64.3	59.6	63.3	60.8	63.3	61.1	57.5	57.8	59.9
28	62.1	65.3	58.3	60.7	64.7	60.5	64.0	61.5	64.4	62.5	58.3	58.8	55.5
29	62.4	66.7	60.7	60.9	65.0	64.5	64.0	61.7	64.4	62.5	57.9	58.6	55.6
30	62.2	65.8	57.8	60.3	64.5	61.1	62.4	60.4	63.1	61.4	57.9	57.2	56.2
Average	62.1	65.7	58.6	60.8	64.8	60.4	63.2	61.0	63.9	62.0	58.3	58.3	58.5
# of Days	30	30	30	30	30	30	30	30	30	30	30	30	30

Note: * indicates days with missing NMT data

Table 5 – Daily Community Noise Equivalent Level (CNEL) Values – December 2021

Day	Remote Monitoring Terminal (RMT)												
	101	102	104	105	106	107	108	109	110	111	112	114	115
1	61.6	65.5	60.4	61.4	65.6	60.6	63.0	60.6	63.7	61.7	57.6	58.0	54.8
2	61.1	65.2	60.5	58.5	65.0	60.1	63.3	60.7	63.9	61.8	57.6	58.1	54.0
3	61.2	65.9	51.5	50.6	64.7	59.7	63.2	60.1	63.5	60.9	56.4	56.1	53.9
4	60.6	63.9	49.5	53.2	64.5	59.1	61.8	59.2	62.0	59.9	55.2	55.8	53.6
5	61.8	64.6	54.5	56.0	64.6	59.4	63.0	60.2	63.2	60.7	55.9	57.2	53.7
6	62.4	66.7	52.5	58.5	65.9	58.5	61.9	59.5	62.0	60.4	56.0	56.4	54.7
7	61.9	65.9	50.3	60.7	64.6	60.3	63.5	60.6	63.4	61.3	57.9	58.3	54.9
8	61.4	65.8	52.1	60.7	65.1	60.2	63.2	60.6	63.5	62.0	57.5	58.2	53.7
9	62.8	67.0	60.4	66.3	66.3	62.2	65.0	62.1	64.6	62.4	58.6	60.6	58.9
10	62.1	67.0	60.0	59.3	65.1	61.1	63.9	62.1	64.4	62.2	58.8	58.8	54.6
11	60.6	65.2	50.5	57.5	64.0	59.2	62.4	60.2	62.9	60.8	56.8	57.5	58.3
12	60.2	63.7	59.4	60.4	63.9	54.0	56.4	62.3	67.2	65.2	63.7	52.8	64.0
13	62.3	66.3	59.6	61.7	66.2	63.5	57.1	59.2	64.7	61.9	60.3	51.3	63.3
14	62.2	66.1	56.0	59.4	65.8	61.2	64.0	60.7	63.3	61.6	57.6	59.5	57.0
15	60.9	66.5	59.8	61.5	66.0	56.7	55.5	61.4	66.8	64.2	62.9	53.0	64.2
16	63.1	66.8	58.4	59.7	66.0	62.0	65.2	62.8	65.8	64.0	60.7	60.8	58.9
17	62.8	67.1	60.3	60.7	66.4	62.2	65.0	62.7	65.3	63.4	59.9	60.2	57.2
18	62.1	66.0	53.0	58.9	65.7	60.8	64.2	61.4	64.3	62.3	58.1	59.0	55.9
19	62.0	66.0	52.7	59.5	65.4	60.6	64.4	61.6	64.7	63.0	59.2	59.5	55.3
20	58.6	64.0	58.4	61.8	63.2	59.2	61.8	61.6	65.9	64.2	61.6	56.9	60.7
21	61.9	66.5	58.1	58.9	65.5	58.8	60.9	60.1	63.6	62.6	59.1	56.5	59.3
22	59.6	64.2	57.9	59.6	63.9	59.1	62.6	62.0	66.7	64.4	62.1	57.0	61.3
23	61.8	65.6	59.6	61.5	64.8	52.6	54.0	61.0	66.8	64.3	62.6	47.3	65.6
24	61.1	63.6	55.9	57.3	63.7	60.3	63.6	61.1	64.7	62.6	59.3	59.1	56.4
25	61.9	64.4	56.5	58.2	65.1	57.5	56.8	56.6	61.2	58.7	56.5	52.5	60.2
26	61.4	64.1	59.7	60.6	64.4	52.6	55.0	60.4	49.5	63.4	61.9	46.6	63.0
27	62.8	65.9	55.6	61.8	65.8	62.1	64.9	62.0	64.5	62.9	59.2	61.2	55.5
28	60.7	65.0	57.3	59.0	64.3	58.7	62.2	62.2	66.5	64.4	61.8	59.0	60.7
29	63.2	67.1	59.4	59.3	66.8	58.0	60.8	60.0	64.3	62.1	59.1	56.1	62.7
30	63.2	66.7	56.1	57.0	66.4	62.3	65.4	62.9	65.7	63.8	60.1	61.1	56.3
31	62.6	65.0	56.4	56.9	65.2	60.3	63.0	60.5	62.8	61.3	57.1	58.8	54.9
Average	61.8	65.7	57.6	60.0	65.2	60.1	62.7	61.1	64.5	62.6	59.7	57.9	59.6
# of Days	31	31	31	31	31	31	31	31	31	31	31	31	31

Note: * indicates days with missing NMT data

Table 6 – Monthly Community Noise Equivalent Level (CNEL) Values

Month, Year	Remote Monitoring Terminal (RMT)												
	101	102	104	105	106	107	108	109	110	111	112	114	115
January, 2021	58.6	61.5	55.0	56.1	61.5	55.5	58.5	56.5	70.0	57.5	54.1	53.6	54.5
# of Days	31	31	31	31	31	31	18	31	31	31	31	31	31
February, 2021	58.8	61.2	55.0	55.3	61.7	57.2	59.3	56.5	59.3	56.9	53.6	53.9	52.7
# of Days	28	28	27	27	28	27	27	27	27	27	27	27	28
March, 2021	59.7	62.5	54.3	57.8	62.4	57.5	60.6	58.1	61.0	58.9	56.0	55.1	54.7
# of Days	31	31	31	31	31	31	30	31	31	31	31	31	31
1st Quarter 2021	59.1	61.8	54.8	56.5	61.9	56.8	59.6	57.1	66.1	57.9	54.7	54.3	54.0
# of Days	90	90	89	89	90	89	75	89	89	89	89	89	90
April, 2021	60.5	63.5	56.1	54.0	63.5	58.2	61.3	58.5	61.0	59.2	55.0	55.7	54.8
# of Days	30	30	30	30	30	30	30	30	30	30	30	30	30
May, 2021	60.8	63.3	52.5	53.8	63.3	58.4	61.9	59.4	61.9	60.2	55.8	56.4	55.0
# of Days	31	31	31	31	31	31	31	31	31	31	31	31	31
June, 2021	61.8	64.4	53.1	53.8	64.3	59.0	62.4	59.7	69.2	60.8	56.3	57.1	55.7
# of Days	30	30	30	30	30	30	30	30	20	30	30	30	30
2nd Quarter 2021	61.1	63.7	54.2	53.9	63.7	58.5	61.9	59.2	65.7	60.1	55.7	56.4	55.2
# of Days	91	91	91	91	91	91	91	91	81	91	91	91	91
July, 2021	61.6	64.4	52.5	53.4	64.3	59.0	62.5	59.8	63.1	62.1	56.4	56.8	55.7
# of Days	31	31	31	31	31	31	31	31	29	31	31	31	31
August, 2021	61.4	64.7	54.1	55.2	64.3	59.2	62.6	59.9	67.9	61.1	56.7	57.0	56.1
# of Days	31	31	31	31	31	31	31	31	31	31	31	31	31
September, 2021	61.5	65.0	54.5	60.0	64.6	59.4	62.1	59.9	62.6	60.7	56.6	56.7	55.7
# of Days	30	30	30	30	30	30	30	30	30	30	30	30	30
3rd Quarter 2021	61.5	64.7	53.8	57.1	64.4	59.2	62.4	59.9	65.2	61.3	56.6	56.8	55.8
# of Days	92	92	92	92	92	92	92	92	90	92	92	92	92
October, 2021	61.7	65.1	55.3	59.5	64.4	60.0	62.8	60.6	70.2	61.7	58.3	57.8	58.1
# of Days	31	31	31	31	31	31	31	31	31	31	31	31	31
November, 2021	62.1	65.7	58.6	60.8	64.8	60.4	63.2	61.0	63.9	62.0	58.3	58.3	58.5
# of Days	30	30	30	30	30	30	30	30	30	30	30	30	30
December, 2021	61.8	65.7	57.6	60.0	65.2	60.1	62.7	61.1	64.5	62.6	59.7	57.9	59.6
# of Days	31	31	31	31	31	31	31	31	31	31	31	31	31
4th Quarter 2021	61.9	65.5	57.4	60.1	64.8	60.2	62.9	60.9	67.2	62.1	58.8	58.0	58.8
# of Days	92	92	92	92	92	92	92	92	92	92	92	92	92
Annual	61.0	64.5	55.3	57.5	63.9	58.8	62.0	59.5	66.1	60.6	56.7	56.6	56.3
# of Days	365	365	364	364	365	364	350	364	352	364	364	364	365
Online Percentage	100%	100%	100%	100%	100%	100%	96%	100%	96%	100%	100%	100%	100%

Table 7 – Annual Community Noise Equivalent Level (CNEL) Values

RMT #	Remote Monitoring Terminal (RMT)			
	4th Quarter 2021	3rd Quarter 2021	2nd Quarter 2021	1st Quarter 2021
101	61.0	60.2	59.2	57.9
102	64.5	63.4	62.2	61.3
104	55.3	54.3	53.7	52.8
105	57.5	55.9	54.8	54.3
106	63.9	62.9	61.8	60.3
107	58.8	57.8	56.9	55.7
108	62.0	61.1	60.2	59.0
109	59.5	58.3	57.3	55.9
110	66.1	67.1	66.7	65.9
111	60.6	59.4	58.2	56.7
112	56.7	55.3	56.5	55.8
114	56.6	55.5	54.7	53.4
115	56.3	54.6	53.7	52.9

Note:

The annual (4 quarter cumulative) values from the 2019 Q4 report for RMT 108, 109, 110, and 111 are shown below:

- 108: 65.2 dB
- 109: 62.5 dB
- 110: 66.1 dB
- 111: 64.1 dB

These 2019 Q4 CNEL values are approximately 3 dB higher than the levels for 2021 Q4 (as shown in Table 7) except for RMT 110, which is the same as 2021 4Q. These RMT locations are all to the west of SJC. Therefore, the aircraft CNEL at RMT 110 cannot be 66 dB when it is only 61 dB at RMT 111. Since three of the four CNEL values are approximately 3 dB less in 2021 Q4 than in 2019 Q4, we would expect the same at RMT 110 which would result in 63 dB at RMT 110 rather than 66 dB.

Airport staff visited the site of RMT 110 and noted significant construction/renovation work being done on several homes in the vicinity of the noise monitor. This suggests possible contamination of the aircraft noise data with non-aircraft community noise at RMT 110.