

# Quarterly Noise Report

For the California Department of Transportation

Second Quarter – Calendar Year 2023



**SAN DIEGO**  
INTERNATIONAL AIRPORT  
LET'S **GO.**

## Aircraft Noise Mitigation

September 5, 2023

# Q2 2023 Quarterly Noise Report

April 1 through June 30, 2023

The California Department of Transportation, Division of Aeronautics, granted a Variance from the requirements of Section 5012, Chapter 2.5, Subchapter 6, Title 21, of the California Administrative Code to the San Diego County Regional Airport Authority (Airport Authority) for the operation of San Diego International Airport (SDIA) on September 2, 2019.

This Quarterly Report was prepared by Aircraft Noise Staff at San Diego International Airport, in accordance with the Airport Noise Standards, State of California.



[Sjohnna Knack \(Sep 6, 2023 13:33 PDT\)](#)

---

Sjohnna Knack  
Director of Planning & Environmental  
Affairs



[Kim Becker \(Sep 7, 2023 08:26 PDT\)](#)

---

Kimberly J. Becker  
President/CEO

# Summary of Statistical Information for the California Department of Transportation

1. Size of Noise Impact Area as defined in the Noise Standards for the Quarter (California Code of Regulations, Title 21, Chapter 2.5, Subchapter 6)
  - Noise Impact Area (N.I.A) – 0.391 Square Miles (250.24 Acres)
  - Federal Military Impact Area (F.M.I.A.) – 0.138 Square Miles (88.32 Acres)
  
2. Estimated number of population and dwelling units within the Noise Impact Area as defined in the Noise Standards: <sup>1</sup>
  - Dwelling Units – 3,340 (Population – 7,010)
  
3. Number of Noise Complaints and Households during the Calendar Quarter:
  - 13,287 Complaints (103 Households)
  
4. Aircraft type having the greatest takeoff noise level operating at this Airport together with the estimated number of operations by this aircraft type during the calendar quarter reporting period:
  - Airbus A332 (182 Operations)
  
5. Number of Air Carrier Operations during the Calendar Quarter: <sup>2</sup> 48,911
  
6. Percentage of Air Carrier Aircraft Stage 3 or Better:
  - 100%
  
7. Number of Air Taxi Operations during the Calendar Quarter: 3,841
  
8. Number of General Aviation Operations during the Calendar Quarter: 2,482
  
9. Number of Military Operations during the Calendar Quarter: 311
  
10. Total number of Airport Operations during the Calendar Quarter: 55,545

---

Reference form DOA 617, 10/89.

<sup>1</sup> Population and dwelling unit calculations are based upon 2020 Census Block Boundary Data.  
<sup>2</sup> Airport Operation counts are taken from the FAA Operations & Performance Data, Operations Network (OPSNET) <https://aspm.faa.gov/opsnet/sys/Airport.asp>  
 Q2 QNR – 2023 3

## Noise Impact Areas

Using data generated from the Airport Noise and Operations Monitoring System (ANOMS) and Geographic Information System (GIS), the Airport Noise consultant Harris, Miller, Miller & Hanson Inc. (HMMH) developed the Noise Contour and determined the current Noise Impact Area (N.I.A.) and the Federal Military Impact Area (F.M.I.A.). Table 1 below contains square mile area for the Quarter compared to the same period last year.

**Table 1**

<b>Impact Area</b>	<b>Q2 2023</b>	<b>Q2 2022</b>	<b>Change</b>
N.I.A.	0.391	0.283	0.108
F.M.I.A	0.138	0.136	0.002

## Noise Contour

The Noise Contour on the subsequent page is prepared for the Airport Authority by consultant HMMH Inc., using their RealContours for Aviation Environmental Design Tool (AEDT) software. AEDT 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 extents of the contours are adjusted based on actual noise measurements from permanent noise monitors to meet Section 5032 of the California Noise Standards.

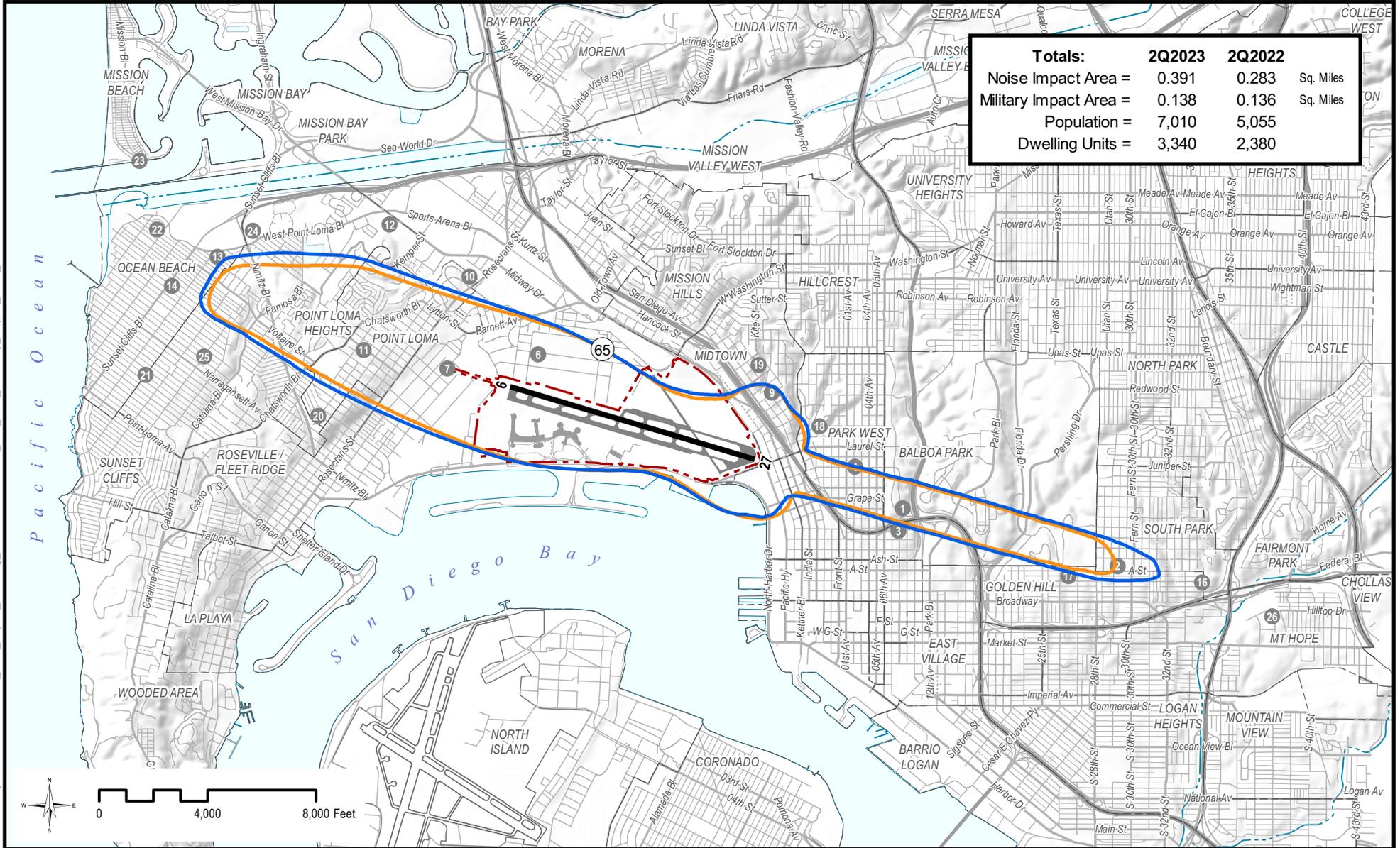
The use of GIS technology allows for direct counting of individual parcels within the Noise Contour. The modeling methodology fulfills the requirements of the State of California, Title 21, California Noise Standards. A review of measured and modeled noise levels indicate good agreement between several key measurement locations.

This was the sixth contour, since the COVID-19 pandemic, that increased in size. Below are the key observations causing the increase of the contour based on the Airport Noise & Operations Monitoring System (ANOMS) data. The data compares the aircraft operations between the time periods of July 2021 – June 2022 (2Q-2022) and July 2022 - June 2023 (2Q-2023).

- Total operations increased by 16%.
- Evening Operations (7:00 p.m. – 10:00 p.m.) increased by 14% and Nighttime Operations (10:00 p.m. – 7:00 a.m.) increased by 25%. These operations are weighted heavier in the model and were a significant reason for the increased size of the contour.

- As a result of evening and nighttime percent increase, the overall operations weighted heavier in the noise model (the daytime equivalent operations increased by 19% in 2Q-2023).
- Combined Airbus and Boeing narrow-body aircraft operations increased by 27%. Airbus family (A319, A320, A321, A220) increased by 34%. Similarly, narrow-body Boeing aircraft (B737-300/400/700/800, B737 MAX, B757) increased by 24%.

Overall, annual operations in 2Q-2023 showed an increase from the previous year, but still lower than the pre-pandemic levels of 2019. It is expected that the operations will keep increasing next year, although at a slower pace.



Path: G:\Projects\10XXXX\10560\_SAN\_Airport\_Planning\_On-Call\GIS\10560\_003\_SAN\_Quarterly\_Report\_2023\_Q2.mxd



- 2023 2nd Quarter 65 dB CNEL Contour
- 2022 2nd Quarter 65 dB CNEL Contour
- Airport Property
- Runway
- # RMT Site Location
- Roads
- - - River / Stream

### Comparison of the 2022 and 2023 Second Quarter 65 dB Community Noise Equivalent Level (CNEL) Contours



## Community Sound Insulation Program

Per the requirements of the Airport's Variance agreement, the Airport Authority is the sponsor to an active Community Sound Insulation Program, also known as the Quieter Home Program (QHP). In 2020, the Airport also initiated a non-residential sound insulation program. One of the facilities has been completed, and the QHP team is currently working on the second non-residential facility. Funding for the program is provided by grants awarded from the Airport Improvement Plan (AIP) component of the FAA's Airport and Airway Trust Fund (AATF), Airport Operating Revenues, and fines imposed for non-compliance with Airport Authority Code 9.40, Airport Use Regulations. Contours used for QHP eligibility are based on FAA-accepted Noise Exposure Maps as part of the Part 150 Noise Compatibility Program.

To date, QHP has completed 5,395 homes with a current waitlist of 508 units.

## Aircraft Noise Complaints

During the Quarter, the Aircraft Noise Office received a total of 13,287 complaints from 103 households. Where possible, complaints are correlated with a specific flight and examined for validity. Complaints are tabulated and reported on the Authority website on a monthly basis. This information can be retrieved by visiting the following website:

<https://www.san.org/Airport-Authority/Meetings-Agendas/ANAC>

## Quarterly Airport Operations Statistics

The Federal Aviation Administration captures Air Traffic Control Tower Counts on a monthly basis, in its Operations & Performance Data, Operations Network (OPSNET) database. OPSNET data is typically available to the public by the third week of the following month.

Current and historical operations data can be extracted at the following website: <https://aspm.faa.gov/opsnet/sys/Airport.asp>. Table 2, below, contains statistics of itinerant aircraft operations by FAA category for the Calendar Year Quarter compared to the same period last year.

**Table 2**

Operations	2nd Quarter 2023	2nd Quarter 2022	Net Change	Percent Change
<b>Air Carrier</b>	48,911	45,783	3,128	6.8%
<b>Air Taxi</b>	3,841	3,981	(140)	-3.5%
<b>General Aviation</b>	2,482	3,240	(758)	-23.4%
<b>Military</b>	311	316	(5)	-1.6%
<b>Total</b>	<b>55,545</b>	<b>53,320</b>	<b>2,225</b>	<b>4.2%</b>

## **Airport Use Regulations**

Airport Authority Code 9.40, Airport Use Regulations, defines Time of Day Use Restrictions (Curfew) for all Airport operators at SDIA. The Regulations restrict daily departures between the hours of 11:30 p.m. and 6:30 a.m. the following morning for Stage 3 (or better) compliant aircraft, and between 10:00 p.m. and 7:00 a.m. for non-complaint aircraft. Additionally, Air Carriers are only permitted to publish scheduled gate departure times between the hours 6:15 a.m. and 11:15 p.m., daily. Medical Evacuation/Lifeguard departures are exempt from the Restrictions.

Curfew violations are reported to the Curfew Violation Review Panel (CVRP) comprised of three (3) staff members appointed by the Executive Leadership Team of the Authority. The membership includes one (1) representative from each of the following Divisions: Airport Operations, Airport Development, and Finance. The Panel examines data and documentation collected during an investigation of alleged violations, and makes recommendations to the Program Manager, Aircraft Noise, for the disposition of the violation.

Monetary fine levels, associated with the Airport Use Regulations, are based on the number of violations in the two evaluation periods (January through June and July through December each year). The fines are subject to a multiplier for each penalized violation in the previous evaluation period. The base fines are \$2,000 for the first penalized violation, \$6,000 for the second penalized violation, and \$10,000 for each subsequent violation in the given evaluation period. If a carrier has a fined violation in the previous evaluation period, the base fine is multiplied by the number of penalized violations in the previous evaluation period.

Example:

An operator has two (2) fined violations in the January through June period. If they have a violation between July and December, the base fine level of \$2,000 would increase to \$4,000, a second violation increases from \$6,000 to \$12,000 and a third or any subsequent violations increases from \$10,000 to \$20,000.

During the Quarter, there were 32 noise curfew violations, 23 of which were penalized with imposed fines totaling \$344,000.

## **Airport Noise Advisory Committee (ANAC)**

The Airport Authority recognizes that neighborhoods surrounding SAN are affected by noise from aircraft operations. An Airport Noise Advisory Committee (ANAC), consisting of individuals from various organizations, residential areas, and professional associations, was formed in 1981 under the San Diego Unified Port District (SDUPD), previous proprietor of San Diego International Airport. ANAC is formally adopted as Airport Authority Policy 9.20.

Further information regarding Airport Noise Advisory Committee can be found at the following website:

<https://www.san.org/Airport-Noise/Initiatives>

## Quarterly and Annual CNEL Data

A summary of the Quarterly and Annual CNEL data is shown in Table 3 below. The levels are calculated utilizing the data found in the Airport Noise & Operations Monitoring System (ANOMS) section, which captures the Remote Monitoring Terminals (RMT) thresholds and Daily/Monthly CNEL Logs.

**Table 3**

RMT #	Quarter CNEL (dB)	Annual CNEL (dB)
1	70.2	70.0
2	66.3	65.9
3	66.9	66.7
4	65.6	65.4
6	68.8	68.9
7	74.3	74.1
9	66.8	66.6
10	63.3	63.3
11	70.7	70.5
12	61.0	60.7
13	65.1	64.8
14	64.3	64.1
16	64.4	64.2
17	65.2	64.7
18	59.3	60.5
19	62.3	62.9
20	60.8	60.3
21	57.0	56.8
22	63.3	63.1
23	62.7	61.9
24	64.2	63.7
25	60.9	60.6
26	63.3	63.3

### Notes:

- Annual CNEL data is a rolling 12-month period.
- RMTs #5, #8 and #15 are no longer operational as the noise impact boundary has decreased in size.

## Single Event Noise Exposure Level (SENEL) Comparison

The average Single Event Noise Exposure Level (SENEL) of the loudest 25% of the Operations Survey is shown in Table 4 below.

**Table 4**

	<b>Q2 2023</b>	<b>Q2 2022</b>	<b>Change (dB)</b>
<b>Arrivals</b>	96.5	96.1	0.40
<b>Departures</b>	101.3	101.5	-0.23

The data used to compile this section of the report is captured by reviewing the entire quarter to determine the loudest aircraft. The supporting data is listed in Tables 5 through 7 on subsequent pages. Tables 5 and 6 show top 25% of operations during the capture period. Table 7 contains the average daily operations by runway, time of day, operation type, and aircraft type.

**Table 5**

Quarterly SENEL Survey – Arrivals (RMT #1) – April – June 2023

<b>Aircraft Type</b>	<b>SENEL (dB)</b>	<b>Origin</b>	<b>Flight Number</b>	<b>Date and Time</b>
B763	103.7	MEM	FDX1422	5/9/2023 5:46 AM
B763	98.6	MEM	FDX1422	6/27/2023 5:38 AM
B753	98.2	ATL	DAL894	5/9/2023 12:35 PM
B734	98.1	LAS	SWQ3315	4/18/2023 3:30 PM
B753	97.7	ATL	DAL843	5/8/2023 4:51 PM
B753	97.6	ATL	DAL365	6/22/2023 6:53 PM
B734	97.3	LAS	SWQ3315	5/16/2023 3:45 PM
B763	97.1	IND	FDX1754	5/11/2023 5:12 AM
B753	96.8	ATL	DAL365	6/23/2023 6:55 PM
B763	96.8	SDF	UPS922	5/11/2023 4:38 AM
B733	96.7	SAT	SWQ3625	6/13/2023 7:56 AM
B753	96.7	ATL	DAL894	5/15/2023 12:23 PM
A332	96.6	HNL	HAL16	6/11/2023 7:12 PM
B763	96.6	MEM	FDX906	6/13/2023 5:11 PM
B753	96.6	ATL	DAL725	4/19/2023 9:45 AM
B763	96.6	ATL	DAL365	6/16/2023 7:21 PM
B753	96.6	ATL	DAL894	4/16/2023 12:55 PM
B739	96.5	PDX	ASA1074	6/2/2023 8:01 AM
B753	96.5	ATL	DAL531	5/9/2023 11:15 PM
B772	96.4	IAD	UAL1930	6/30/2023 11:54 AM
B772	96.3	IAD	UAL1930	6/25/2023 10:20 AM
B753	96.3	ATL	DAL894	5/23/2023 12:40 PM
B763	96.3	IND	FDX1754	6/28/2023 5:20 AM
B763	96.3	IND	FDX1754	5/2/2023 5:57 AM
B763	96.3	SDF	UPS922	6/14/2023 4:59 AM
B738	96.2	STL	SWA2757	5/25/2023 2:55 PM
B753	96.2	ATL	DAL725	6/21/2023 9:52 AM
B763	96.2	IND	FDX1754	4/25/2023 5:26 AM
B739	96.2	SLC	DAL2921	6/17/2023 11:45 PM
B752	96.1	IAD	UAL1337	4/23/2023 10:40 AM
B763	96.1	SDF	UPS922	6/29/2023 4:32 AM
E170	96.1	SFO	SKW3413	6/12/2023 8:26 AM
B753	96.1	ATL	DAL531	5/29/2023 11:12 PM
B763	96.1	SDF	UPS922	4/12/2023 4:28 AM
B763	96.1	SDF	UPS922	5/24/2023 4:49 AM
B753	96.1	ATL	DAL894	5/2/2023 1:00 PM
B753	96.0	ATL	DAL894	4/1/2023 2:09 PM
B753	96.0	ATL	DAL894	4/23/2023 1:01 PM
E170	96.0	PAE	QXE2207	5/19/2023 9:42 AM

**Table 5 – Continued**

Quarterly SENEL Survey – Arrivals (RMT #1) – April – June 2023

<b>Aircraft Type</b>	<b>SENEL (dB)</b>	<b>Origin</b>	<b>Flight Number</b>	<b>Date and Time</b>
B752	96.0	EWR	UAL794	4/14/2023 11:06 AM
B763	96.0	SDF	UPS922	4/4/2023 4:54 AM
B763	96.0	JFK	DAL960	6/10/2023 10:59 AM
B753	96.0	ATL	DAL894	4/7/2023 12:40 PM
B753	96.0	ATL	DAL947	5/16/2023 7:15 PM
B753	95.9	ATL	DAL725	6/10/2023 9:51 AM
A35K	95.9	LHR	BAW44N	6/5/2023 4:20 PM
B753	95.9	ATL	DAL725	6/13/2023 10:01 AM
B753	95.9	ATL	DAL894	6/2/2023 12:28 PM
B753	95.9	ATL	DAL947	5/7/2023 7:49 PM
B763	95.8	MEM	FDX1422	5/26/2023 5:27 AM
B753	95.8	ATL	DAL531	5/8/2023 11:20 PM
B753	95.8	ATL	DAL725	5/26/2023 10:27 AM
B753	95.8	ATL	DAL947	5/15/2023 6:56 PM
B753	95.8	ATL	DAL937	4/2/2023 11:40 PM
B753	95.8	ATL	DAL486	4/30/2023 11:23 PM
B753	95.8	ATL	DAL894	5/12/2023 12:28 PM
B734	95.8	LAS	SWQ3315	4/25/2023 12:55 PM
A35K	95.8	LHR	BAW44N	6/11/2023 4:03 PM
A332	95.7	HNL	HAL16	5/14/2023 7:51 PM
B763	95.7	MEM	FDX906	6/18/2023 5:13 PM
B734	95.7	LAS	SWQ3317	5/23/2023 3:48 PM
B739	95.7	SEA	ASA1108	6/2/2023 8:10 AM
A35K	95.7	LHR	BAW44N	5/13/2023 4:35 PM
B753	95.7	ATL	DAL843	4/14/2023 5:02 PM
B763	95.7	MEM	FDX906	6/10/2023 6:06 PM
B753	95.7	ATL	DAL843	5/27/2023 5:00 PM

**Table 6**

Quarterly SENEL Survey – Departures (RMT #7) – April – June 2023

<b>Aircraft Type</b>	<b>SENEL (dB)</b>	<b>Destination</b>	<b>Flight Number</b>	<b>Date and Time</b>
A332	102.6	HNL	HAL15	4/23/2023 7:58 AM
A332	102.5	HNL	HAL15	6/7/2023 7:35 AM
B738	102.1	JFK	DAL521	4/23/2023 10:14 PM
A332	102.1	HNL	HAL15	6/3/2023 7:30 AM
A332	102.0	HNL	HAL15	4/26/2023 8:25 AM
A332	101.9	HNL	HAL15	6/16/2023 8:52 AM
A321	101.8	ORD	AAL518	6/16/2023 6:44 AM
A332	101.7	HNL	HAL15	6/11/2023 7:44 AM
A332	101.7	HNL	HAL15	4/16/2023 8:52 AM
B739	101.7	KOA	ASA899	6/30/2023 10:08 AM
A332	101.6	HNL	HAL15	6/22/2023 7:39 AM
B753	101.6	ATL	DAL546	5/5/2023 11:39 AM
A332	101.6	HNL	HAL15	5/5/2023 8:29 AM
B739	101.6	DTW	DAL2597	6/29/2023 7:42 AM
A321	101.6	CLT	AAL2657	6/30/2023 12:02 PM
A321	101.6	DFW	AAL1055	6/14/2023 6:42 AM
B739	101.5	EWR	UAL1532	5/5/2023 1:04 PM
A332	101.5	HNL	HAL15	6/30/2023 7:52 AM
B739	101.5	EWR	UAL1532	5/18/2023 1:03 PM
A321	101.5	JFK	JBU1190	4/22/2023 9:48 PM
B738	101.4	ORD	AAL2343	6/2/2023 11:48 AM
A321	101.4	CLT	AAL1651	6/20/2023 6:34 AM
B739	101.4	EWR	UAL1532	5/26/2023 12:42 PM
A321	101.4	DFW	AAL1955	5/4/2023 1:58 PM
A332	101.4	HNL	HAL15	5/2/2023 8:15 AM
A321	101.3	CLT	AAL2935	5/24/2023 1:35 PM
A321	101.3	CLT	AAL1651	6/10/2023 6:38 AM
A321	101.3	MIA	AAL327	4/22/2023 10:26 PM
B772	101.3	IAD	UAL2282	6/21/2023 1:20 PM
A332	101.2	HNL	HAL15	6/27/2023 8:02 AM
A321	101.2	CLT	AAL2545	4/6/2023 6:33 AM
B739	101.2	IAD	UAL546	5/7/2023 8:09 AM
B739	101.2	MCO	ASA396	4/13/2023 11:24 AM
A321	101.2	ORD	AAL1244	4/27/2023 11:13 PM
A321	101.2	CLT	AAL797	6/3/2023 10:36 PM
B739	101.2	IAD	UAL546	6/27/2023 7:18 AM
A321	101.1	ORD	AAL1244	6/25/2023 11:13 PM
A321	101.1	CLT	AAL1651	5/5/2023 7:39 AM
B738	101.1	JFK	DAL389	6/1/2023 10:34 PM

**Table 6 – Continued**

Quarterly SENEL Survey – Departures (RMT #7) – April – June 2023

<b>Aircraft Type</b>	<b>SENEL (dB)</b>	<b>Destination</b>	<b>Flight Number</b>	<b>Date and Time</b>
A332	101.1	HNL	HAL15	5/13/2023 10:07 AM
A332	101.1	HNL	HAL15	4/13/2023 8:05 AM
B739	101.1	ORD	UAL2478	5/24/2023 10:58 PM
B739	101.1	JFK	ASA36	6/16/2023 11:11 PM
B738	101.1	JFK	DAL672	4/24/2023 7:15 AM
A332	101.1	HNL	HAL15	5/22/2023 8:19 AM
B739	101.1	EWR	UAL2641	4/30/2023 10:57 PM
A321	101.0	CLT	AAL1651	4/26/2023 7:35 AM
B739	101.0	EWR	UAL1532	6/6/2023 2:03 PM
A332	101.0	HNL	HAL15	5/28/2023 7:44 AM
B737	101.0	BNA	SWA502	5/26/2023 2:21 PM
A321	101.0	CLT	AAL2935	5/19/2023 1:22 PM
A321	101.0	CLT	AAL1651	6/26/2023 6:43 AM
A332	101.0	HNL	HAL15	6/6/2023 7:32 AM
A321	101.0	CLT	AAL1651	6/1/2023 6:33 AM
B739	100.9	JFK	ASA36	6/30/2023 10:53 PM
A321	100.9	ORD	AAL518	5/1/2023 6:56 AM
B739	100.9	EWR	UAL2641	4/27/2023 10:23 PM
A321	100.9	ORD	AAL1244	6/15/2023 11:00 PM
A332	100.9	HNL	HAL15	6/10/2023 7:47 AM
A332	100.9	HNL	HAL15	4/25/2023 8:05 AM
A321	100.9	CLT	AAL1651	6/19/2023 6:45 AM
B739	100.9	EWR	UAL1532	6/21/2023 1:03 PM
A321	100.9	CLT	AAL1651	5/25/2023 7:52 AM
A332	100.9	HNL	HAL15	5/24/2023 12:46 PM
B739	100.9	JFK	ASA36	6/20/2023 10:55 PM
A332	100.9	HNL	HAL15	4/5/2023 8:03 AM

**Table 7**

Average Daily Operations <sup>3</sup> by Runway, Operation Type, Time of Day and Aircraft Type  
April – June 2023

Aircraft Type	Runway 27						Runway 9						Total
	Arrivals			Departures			Arrivals			Departures			
	7:00	19:00	22:00	7:00	19:00	22:00	7:00	19:00	22:00	7:00	19:00	22:00	
	18:59	21:59	6:59	18:59	21:59	6:59	18:59	21:59	6:59	18:59	21:59	6:59	
A223	1	0	0	1	1	0	0	0	0	0	0	0	3
A20N	4	3	1	4	1	2	0	0	0	0	0	0	15
A21N	1	4	1	3	1	4	0	0	0	0	0	0	14
A319	1	0	0	1	0	0	0	0	0	0	0	0	2
A320	7	2	2	6	2	2	0	0	0	0	0	0	21
A321	18	6	6	19	2	8	1	0	0	0	0	0	60
A332	0	1	0	1	0	0	0	0	0	0	0	0	2
A35K	1	0	0	0	1	0	0	0	0	0	0	0	2
B38M	17	5	4	18	5	3	1	0	0	1	0	0	54
B39M	6	3	2	7	2	1	0	0	0	0	0	0	21
B737	37	9	7	39	8	6	2	0	0	2	0	0	110
B738	31	7	6	35	7	3	1	0	0	1	0	0	91
B739	12	5	4	16	2	3	0	0	0	0	0	0	42
B752	1	0	0	1	0	0	0	0	0	0	0	0	2
B753	2	0	1	3	0	1	0	0	0	0	0	0	7
B763	1	0	2	1	2	1	0	0	0	0	0	0	7
B788	1	0	0	1	0	0	0	0	0	0	0	0	2
BE99	1	0	0	1	0	0	0	0	0	0	0	0	2
C208	2	0	0	1	0	0	0	0	0	0	0	0	3
CRJ7	1	0	0	1	0	0	0	0	0	0	0	0	2
CRJ9	1	0	1	2	0	0	0	0	0	0	0	0	4
E135	1	0	0	1	0	0	0	0	0	0	0	0	2
E75L	22	4	3	21	5	2	1	0	0	1	0	0	59
<b>Total</b>	<b>169</b>	<b>49</b>	<b>40</b>	<b>183</b>	<b>39</b>	<b>36</b>	<b>6</b>	<b>0</b>	<b>0</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>527</b>

<sup>3</sup> Average Daily Operations include Air Carriers, and Air Taxi. Operations with less than one aircraft on a daily average basis are not shown.

## Airport Noise & Operations Monitoring System (ANOMS)

The following tables capture the Remote Monitoring Terminal (RMT) data associated with this report. Table 8 provides the RMT thresholds, Tables 9 through 11 capture the Daily and Monthly CNEL levels for each month in the Quarter, and Table 12 captures the Air Carrier Operations by Aircraft Type for the current quarter. During the second and fourth quarter of each year, Table 13 captures the Air Carrier Operations by Aircraft Type for the six-month period (January – June and July – December).

There are variances in Table 12 between the ANOMS data and the FAA OPSNET data reported in the summary and Quarterly Airport Operations, due to the way aircraft operating at the Airport are categorized between Air Carrier and Air Taxi Operations. The prop/turboprop operations are typically captured in the FAA Air Taxi category due to their capacity and/or weight classification. The Air Taxi data captured by the FAA OPSNET system also includes fractional ownership operations (Business Jets) and small Regional Jets operated by the Air Carrier's Regional Airline partners. If a Regional Jet meets the payload weight limitation of 18,000 pounds or less, then the seating configuration (60 seat boundary) can alter the category that the operation falls into.

The FAA operator categories are defined as follows:

- **Air Carrier (AC):** Aircraft with seating capacity of more than 60 seats or a maximum payload capacity of more than 18,000 pounds, carrying passengers or cargo for hire or compensation. This includes US and foreign-flagged carriers.
- **Air Taxi (AT):** Aircraft designed to have a maximum seating capacity of 60 seats or less or a maximum payload capacity of 18,000 pounds or less, carrying passengers or cargo for hire or compensation.
- **General Aviation (GA):** Takeoffs and landings of all civil aircraft, except those classified as air carriers or air taxis.
- **Military:** All classes of military takeoffs and landings.

**Table 8**

## Remote Monitoring Terminals (RMTs) Thresholds

RMT #	SENEL Day Threshold (dB)	Duration (sec)	SENEL Evening Threshold (dB)	Duration (sec)	SENEL Night Threshold (dB)	Duration (sec)
1	73*	9	73	9	72*	10
2	63	10	60	12	58	14
3	74*	9	73	10	72*	10
4	64*	10	63	12	60*	12
6	68*	8	67	9	65*	10
7	65	12	63	12	62	15
9	68*	8	67	9	65*	10
10	65*	8	62	12	60*	13
11	65*	12	63	13	60*	15
12	64*	10	62	12	60*	14
13	65*	8	62	12	60*	13
14	65*	10	62	12	60*	13
16	67*	8	66	9	65*	10
17	64	9	62	12	58	15
18	65	8	65	8	62	12
19	64*	8	64	8	63*	8
20	62	11	62	11	60	13
21	60	10	58	12	55	18
22	65	8	63	10	60	12
23	65*	8	63	10	60*	12
24	65*	8	65	8	63*	10
25	65*	10	62	10	60*	12
26	65*	10	64	12	62*	14

**Day:** From 7:00 a.m. to 6:59 p.m. (\* = change occurs at 0500L)

**Evening:** From 7:00 p.m. to 9:59 p.m.

**Night:** From 10:00 p.m. to 6:59 a.m. (\* = change occurs at 0500L)

Note 1: RMTs #1 and #3 high threshold levels are due to high freeway and/or construction noise.

Note 2: Noise monitors comply with all applicable settings as specified in the California Noise Standards (Title 21). Noise events must meet both threshold criteria to be considered for further review.

**Table 9**

Daily/Monthly CNEL Levels – April 2023

Day	RMT 1	RMT 2	RMT 3	RMT 4	RMT 6	RMT 7	RMT 9	RMT 10	RMT 11	RMT 12	RMT 13	RMT 14	RMT 16	RMT 17	RMT 18	RMT 19	RMT 20	RMT 21	RMT 22	RMT 23	RMT 24	RMT 25	RMT 26
1	69.7	66.1	68.9	64.1	68.2	73.3	68.5	62.7	69.7	60.0	64.5	63.8	64.5	64.4	63.0	64.5	60.5	57.3	62.6	60.2	63.3	61.9	62.7
2	70.7	66.9	64.8	65.3	68.7	74.2	68.4	63.5	70.3	61.3	65.6	64.0	65.1	65.5	57.4	63.2	60.6	57.3	63.6	62.1	64.6	60.7	63.9
3	71.1	67.6	67.5	65.5	69.4	73.0	66.8	63.9	69.5	61.3	65.4	64.4	65.5	66.5	62.5	63.2	61.7	58.6	64.1	63.6	65.5	62.4	64.4
4	70.1	66.1	67.6	64.4	67.7	73.0	62.2	62.3	69.4	60.8	63.9	63.3	64.2	64.9	53.6	54.4	60.7	58.1	62.6	60.5	63.3	61.2	63.3
5	70.3	66.2	67.7	64.6	68.3	73.6	67.0	63.4	69.6	60.4	64.5	63.6	64.4	64.8	62.4	61.6	60.5	56.8	63.0	60.6	64.1	60.7	67.2
6	70.7	66.3	69.4	64.9	69.0	74.2	68.4	62.8	70.0	61.1	64.1	63.4	64.7	65.4	63.3	65.0	60.0	56.1	62.6	60.0	64.9	60.2	63.0
7	70.8	66.8	69.4	65.9	69.2	74.5	68.6	63.8	70.6	61.1	65.5	64.4	65.0	65.4	60.2	64.3	61.0	57.6	63.7	61.5	65.7	62.3	63.3
8	69.4	65.7	68.0	64.0	67.7	73.4	67.1	62.3	69.8	59.0	64.3	63.8	63.4	64.3	56.7	60.1	59.8	57.0	62.8	60.3	62.6	60.7	62.2
9	67.6	63.7	67.4	68.7	66.3	74.6	66.5	58.4	71.7	55.9	61.9	66.3	61.6	63.8	63.7	59.9	55.6	51.3	59.4	57.1	59.6	56.2	60.0
10	65.8	61.8	65.5	67.8	67.9	75.8	67.4	60.6	72.5	55.9	63.0	67.5	59.9	61.8	63.0	62.5	57.2	55.2	62.4	58.5	60.5	58.3	57.9
11	69.4	65.1	64.9	65.6	67.8	74.4	66.1	61.0	70.6	59.1	62.7	64.8	62.9	64.0	58.3	61.9	57.1	52.5	60.6	59.4	61.0	59.3	61.4
12	68.4	63.9	66.0	69.4	69.7	75.4	67.0	61.0	72.0	57.2	61.9	67.1	63.2	67.7	65.6	64.1	56.5	52.3	59.9	56.7	58.9	57.2	60.2
13	70.7	66.8	66.3	65.4	69.7	75.0	67.7	64.0	71.3	61.7	66.2	65.9	65.8	65.5	61.0	64.6	60.8	58.1	64.4	63.2	64.7	61.7	63.8
14	70.3	66.8	69.2	68.0	68.8	74.6	68.1	63.9	70.9	61.7	66.0	64.5	64.9	66.0	56.2	64.8	61.4	58.1	64.4	63.5	64.6	61.6	63.6
15	69.6	65.9	67.7	64.4	67.7	73.5	66.5	62.6	69.9	60.0	64.8	64.3	63.9	64.3	60.6	62.6	60.7	57.6	63.4	61.0	63.1	61.1	62.8
16	70.3	66.6	66.1	65.0	69.2	75.1	67.1	63.7	71.1	60.4	64.8	63.2	64.5	65.1	58.0	61.5	60.6	54.6	62.6	60.1	63.5	59.6	63.4
17	70.6	66.9	66.0	65.2	68.6	74.0	65.7	63.9	70.1	61.7	64.9	63.4	65.0	65.5	56.3	62.6	60.0	56.5	63.0	63.4	63.6	59.7	63.5
18	69.4	65.6	66.3	65.8	68.6	73.6	66.1	63.2	70.0	60.4	64.7	64.7	63.6	65.1	60.4	62.1	59.9	57.4	63.2	63.3	65.7	61.4	62.5
19	70.1	66.2	68.0	65.1	68.3	74.0	67.4	63.4	70.4	60.9	65.4	64.6	64.4	65.4	56.2	63.8	60.8	58.0	63.8	63.8	63.5	61.6	63.3
20	69.9	65.7	66.6	65.5	68.8	74.2	67.5	63.9	70.3	60.8	64.8	64.3	64.2	65.0	62.4	64.1	60.6	57.5	63.3	62.4	63.2	61.2	62.5
21	70.5	66.2	67.1	64.9	68.3	74.7	68.7	63.1	70.3	60.0	64.3	63.5	65.3	65.0	64.5	63.8	60.5	55.9	62.7	63.0	62.9	60.1	62.7
22	68.1	64.4	64.5	62.8	67.4	73.8	65.8	62.3	70.0	59.1	63.8	63.5	62.6	63.2	58.7	62.4	59.2	55.9	62.1	59.5	62.1	59.8	61.5
23	70.2	66.5	63.8	64.8	68.9	75.2	67.2	63.4	71.0	61.4	65.0	63.7	64.6	65.0	58.1	63.8	60.0	55.1	62.9	61.1	63.6	59.4	63.2
24	69.8	66.4	64.1	64.3	69.2	74.9	66.2	64.0	71.0	60.3	65.5	64.3	64.5	65.6	53.8	63.5	60.8	57.2	63.6	62.4	64.0	61.0	62.9
25	69.6	65.8	64.4	64.5	68.3	74.0	66.0	63.4	70.7	61.5	65.2	64.3	64.1	65.2	55.4	62.5	61.0	57.3	63.6	62.6	63.7	62.4	62.7
26	69.7	65.9	66.5	65.2	68.4	74.5	66.1	62.4	70.4	59.2	63.1	63.3	63.5	65.0	56.8	58.1	59.6	53.4	61.0	61.8	61.4	60.7	62.7
27	70.3	66.1	67.4	66.3	68.4	74.6	67.0	62.4	70.8	60.3	63.9	64.6	63.8	65.4	59.9	59.8	58.3	54.5	61.9	62.8	63.0	59.5	62.9
28	69.9	66.0	69.1	67.0	69.6	74.9	66.7	62.9	70.5	59.4	63.5	64.1	63.7	69.2	58.8	60.6	58.6	53.1	61.7	61.5	62.6	58.1	62.6
29	68.6	65.0	65.6	63.8	67.6	73.5	65.4	61.4	69.1	57.5	62.4	61.9	62.7	63.7	56.2	59.3	57.8	52.5	60.8	58.5	60.8	57.5	61.5
30	70.1	66.1	64.6	66.0	68.7	74.5	66.7	62.4	70.9	59.3	63.4	62.7	64.1	64.6	60.4	63.0	58.9	50.7	60.8	59.5	62.2	55.9	62.6
<b>Month</b>	<b>69.8</b>	<b>66.0</b>	<b>67.0</b>	<b>65.7</b>	<b>68.5</b>	<b>74.3</b>	<b>67.0</b>	<b>62.9</b>	<b>70.5</b>	<b>60.2</b>	<b>64.4</b>	<b>64.4</b>	<b>64.1</b>	<b>65.3</b>	<b>60.6</b>	<b>62.7</b>	<b>59.9</b>	<b>56.3</b>	<b>62.7</b>	<b>61.5</b>	<b>63.4</b>	<b>60.4</b>	<b>62.9</b>

**Table 10**

Daily/Monthly CNEL Levels – May 2023

Day	RMT 1	RMT 2	RMT 3	RMT 4	RMT 6	RMT 7	RMT 9	RMT 10	RMT 11	RMT 12	RMT 13	RMT 14	RMT 16	RMT 17	RMT 18	RMT 19	RMT 20	RMT 21	RMT 22	RMT 23	RMT 24	RMT 25	RMT 26
1	70.4	67.0	64.2	65.3	70.0	74.4	67.6	64.5	70.9	61.2	65.8	64.5	65.3	66.1	58.5	64.1	61.1	57.7	64.2	64.0	64.2	61.1	63.8
2	69.6	65.9	66.2	64.3	68.4	73.0	67.0	63.3	69.4	61.4	65.0	64.3	63.9	65.6	59.9	62.8	60.3	58.1	63.5	64.3	63.4	61.6	62.9
3	70.1	66.5	64.7	66.6	68.7	73.9	66.7	63.5	70.2	60.8	65.1	64.0	64.8	65.4	57.6	62.0	60.8	57.9	63.5	64.2	63.5	61.4	63.6
4	70.7	66.9	64.5	65.3	69.9	74.7	68.3	65.0	70.7	62.0	66.0	65.4	65.5	65.6	62.1	66.5	61.0	58.6	64.5	63.7	64.7	62.0	64.1
5	70.9	67.0	69.9	65.3	68.8	74.2	68.1	64.2	70.6	61.5	65.7	64.6	65.8	65.7	59.6	64.4	61.7	58.6	64.1	62.1	64.4	62.1	64.0
6	68.8	65.1	67.9	63.5	67.6	73.0	62.8	62.4	69.2	60.0	64.3	63.5	63.1	63.8	53.5	53.2	60.2	57.2	62.9	60.7	62.5	61.0	62.1
7	70.1	66.3	67.0	64.8	69.1	74.4	67.6	64.1	70.8	61.3	65.9	64.7	64.2	64.9	57.7	61.5	61.3	58.3	64.3	62.3	64.4	62.6	63.4
8	70.2	66.5	65.6	65.1	68.8	74.4	66.3	63.8	70.6	60.7	65.7	64.4	64.6	65.1	57.9	61.1	61.1	58.0	64.1	61.9	64.1	61.4	63.5
9	71.1	66.6	65.4	65.3	68.9	73.3	66.6	63.7	69.7	63.1	64.8	64.0	64.8	65.3	59.8	63.8	60.4	57.7	63.3	62.1	63.5	61.0	63.9
10	69.9	66.4	65.4	64.8	68.9	73.2	66.5	63.2	69.6	60.6	65.4	64.1	64.9	64.9	60.2	63.6	60.1	57.9	63.5	63.0	63.6	62.1	63.4
11	70.8	66.9	66.7	65.5	69.5	74.3	67.3	64.3	70.7	61.4	65.9	65.1	64.9	65.5	59.3	62.7	61.6	59.1	64.3	62.3	64.4	62.7	63.8
12	70.6	66.7	68.5	65.6	69.6	74.7	66.8	63.4	70.9	60.5	65.4	64.4	64.7	65.2	58.3	62.3	61.3	57.1	63.5	61.7	64.1	61.1	63.8
13	69.0	65.0	65.2	63.9	67.6	73.9	65.4	61.4	69.3	57.1	61.5	61.2	63.2	63.6	56.0	61.3	57.9	53.6	59.2	57.8	59.8	58.8	61.9
14	69.7	66.0	64.4	65.9	68.5	74.7	66.0	62.2	70.6	58.5	63.5	63.2	64.0	64.7	58.8	63.3	58.7	52.3	61.3	59.2	61.9	57.2	62.2
15	70.4	66.5	65.7	65.1	68.7	74.6	66.4	63.7	70.7	60.3	65.2	63.7	64.8	65.1	56.2	62.6	63.9	57.5	63.9	62.2	63.5	59.8	63.7
16	69.5	65.4	66.7	66.3	67.9	74.1	66.8	61.6	70.0	58.0	63.1	63.9	63.0	64.1	59.1	58.9	58.1	53.5	61.0	60.4	61.7	57.6	62.3
17	69.5	65.3	68.6	69.4	66.4	72.8	66.1	60.5	70.3	58.1	63.0	63.8	63.2	64.3	63.9	60.8	57.5	51.9	61.0	60.0	61.5	56.1	62.2
18	71.1	67.0	67.8	69.9	69.1	73.9	66.3	62.6	70.8	61.2	64.1	64.0	65.3	65.6	64.5	63.3	58.5	54.2	61.8	68.5	62.9	57.8	63.9
19	70.8	66.8	67.3	66.0	69.2	75.3	66.9	63.8	71.6	60.8	65.1	63.7	65.2	65.5	57.1	63.7	61.3	55.7	63.0	67.5	63.6	60.4	63.4
20	69.5	65.9	66.9	64.3	68.1	73.5	65.3	62.1	69.7	63.2	63.6	62.7	63.9	64.3	56.3	60.9	59.5	54.2	61.5	59.1	61.9	59.0	62.8
21	70.4	66.5	64.6	66.1	69.5	75.2	66.8	63.3	70.7	60.2	65.1	62.9	64.1	65.2	58.1	62.9	59.8	54.1	62.8	61.4	63.8	59.0	62.6
22	70.3	66.0	64.4	66.1	69.1	74.8	66.6	63.0	70.8	59.1	64.2	63.3	64.3	64.8	58.7	62.9	59.3	53.9	62.1	68.6	62.8	58.6	62.3
23	70.2	66.3	64.4	65.1	69.2	74.2	66.0	64.3	70.1	60.6	64.9	64.2	64.7	65.0	56.5	62.9	59.9	56.6	63.1	70.4	63.7	60.7	63.4
24	70.4	66.8	65.9	65.5	68.7	74.6	66.4	63.7	70.8	62.6	65.7	64.5	64.9	65.2	58.7	64.0	60.9	57.3	64.1	69.0	66.5	61.0	63.5
25	70.8	67.0	66.3	65.8	69.5	74.6	66.8	64.4	70.9	63.4	66.2	64.9	65.1	65.9	59.6	63.5	61.3	58.3	64.5	65.5	70.6	62.0	64.1
26	70.8	67.0	68.3	65.7	69.3	74.0	67.0	63.8	70.3	61.4	65.8	64.6	65.0	65.7	59.4	62.5	60.9	58.1	64.3	62.9	70.3	61.4	64.1
27	69.5	65.4	66.8	64.2	67.6	72.3	64.5	62.3	68.7	59.7	63.7	62.7	63.2	64.0	56.7	56.1	59.6	56.4	61.9	59.4	62.0	60.2	62.6
28	69.0	65.6	65.6	64.3	67.8	73.1	64.8	62.5	69.5	60.1	64.9	64.0	63.8	64.3	54.8	59.9	60.1	57.1	63.1	61.6	63.1	61.1	62.7
29	70.3	66.5	64.3	65.3	68.7	73.6	65.3	63.6	70.0	61.0	65.2	63.6	64.5	65.2	56.6	62.2	60.2	56.2	63.2	61.6	64.0	60.3	63.5
30	70.0	66.2	66.6	64.7	68.6	74.1	66.6	63.2	70.7	61.6	65.6	64.4	64.1	65.2	55.9	59.5	62.8	57.9	64.1	62.0	65.3	61.5	64.0
31	70.3	66.6	67.5	65.4	68.4	73.5	66.8	63.7	70.2	61.6	65.4	64.2	64.6	65.7	59.0	62.0	61.1	58.1	63.8	61.6	65.4	61.9	64.1
<b>Month</b>	<b>70.2</b>	<b>66.3</b>	<b>66.5</b>	<b>65.7</b>	<b>68.8</b>	<b>74.1</b>	<b>66.5</b>	<b>63.4</b>	<b>70.3</b>	<b>61.0</b>	<b>65.0</b>	<b>64.0</b>	<b>64.5</b>	<b>65.1</b>	<b>59.1</b>	<b>62.5</b>	<b>60.6</b>	<b>56.9</b>	<b>63.2</b>	<b>64.2</b>	<b>64.6</b>	<b>60.7</b>	<b>63.3</b>

**Table 11**

Daily/Monthly CNEL Levels – June 2023

Day	RMT 1	RMT 2	RMT 3	RMT 4	RMT 6	RMT 7	RMT 9	RMT 10	RMT 11	RMT 12	RMT 13	RMT 14	RMT 16	RMT 17	RMT 18	RMT 19	RMT 20	RMT 21	RMT 22	RMT 23	RMT 24	RMT 25	RMT 26
1	70.3	66.5	67.6	65.3	69.0	74.0	66.2	63.8	70.4	61.6	65.7	64.6	64.5	65.1	58.8	61.9	60.8	58.1	64.1	64.2	64.4	61.5	63.9
2	71.1	67.0	69.5	65.7	68.7	73.7	66.1	63.2	70.1	60.7	65.5	64.7	64.7	65.6	57.6	58.7	61.3	58.2	63.9	61.8	64.2	61.9	64.0
3	69.0	65.3	66.9	64.9	67.8	73.8	65.7	62.4	70.1	59.2	64.1	64.0	63.0	63.7	56.7	60.0	59.5	55.0	62.1	59.5	62.5	59.2	62.2
4	69.8	66.2	65.0	64.9	68.9	74.9	67.2	63.3	71.3	61.2	65.9	64.8	64.5	64.7	56.9	61.5	61.3	57.1	63.9	62.0	64.3	61.1	63.2
5	70.2	66.6	64.4	65.1	69.1	74.2	66.0	64.0	70.7	61.4	66.0	65.0	65.0	65.1	58.0	63.3	61.3	58.3	64.4	62.7	64.7	61.4	63.5
6	70.2	66.5	65.2	65.0	69.0	74.3	66.2	63.9	71.0	61.6	65.6	64.6	64.6	65.0	57.0	63.5	61.3	58.0	63.9	61.7	64.1	61.7	63.5
7	70.4	66.6	67.4	65.2	68.8	74.4	66.9	63.7	71.3	61.5	65.7	64.8	64.5	65.6	57.4	62.7	61.9	58.6	64.0	61.5	64.2	62.4	63.9
8	70.6	66.6	67.5	65.7	69.4	74.5	66.9	64.1	71.1	62.8	66.1	64.9	64.4	65.1	58.4	60.1	61.6	58.5	64.3	62.4	64.5	62.3	63.8
9	70.9	67.0	69.3	65.7	69.5	74.9	66.2	64.0	71.7	62.5	66.0	65.1	64.7	65.8	56.7	57.9	62.5	58.2	64.2	62.1	66.2	62.2	64.0
10	69.7	66.0	65.8	64.4	68.3	73.9	66.3	62.8	70.3	60.3	65.0	64.4	64.1	64.6	59.1	62.1	60.9	57.3	63.7	61.2	63.4	61.3	62.9
11	70.3	66.5	65.3	65.4	69.6	75.5	67.1	64.3	72.3	62.2	66.9	65.2	64.7	65.3	58.4	64.6	62.5	58.6	65.0	63.3	65.2	62.3	63.6
12	70.4	66.6	66.3	65.0	69.6	74.5	66.3	64.2	71.5	62.1	66.3	65.1	64.5	65.4	57.0	62.0	62.0	58.7	64.5	63.0	65.5	62.6	63.8
13	70.6	66.8	67.1	65.3	68.9	73.8	66.8	63.4	70.7	61.0	65.0	64.5	64.4	65.5	58.3	59.2	61.4	58.5	63.4	61.1	63.7	61.8	63.9
14	70.6	66.3	67.2	65.6	69.0	74.6	67.8	63.6	71.5	62.2	65.4	64.6	64.1	65.2	59.2	61.3	61.7	57.5	63.5	61.1	63.8	61.9	63.3
15	70.8	67.1	68.4	66.2	68.7	74.4	66.6	63.1	71.2	61.4	65.8	64.6	65.1	65.8	57.9	60.6	61.3	57.6	64.0	62.1	65.7	61.4	64.0
16	70.9	67.0	69.7	66.0	69.6	75.3	67.0	64.1	72.0	62.3	66.1	64.8	64.7	65.8	57.0	58.7	62.2	57.3	64.1	62.8	64.6	61.8	64.0
17	70.2	66.4	67.9	65.2	68.2	73.9	66.2	61.4	69.5	57.0	62.8	62.5	63.9	65.0	57.4	58.9	58.5	54.0	61.0	58.8	61.3	58.2	63.0
18	70.2	66.5	66.8	65.2	69.2	75.2	67.3	63.5	71.6	61.0	65.8	64.3	64.3	65.1	57.4	62.0	61.4	56.4	63.6	62.5	64.4	61.2	63.5
19	69.8	66.3	66.5	65.0	69.1	75.4	67.5	64.0	72.1	62.0	66.4	65.1	64.3	64.9	56.2	62.4	62.4	58.6	65.4	62.8	65.1	62.2	63.3
20	70.4	66.5	67.4	65.8	68.7	74.7	66.5	63.2	71.4	61.4	65.5	64.5	64.4	65.4	58.4	58.7	61.6	57.4	63.8	61.1	64.0	61.4	63.7
21	70.1	66.2	66.4	65.0	69.1	74.8	66.9	63.6	71.4	61.6	65.2	64.5	64.0	64.9	56.7	61.2	61.5	57.8	63.4	61.4	63.8	61.5	63.1
22	71.2	67.6	67.7	66.2	69.6	75.1	67.5	64.3	72.0	62.5	66.3	64.9	65.6	66.5	58.9	63.7	62.3	58.1	64.4	62.7	65.2	62.3	64.5
23	70.9	67.1	69.2	65.8	69.9	74.5	67.7	64.1	71.2	62.1	65.9	64.6	64.9	65.9	58.3	61.0	61.9	58.1	64.2	62.4	64.9	61.7	64.3
24	70.0	66.1	67.6	65.4	68.3	74.0	65.9	62.9	70.7	62.3	65.4	64.5	64.0	64.7	56.5	60.3	61.4	58.0	63.6	61.3	63.9	61.6	63.3
25	70.2	66.3	67.9	65.2	69.1	75.0	67.4	63.9	71.8	61.9	66.4	65.2	64.2	65.2	56.8	59.8	62.5	58.6	64.6	62.4	64.9	62.5	63.6
26	70.1	66.3	66.1	65.1	69.3	74.7	66.4	64.6	71.6	61.9	65.9	63.9	64.4	65.2	56.4	61.1	61.8	57.2	64.8	61.5	65.9	61.0	64.0
27	70.9	66.8	66.1	65.6	68.5	74.1	66.2	63.2	70.7	61.0	65.0	63.8	64.5	65.8	55.6	59.9	61.0	56.8	63.1	61.0	63.9	61.0	63.9
28	70.2	66.5	66.0	65.6	69.1	74.3	66.6	63.6	71.0	61.4	65.4	63.8	64.9	65.3	59.0	63.8	61.3	56.7	63.5	61.7	64.4	60.7	63.9
29	70.7	66.9	67.6	65.6	69.7	74.9	67.3	64.1	72.0	62.8	66.4	64.7	65.1	65.4	58.3	63.1	62.1	57.7	64.5	62.3	65.4	61.9	63.9
30	71.1	67.1	67.8	66.2	69.6	75.6	67.5	63.7	72.2	61.5	65.7	64.6	65.1	66.0	58.3	62.3	61.8	56.9	63.9	61.7	64.5	61.2	63.7
<b>Month</b>	<b>70.4</b>	<b>66.6</b>	<b>67.3</b>	<b>65.4</b>	<b>69.1</b>	<b>74.6</b>	<b>66.8</b>	<b>63.6</b>	<b>71.3</b>	<b>61.6</b>	<b>65.7</b>	<b>64.6</b>	<b>64.5</b>	<b>65.3</b>	<b>57.7</b>	<b>61.6</b>	<b>61.6</b>	<b>57.7</b>	<b>64.0</b>	<b>62.0</b>	<b>64.5</b>	<b>61.6</b>	<b>63.7</b>

**Table 12**

Air Carrier Operations by Aircraft Type captured by the Airport Noise & Operations Monitoring System – April – June 2023

	ACA	ASA	AAY	AAL	BAW	DAL	FDX	FFT	HAL	QXE	SWQ	JAL	JZA	JBU	JSX	DLH	SKW	SWA	NKS	SCX	UAL	UPS	WJA	
Aircraft Type	Air Canada	Alaska Airlines	Allegiant Air	American Airlines	British Airways	Delta Air Lines	FedEx Express	Frontier Airlines	Hawaiian Airlines	Horizon Air	iAero Airways (Swift Air)	Japan Airlines	Jaz Aviation	JetBlue Airways	JSX	Lufthansa	SkyWest Airlines	Southwest Airlines	Spirit Airlines	Sun Country Airlines	United Airlines	UPS Airlines	Westjet Airlines	Total Operations
A20N	0	0	0	0	0	0	0	996	0	0	0	0	0	0	0	0	0	0	404	0	0	0	0	1,400
A21N	0	0	0	693	0	262	0	74	180	0	0	0	0	64	0	0	0	0	0	0	0	0	0	1,273
A223	32	0	0	0	0	264	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	296
A306	0	0	0	0	0	0	49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	49
A310	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4
A319	0	0	110	2	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	182	0	0	302
A320	0	0	226	68	0	475	0	84	0	0	0	0	0	197	0	0	0	0	312	0	579	0	0	1,941
A321	0	0	0	3,007	0	1,405	0	111	0	0	0	0	0	779	0	0	0	0	122	0	0	0	0	5,424
A332	0	0	0	0	0	0	0	0	182	0	0	0	0	0	0	0	0	0	0	0	0	0	0	182
A339	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
A359	0	0	0	0	0	0	0	0	0	0	0	0	0	0	72	0	0	0	0	0	0	0	0	72
A35K	0	0	0	0	178	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	178
B38M	320	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	4,059	0	0	571	0	66	5,018
B39M	0	1,094	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	921	0	0	2,015
B733	0	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0	20
B734	0	0	0	0	0	0	0	0	0	0	48	0	0	0	0	0	0	0	0	0	0	0	0	48
B737	0	4	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	10,058	0	0	33	0	10	10,106
B738	0	1,635	0	286	0	993	0	0	0	0	136	0	0	0	0	0	0	4,308	0	128	1,033	0	28	8,547
B739	0	2,074	0	0	0	410	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,558	0	0	4,042
B752	0	0	0	0	0	168	57	0	0	0	0	0	0	0	0	0	0	0	0	0	136	0	0	361
B753	0	0	0	0	0	671	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	675
B763	0	0	0	0	0	10	412	0	0	0	0	0	0	0	0	0	0	0	0	0	0	202	0	624
B772	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	56	0	0	56
B788	0	0	0	0	0	0	0	0	0	0	0	104	0	0	0	0	0	0	0	0	0	0	0	104
CRJ2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	2
CRJ7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	122	0	0	0	0	0	0	122
CRJ9	0	0	0	0	0	0	0	0	0	0	0	0	362	0	0	0	0	0	0	0	0	0	0	362
E135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	174	0	0	0	0	0	0	0	0	174
E145	0	0	0	0	0	0	0	0	0	0	0	0	0	0	68	0	0	0	0	0	0	0	0	68
E75L	0	0	0	0	0	0	0	0	0	400	0	0	0	0	0	0	4,907	0	0	0	0	0	0	5,307
Jet	352	4,807	336	4,058	178	4,668	518	1,265	363	400	204	104	362	1,040	242	72	5,031	18,425	838	128	5,073	202	108	48,774
BE99	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	154	0	154
C208	0	0	0	0	0	0	282	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	282
Prop	0	0	0	0	0	0	282	0	0	0	0	0	0	0	0	0	0	0	0	0	0	154	0	436
All Ops	352	4,807	336	4,058	178	4,668	800	1,265	363	400	204	104	362	1,040	242	72	5,031	18,425	838	128	5,073	356	108	49,210

**Table 13**

Air Carrier Operations by Aircraft Type captured by the Airport Noise & Operations Monitoring System – January – June 2023

	ACA	ASA	AAJ	AAL	BAW	DAL	FDX	FFT	HAL	QXE	SWQ	JAL	JZA	JBU	JSX	DLH	SKW	SWA	NKS	SCX	UAL	UPS	WJA	
Aircraft Type	Air Canada	Alaska Airlines	Allegiant Air	American Airlines	British Airways	Delta Air Lines	FedEx Express	Frontier Airlines	Hawaiian Airlines	Horizon Air	iAero Airways (Swift Air)	Japan Airlines	Jaz Aviation	jetBlue Airways	JSX	Lufthansa	SkyWest Airlines	Southwest Airlines	Spirit Airlines	Sun Country Airlines	United Airlines	UPS Airlines	WestJet Airlines	Total Operations
A20N	0	0	0	0	0	0	0	1,830	0	0	0	0	0	0	0	0	0	0	884	0	0	0	0	2,714
A21N	0	2	0	1,588	0	460	0	78	358	0	0	0	0	144	0	0	0	0	0	0	0	0	0	2,630
A221	0	0	0	0	0	134	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	134
A223	92	0	0	0	0	440	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	532
A306	0	0	0	0	0	0	192	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	192
A310	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4
A319	2	0	132	2	0	142	0	0	0	0	0	0	0	0	0	0	0	0	4	0	332	0	0	614
A320	0	21	324	126	0	632	0	173	0	0	0	0	0	486	0	0	0	0	672	0	1,090	0	0	3,524
A321	0	0	0	5,202	0	3,094	0	161	0	0	0	0	0	1,313	0	0	0	0	256	0	0	0	0	10,026
A332	0	0	0	0	0	0	0	0	364	0	0	0	0	0	0	0	0	0	0	0	0	0	0	364
A333	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
A339	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
A359	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	164	0	0	0	0	0	0	0	164
A35K	0	0	0	0	358	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	358
B38M	497	0	0	56	0	0	0	0	0	0	0	0	0	0	0	0	0	7,164	0	0	907	0	92	8,716
B39M	0	2,006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,882	0	0	3,888
B733	0	0	0	0	0	0	0	0	0	0	58	0	0	0	0	0	0	0	0	0	0	0	0	58
B734	0	0	0	0	0	0	0	0	0	0	54	0	0	0	0	0	0	0	0	0	0	0	0	54
B737	0	6	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	19,301	0	0	57	0	24	19,389
B738	0	2,908	0	963	0	2,197	0	0	0	0	281	0	0	0	0	0	0	8,409	0	232	1,658	0	90	16,738
B739	0	4,463	0	0	0	601	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3,050	0	0	8,114
B752	0	0	0	0	0	301	89	0	0	0	0	0	0	0	0	0	0	0	0	0	281	2	0	673
B753	0	0	0	0	0	892	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	0	0	906
B763	0	0	0	0	0	12	865	0	0	0	0	0	0	0	0	0	0	0	0	0	0	408	0	1,285
B764	0	0	0	0	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
B772	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	56	0	0	56
B788	0	0	0	0	0	0	0	0	0	0	0	208	0	0	0	0	0	0	0	0	0	0	0	208
CRJ2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	2
CRJ7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	154	0	0	0	0	0	0	154
CRJ9	0	0	0	0	0	0	0	0	0	0	0	762	0	0	0	0	0	0	0	0	0	0	0	762
E135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	610	0	0	0	0	0	0	0	0	610
E145	0	0	0	0	0	0	0	0	0	0	0	0	0	0	254	0	0	0	0	0	0	0	0	254
E75L	0	0	0	0	0	0	0	0	0	636	0	0	0	0	0	0	9,415	0	0	0	0	0	0	10,051
MD11	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Jet	591	9,406	456	7,937	358	8,929	1,148	2,242	723	636	393	208	762	1,943	864	164	9,571	34,874	1,816	232	9,327	410	210	93,200
BE99	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	303	0	303
C208	0	0	0	0	0	0	659	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	659
Prop	0	0	0	0	0	0	659	0	0	0	0	0	0	0	0	0	0	0	0	0	0	303	0	962
All Ops	591	9,406	456	7,937	358	8,929	1,807	2,242	723	636	393	208	762	1,943	864	164	9,571	34,874	1,816	232	9,327	713	210	94,162

# Q2 2023 QNR

Final Audit Report

2023-09-07

Created:	2023-09-06
By:	Maribel Oros (moros@san.org)
Status:	Signed
Transaction ID:	CBJCHBCAABAA8W4WCZyUHqHiPpgQjV4wuwhp7kNoTwoY

## "Q2 2023 QNR" History

-  Document created by Maribel Oros (moros@san.org)  
2023-09-06 - 5:29:55 PM GMT- IP address: 12.69.234.136
-  Document emailed to Sjohnna Knack (sknack@san.org) for signature  
2023-09-06 - 5:31:16 PM GMT
-  Email viewed by Sjohnna Knack (sknack@san.org)  
2023-09-06 - 8:33:25 PM GMT- IP address: 12.69.234.136
-  Document e-signed by Sjohnna Knack (sknack@san.org)  
Signature Date: 2023-09-06 - 8:33:36 PM GMT - Time Source: server- IP address: 12.69.234.136
-  Document emailed to Kim Becker (kbecker@san.org) for signature  
2023-09-06 - 8:33:39 PM GMT
-  Email viewed by Kim Becker (kbecker@san.org)  
2023-09-07 - 3:23:14 PM GMT- IP address: 12.69.234.136
-  Document e-signed by Kim Becker (kbecker@san.org)  
Signature Date: 2023-09-07 - 3:26:39 PM GMT - Time Source: server- IP address: 12.69.234.136
-  Agreement completed.  
2023-09-07 - 3:26:39 PM GMT