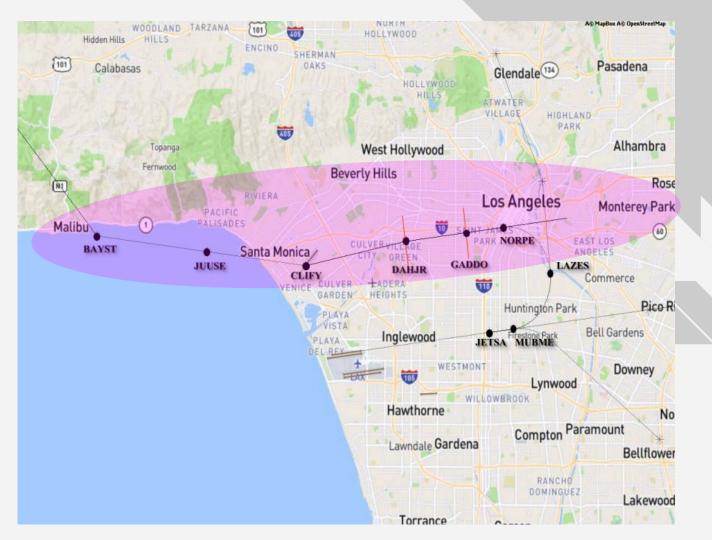


# LAX Metroplex / Wide Area Ad Hoc Committee

LAX Community Noise Roundtable Sept 2020

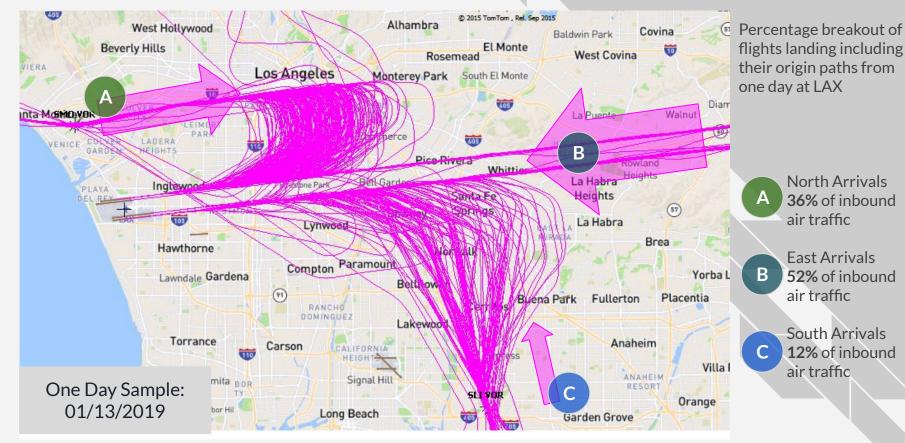
- 1. North Downwind Arrival Flight Paths
- 2. LAX and Other Airports
- 3. DAHJR Flight Data 24 hours
- 4. DAHJR 0100 to 0500 hours
- 5. GADDO Flight Data 24 hours
- 6. Quiet Skies LA Option B Study



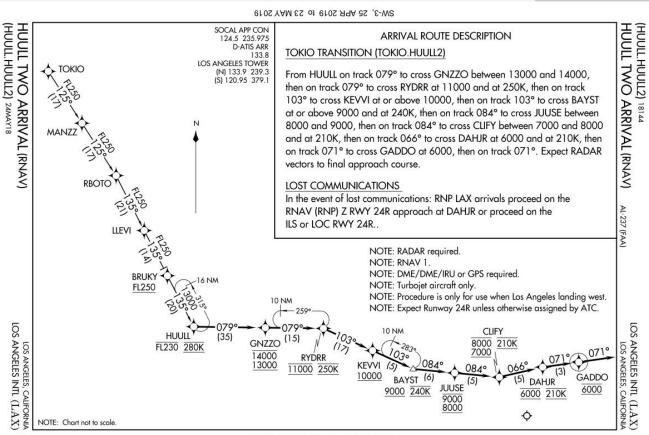
# 1. North Downwind Arrival Flight Paths

Area in pink affected by North Downwind Arrival and has been studied more extensively in prior and current initiatives undertaken by the Metroplex Ad Hoc Committee of the LAX Community Noise Roundtable

# 1. North Downwind Arrival Flight Paths - Merges

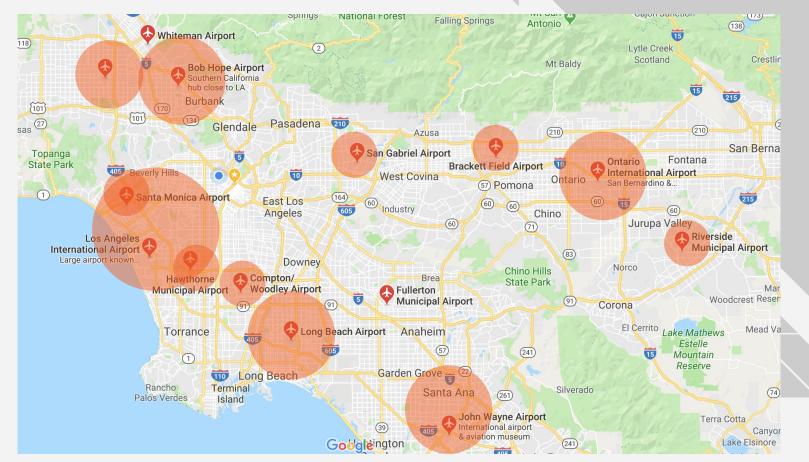


## 1. North Downwind Arrival Flight Paths - HUULL

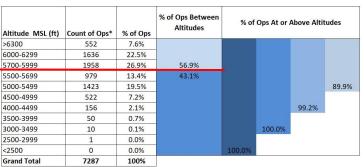


HUULL, IRNMN, & DAHJR are the three North Downwind Arrival Flight Paths into LAX

# 2. LAX and Other Airports



### ANOMS Gate Penetration - DAHJR January 1-31, 2019



Prepared by: LAWA Noise Management

\*Data source: LAX ANOMS

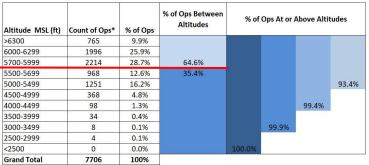
### ANOMS Gate Penetration - DAHJR March 1-31, 2019

Altitude MSL (ft)	Count of Ops*	% of Ops	% of Ops Between Altitudes	% of	udes		
>6300	713	8.0%					
6000-6299	2220	24.9%					
5700-5999	2595	29.1%	62.0%				
5500-5699	1113	12.5%	38.0%				
5000-5499	1574	17.7%					92.1%
4500-4999	524	5.9%					
4000-4499	136	1.5%				99.5%	
3500-3999	33	0.4%					
3000-3499	7	0.1%			100.0%		
2500-2999	1	0.0%					
<2500	0	0.0%		100.0%	-1		
Grand Total	8916	100%					

Prepared by: LAWA Noise Management

\*Data source: LAX ANOMS

### ANOMS Gate Penetration - DAHJR February 1-28, 2019



Prepared by: LAWA Noise Management

\*Data source: LAX ANOMS

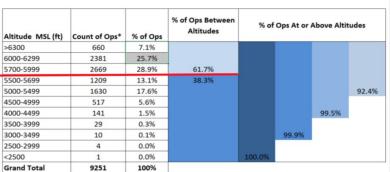
### ANOMS Gate Penetration - DAHJR April 1-30, 2019

Altitude MSL (ft)	Count of Ops*	% of Ops	% of Ops Between Altitudes	9	6 of Ops At or	des		
>6300	679	7.5%						П
6000-6299	2368	26.1%						h
5700-5999	2677	29.5%	63.1%					
5500-5699	1155	12.7%	36.9%					Ш
5000-5499	1566	17.3%					93.2%	1
4500-4999	463	5.1%						
4000-4499	120	1.3%				99.6%		
3500-3999	27	0.3%						
3000-3499	6	0.1%			100.0%			
2500-2999	3	0.0%						
<2500	1	0.0%		100.0%				
Grand Total	9065	100%						

Prepared by: LAWA Noise Management

\*Data source: LAX ANOMS

### ANOMS Gate Penetration - DAHJR May 1-31, 2019



Prepared by: LAWA Noise Management

\*Data source: LAX ANOMS

### ANOMS Gate Penetration - DAHJR July 1-31, 2019

Altitude MSL (ft)	Count of Ops*	% of Ops	% of Ops Between Altitudes		% of Ops At or Above Altitudes				
>6300	784	7.9%							
6000-6299	2699	27.3%							
5700-5999	3129	31.6%	66.8%						
5500-5699	1313	13.3%	33.2%						
5000-5499	1508	15.2%					95.4%		
4500-4999	359	3.6%							
4000-4499	75	0.8%				99.7%			
3500-3999	21	0.2%							
3000-3499	4	0.0%			100.0%				
2500-2999	0	0.0%							
<2500	0	0.0%		100.0%					
Grand Total	9892	100%							

Prepared by: LAWA Noise Management

### ANOMS Gate Penetration - DAHJR June 1-30, 2019

Altitude MSL (ft)	Count of Ops*	% of Ops	% of Ops Between Altitudes	% of	tudes		
>6300	642	6.8%					
6000-6299	2759	29.2%					
5700-5999	2985	31.6%	67.6%				
5500-5699	1138	12.1%	32.4%				
5000-5499	1398	14.8%					94.5%
4500-4999	420	4.4%					
4000-4499	74	0.8%				99.7%	
3500-3999	14	0.1%					
3000-3499	9	0.1%			100.0%		
2500-2999	1	0.0%					
<2500	0	0.0%		100.0%			
Grand Total	9440	100%					

Prepared by: LAWA Noise Management
\*Data source: LAX ANOMS

### ANOMS Gate Penetration - DAHJR August 1-31, 2019

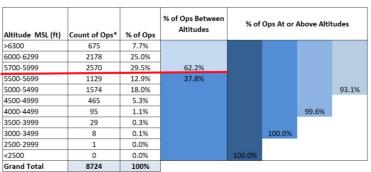
Altitude MSL (ft)	Count of Ops*	% of Ops	% of Ops Between Altitudes	% of Ops At or Above Altitude				
>6300	698	7.1%						
6000-6299	2627	26.9%						ı
5700-5999	3108	31.8%	65.8%					H
5500-5699	1275	13.0%	34.2%					li
5000-5499	1551	15.9%					94.7%	П
4500-4999	417	4.3%						
4000-4499	88	0.9%				99.8%		Ш
3500-3999	14	0.1%						Ш
3000-3499	1	0.0%			100.0%			Ш
2500-2999	0	0.0%						
<2500	1	0.0%		100.0%				
Grand Total	9780	100%						-

Prepared by: LAWA Noise Management

\*Data source: LAX ANOMS

<sup>\*</sup>Data source: LAX ANOMS

### ANOMS Gate Penetration - DAHJR September 1-30, 2019



Prepared by: LAWA Noise Management

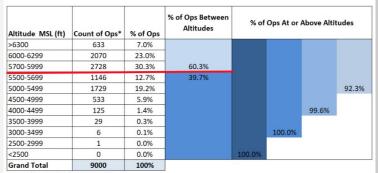
\*Data source: LAX ANOMS

### ANOMS Gate Penetration - DAHJR November 1-30, 2019

Altitude MSL (ft)	Count of Ops*	% of Ops	% of Ops Between Altitudes	% of	% of Ops At or Above Alt			
>6300	493	6.1%						
6000-6299	1780	22.0%						
5700-5999	2371	29.3%	57.3%					
5500-5699	1102	13.6%	42.7%					
5000-5499	1662	20.5%					91.5%	
4500-4999	512	6.3%						
4000-4499	144	1.8%				99.6%		
3500-3999	26	0.3%						
3000-3499	8	0.1%			100.0%			
2500-2999	1	0.0%						
<2500	0	0.0%		100.0%				
Grand Total	8099	100%						

Prepared by: LAWA Noise Management

### ANOMS Gate Penetration - DAHJR October 1-31, 2019



Prepared by: LAWA Noise Management

### ANOMS Gate Penetration - DAHJR December 1-31, 2019

Altitude MSL (ft)	Count of Ops*	% of Ops	% of Ops Between Altitudes	% of Ops At or Above Altitudes				
>6300	584	7.6%						
6000-6299	1752	22.9%						
5700-5999	2288	29.9%	60.5%					
5500-5699	995	13.0%	39.5%					
5000-5499	1325	17.3%					90.9%	
4500-4999	509	6.7%						
4000-4499	131	1.7%				99.3%		
3500-3999	39	0.5%						
3000-3499	15	0.2%			100.0%			
2500-2999	2	0.0%						
<2500	1	0.0%		100.0%				
Grand Total	7641	100%						

Prepared by: LAWA Noise Management

<sup>\*</sup>Data source: LAX ANOMS

<sup>\*</sup>Data source: LAX ANOMS

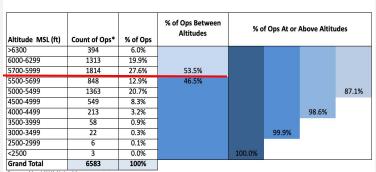
<sup>\*</sup>Data source: LAX ANOMS

### ANOMS Gate Penetration - DAHJR January 1-31, 2020



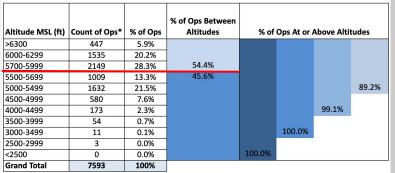
Prepared by: LAWA Noise Management

### ANOMS Gate Penetration - DAHJR March 1-31, 2020



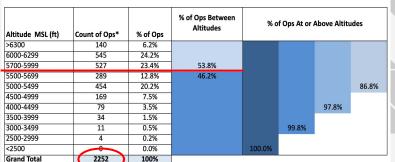
Prepared by: LAWA Noise Management

### ANOMS Gate Penetration - DAHJR February 1-29, 2020



Prepared by: LAWA Noise Management

### ANOMS Gate Penetration - DAHJR April 1-30, 2020



Prepared by: LAWA Noise Manage

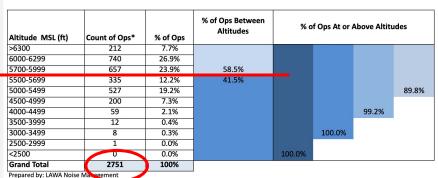
\*Data source: LAX ANOMS

<sup>\*</sup>Data source: LAX ANOMS

<sup>\*</sup>Data source: LAX ANOMS

<sup>\*</sup>Data source: LAX ANOMS

### ANOMS Gate Penetration - DAHJR May 1-31, 2020



\*Data source: LAX ANOMS

### ANOMS Gate Penetration - DAHJR July 1-31, 2020

Altitude MSL (ft)	Count of Ops*	% of Ops	% of Ops Between Altitudes	% of Ops At or Above Altitudes				
>6300	306	7.7%						
6000-6299	1096	27.5%						
5700-5999	1132	28.4%	63.5%					
5500-5699	502	12.6%	36.5%					
5000-5499	680	17.0%					93.2%	
4500-4999	205	5.1%						
4000-4499	51	1.3%				99.6%		
3500-3999	14	0.4%						
3000-3499	3	0.1%			100.0%			
2500-2999	0	0.0%						
<2500	U	0.0%		100.0%				
Grand Total	3989	100%						

\*Data source: LAX ANOMS

### ANOMS Gate Penetration - DAHJR June 1-30, 2020

Altitude MSL (ft)	Count of Ops*	% of Ops	% of Ops Between Altitudes	% o	% of Ops At or Above Altitudes				
>6300	244	7.7%							
6000-6299	775	24.5%							
5700-5999	845	26.7%	58.8%						
5500-5699	400	12.6%	41.2%						
5000-5499	595	18.8%					90.2%		
4500-4999	214	6.8%							
4000-4499	76	2.4%				99.4%			
3500-3999	17	0.5%							
3000-3499	1	0.0%			100.0%				
2500-2999	1	0.0%							
<2500	U	0.0%		100.0%					
Grand Total	3168	100%							

\*Data source: LAX ANOMS

### ANOMS Gate Penetration - DAHJR August 1-31, 2020

Altitude MSL (ft)	Count of Ops*	% of Ops	% of Ops Between Altitudes	% of Ops At or Above Altitudes				
>6300	275	6.5%						
6000-6299	1048	24.6%						
5700-5999	1245	29.2%	60.2%					
5500-5699	567	13.3%	39.8%					
5000-5499	828	19.4%					93.0%	
4500-4999	220	5.2%						
4000-4499	56	1.3%				99.4%		
3500-3999	19	0.4%						
3000-3499	5	0.1%			100.0%			
2500-2999	0	0.0%						
<2500	0	0.0%		100.0%				
Grand Total	4263	100%						

Prepared by: LAWA Noise Management
\*Data source: LAX ANOMS

			Time o	f Night			
Altitude MSL (ft)	12:00 to 12:59 AM	1:00 to 1:59 AM	2:00 to 2:59 AM	3:00 to 3:59 AM	4:00 to 4:59 AM	5:00 to 5:59 AM	Totals by Height
>6000	15	5	2	5	14	36	77
5750-6000	18	2	1	7	7	10	45
5500-5749	6	1	1	2	1	7	18
5250-5499	2	1	2	2	0	4	11
5000-5249	5	0	2	2	1	4	14
4750-4999	1	1	0	0	0	0	2
<4750	1	1	0	0	2	2	6
Total of All Flights	48	11	8	18	25	63	173
		1 to 5	Total	1	.9		

Oct 2018
19 flights

**Time of Night** Totals by 12:00 to 1:00 to 2:00 to 3:00 to 4:00 to 5:00 to Altitude MSL (ft) 12:59 AM 1:59 AM 2:59 AM 3:59 AM 4:59 AM 5:59 AM Height >6000 5750-6000 5500-5749 5250-5499 5000-5249 4750-4999 <4750 **Total of All Flights** 1 to 5 Total 

Nov 2018 17 flights

			Time o	f Night			
	12:00 to	1:00 to	2:00 to	3:00 to	4:00 to	5:00 to	Totals by
Altitude MSL (ft)	12:59 AM	1:59 AM	2:59 AM	3:59 AM	4:59 AM	5:59 AM	Height
>6000	27	10	8	6	28	48	127
5750-6000	13	1	2	1	15	32	64
5500-5749	11	1	0	1	7	10	30
5250-5499	6	0	2	0	8	3	19
5000-5249	6	0	1	0	3	4	14
4750-4999	0	0	0	0	1	2	3
<4750	2	0	0	1	0	3	6
Total of All Flights	65	12	13	9	62	102	263
		1 to 5	Total	2	5	0.7	

Dec 2018 25 flights

		Time of Night								
Altitude MSL (ft)	12:00 to 12:59 AM	1:00 to 1:59 AM	2:00 to 2:59 AM	3:00 to 3:59 AM	4:00 to 4:59 AM	5:00 to 5:59 AM	Totals by Height			
>6000	10	6	6	4	3	13	42			
5750-6000	6	2	0	0	5	6	19			
5500-5749	9	0	1	1	2	3	16			
5250-5499	2	0	1	0	3	4	10			
5000-5249	2	0	0	1	0	0	3			
4750-4999	1	0	0	1	0	1	3			
<4750	2	0	0	2	0	1	5			
Total of All Flights	32	8	8	9	13	28	98			
		1 +0 5	Total	1	2					

Jan 2019 12 flights

		Time of Night							
	12:00 to	1:00 to	2:00 to	3:00 to	4:00 to	5:00 to	Totals by		
Altitude MSL (ft)	12:59 AM	1:59 AM	2:59 AM	3:59 AM	4:59 AM	5:59 AM	Height		
>6000	10	4	3	1	7	9	34		
5750-6000	5	0	0	4	1	2	12		
5500-5749	3	0	0	0	3	2	8		
5250-5499	2	1	0	0	1	0	4		
5000-5249	1	0	0	1	0	2	4		
4750-4999	24	6	11	2	26	40	109		
<4750	1	0	0	0	0	3	4		
Total of All Flights	46	11	14	8	38	58	175		
<del></del>	Ho.	1 to 5 Total			1				

Feb 2019 51 flights

Time of Night Totals by 3:00 to 5:00 to 12:00 to 1:00 to 2:00 to 4:00 to Altitude MSL (ft) 12:59 AM 4:59 AM 5:59 AM 1:59 AM 2:59 AM 3:59 AM Height >6000 5750-6000 5500-5749 5250-5499 5000-5249 4750-4999 <4750 **Total of All Flights** 1 to 5 Total 

Mar 2019
12 flights

			Time o	f Night			
Altitude MSL (ft)	12:59 AM	1:00 to 1:59 AM	2:00 to 2:59 AM	3:00 to 3:59 AM	4:00 to 4:59 AM	5:00 to 5:59 AM	Totals by Height
>6000	26	20	10	22	58	56	192
5750-6000	23	3	2	7	6	25	66
5500-5749	5	2	0	1	1	3	12
5250-5499	1	0	0	0	0	1	2
5000-5249	1	0	0	0	1	2	4
4750-4999	0	0	0	0	0	0	0
<4750	2	0	1	0	0	0	3
Total of All Flights	58	25	13	30	66	87	279
		1 to 5	Total	(	5		

Apr 2019 6 flights

Time of Night 2:00 to 3:00 to 4:00 to Totals by 12:00 to 1:00 to 5:00 to Altitude MSL (ft) 12:59 AM 1:59 AM 2:59 AM 3:59 AM 4:59 AM 5:59 AM Height >6000 5750-6000 5500-5749 5250-5499 5000-5249 4750-4999 <4750 Total of All Flights 1 to 5 Total

May 2019 6 flights

			Time of I	Vight			
Altitude MSL (ft)	12:00 to 12:59 AM	1:00 to 1:59 AM	2:00 to 2:59 AM	3:00 to 3:59 AM	4:00 to 4:59 AM	5:00 to 5:59 AM	Totals by Height
>6000	44	5	3	19	63	91	225
5750-6000	21	5	2	5	15	31	79
5500-5749	11	0	0	2	1	3	17
5250-5499	4	0	0	0	0	2	6
5000-5249	4	0	0	1	0	0	5
4750-4999	4	1	0	0	0	1	6
<4750	4	1	0	1	1	1	8
Total of All Flights	92	12	5	28	80	129	346
		1 to 5 Total		8	3		

Jun 2019 8 flights

Time of Night 12:00 to 1:00 to 2:00 to 3:00 to 4:00 to 5:00 to Totals by Altitude MSL (ft) 2:59 AM 3:59 AM 4:59 AM 5:59 AM Height 12:59 AM 1:59 AM >6000 56 8 7 15 39 55 180 5750-6000 29 2 25 74 14 5500-5749 0 9 13 5250-5499 3 2 5 0 0 0 0 5000-5249 3 4 0 0 4750-4999 1 0 0 0 0 1 <4750 2 0 0 0 0 2 **Total of All Flights** 84 279 103 9 10 18 55 1 to 5 Total 3

Jul 2019 3 flights

			Time of	Night			
Altitude MSL (ft)	12:00 to 12:59 AM	1:00 to 1:59 AM	2:00 to 2:59 AM	3:00 to 3:59 AM	4:00 to 4:59 AM	5:00 to 5:59 AM	Totals by Height
>6000	35	3	13	9	43	61	164
5750-6000	26	4	1	0	15	22	68
5500-5749	9	4	1	0	0	1	15
5250-5499	2	0	0	0	0	2	4
5000-5249	5	0	1	0	0	0	6
4750-4999	2	0	0	0	0	1	3
<4750	1	0	0	0	0	1	2
Total of All Flights	80	11	16	9	58	88	262
		1 to 5 Total		6			

Aug	2019
6 fligh	nts

			Time of I	Night			
Altitude MSL (ft)	12:00 to 12:59 AM	1:00 to 1:59 AM	2:00 to 2:59 AM	3:00 to 3:59 AM	4:00 to 4:59 AM	5:00 to 5:59 AM	Totals by Height
>6000	27	4	1	0	4	25	61
5750-6000	10	0	0	1	3	11	25
5500-5749	6	0	0	0	1	1	8
5250-5499	5	0	0	0	0	0	5
5000-5249	3	0	0	0	0	1	4
4750-4999	1	0	0	0	0	0	1
<4750	1	0	0	0	0	0	1
Total of All Flights	53	4	1	1	8	38	105
		1 to 5	Total	1	l		

Sep 2019 1 flight

			Time of I	Vight			
Altitude MSL (ft)	12:00 to 12:59 AM	1:00 to 1:59 AM	2:00 to 2:59 AM	3:00 to 3:59 AM	4:00 to 4:59 AM	5:00 to 5:59 AM	Totals by Height
>6000	21	2	2	3	3	24	55
5750-6000	6	0	0	1	0	6	13
5500-5749	6	0	0	0	0	3	9
5250-5499	1	0	0	0	1	0	2
5000-5249	1	0	0	0	0	1	2
4750-4999	0	0	0	0	0	3	3
<4750	3	0	0	0	0	0	3
Total of All Flights	38	2	2	4	4	37	87
		1 to 5 Total		1	l		

Oct 2019
1 flight

Time of Night Totals by 12:00 to 1:00 to 2:00 to 3:00 to 4:00 to 5:00 to Altitude MSL (ft) 12:59 AM 1:59 AM 2:59 AM 3:59 AM 4:59 AM 5:59 AM Height >6000 71 14 12 37 5750-6000 1 0 33 6 1 21 5500-5749 4 0 1 0 4 9 5250-5499 7 2 0 0 0 3 5000-5249 1 0 0 2 4750-4999 2 0 0 0 1 3 <4750 0 0 0 2 1 0 Total of All Flights 30 2 19 68 128 1 to 5 Total

Nov 2019 4 flights

	Time of Night								
Altitude MSL (ft)	12:00 to 12:59 AM	1:00 to 1:59 AM	2:00 to 2:59 AM	3:00 to 3:59 AM	4:00 to 4:59 AM	5:00 to 5:59 AM	Totals by Height		
>6000	6	0	0	0	0	0	6		
5750-6000	6	1	0	0	0	0	7		
5500-5749	3	0	0	0	0	0	3		
5250-5499	0	0	0	0	0	0	0		
5000-5249	2	0	0	0	0	0	2		
4750-4999	1	0	0	0	1	0	2		
<4750	0	0	0	0	0	0	0		
Total of All Flights	18	1	0	0	1	0	20		
•		1 to 5	Total		1				

Dec 2019 1 flight

			Time of	Night		Time of Night							
Altitude MSL (ft)	12:00 to 12:59 AM	1:00 to 1:59 AM	2:00 to 2:59 AM	3:00 to 3:59 AM	4:00 to 4:59 AM	5:00 to 5:59 AM	Totals by Height						
>6000	11	2	11	10	25	54	113						
5750-6000	7	0	2	3	5	32	49						
5500-5749	4	3	1	1	1	8	18						
5250-5499	1	0	0	1	2	0	4						
5000-5249	1	0	0	0	1	4	6						
4750-4999	0	1	1	0	0	2	4						
<4750	3	1	0	0	0	1	5						
Total of All Flights	27	7	15	15	34	101	199						
A 5021 - CO		1 to 5	Total	1	3								

Jan 2020 13 flights

		Time of Night							
Altitude MSL (ft)	12:00 to 12:59 AM	1:00 to 1:59 AM	2:00 to 2:59 AM	3:00 to 3:59 AM	4:00 to 4:59 AM	5:00 to 5:59 AM	Totals by Height		
>6000	8	1	0	2	6	33	50		
5750-6000	6	0	3	1	4	7	21		
5500-5749	0	0	0	0	1	5	6		
5250-5499	1	0	1	0	2	1	5		
5000-5249	1	0	0	0	0	2	3		
4750-4999	1	0	0	0	1	2	4		
<4750	0	0	0	1	0	2	3		
Total of All Flights	17	1	4	4	14	52	92		
		1 to 5 Total			5				

Feb 2020 6 flights

			Time of	Night			
Altitude MSL (ft)	12:00 to 12:59 AM	1:00 to 1:59 AM	2:00 to 2:59 AM	3:00 to 3:59 AM	4:00 to 4:59 AM	5:00 to 5:59 AM	Totals by Height
>6000	9	1	0	2	2	12	26
5750-6000	7	1	0	0	1	5	14
5500-5749	0	0	2	0	1	2	5
5250-5499	0	0	0	0	0	2	2
5000-5249	1	0	0	1	0	0	2
4750-4999	1	0	1	0	0	0	2
<4750	1	0	0	0	0	2	3
Total of All Flights	19	2	3	3	4	23	54
	•	1 to 5 Total			5		

Mar 2020 5 flights

			Time of N	light			
Altitude MSL (ft)	12:00 to 12:59 AM	1:00 to 1:59 AM	2:00 to 2:59 AM	3:00 to 3:59 AM	4:00 to 4:59 AM	5:00 to 5:59 AM	Totals by Height
>6000	3	0	1	3	6	1	14
5750-6000	0	1	0	0	1	0	2
5500-5749	2	0	0	0	2	0	4
5250-5499	0	0	1	0	0	0	1
5000-5249	0	1	0	0	0	0	1
4750-4999	0	0	0	0	0	0	0
<4750	0	0	0	0	0	0	0
Total of All Flights	5	2	2	3	9	1	22
		1 to 5	Total	4	1		

Apr 2020 4 flights

			Time of N	light			
Altitude MSL (ft)	12:00 to 12:59 AM	1:00 to 1:59 AM	2:00 to 2:59 AM	3:00 to 3:59 AM	4:00 to 4:59 AM	5:00 to 5:59 AM	Totals by Height
>6000	3	9	5	6	6	4	33
5750-6000	0	5	1	1	1	0	8
5500-5749	0	0	0	0	2	3	5
5250-5499	0	1	1	1	0	0	3
5000-5249	0	1	0	0	0	0	1
4750-4999	0	0	0	0	0	0	0
<4750	0	1	0	0	0	0	1
Total of All Flights	3	17	7	8	9	7	51
		1 to 5	Total		7		

May 2020 7 flights

			Time of N	light					
Altitude MSL (ft)	12:00 to 12:59 AM	1:00 to 1:59 AM	2:00 to 2:59 AM	3:00 to 3:59 AM	4:00 to 4:59 AM	5:00 to 5:59 AM	Totals by Height		
>6000	1	0	0	0	0	3	4		
5750-6000	2	0	0	0	0	0	2		
5500-5749	2	0	0	0	0	0	2		
5250-5499	0	0	0	0	0	1	1		
5000-5249	0	0	0	0	0	0	0		
4750-4999	0	0	0	0	0	0	0		
<4750	0	0	0	0	0	0	0		
Total of All Flights	5	0	0	0	0	4	9		
		1 to 5 Total 0							

Jun 2020 0 flights

			Time of N	light			
Altitude MSL (ft)	12:00 to 12:59 AM	1:00 to 1:59 AM	2:00 to 2:59 AM	3:00 to 3:59 AM	4:00 to 4:59 AM	5:00 to 5:59 AM	Totals by Height
>6000	7	3	3	6	4	14	37
5750-6000	2	2	2	1	4	2	13
5500-5749	2	0	1	2	1	0	6
5250-5499	0	0	0	0	0	0	0
5000-5249	0	0	0	2	1	0	3
4750-4999	0	0	1	1	0	1	3
<4750	0	0	0	0	0	0	0
Total of All Flights	11	5	7	12	10	17	62
		1 to 5	Total	9	9		

Jul 2020 9 flights

Prepared by: LAWA Noise Management
Data Source: LAX ANOMS

22

			Time of N	light			
Altitude MSL (ft)	12:00 to 12:59 AM	1:00 to 1:59 AM	2:00 to 2:59 AM	3:00 to 3:59 AM	4:00 to 4:59 AM	5:00 to 5:59 AM	Totals by Height
>6000	2	0	4	6	5	11	28
5750-6000	1	0	0	0	5	3	9
5500-5749	2	1	0	0	0	0	3
5250-5499	0	1	0	0	0	2	3
5000-5249	0	0	0	0	0	0	0
4750-4999	0	0	0	0	0	0	0
<4750	0	0	0	0	0	0	0
Total of All Flights	5	2	4	6	10	16	43
	•	1 to 5	Total		2		

Aug 2020 2 flights

### ANOMS Gate Penetration - GADDO September 1-30, 2018

Altitude MSL (ft)	Count of Ops*	% of Ops	% of Ops Between Altitudes	% of	f Ops At or Above Altitudes			
>6300	55	1%						
6000-6299	227	2%						
5700-5999	526	6%	8.5%					
5500-5699	462	5%	91.5%					
5000-5499	2454	26%					39.2%	
4500-4999	2841	30%						
4000-4499	1784	19%				88.0%		
3500-3999	790	8%						
3000-3499	264	3%			99.1%			
2500-2999	84	1%						
<2500	5	0%		100.0%				
Grand Total	9492	100%						

### ANOMS Gate Penetration - GADDO November 1-30, 2018

Altitude MSL (ft)	Count of Ops*	% of Ops	% of Ops Between Altitudes	% of	Ops At or Above Altitudes			
>6300	67	0.8%						
6000-6299	184	2.1%						
5700-5999	459	5.2%	8.0%					
5500-5699	372	4.2%	92.0%					
5000-5499	2053	23.1%					35.3%	
4500-4999	2581	29.1%						
4000-4499	1744	19.7%				84.1%		
3500-3999	907	10.2%						
3000-3499	359	4.0%			98.4%			
2500-2999	142	1.6%						
<2500	4	0.0%		100.0%				
Grand Total	8872	100%						

### ANOMS Gate Penetration - GADDO October 1-31, 2018

Altitude MSL (ft)	Count of Ops*	% of Ops	% of Ops Between Altitudes	% of	Ops At or Above Altitudes			
>6300	47	0.5%						
6000-6299	151	1.6%						
5700-5999	448	4.9%	7.0%					
5500-5699	389	4.2%	93.0%					
5000-5499	2166	23.5%					34.8%	
4500-4999	2633	28.6%						
4000-4499	1888	20.5%	-			83.9%		
3500-3999	948	10.3%						
3000-3499	419	4.6%	-		98.8%			
2500-2999	107	1.2%						
<2500	5	0.1%		100.0%				
Grand Total	9201	100%						

### ANOMS Gate Penetration - GADDO December 1-31, 2018

Altitude MSL (ft)	Count of Ops*	% of Ops	% of Ops Between Altitudes	% of	Ops At or Above Altitudes			
>6300	43	0.5%						
6000-6299	163	1.9%						
5700-5999	438	5.1%	7.6%					
5500-5699	415	4.9%	92.4%					
5000-5499	1937	22.8%					35.2%	
4500-4999	2380	28.0%						
4000-4499	1696	19.9%				83.1%		
3500-3999	907	10.7%						
3000-3499	408	4.8%			98.5%			
2500-2999	121	1.4%						
<2500	6	0.1%		100.0%				
Grand Total	8514	100%						

### ANOMS Gate Penetration - GADDO January 1-31, 2019

Altitude MSL (ft)	Count of Ops*	% of Ops	% of Ops Between Altitudes	% of	Ops At or	Ops At or Above Altitudes			
>6300	41	0.6%							
6000-6299	120	1.6%							
5700-5999	335	4.6%	6.8%						
5500-5699	320	4.4%	93.2%						
5000-5499	1572	21.6%					32.8%		
4500-4999	1992	27.4%							
4000-4499	1577	21.7%				81.9%			
3500-3999	799	11.0%							
3000-3499	375	5.2%			98.0%				
2500-2999	138	1.9%							
<2500	5	0.1%		100.0%					
Grand Total	7274	100%							

### ANOMS Gate Penetration - GADDO March 1-31, 2019

Altitude MSL (ft)	Count of Ops*	% of Ops	% of Ops Between Altitudes	% of	% of Ops At or Above A				
>6300	52	0.6%							
6000-6299	154	1.7%							
5700-5999	397	4.5%	6.8%						
5500-5699	413	4.6%	93.2%						
5000-5499	2259	25.4%					36.8%		
4500-4999	2531	28.4%							
4000-4499	1739	19.5%				84.7%			
3500-3999	873	9.8%							
3000-3499	375	4.2%			98.7%				
2500-2999	107	1.2%							
<2500	7	0.1%		100.0%					
Grand Total	8907	100%							

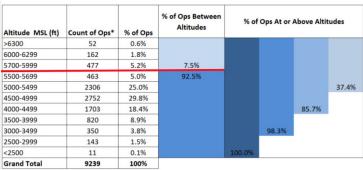
### ANOMS Gate Penetration - GADDO February 1-28, 2019

Altitude MSL (ft)	Count of Ops*	% of Ops	% of Ops Between Altitudes	% of	Ops At or Above Altitudes			
>6300	66	0.9%						
6000-6299	156	2.0%						
5700-5999	437	5.7%	8.6%					
5500-5699	440	5.7%	91.4%					
5000-5499	1984	25.8%					40.1%	
4500-4999	2145	27.9%						
4000-4499	1387	18.0%				86.0%		
3500-3999	676	8.8%						
3000-3499	314	4.1%			98.8%			
2500-2999	83	1.1%						
<2500	7	0.1%		100.0%				
Grand Total	7695	100%						

### ANOMS Gate Penetration - GADDO April 1-30, 2019

Altitude MSL (ft)	Count of Ops*	% of Ops	% of Ops Between Altitudes	94	of Ops At or Above Altitudes				
>6300	50	0.6%							
6000-6299	162	1.8%							
5700-5999	490	5.4%	7.8%						
5500-5699	435	4.8%	92.2%						
5000-5499	2357	26.0%					38.6%		
4500-4999	2629	29.0%							
4000-4499	1686	18.6%				86.2%			
3500-3999	778	8.6%							
3000-3499	358	4.0%			98.8%				
2500-2999	108	1.2%							
<2500	3	0.0%		100.0%					
Grand Total	9056	100%							

### ANOMS Gate Penetration - GADDO May 1-31, 2019



Prepared by: LAWA Noise Management

\*Data source: LAX ANOMS

### ANOMS Gate Penetration - GADDO July 1-31, 2019

Altitude MSL (ft)	Count of Ops*	% of Ops	% of Ops Between Altitudes	% of	Ops At or Above Altitude			
>6300	43	0.4%						
6000-6299	159	1.6%						
5700-5999	536	5.4%	7.5%					
5500-5699	511	5.2%	92.5%					
5000-5499	2886	29.2%					41.8%	
4500-4999	3051	30.8%						
4000-4499	1741	17.6%				90.3%		
3500-3999	678	6.9%						
3000-3499	231	2.3%			99.4%			
2500-2999	55	0.6%						
<2500	0	0.0%		100.0%				
Grand Total	9891	100%						

Prepared by: LAWA Noise Management

\*Data source: LAX ANOMS

ANOMS Gate Penetration - GADDO June 1-30, 2019

Altitude MSL (ft)	Count of Ops*	% of Ops	% of Ops Between Altitudes	% of	Ops At or Above Altitude			
>6300	41	0.4%						
6000-6299	186	2.0%						
5700-5999	522	5.5%	7.9%					
5500-5699	457	4.8%	92.1%					
5000-5499	2734	29.0%					41.8%	
4500-4999	2832	30.0%						
4000-4499	1651	17.5%				89.3%		
3500-3999	698	7.4%						
3000-3499	238	2.5%			99.2%			
2500-2999	73	0.8%						
<2500	5	0.1%		100.0%				
Grand Total	9437	100%						

Prepared by: LAWA Noise Management
\*Data source: LAX ANOMS

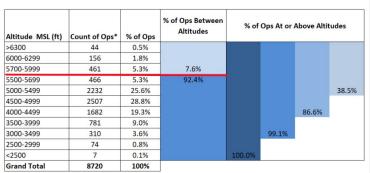
ANOMS Gate Penetration - GADDO August 1-31, 2019

Altitude MSL (ft)	Count of Ops*	% of Ops	% of Ops Between Altitudes	% of	Ops At or	tudes		
>6300	37	0.4%						1
6000-6299	154	1.6%						П
5700-5999	471	4.8%	6.8%					L
5500-5699	472	4.8%	93.2%					ŀ
5000-5499	2731	27.9%					39.5%	П
4500-4999	3086	31.6%						1
4000-4499	1782	18.2%				89.4%		Ш
3500-3999	737	7.5%						
3000-3499	252	2.6%			99.5%			
2500-2999	49	0.5%						
<2500	2	0.0%		100.0%				
Grand Total	9773	100%						-

Prepared by: LAWA Noise Management

\*Data source: LAX ANOMS

### ANOMS Gate Penetration - GADDO September 1-30, 2019



Prepared by: LAWA Noise Management

### ANOMS Gate Penetration - GADDO November 1-30, 2019

Altitude MSL (ft)	Count of Ops*	% of Ops	% of Ops Between Altitudes	% of	Ops At or	Above Alti	tudes
>6300	27	0.3%					
6000-6299	120	1.5%					
5700-5999	350	4.3%	6.1%				
5500-5699	308	3.8%	93.9%				
5000-5499	1759	21.7%					31.7%
4500-4999	2394	29.6%					
4000-4499	1721	21.3%				82.5%	
3500-3999	919	11.4%					
3000-3499	394	4.9%			98.7%		
2500-2999	98	1.2%					
<2500	5	0.1%		100.0%			
Grand Total	8095	100%					

Prepared by: LAWA Noise Management

### ANOMS Gate Penetration - GADDO October 1-31, 2019

Altitude MSL (ft)	Count of Ops*	% of Ops	% of Ops Between Altitudes	% of	Ops At or	tudes	
>6300	49	0.5%					
6000-6299	125	1.4%					
5700-5999	438	4.9%	6.8%				
5500-5699	370	4.1%	93.2%				
5000-5499	2041	22.7%					33.6%
4500-4999	2635	29.3%					
4000-4499	1881	20.9%				83.8%	
3500-3999	917	10.2%					
3000-3499	435	4.8%			98.9%		
2500-2999	96	1.1%					
<2500	7	0.1%		100.0%			
Grand Total	8994	100%					

Prepared by: LAWA Noise Management

### ANOMS Gate Penetration - GADDO December 1-31, 2019

Altitude MSL (ft)	Count of Ops*	% of Ops	% of Ops Between Altitudes	% of	of Ops At or Above Altitudes			
>6300	37	0.5%						
6000-6299	90	1.2%						
5700-5999	326	4.3%	5.9%					
5500-5699	323	4.2%	94.1%					
5000-5499	1878	24.6%					34.8%	
4500-4999	2189	28.7%						
4000-4499	1513	19.8%				83.2%		
3500-3999	768	10.1%						
3000-3499	383	5.0%			98.3%			
2500-2999	118	1.5%						
<2500	11	0.1%		100.0%				
Grand Total	7636	100%			4			

Prepared by: LAWA Noise Management

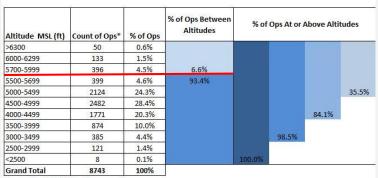
<sup>\*</sup>Data source: LAX ANOMS

<sup>\*</sup>Data source: LAX ANOMS

<sup>\*</sup>Data source: LAX ANOMS

<sup>\*</sup>Data source: LAX ANOMS

### ANOMS Gate Penetration - GADDO January 1-31, 2020



Prepared by: LAWA Noise Management

### ANOMS Gate Penetration - GADDO March 1-31, 2020

Altitude MSL (ft)	Count of Ops*	% of Ops	% of Ops Between Altitudes	% o	% of Ops At or Above Altitudes				
>6300	18	0.3%							
6000-6299	86	1.3%							
5700-5999	235	3.6%	5.2%						
5500-5699	224	3.4%	94.8%						
5000-5499	1261	19.2%					27.8%		
4500-4999	1699	25.9%							
4000-4499	1439	21.9%				75.5%			
3500-3999	873	13.3%							
3000-3499	534	8.1%			96.9%				
2500-2999	180	2.7%							
<2500	22	0.3%		100.0%					
Grand Total	6571	100%							

Prepared by: LAWA Noise Management

### ANOMS Gate Penetration - GADDO February 1-29, 2020

Altitude MSL (ft)	Count of Ops*	% of Ops	% of Ops Between Altitudes	% of Ops At or Above Altitudes				
>6300	35	0.5%						
6000-6299	88	1.2%						
5700-5999	287	3.8%	5.4%					
5500-5699	276	3.6%	94.6%					
5000-5499	1546	20.3%					29.4%	
4500-4999	2175	28.6%						
4000-4499	1678	22.1%				80.0%		
3500-3999	936	12.3%						
3000-3499	441	5.8%			98.1%			
2500-2999	132	1.7%						
<2500	10	0.1%		100.0%				
<b>Grand Total</b>	7604	100%						

Prepared by: LAWA Noise Management
\*Data source: LAX ANOMS

### ANOMS Gate Penetration - GADDO April 1-30, 2020

Altitude MSL (ft)	Count of Ops*	% of Ops	% of Ops Between Altitudes	% c	of Ops At or	Above Altitu	ıdes
>6300	13	0.6%					
6000-6299	37	1.7%					
5700-5999	116	5.2%	7.4%				
5500-5699	98	4.4%	92.6%				
5000-5499	492	22.0%					33.8%
4500-4999	512	22.9%					
4000-4499	462	20.6%				77.3%	
3500-3999	279	12.5%					
3000-3499	152	6.8%			96.5%		
2500-2999	67	3.0%					
<2500	11	0.5%		100.0%			
Grand Total	2239	100%					

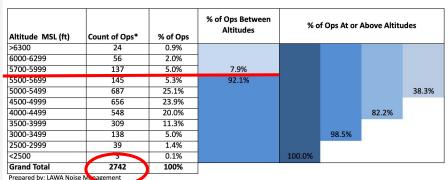
<sup>\*</sup>Data source: LAX ANOMS

Prepared by: LAWA Noise Management

<sup>\*</sup>Data source: LAX ANOMS

<sup>\*</sup>Data source: LAX ANOMS

### ANOMS Gate Penetration - GADDO May 1-31, 2020



\*Data source: LAX ANOMS

ANOMS Gate Penetration - GADDO July 1-31, 2020

Altitude MSL (ft)	Count of Ops*	% of Ops	% of Ops Between Altitudes	% o	% of Ops At or Above Altitudes				
>6300	31	0.8%							
6000-6299	84	2.1%							
5700-5999	226	5.7%	8.6%						
5500-5699	199	5.0%	91.4%						
5000-5499	1065	26.7%					40.3%		
4500-4999	1092	27.4%							
4000-4499	733	18.4%				86.1%			
3500-3999	355	8.9%							
3000-3499	151	3.8%			98.8%				
2500-2999	43	1.1%							
<2500	3	0.1%		100.0%					
Grand Total	3982	100%							

Prepared by: LAWA Noise Main gement
\*Data source: LAX ANOMS

ANOMS Gate Penetration - GADDO June 1-30, 2020

Altitude MSL (ft)	Count of Ops*	% of Ops	% of Ops Between Altitudes	% o	% of Ops At or Above Altitudes				
>6300	27	0.9%							
6000-6299	59	1.9%							
5700-5999	175	5.5%	8.3%						
5500-5699	137	4.3%	91.7%						
5000-5499	725	23.0%					35.6%		
4500-4999	823	26.1%							
4000-4499	650	20.6%				82.3%			
3500-3999	362	11.5%							
3000-3499	154	4.9%			98.6%				
2500-2999	43	1.4%							
<2500	1	0.0%		100.0%					
Grand Total	3156	100%							

Prepared by: LAWA Noise Management
\*Data source: LAX ANOMS

ANOMS Gate Penetration - GADDO August 1-31, 2020

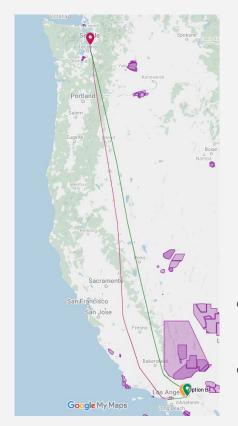
Altitude MSL (ft)	Count of Ops*	% of Ops	% of Ops Between Altitudes	% of Ops At or Above Altitudes			
>6300	37	0.9%					
6000-6299	86	2.0%					
5700-5999	195	4.6%	7.5%				
5500-5699	157	3.7%	92.5%				
5000-5499	997	23.4%					34.6%
4500-4999	1208	28.4%					
4000-4499	896	21.0%				84.0%	
3500-3999	454	10.7%					'
3000-3499	180	4.2%			98.8%		
2500-2999	44	1.0%					
<2500	5	0.1%		100.0%			
Grand Total	4259	100%					

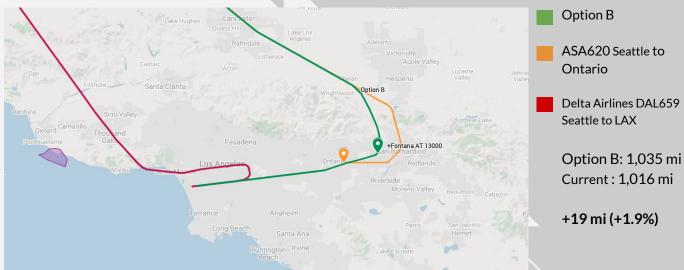
\*Data source: LAX ANOMS

# 6. Quiet Skies LA - Option B Study

- At the July Roundtable we all discussed what the next steps were regarding Option B that Quiet Skies LA proposed as alternate flight procedures (in height and path) to reduce low-flying North Downwind flights over City of LA, Culver City, etc.
- In July, the RT agreed to a modification of the bylaws that allows our body to put forth a proposal for the FAA to study Option 3
- Details and analysis of that Option B are not yet ready for action by this body, but should be at the next general RT meeting

# 6. Option B, Proposed Route Example





- Rerouting existing North Downwind Flights along existing flight paths could pull traffic off the North Downwind, thus reducing noise exposure, without creating excessive additional time in the air or fuel burn
- This does not appear to require large-scale redesign of existing airspace since we can rely on existing flight paths to Ontario and join up with ANJLL FOUR arrivals similar to Option A

# THANK YOU