YYCUpdate

YYC presentation to the Calgary Airport Authority Community Consultative Committee (ACCC)



Agenda

- Welcome
- Introductions & land acknowledgment
- Safety Minute
- YYC Update
- West Runway
- Chestermere Noise Van Results
- Q&A



In the spirit of respect, reciprocity and truth, we honour our ancestors and those who took care of this land long before we were here by acknowledging the Treaty 7 territory of the Blackfoot confederacy.

This includes the SikSika, Kainai, Piikani peoples — as well as the Îyâxe Nakoda, and Tsuut'ina nations. This territory is also home to the Métis Nation of Alberta, Region 3.

We embrace the role of helping to protect, the space and foster the growth and development of the peoples – both the Indigenous and non-Indigenous - who live, work, and play on these lands.





West Runway Rehabilitation

Airport Community Consultative Committee



MARCH 2023





WEST RUNWAY REHABILITATION PROJECT





RECAP

- Runway 17R-35L was constructed in phases between 1939 and 1970's.
- Since it's original construction there have been a number of surface restorations to prolong the life of the asset.
- A full depth rehabilitation of the runway is required to ensure safe, secure and efficient airport operations. Additionally, Runway End Safety Areas (RESA) will be installed to ensure compliance with Transport Canada Regulations.

1956



IMPORTANCE OF THIS WORK

OPERATE SAFELY

The rehabilitation is essential for ensuring a safe, secure and efficient airport environment – ensuring YYC can safely operate while meeting the demands of passenger and cargo traffic over the next 40 years.

GROW CALGARY'S ECONOMY

Ensure we have the capacity to continue to attract various commercial partners through YYC, as one of Canada's biggest travel and cargo hubs. This enables foreign direct investment, trade, tourism and critical goods movement. This work is also anticipated to create approximately 300 jobs.

ENHACE SUSTAINABLE PRACTICES

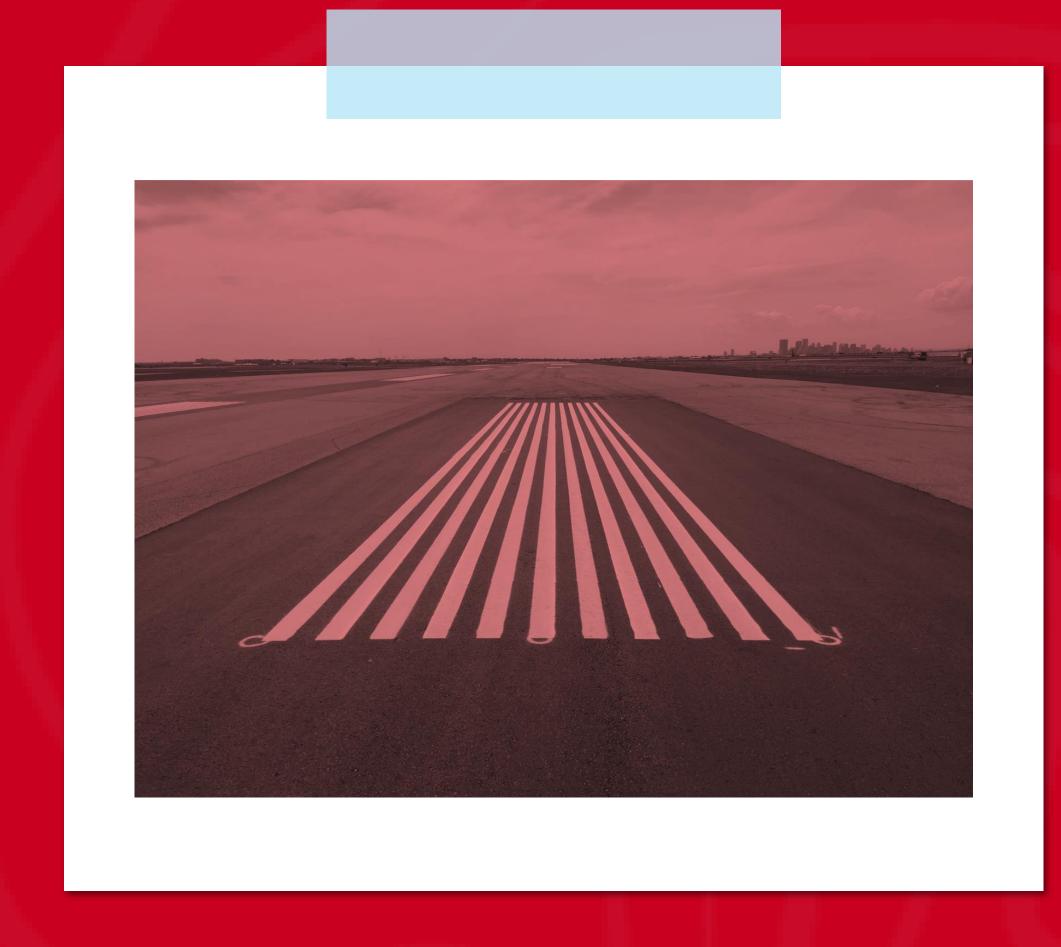
friendly and sustainable practices that ultimately minimize the impact on this land, any wildlife and the environment. The project will use crushed concrete from the old pavement removal and recycle milled asphalt to be reused for this and future projects.





Key risks if project is not completed:

- Structural or Electrical failure
- Costly Emergency Repairs
- Runway Capacity
 Constraints

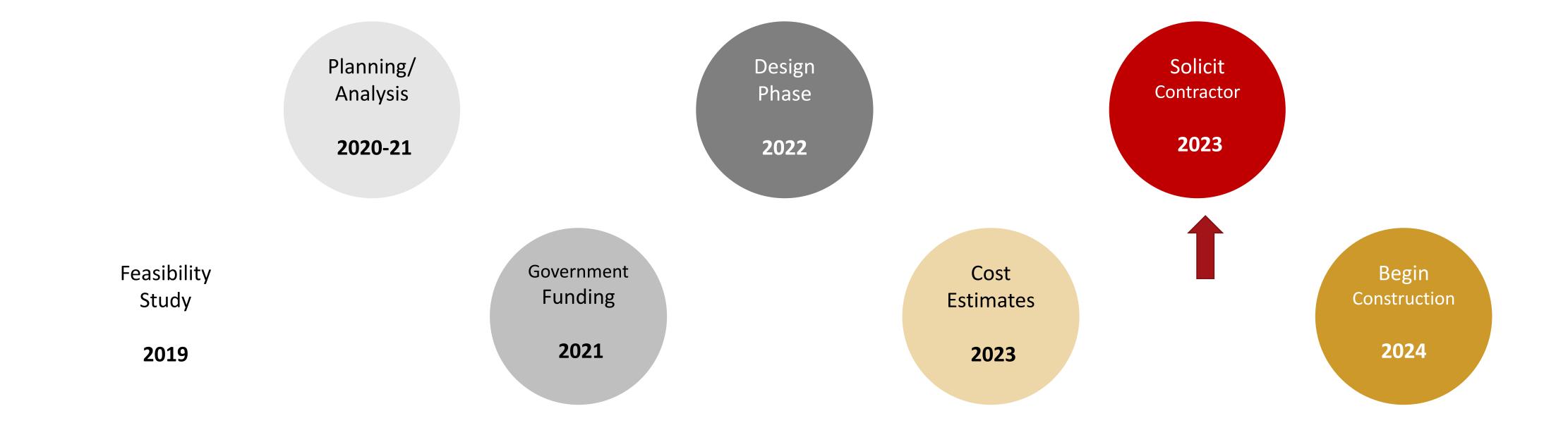


Key objective throughout this project is to ensure we are providing transparent and timely communication.

PROJECT UPDATE:

- Construction was scheduled to begin April 3, 2023
- Project costs have escalated due to increases in commodity pricing and inflation
- YYC is pausing the construction start date
- YYC is pursing additional Federal and Provincial Funding
- The Project will maintain a 2-year
 Construction Schedule (2024 & 2025)
- Rehabilitation of the West Runway remains a top priority for the Calgary Airport Authority

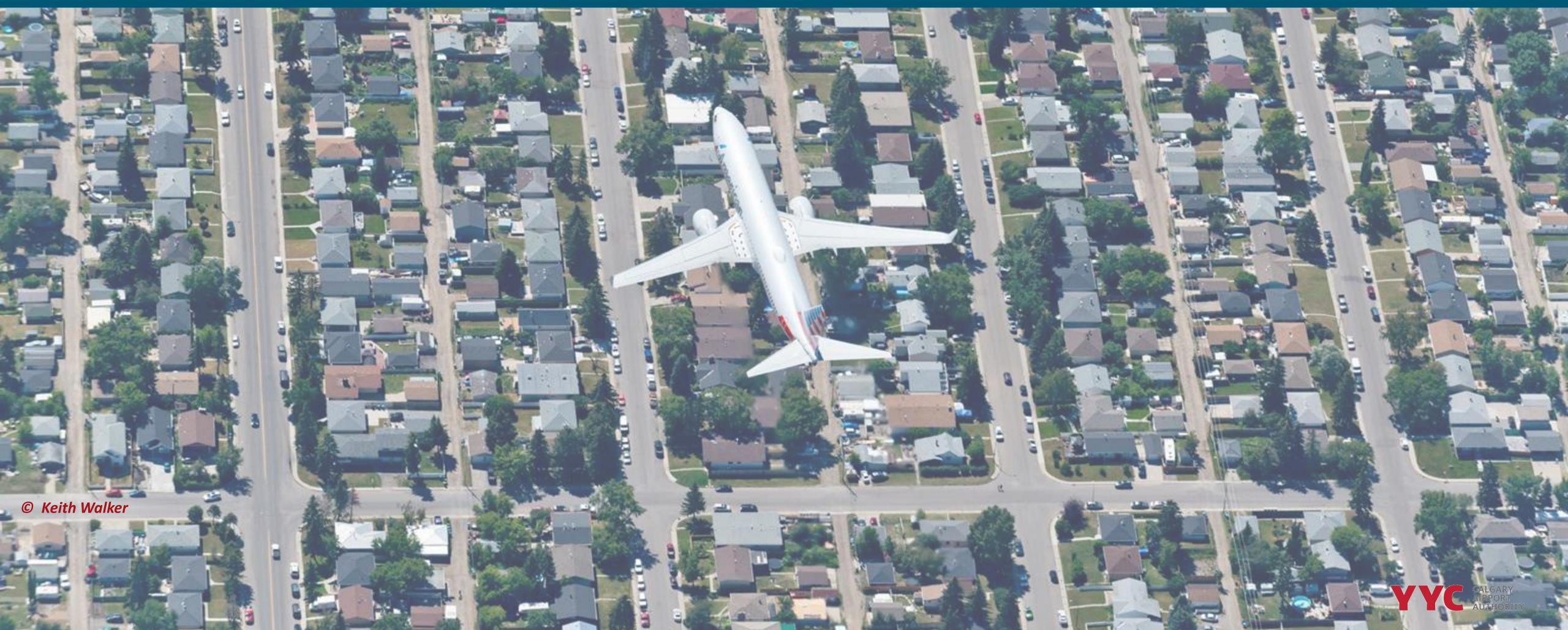
WEST RUNWAY REHABILITATION PROJECT ROADMAP











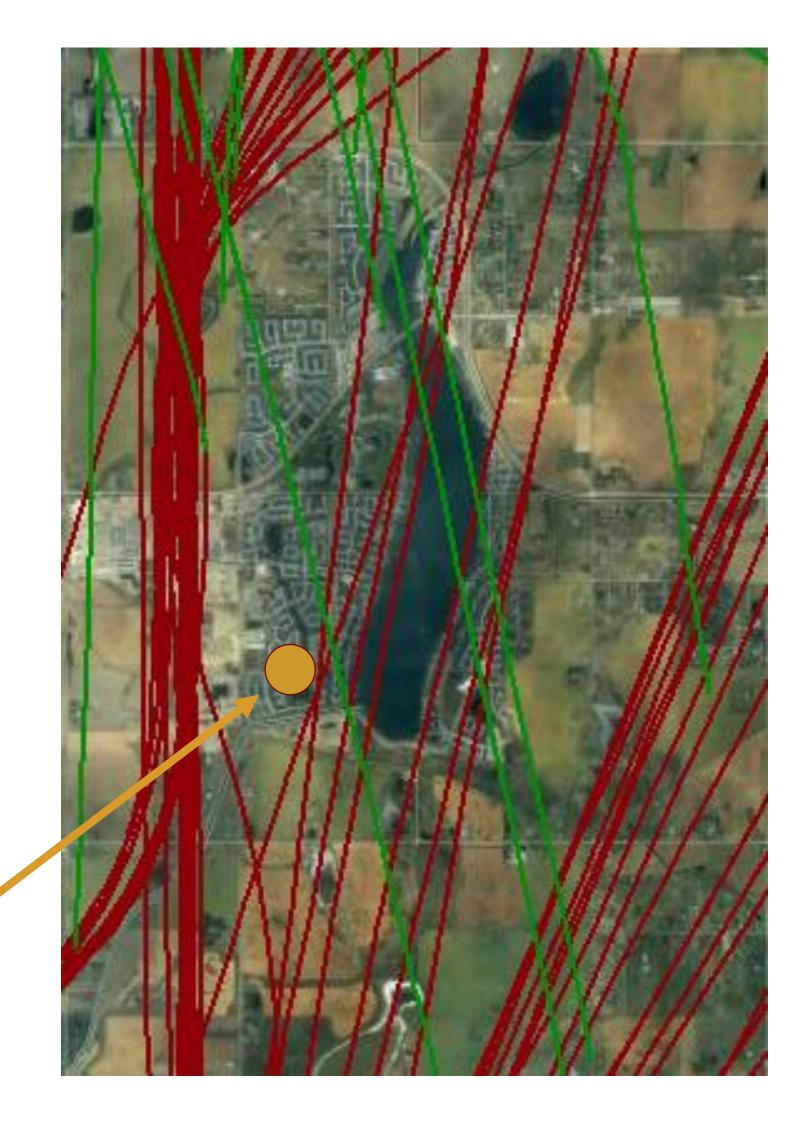


PURPOSE OF THIS ANALYSIS

- Town of Chestermere identified an increase in noise impacts due to aircraft arrivals
- To understand what information and analysis will be helpful to community members

Mobile NMT location

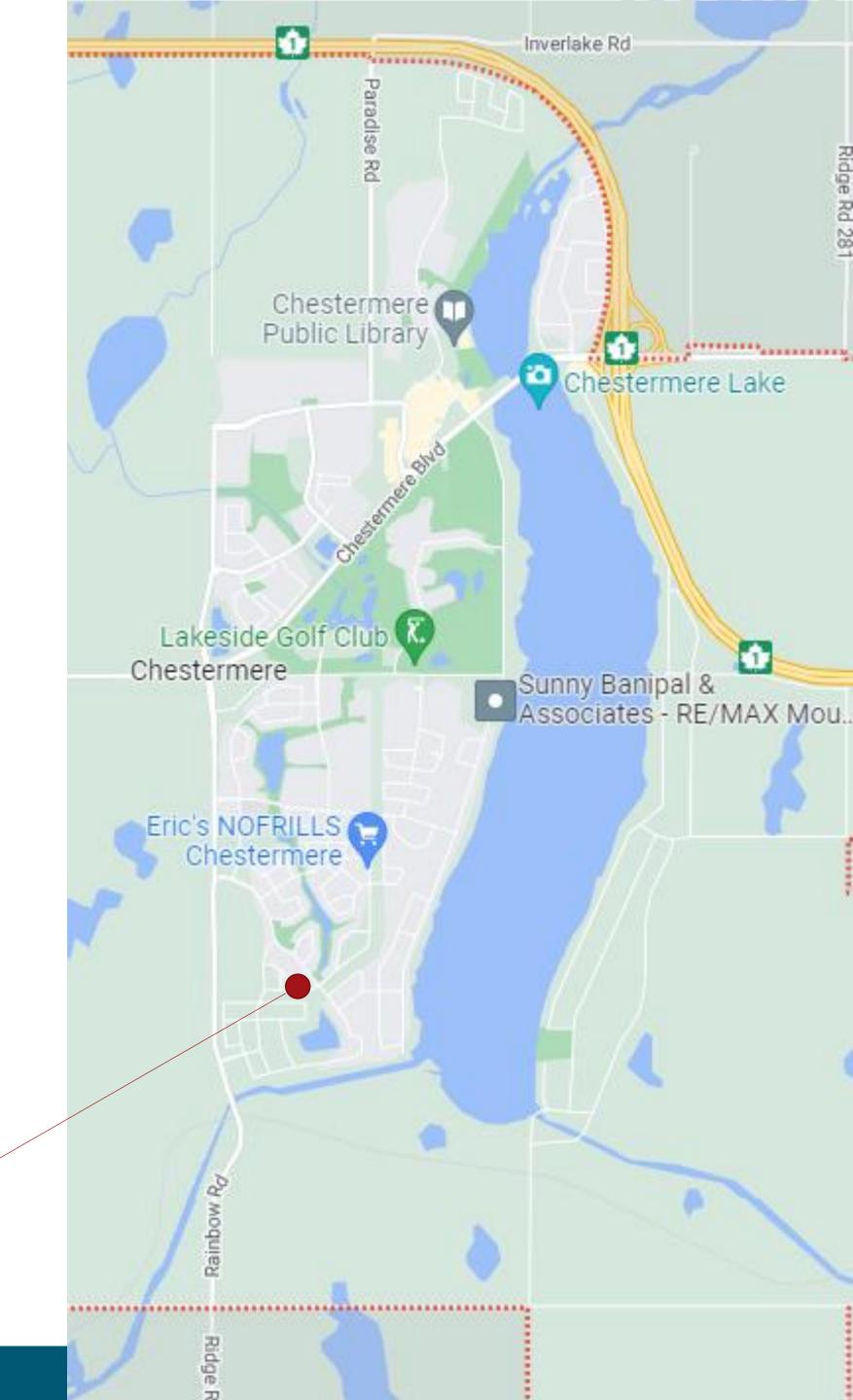
ChestermereFlight Tracks OCT 08, 2019



AND APPROACH

- Mobile NMT in SW corner of residential area in Chestermere
- Mobile noise monitoring terminal deployed from September 23 to October 27, 2019
- Analysis is on the Mobile Noise Terminal, there is no permanent NMT
- There is a 60 dBA threshold on the NMT

Mobile
Noise
Monitoring
Terminal



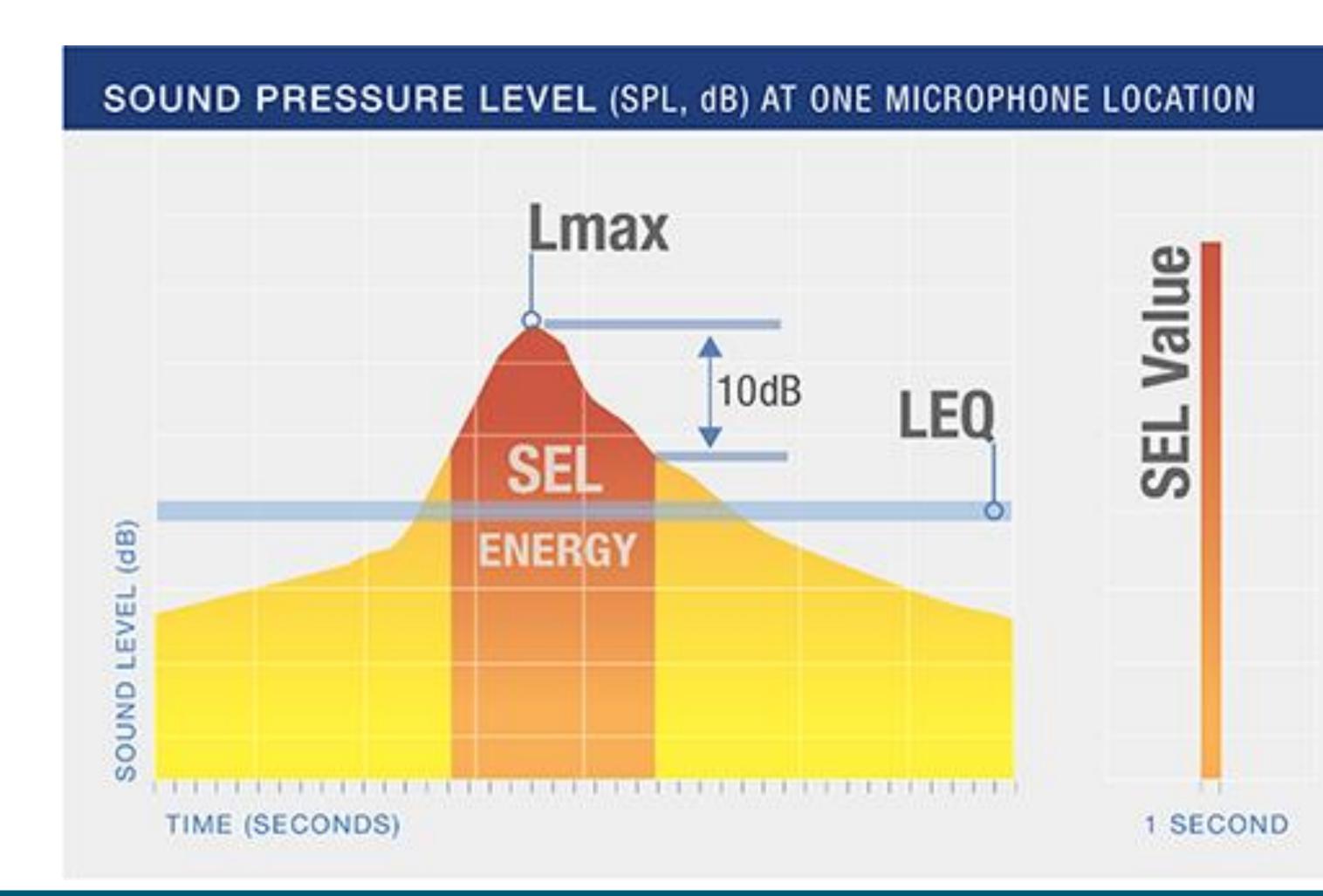
AIRCRAFT ACOUSTICS 101

Lmax

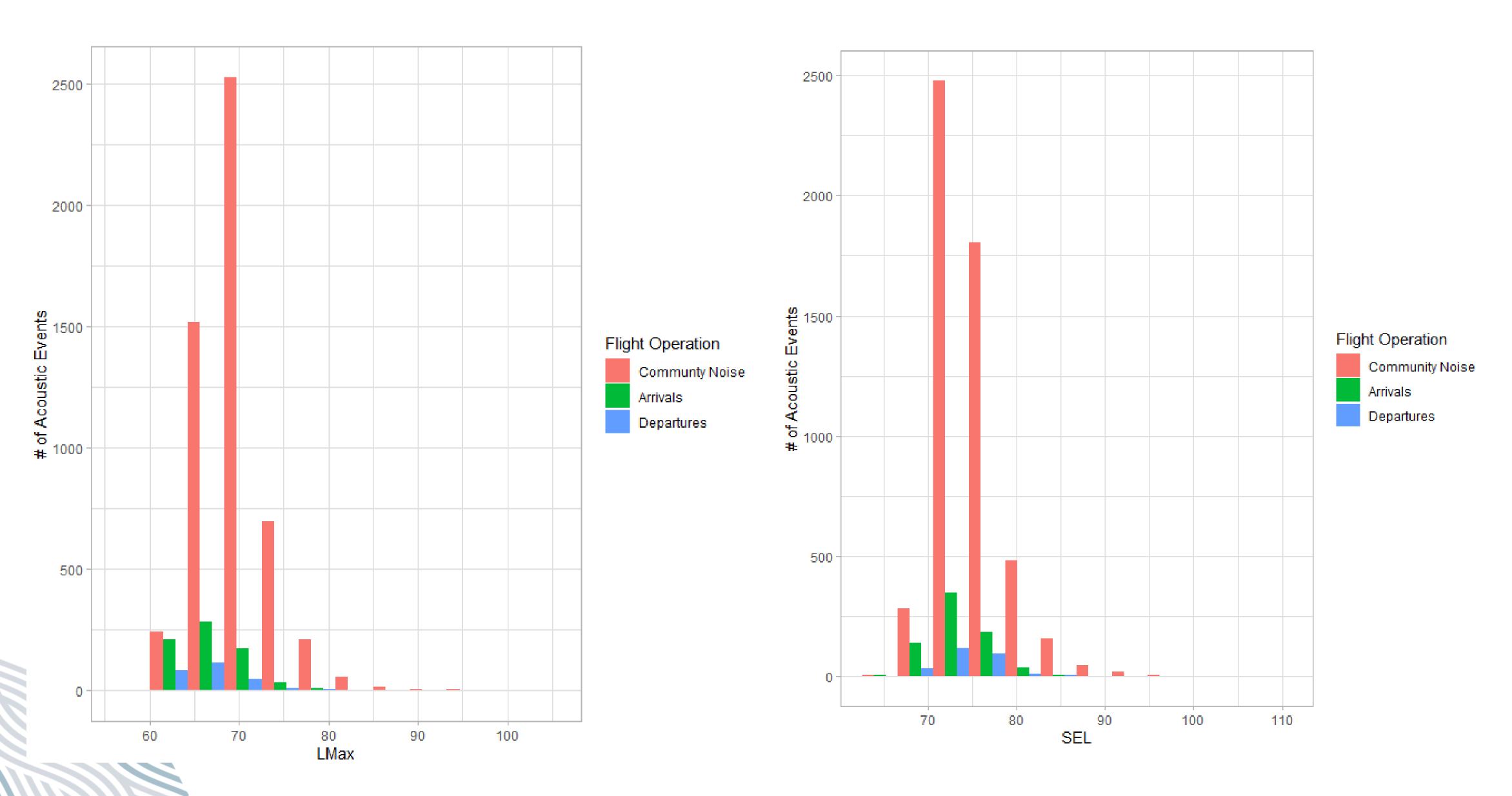
 Maximum instantaneous sound pressure

Sound Exposure Level (SEL)

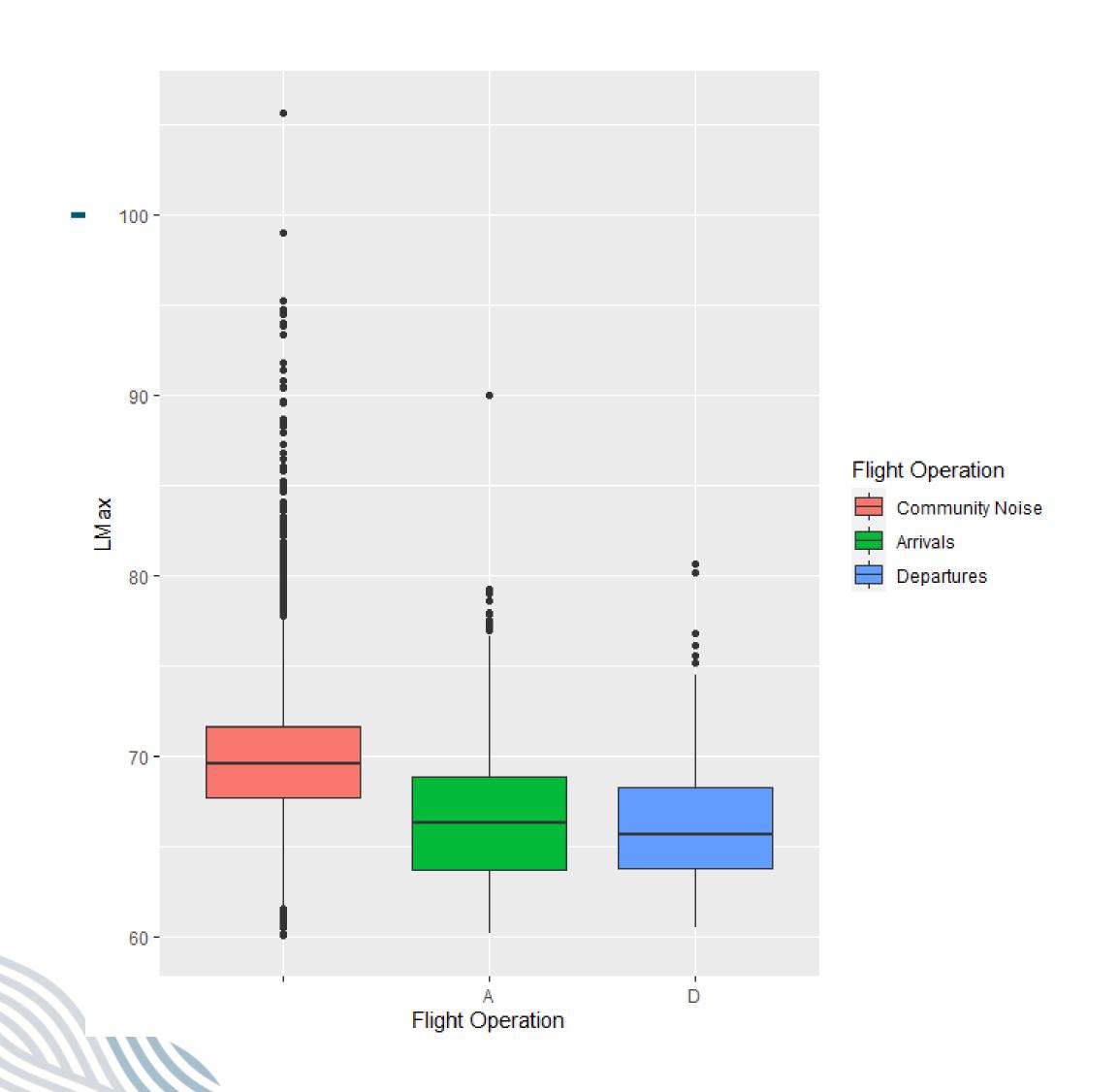
 Metric for comparing acoustic events of different durations

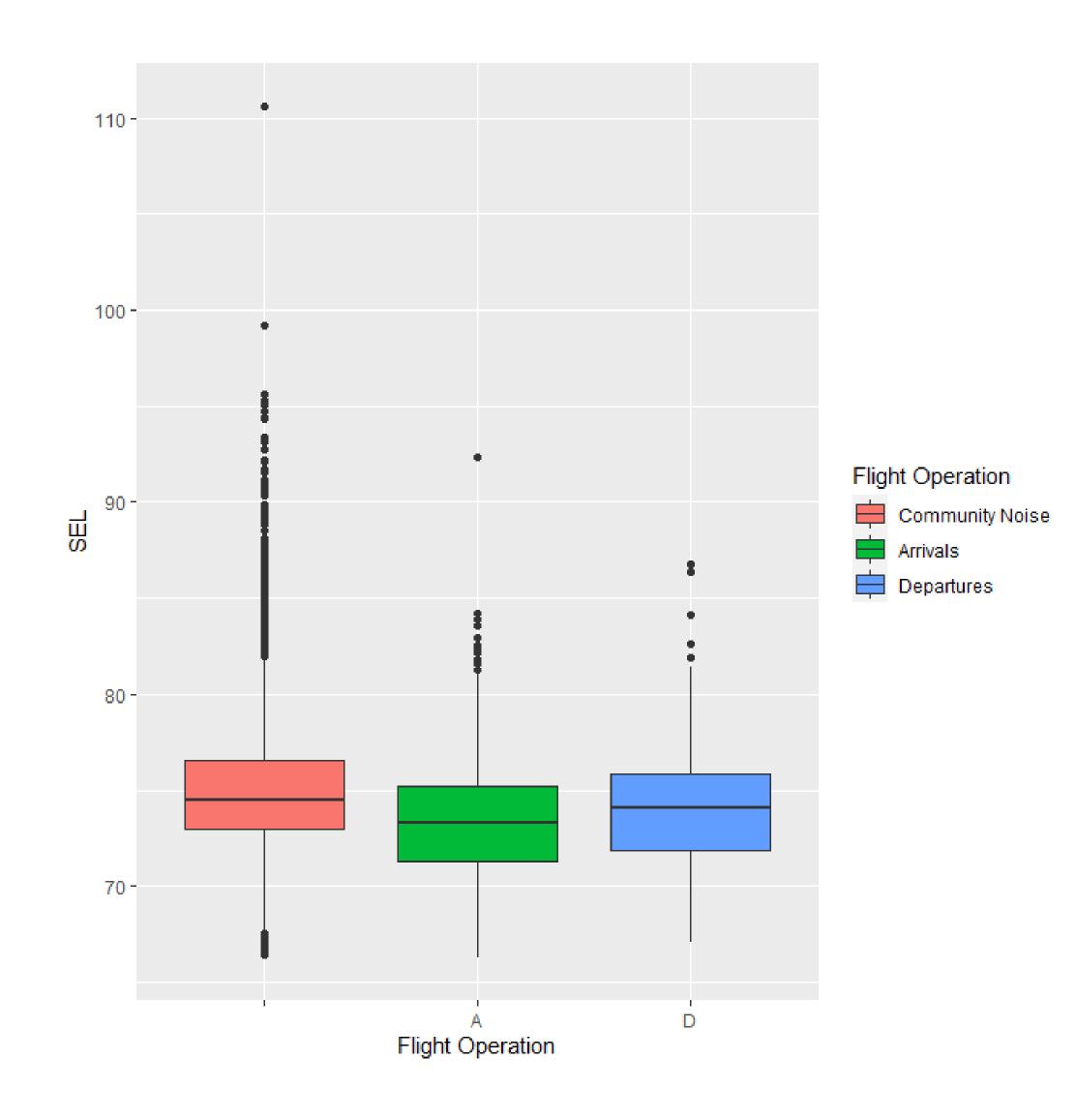


NUMBER OF ACOUSTIC EVENTS

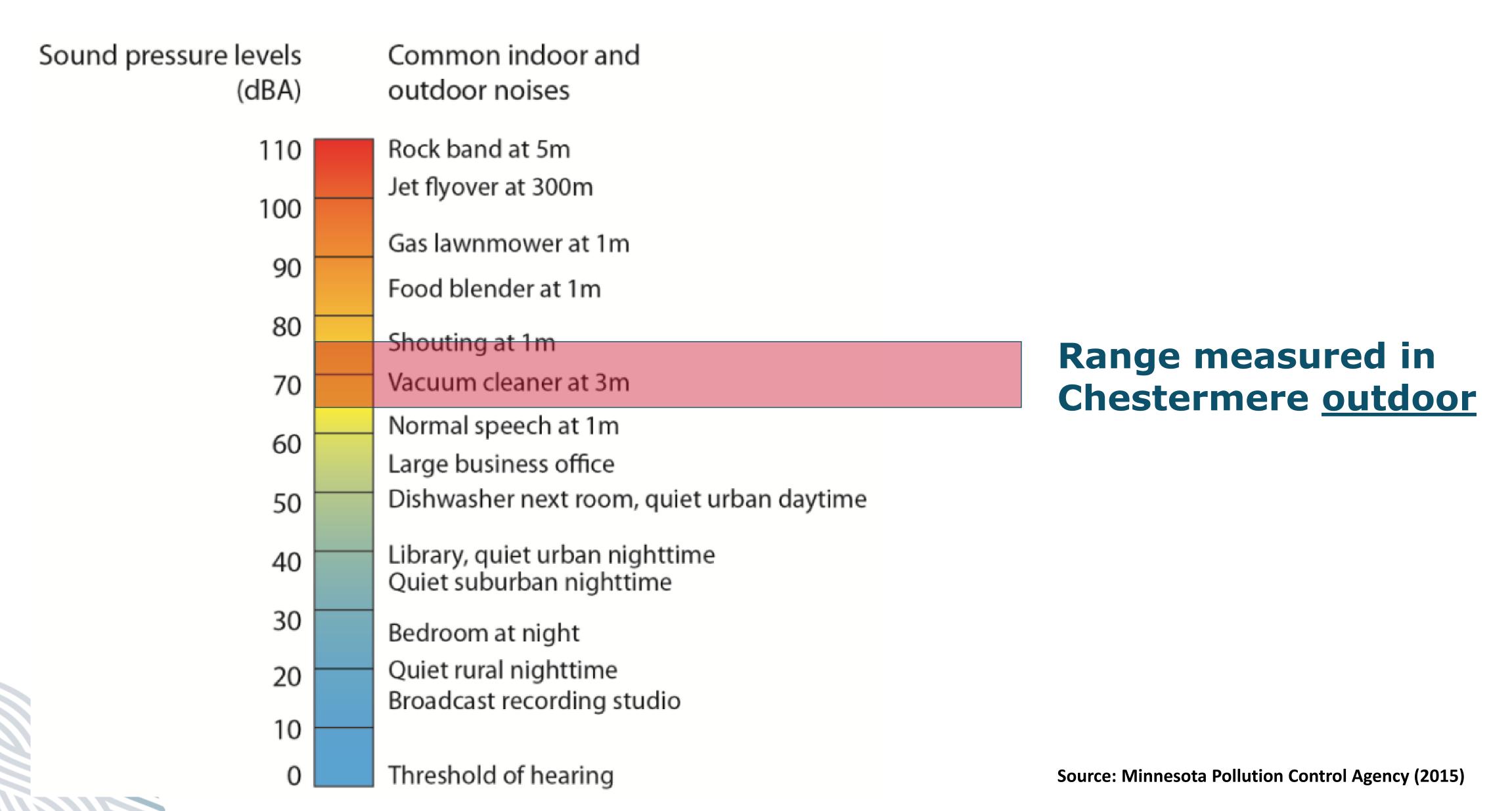


CHESTERMERE ACOUSTICS (SEL & Lmax)



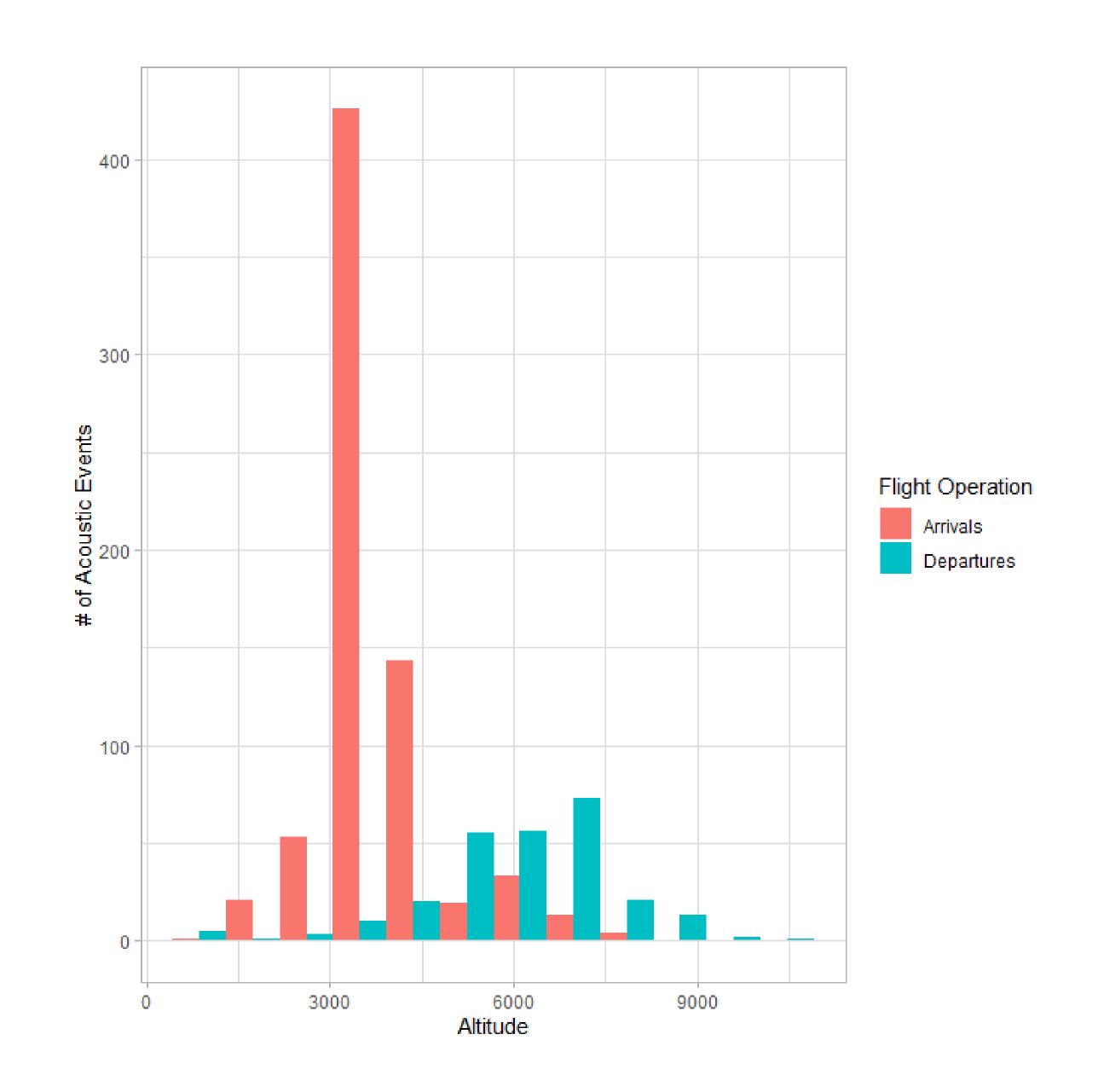


LMAX SUMMARY



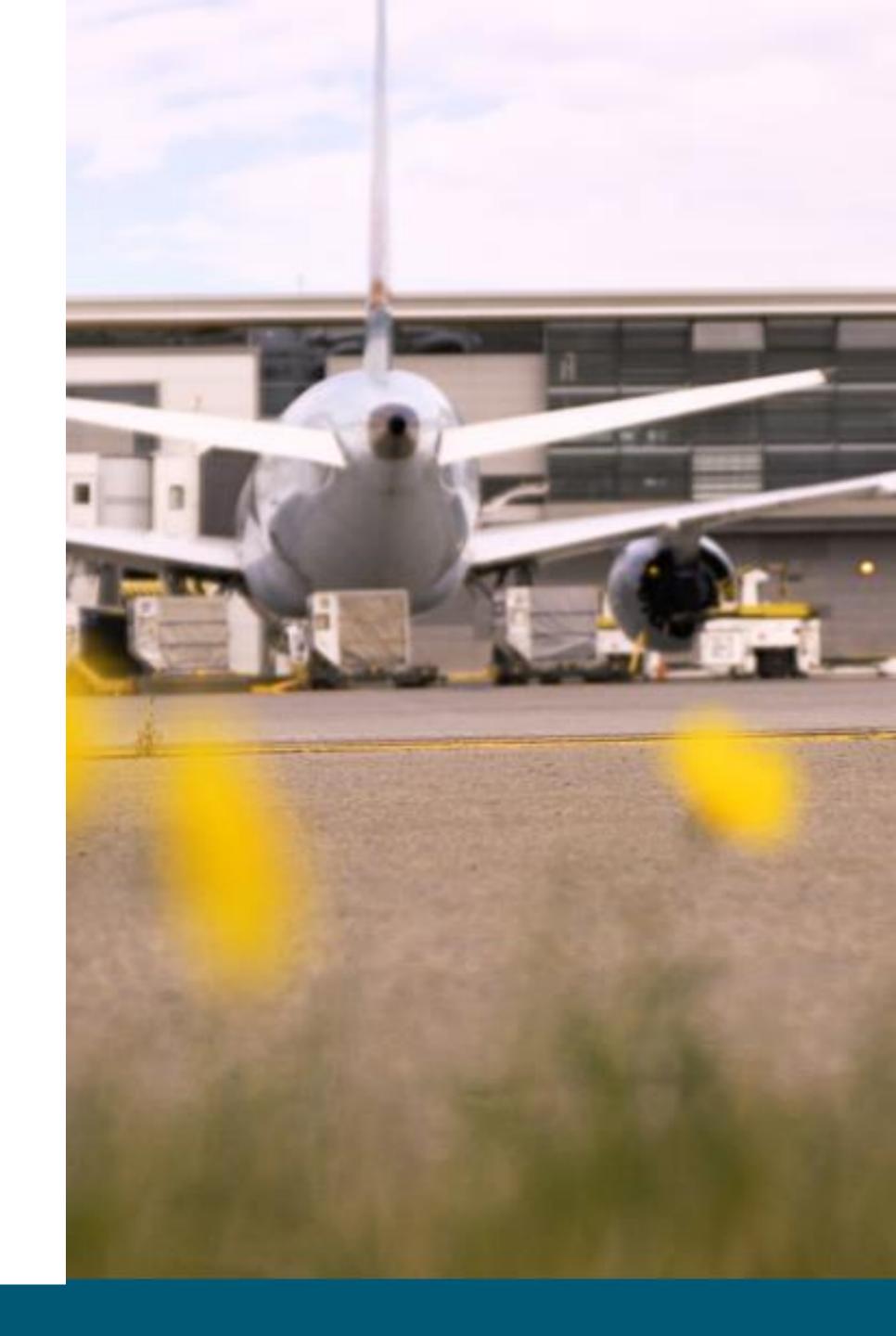
FLIGHTS BY ALTIUDE

- 96.5% of noise events from aircraft were over 2,000ft AGL
- Average altitude of all aircraft was 4,432ft AGL

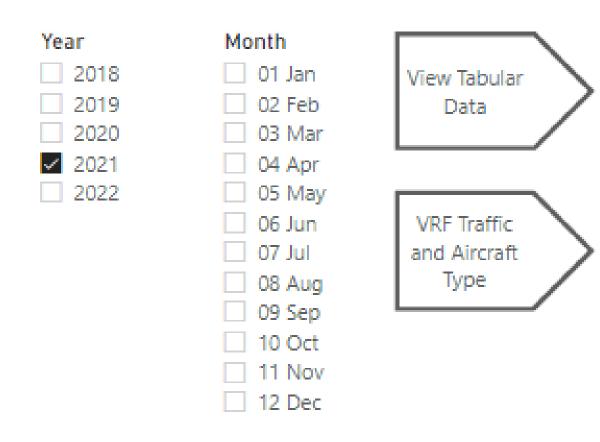


PRELIMINARY FINDINGS Sept 23 – Oct 27, 2019

- Average altitude of overflights is 4,432 ft AGL
- Range of Sound Exposure Level (SEL) for aircraft noise events is 70-76 dB
- Range of Lmax for aircraft noise events is 60-70 dB
- Average of 31 flights per day that registered a noise event
- What the operation is: Arrival flights are on the RNP approach to west of Chestermere

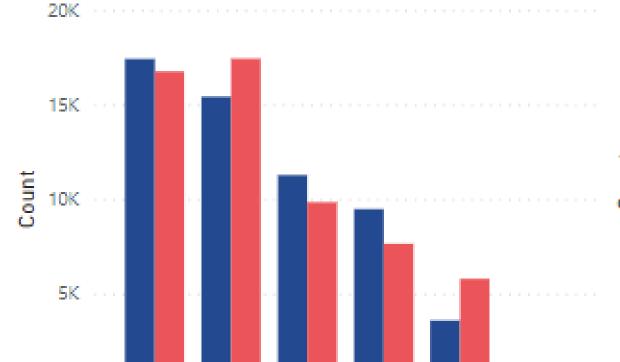


AIR TRAFFIC DASHBOARD



Breakdown by Runway for Selected Timeframes

Operation Arrival Departure



35R

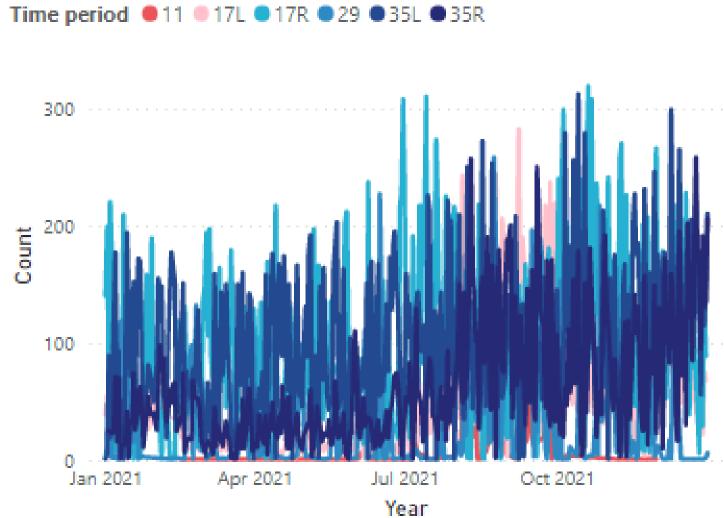
17L

Runway

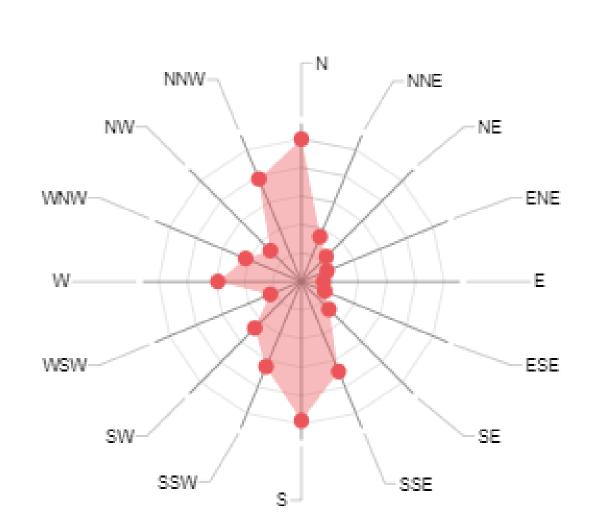
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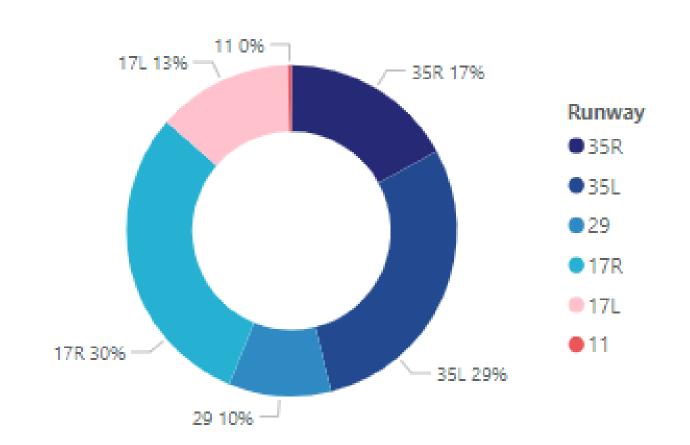
Breakdown Over Time for Selected Timeframes



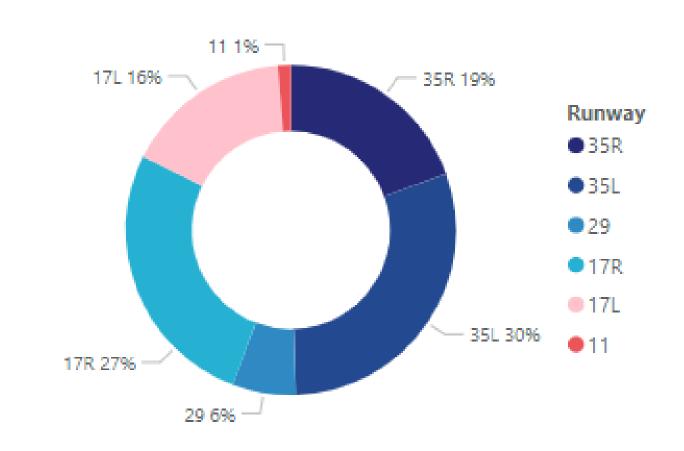
Wind Rose (3-Hourly Observations @ 10m)



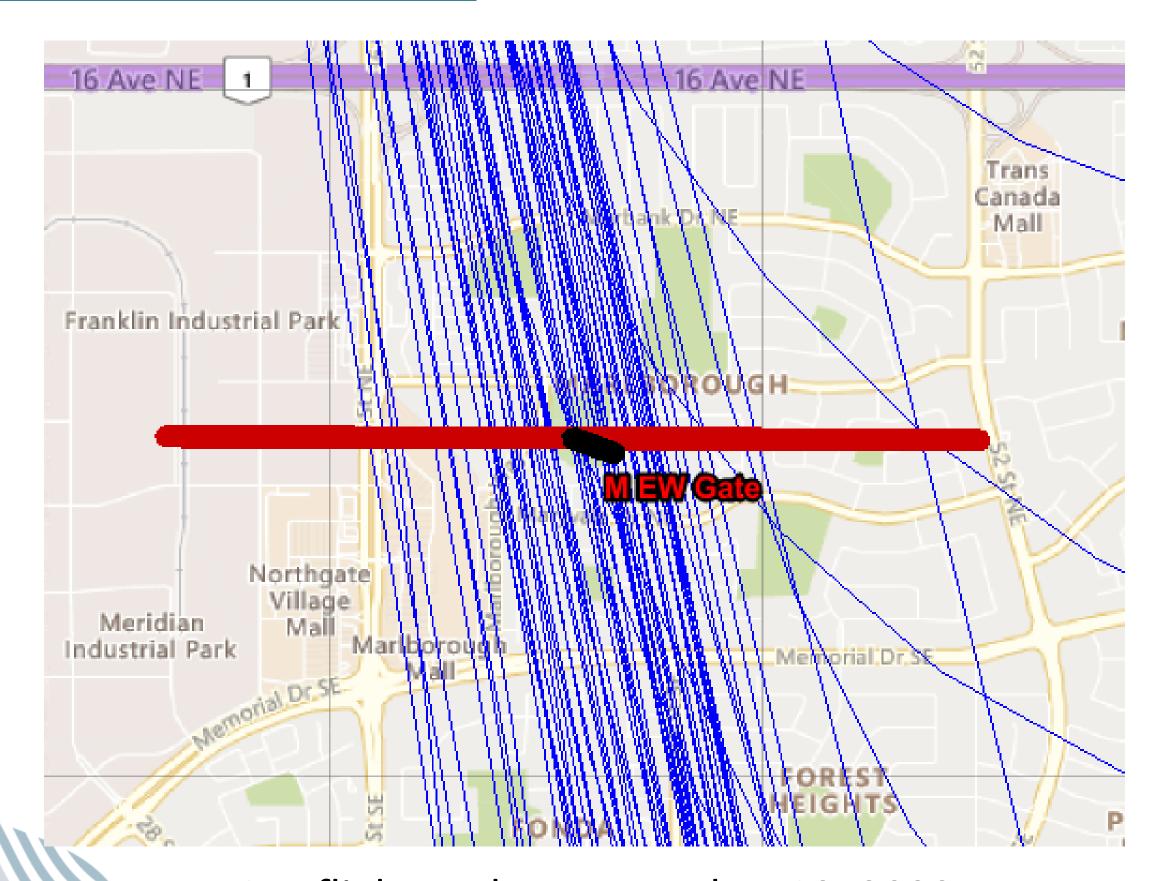
Departures



Arrivals



Marlborough Overflight Analysis



17L flight paths - November 10, 2022

- Concerns at last meeting regarding an increase in flight activity over Marlborough in late 2022
- Compared flights over
 Marlborough in Sept/Oct of 2020, 2021, 2022
- Monthly trend of flights over Marlborough in 2022

Marlborough Overflight Analysis





