



NOISE OVERSIGHT COMMITTEE

March 17, 2021

Audio recordings are made of this meeting

Agenda

1. Consent

1.1 – Approval of February 17, 2021 Meeting Minutes

1.2 – Reports

1.2.1 – Monthly Operations Reports: January and February 2021

2. Public Comment Period

3. Business

4. Information

4.1 – 2020 Annual Noise Contour Report and Residential Noise Mitigation Program Eligibility

4.2 – 2021 MSP Airfield Construction Schedule

4.3 – Minnetonka Mobile Noise Monitoring Report Plan

4.4 – Review of Winter Listening Session

5. Announcements

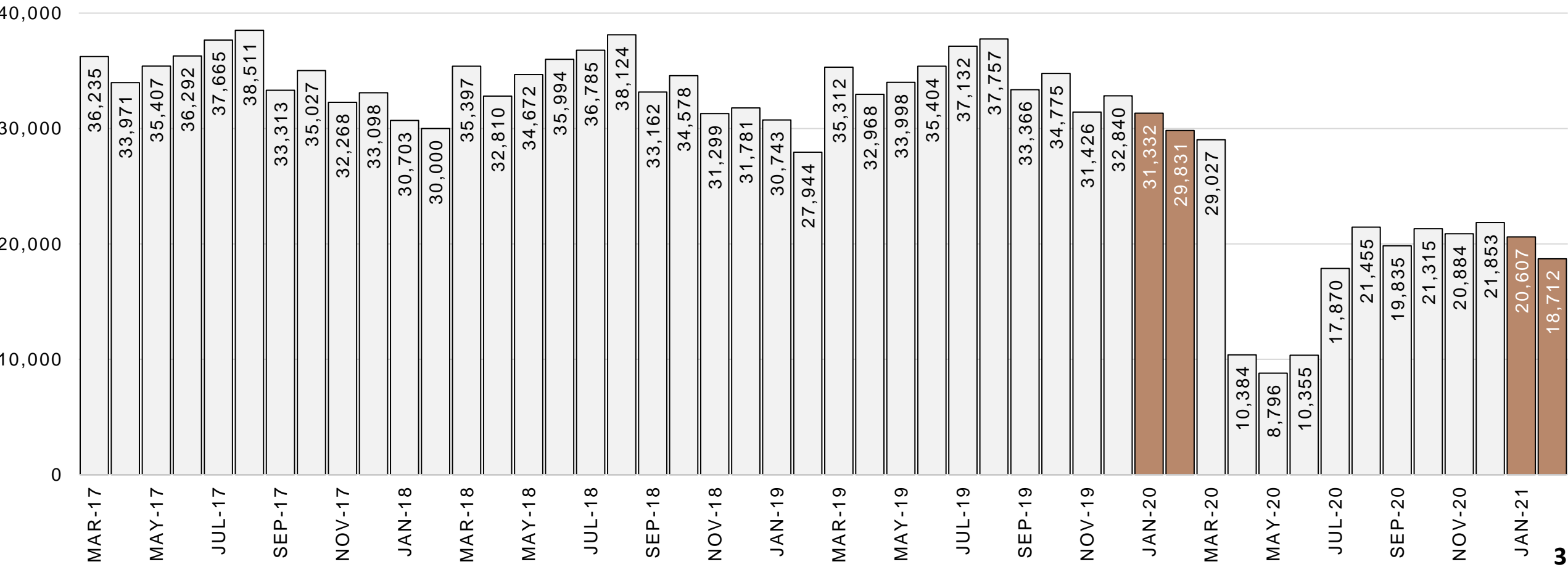
6. Adjourn



NOISE OVERSIGHT COMMITTEE
MARCH 17, 2021

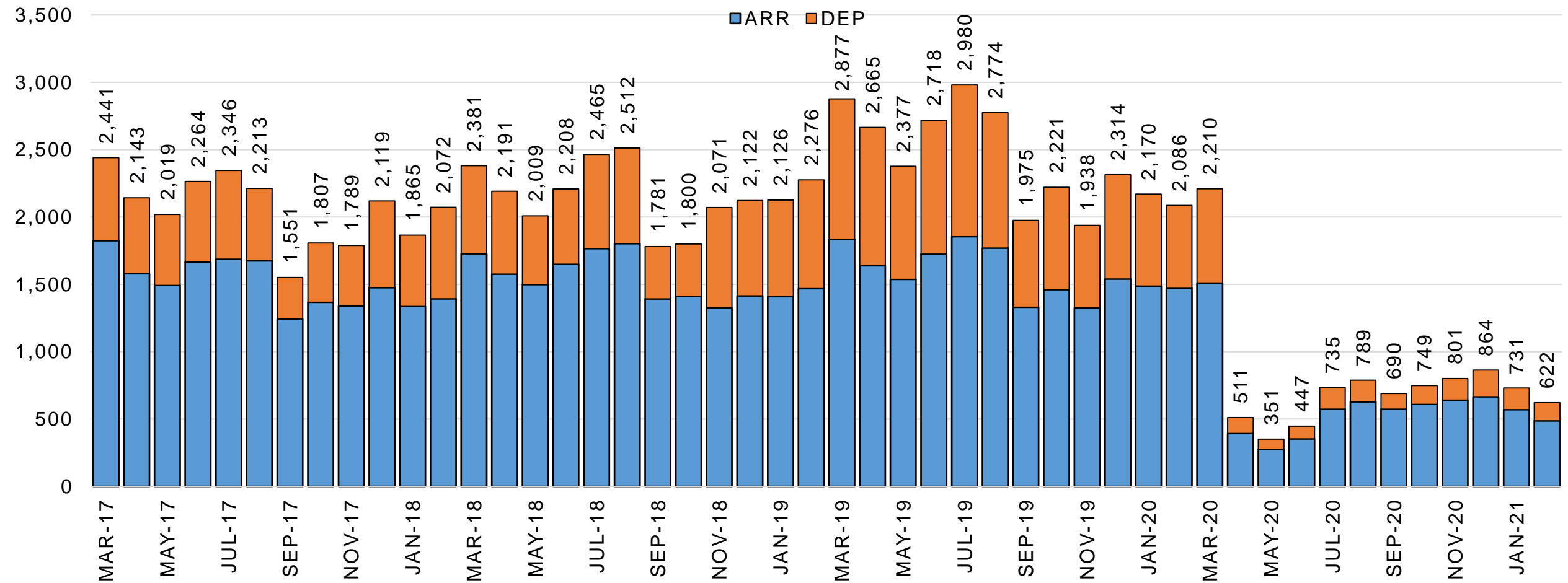
MSP OPERATIONS

JAN 2021		FEB 2021	
20,607	731	18,712	622
Operations	Nighttime Operations (10:30 PM – 6:00 AM)	Operations	Nighttime Operations (10:30 PM – 6:00 AM)



MSP OPERATIONS

JAN 2021		FEB 2021	
20,607	731	18,712	622
Operations	Nighttime Operations (10:30 PM – 6:00 AM)	Operations	Nighttime Operations (10:30 PM – 6:00 AM)



RUNWAY USE

JAN 2021		
NORTH FLOWS	SOUTH FLOWS	MIXED FLOWS
49%	41%	3%

FEB 2021		
NORTH FLOWS	SOUTH FLOWS	MIXED FLOWS
59%	27%	2%

2020 JAN – FEB		
NORTH FLOWS	SOUTH FLOWS	MIXED FLOWS
37%	43%	12%

2021 JAN – FEB		
NORTH FLOWS	SOUTH FLOWS	MIXED FLOWS
54%	35%	3%

North Flow



South Flow



Mixed Flow



JAN – FEB RUNWAY USE

39,319
OPERATIONS IN JAN – FEB

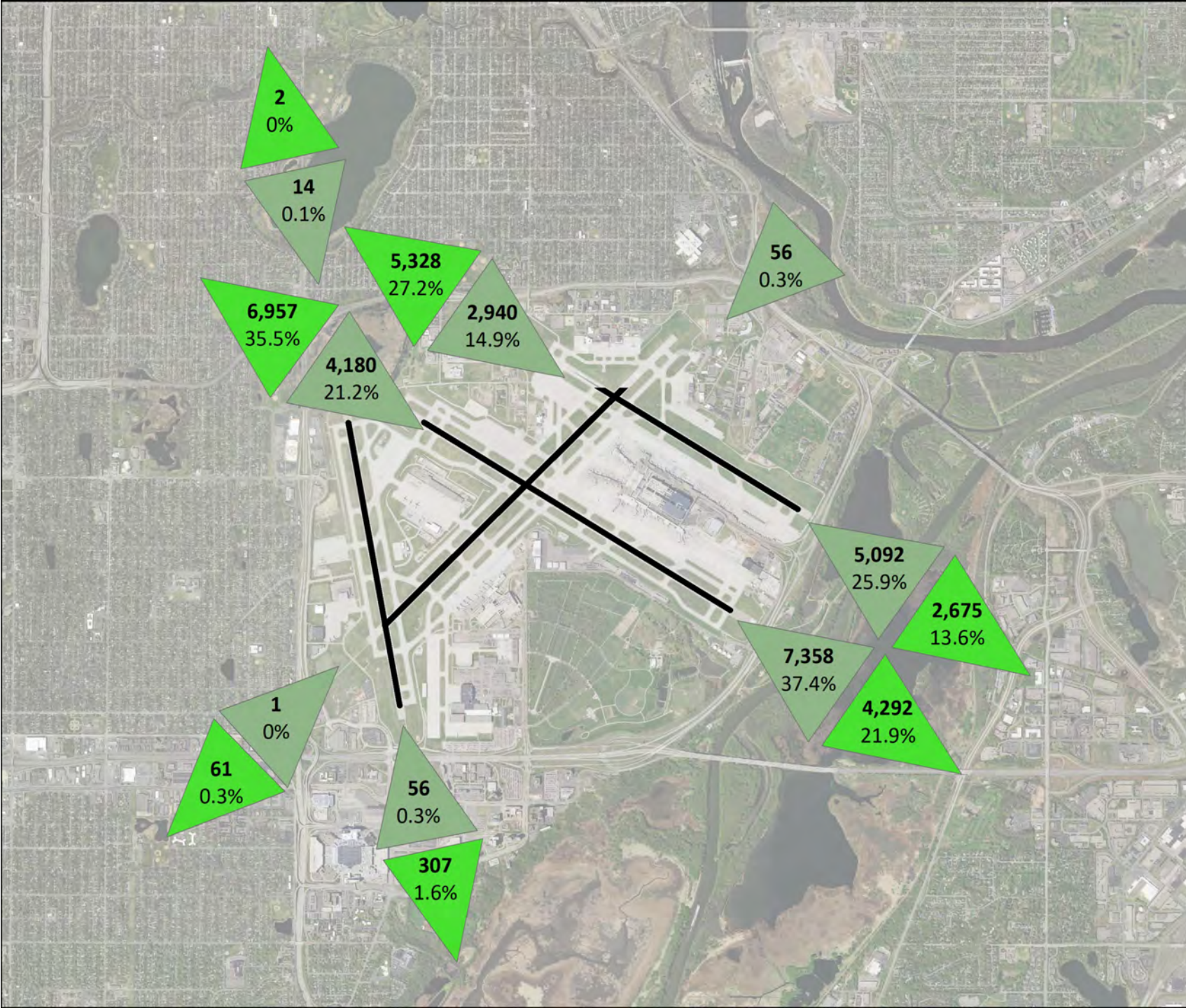
PRIORITY 1	PRIORITY 2	PRIORITY 3	PRIORITY 4
49%	1%	0%	49%

19,697
ARRIVALS

PRIORITY 1	PRIORITY 2	PRIORITY 3	PRIORITY 4
63%	0%	0%	36%

19,622
DEPARTURES

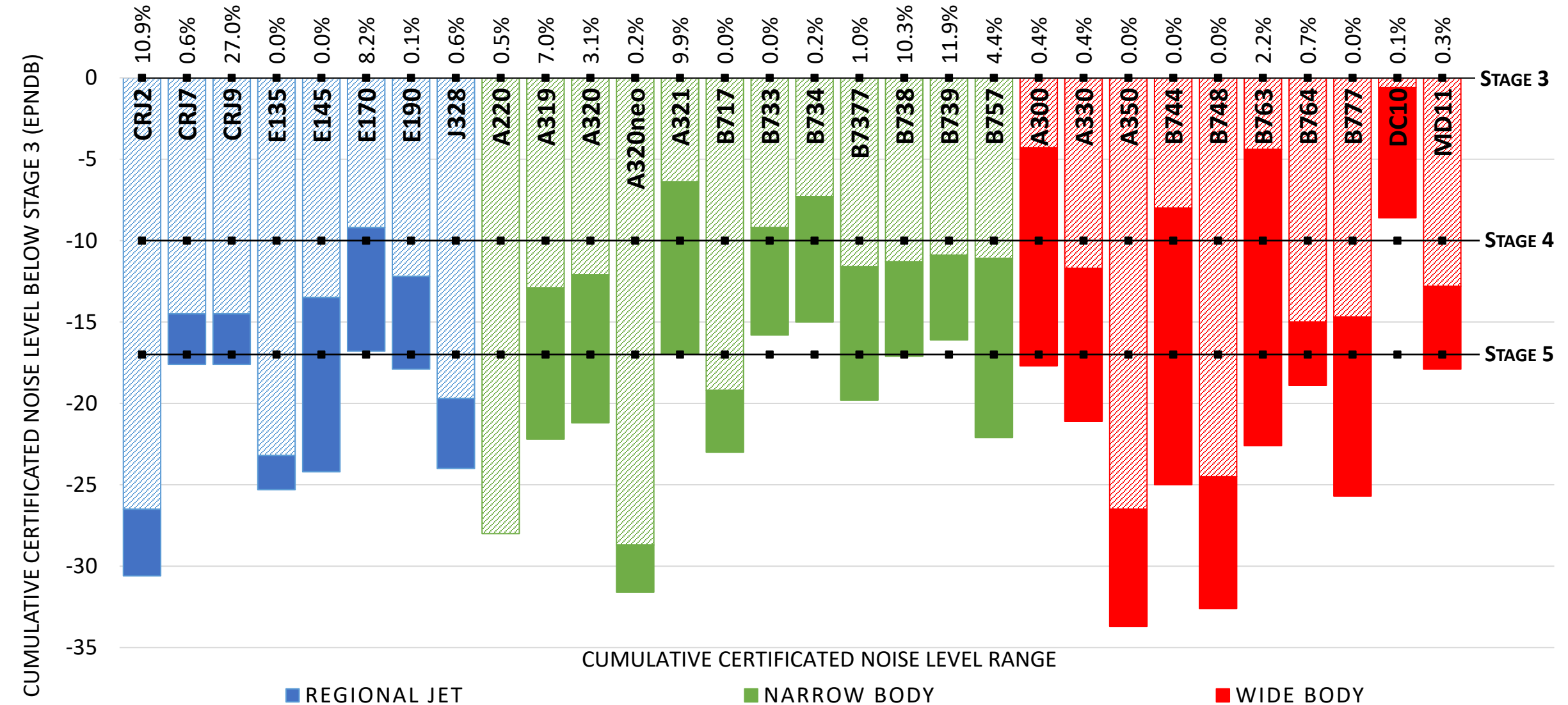
PRIORITY 1	PRIORITY 2	PRIORITY 3	PRIORITY 4
36%	2%	0%	63% 6



MSP OPERATIONS

2021 MSP CARRIER JET USAGE WITH CUMULATIVE CERTIFICATED NOISE LEVELS

Jan - Feb

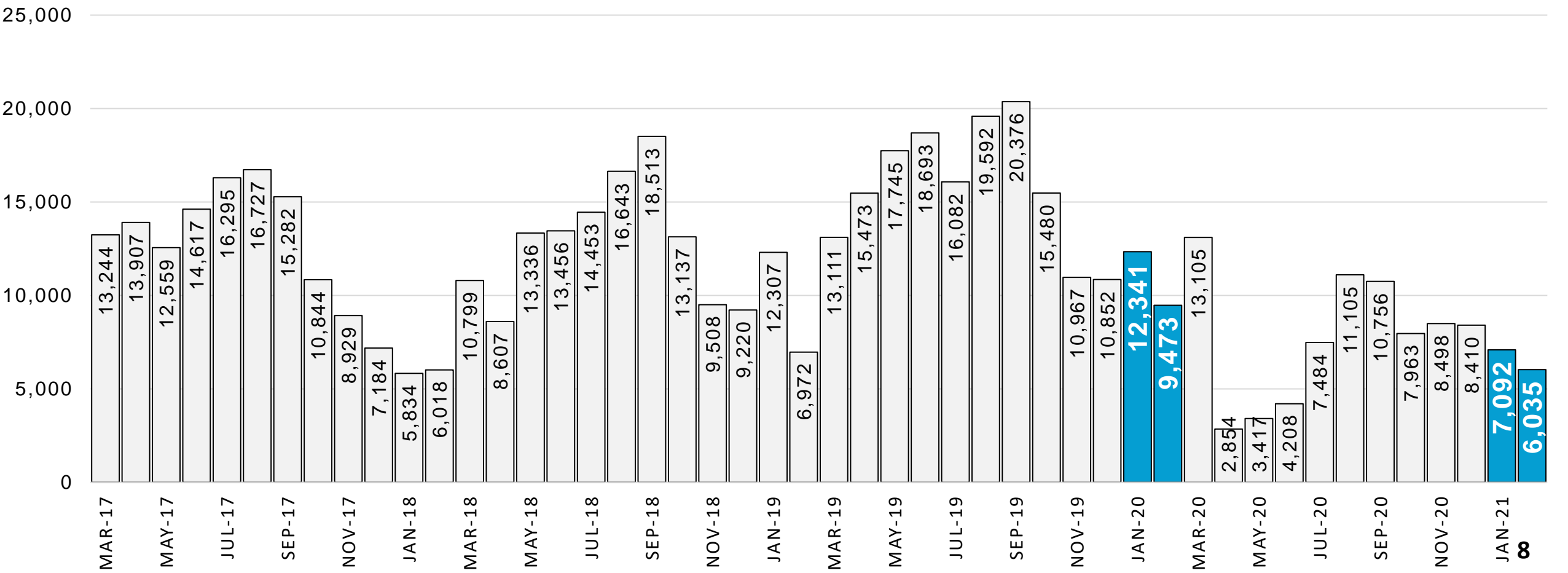


SOURCE: USAGE DATA: MACNOMS; NOISE CERTIFICATION DATA: EUROPEAN AVIATION SAFETY AGENCY

CUMULATIVE CERTIFICATED NOISE LEVELS REPRESENTED AS A RANGE TO ACCOUNT FOR MULTIPLE CERTIFICATION VARIABLES (WEIGHT, MODEL, ENGINE TYPE, AIRFRAME CONFIGURATION, ETC)

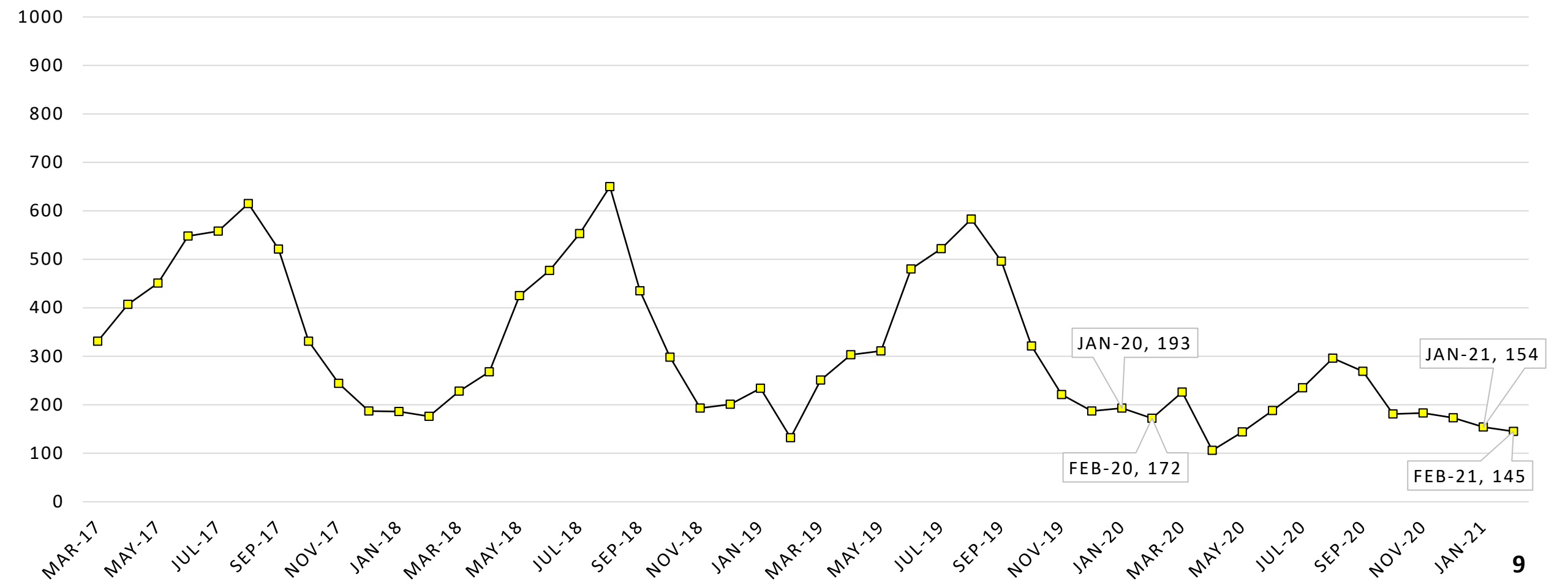
MSP COMPLAINTS

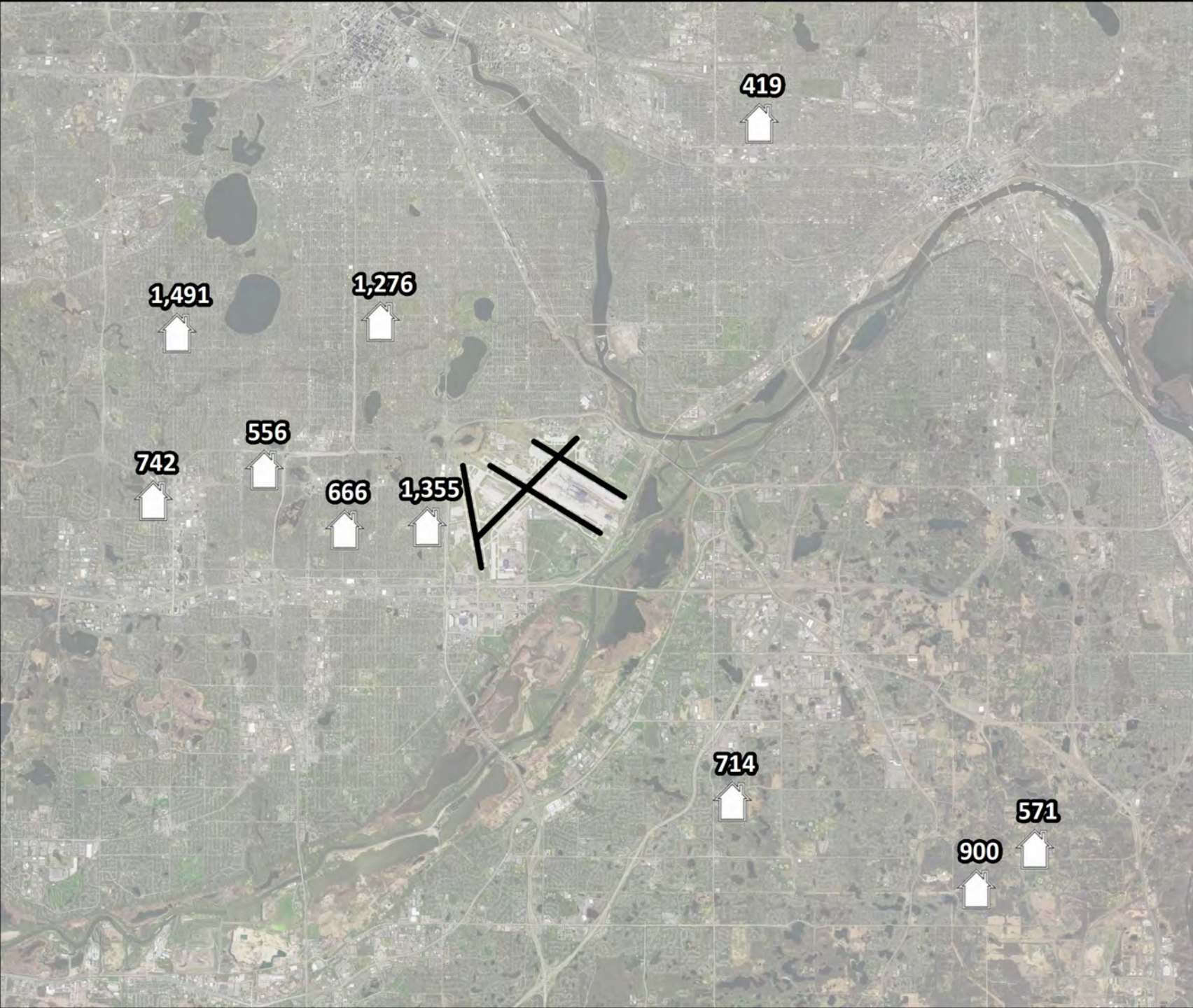
JAN 2021				FEB 2021			
COMPLAINTS	LOCATIONS			COMPLAINTS	LOCATIONS		
7,092	154			6,035	145		
Operations per Complaint	New Locations	Average	Median	Operations per Complaint	New Locations	Average	Median
2.9	15	46	3	3.1	14	42	3



MSP COMPLAINTS

JAN 2021				FEB 2021			
COMPLAINTS	LOCATIONS			COMPLAINTS	LOCATIONS		
7,092	154			6,035	145		
Operations per Complaint	New Locations	Average	Median	Operations per Complaint	New Locations	Average	Median
2.9	15	46	3	3.1	14	42	3





TOP 10 LOCATIONS

FILED
8,690
(66%)
COMPLAINTS DURING JAN & FEB

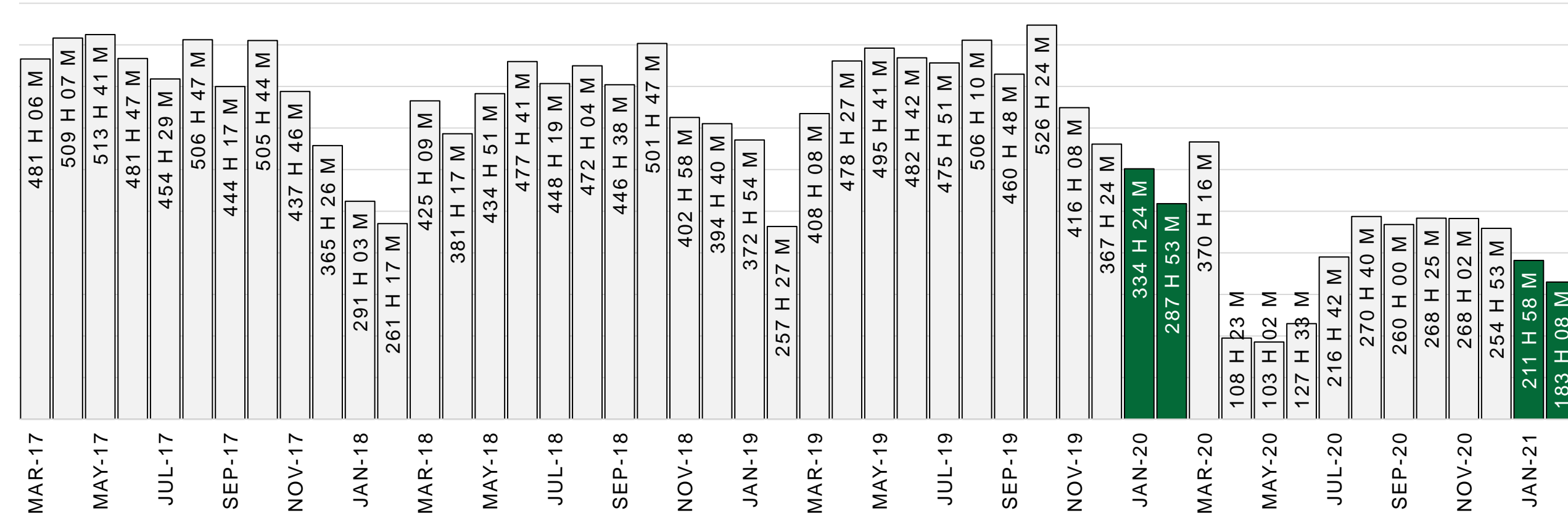
9 OF 10
HOUSEHOLDS WERE IN THE TOP 10
FOR NOV – DEC

140
(51%)
HOUSEHOLDS FILED 10 OR FEWER
COMPLAINTS

10

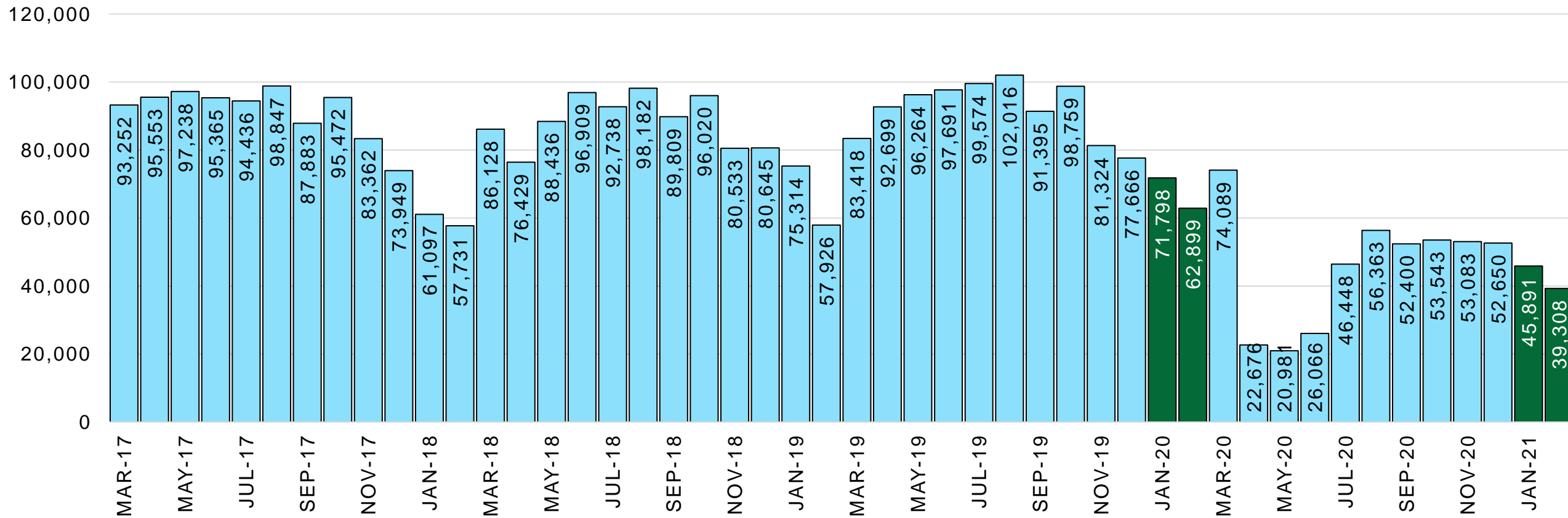
SOUND MONITORING

JAN 2021			FEB 2021		
Time Above	37 _s TA ⁶⁵ per operation	211 _h 58 _s TA ⁶⁵	Time Above	35 _s TA ⁶⁵ per operation	183 _h 8 _m TA ⁶⁵
Count Above	2.23 N ⁶⁵ per operation	45,891 N ⁶⁵	Count Above	2.1 N ⁶⁵ per operation	39,308 N ⁶⁵



SOUND MONITORING

JAN 2021			FEB 2021		
Time Above	37_s TA ⁶⁵ per operation	211_h 58_s TA ⁶⁵	Time Above	35_s TA ⁶⁵ per operation	183_h 8_m TA ⁶⁵
Count Above	2.23 N ⁶⁵ per operation	45,891 N ⁶⁵	Count Above	2.1 N ⁶⁵ per operation	39,308 N ⁶⁵



NOISE ABATEMENT

JAN 2021

Runway 17	99.1%
-----------	-------

Corridor	91.8%
----------	-------

Cross Day	14.8%
-----------	-------

Cross Night	35%
-------------	-----

FEB 2021

Runway 17	99.4%
-----------	-------

Corridor	93.7%
----------	-------

Cross Day	16.4%
-----------	-------

Cross Night	50%
-------------	-----

RUS

50.5%

Arrive – 58%

Depart – 43%

RUS

50.1%

Arrive – 70%

Depart – 30%

ITEM 2

PUBLIC COMMENT PERIOD



NOISE OVERSIGHT COMMITTEE
MARCH 17, 2021

ITEM 2

PUBLIC COMMENT PERIOD

Speaking at a Meeting

- Each speaker will have one opportunity to speak and is allotted three (3) minutes.
- When called upon to speak, speak clearly, state your name and address. If you are affiliated with any organization, please state your affiliation.
- Commenters shall address their comments to the NOC and not to the audience.
- Use of profanity, personal attacks, or threats of violence will not be tolerated.



NOISE OVERSIGHT COMMITTEE
MARCH 17, 2021

4.1 – 2020 ANNUAL NOISE CONTOUR REPORT AND RESIDENTIAL NOISE MITIGATION PROGRAM ELIGIBILITY



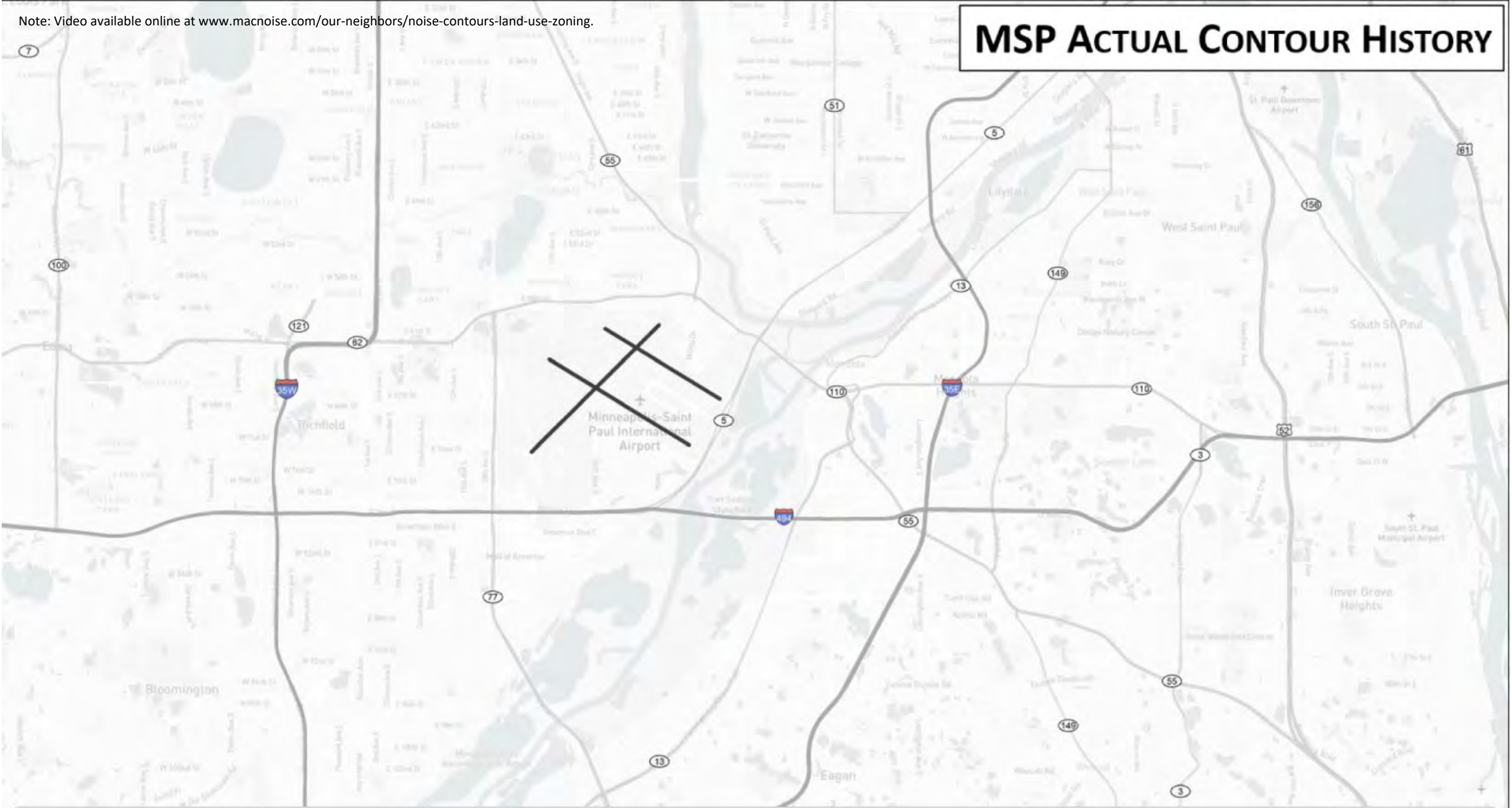
NOISE OVERSIGHT COMMITTEE
MARCH 17, 2021

MSP 2020 Annual Contour Report Overview

- The amended Consent Decree requires the MAC to prepare an annual noise contour analysis for MSP by March 1 of each year.
- The 2020 MSP Annual Noise Contour Report was developed in partnership with HNTB using the Aviation Environmental Design Tool (AEDT).
- On February 26, 2021, the MAC published the 14th Annual Noise Contour Report consistent with the requirements in the Consent Decree.

Note: Video available online at www.macnoise.com/our-neighbors/noise-contours-land-use-zoning.

MSP ACTUAL CONTOUR HISTORY



2020 Actual Contour vs. 2007 Forecast Contour

Total Operations

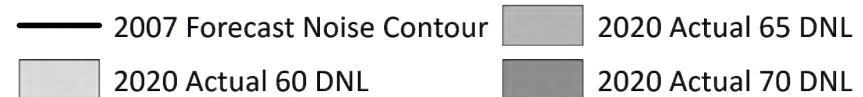
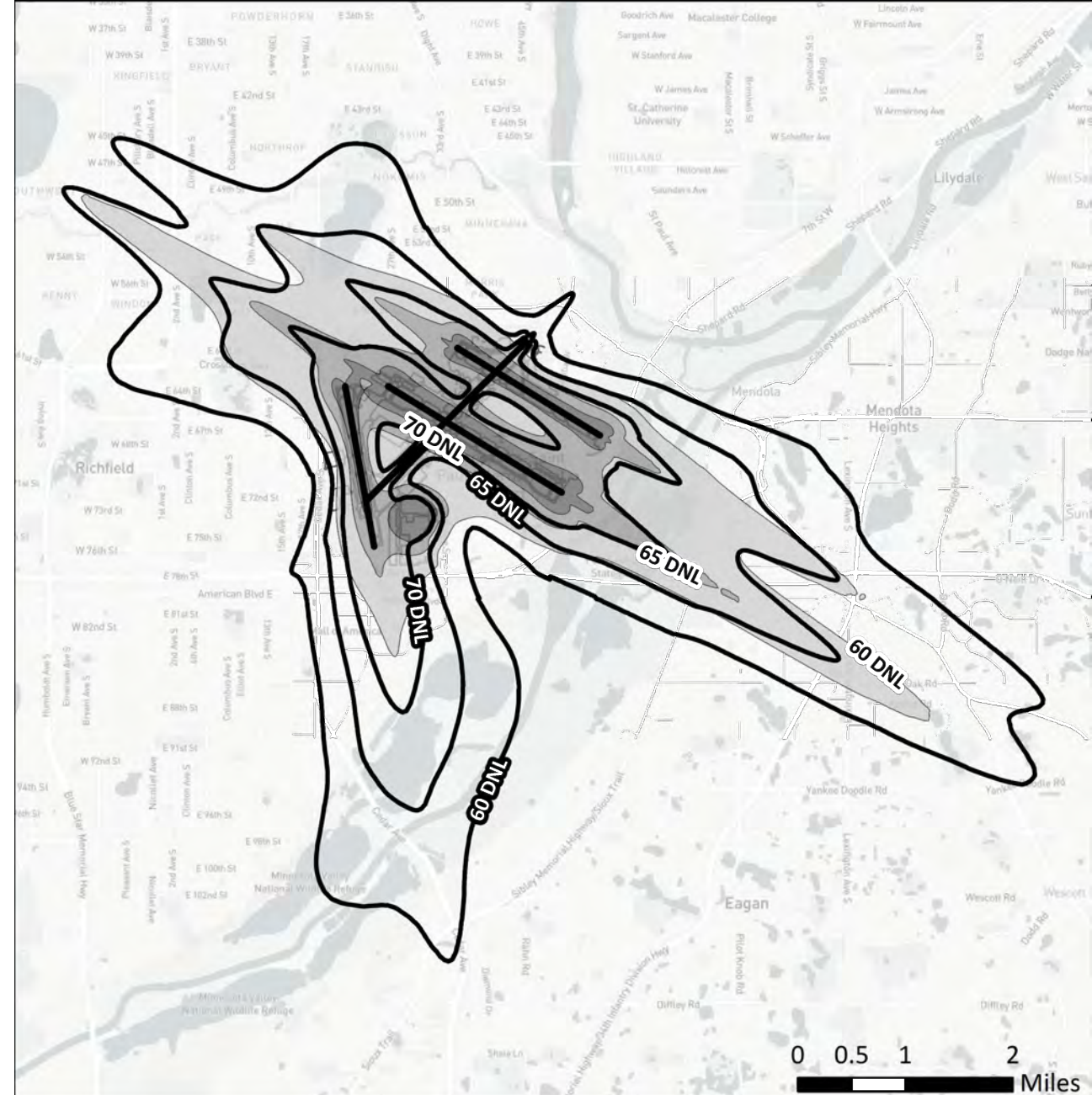
- 2007 – 582,366 Annual Forecast Ops
- 2020 – 244,877 Annual Actual Ops

Nighttime Operations

- 2007 – 123.3 Average Daily Ops
- 2020 – 58.7 Average Daily Ops

Hushkit Operations

- 2007 – 275.0 Average Daily Ops
- 2020 – 0.1 Average Daily Ops



2020 Actual Contour vs. 2019 Actual Contour

Total Operations

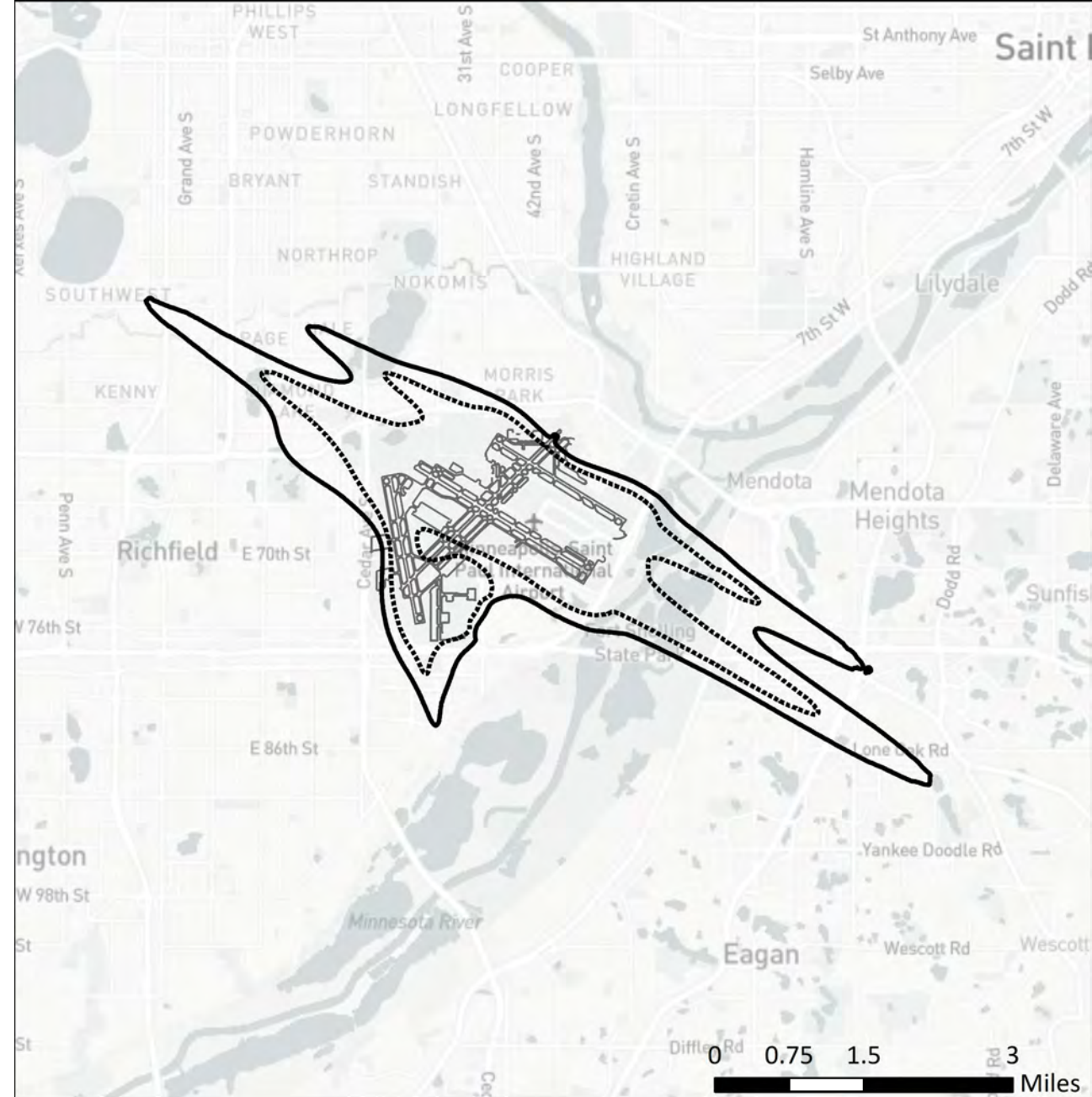
- 2019 – 406,073 Annual Ops
- 2020 – 244,877 Annual Ops

Nighttime Operations

- 2019 – 119.8 Average Daily Ops
- 2020 – 58.7 Average Daily Ops

Hushkit Operations

- 2019 – 0.2 Average Daily Ops
- 2020 – 0.1 Average Daily Ops



- 2020 Actual 60 DNL
- 2020 Actual 63 DNL

2020 Actual Contour vs. 2019 Actual Contour



65 dB DNL

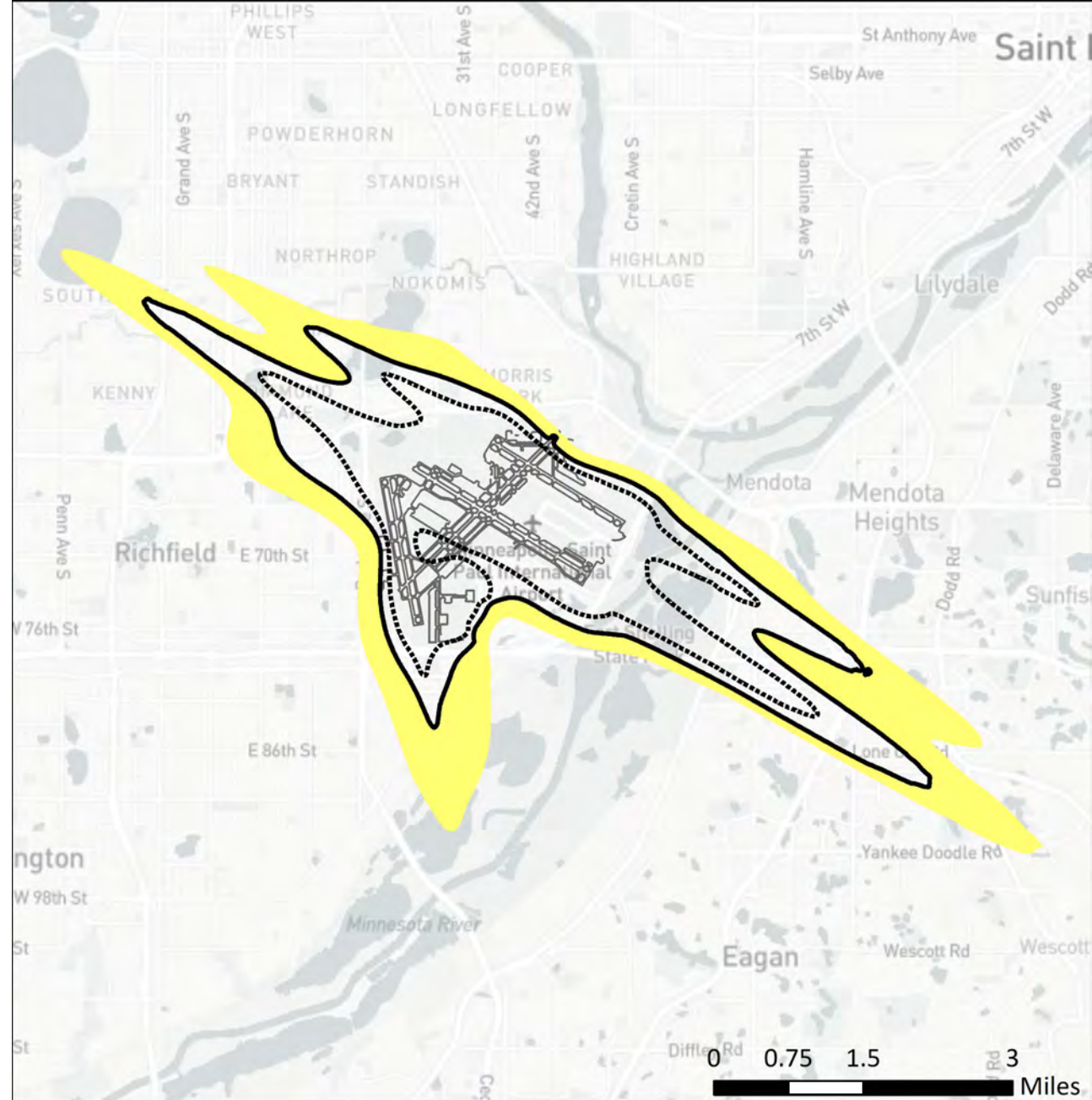
2,487 acres

43% reduction
from 2019

60 dB DNL

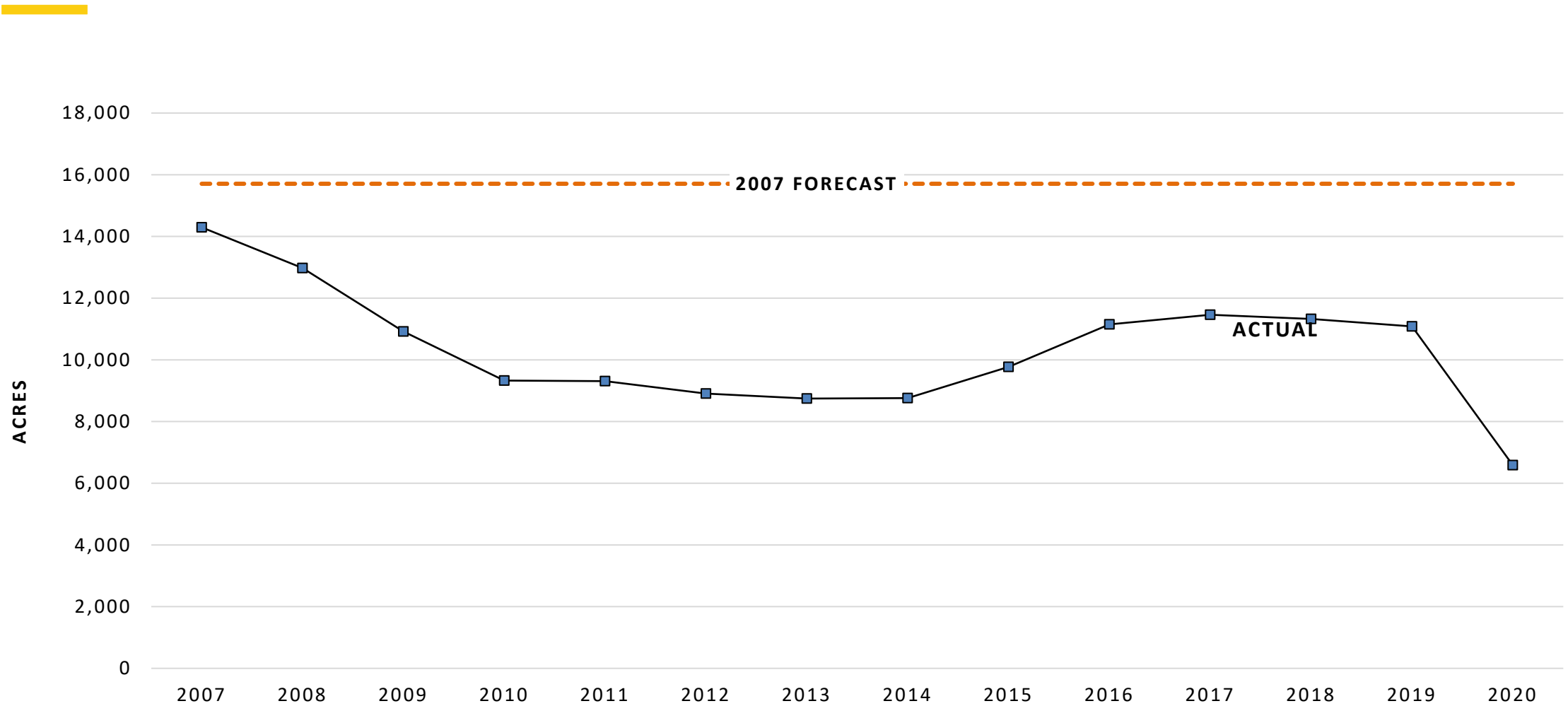
6,587 acres

41% reduction
from 2019



- 2020 Actual 60 DNL
- 2020 Actual 63 DNL

MSP 60 dB DNL Contour Area

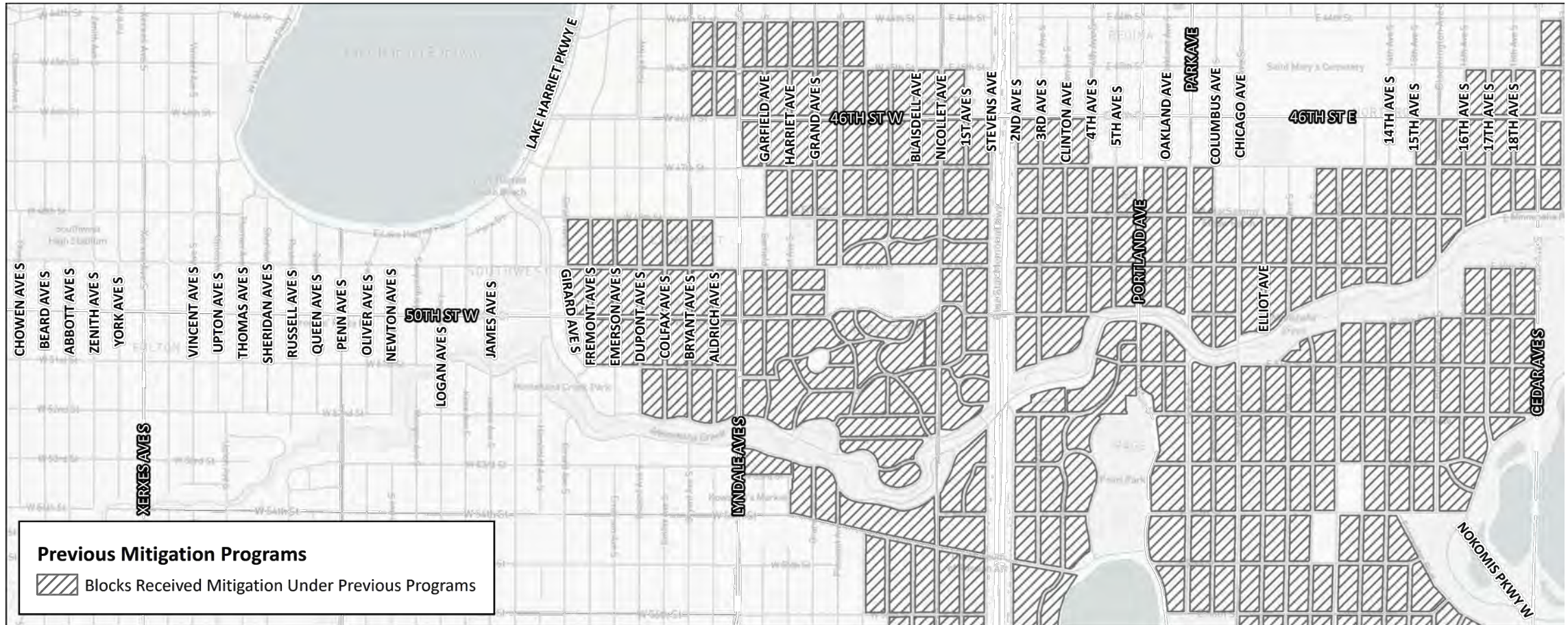


Mitigation Eligibility

- ✈️ The community has adopted local land use controls and building performance standards to ensure the practices are consistent with the noise mitigation provided by the MAC
- ✈️ The home is located for 3 consecutive years in the actual 60 dB DNL noise contour and within a higher mitigation area when compared to the original program

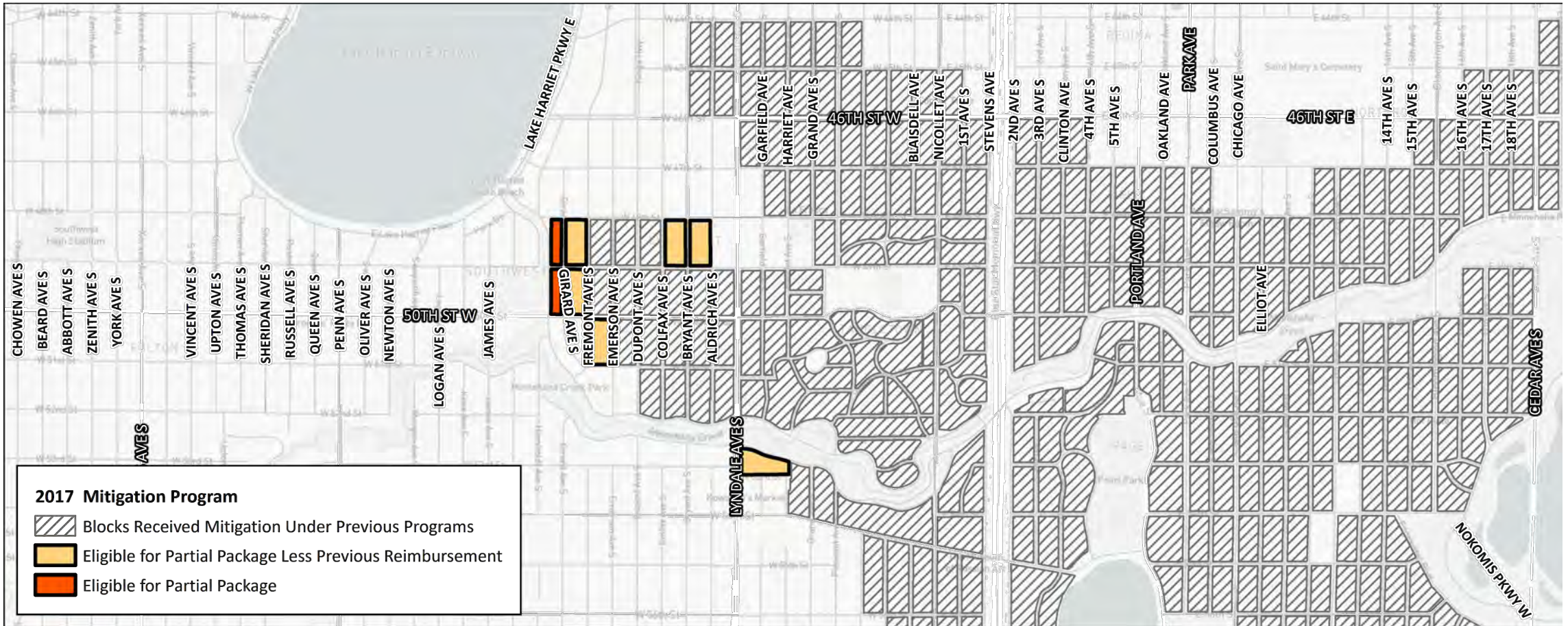


Blocks Mitigated Under Previous Programs



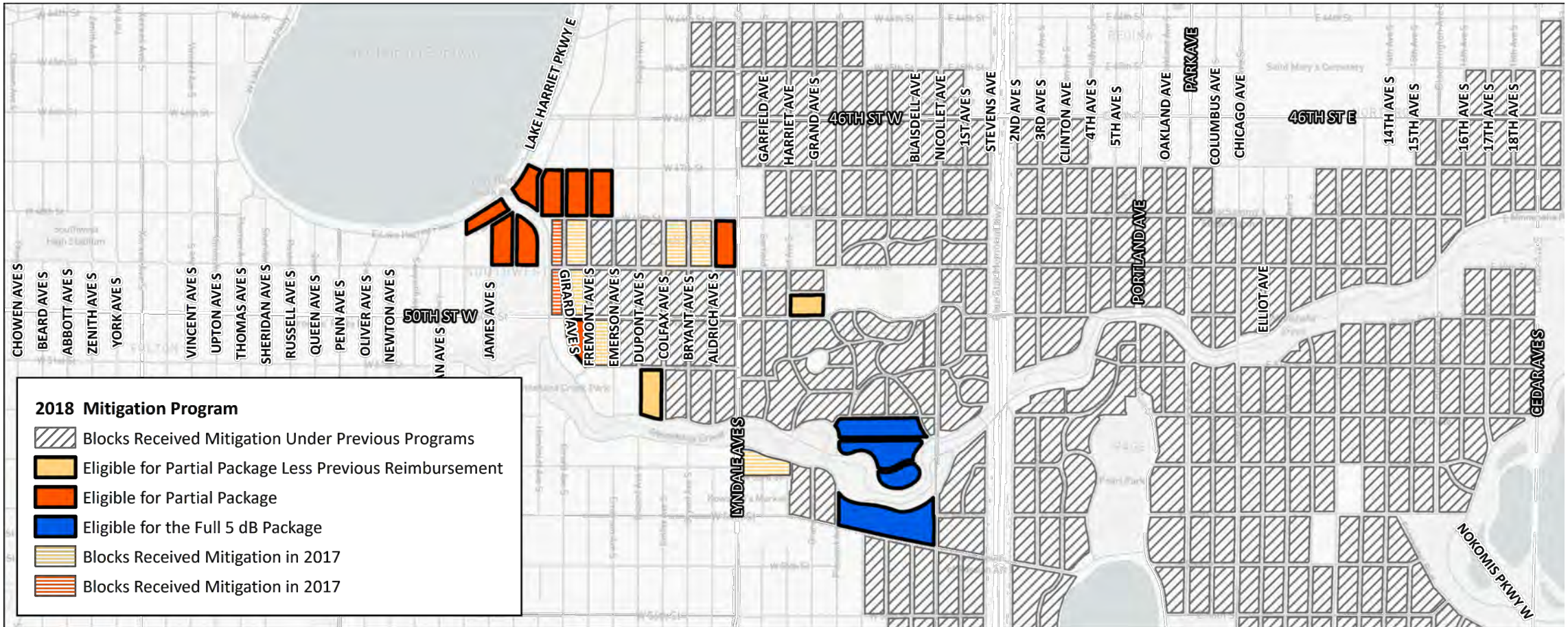
2017 Program

2013, 2014, 2015 Contour



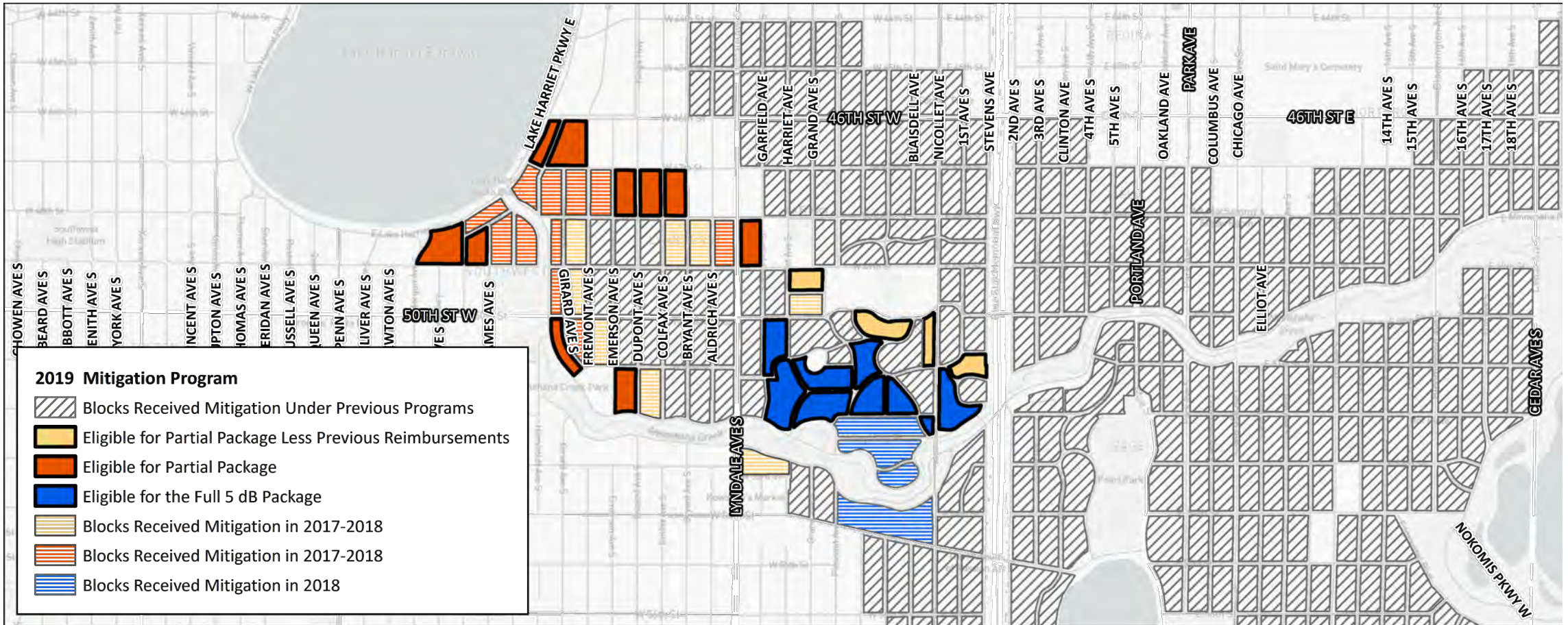
2018 Program

2014, 2015, 2016 Contour



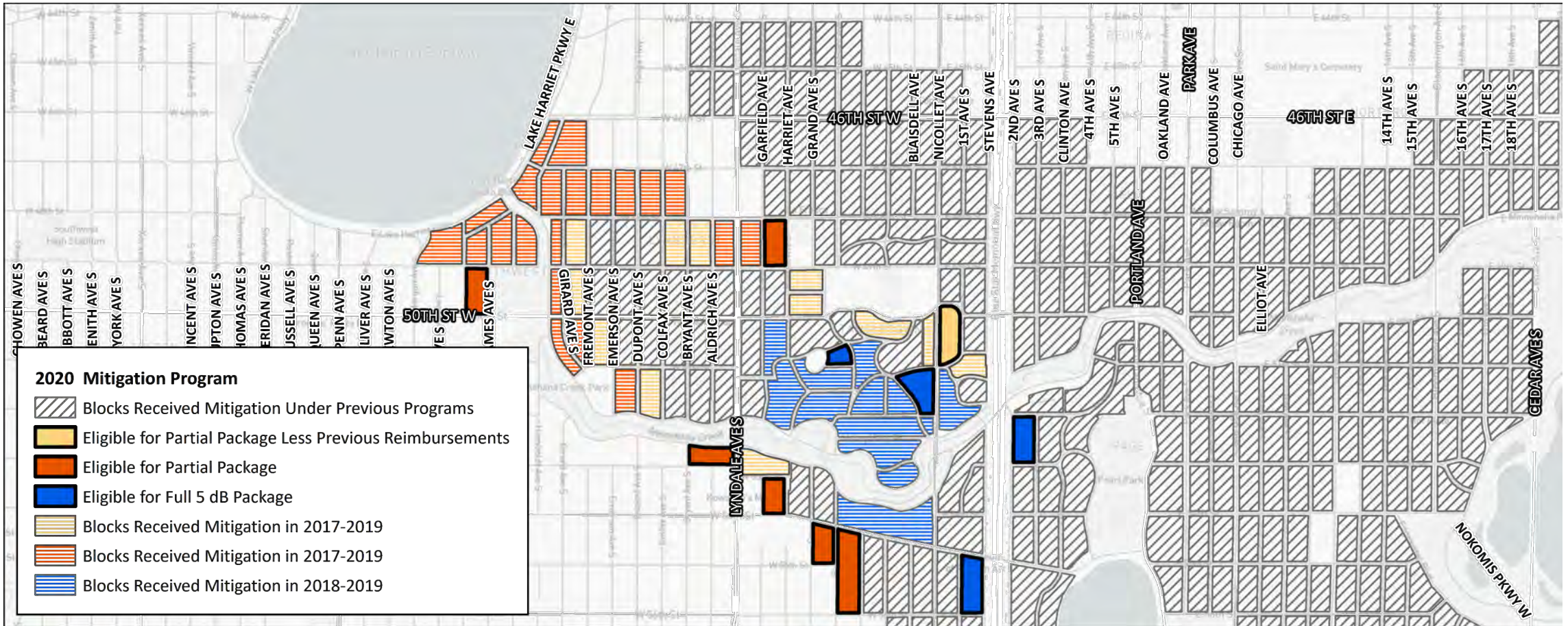
2019 Program

2015, 2016, 2017 Contour



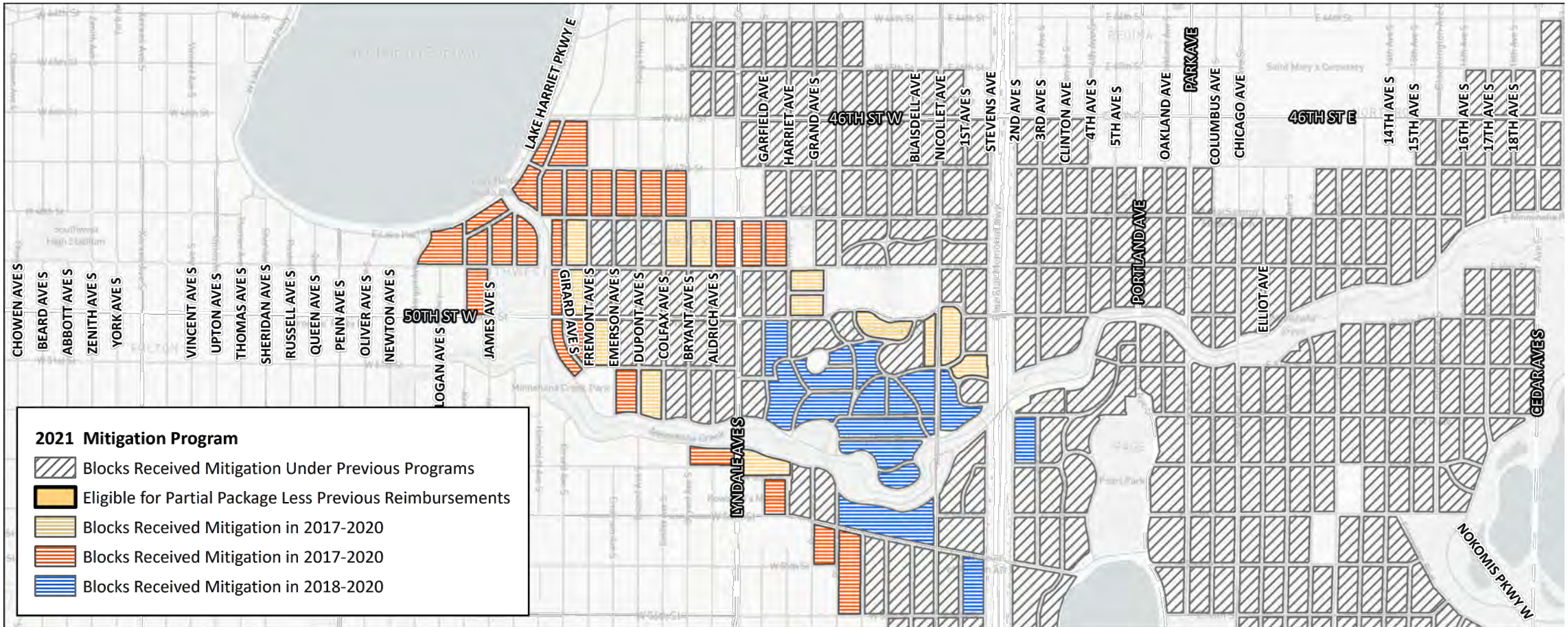
2020 Program

2016, 2017, 2018 Contour

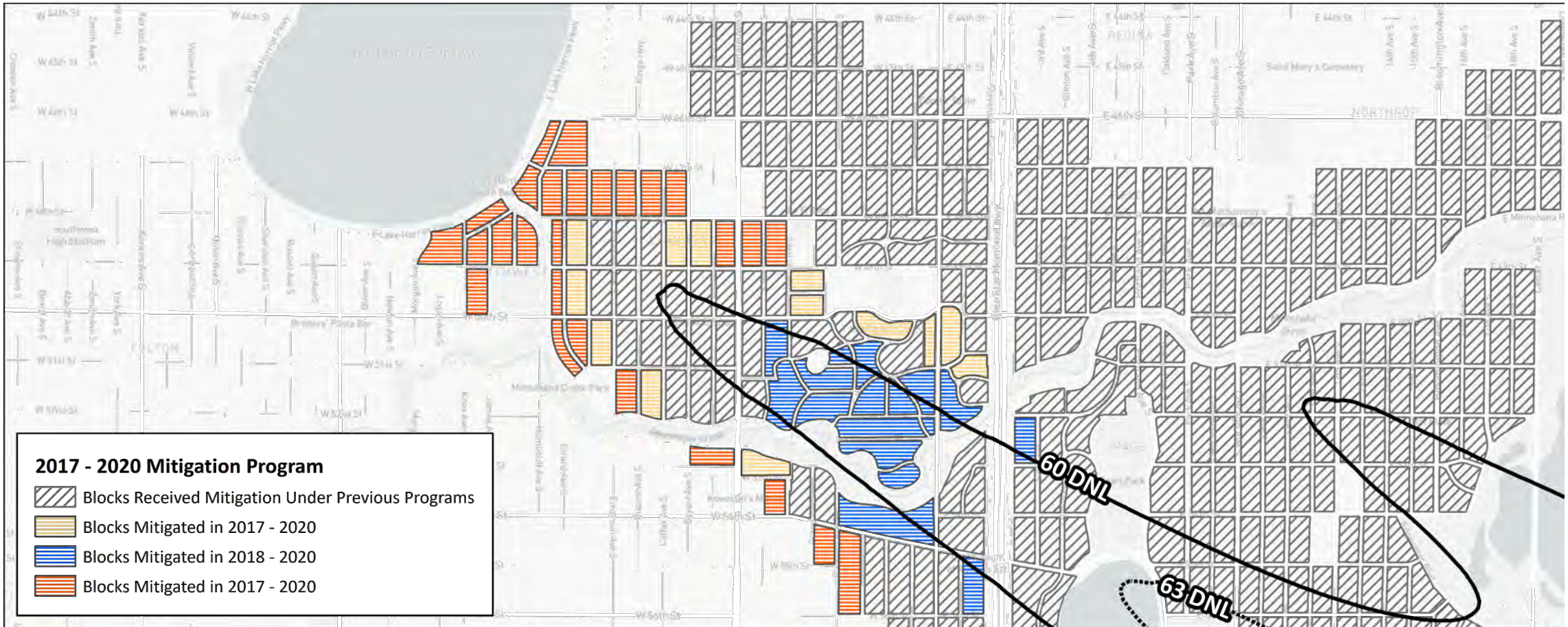


2021 Program

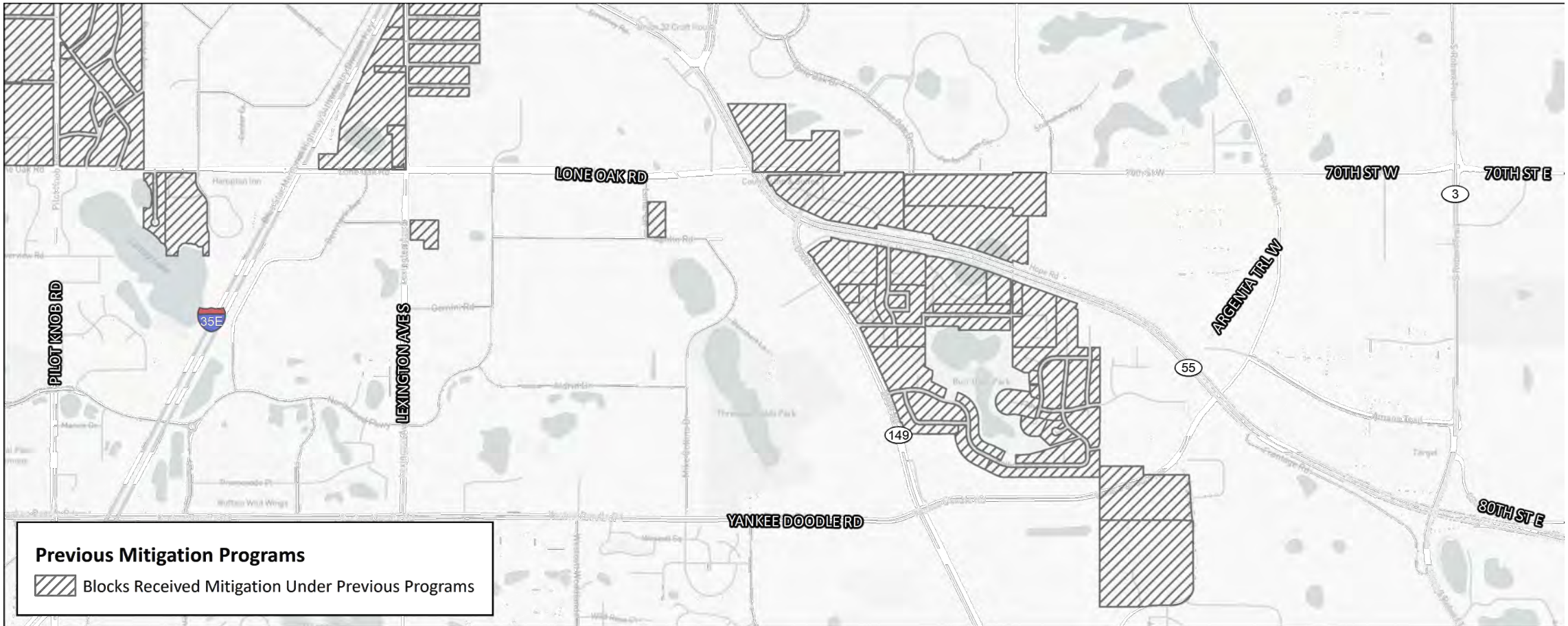
2017, 2018, 2019 Contour



2020 MSP Actual Noise Contour

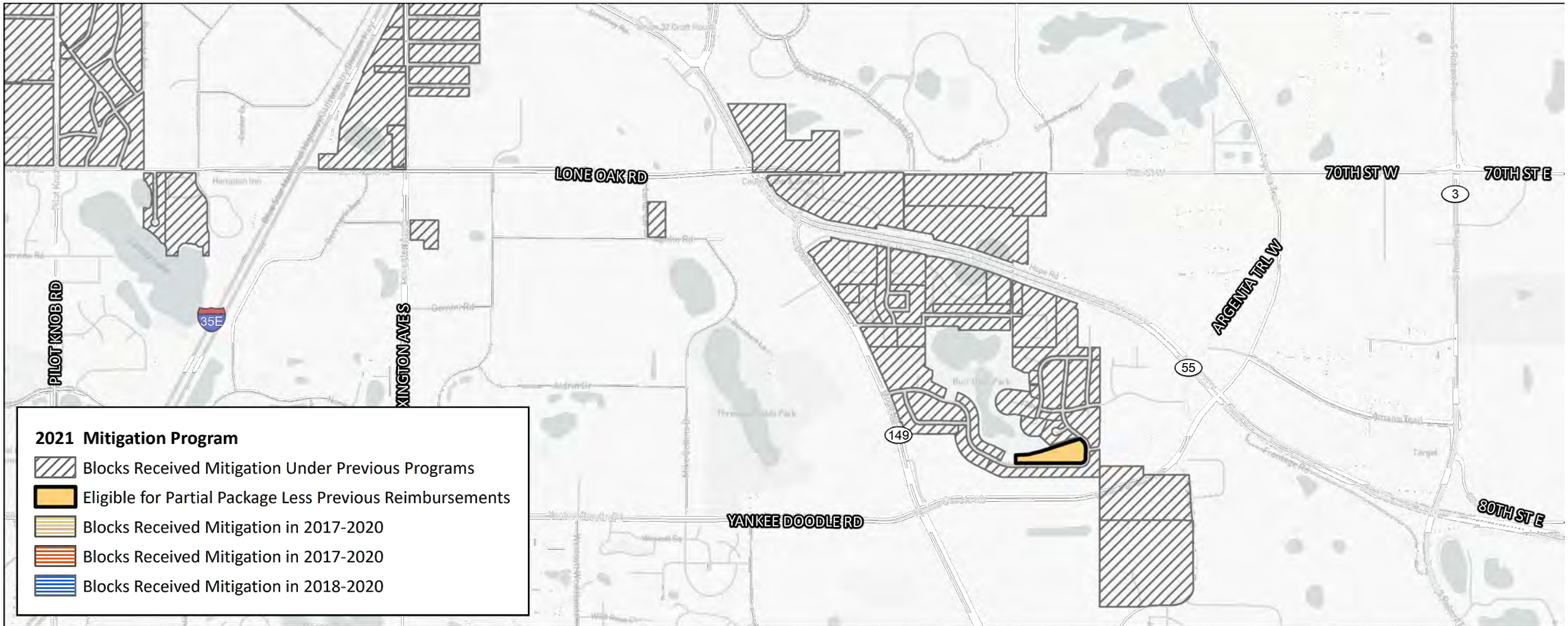


Blocks Mitigated Under Previous Programs

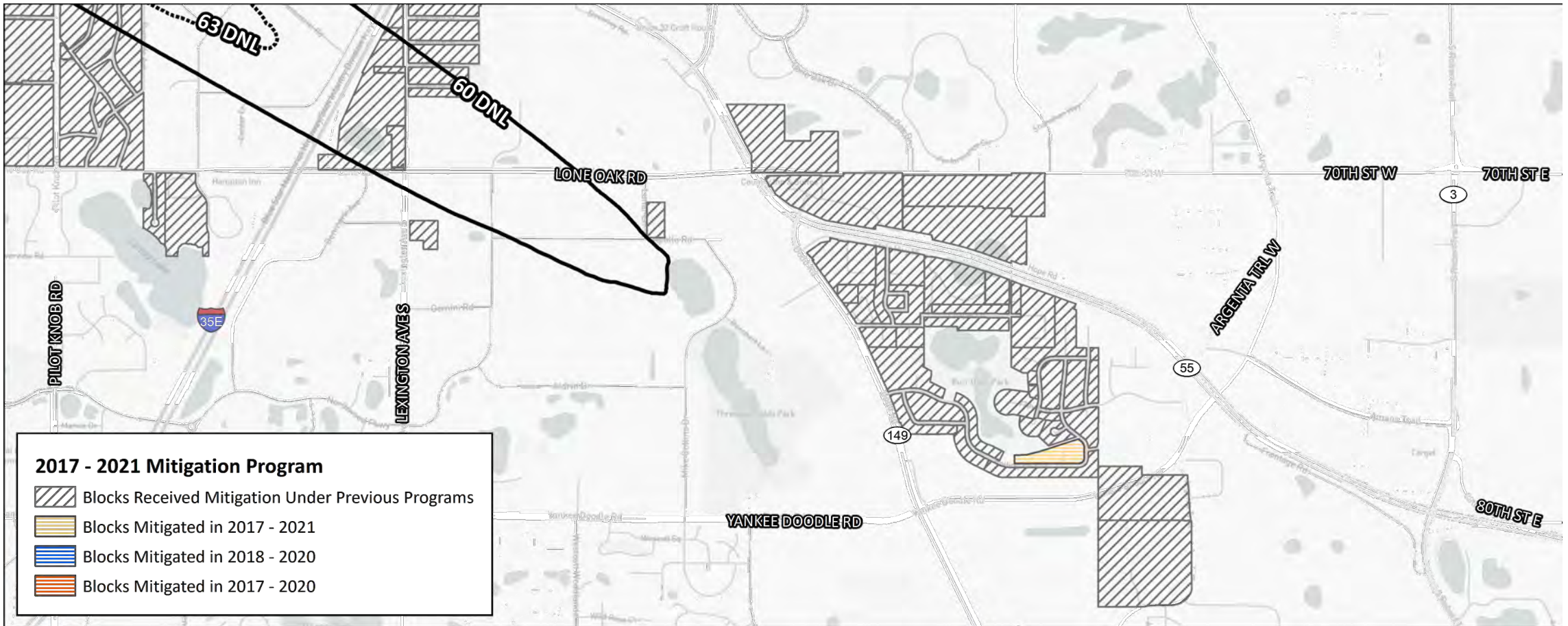


2021 Program

2017, 2018, 2019 Contour



2020 MSP Actual Noise Contour



MSP Mitigation History

RESIDENTIAL NOISE MITIGATION PROGRAM

- 1992 - 2006
- \$385.6 Million

ORIGINAL (2007) CONSENT DECREE

- 2007 - 2014
- \$95.1 Million

AMENDED CONSENT DECREE

- 2017 - 2024
- \$27.6 Million*

**Through January 19, 2021*



MSP 2020 Annual Noise Contour Report

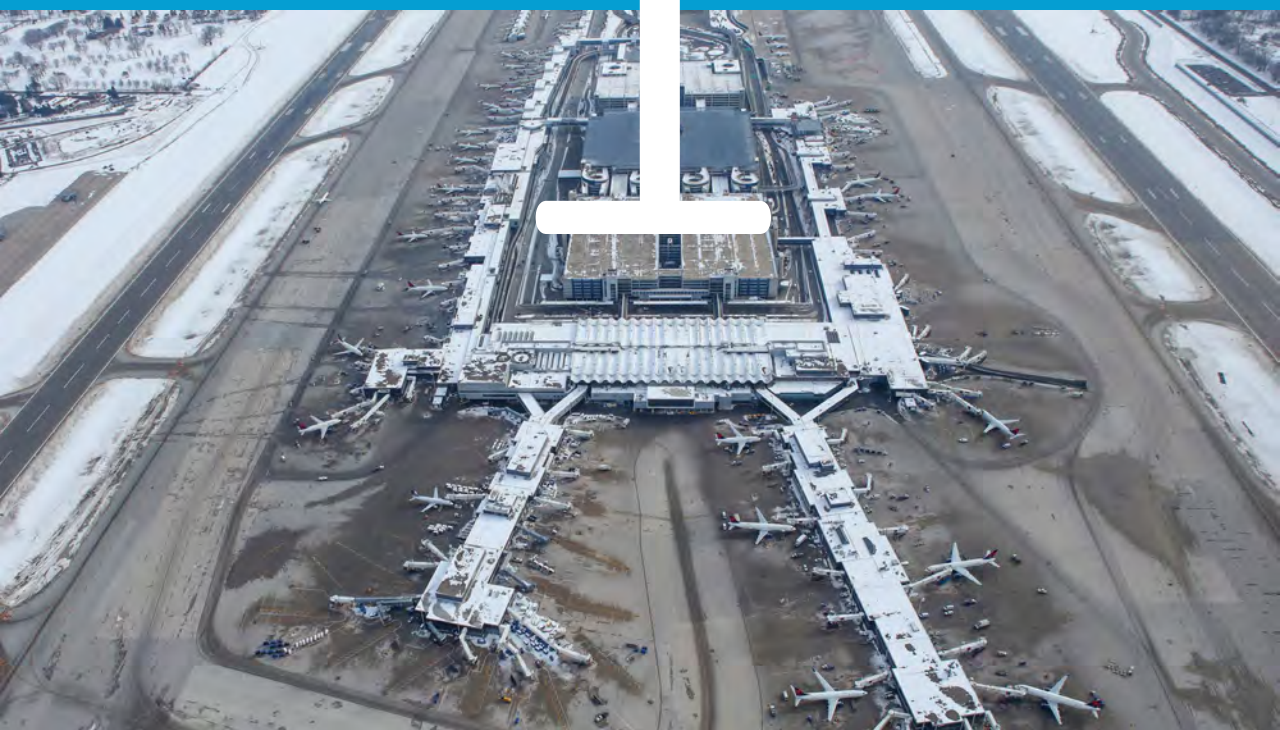
- The full report is available at:
https://www.macnoise.com/pdf/MSP-2020-Annual-Noise-Contour-Report_web.pdf
- Address Eligibility List (2017 – 2021) available at:
<https://www.macnoise.com/noise-mitigation-program/do-i-qualify>
- Mitigation Map available at:
<https://customers.macnoms.com/mitigation/>

4.2 – 2021 MSP AIRFIELD CONSTRUCTION SCHEDULE



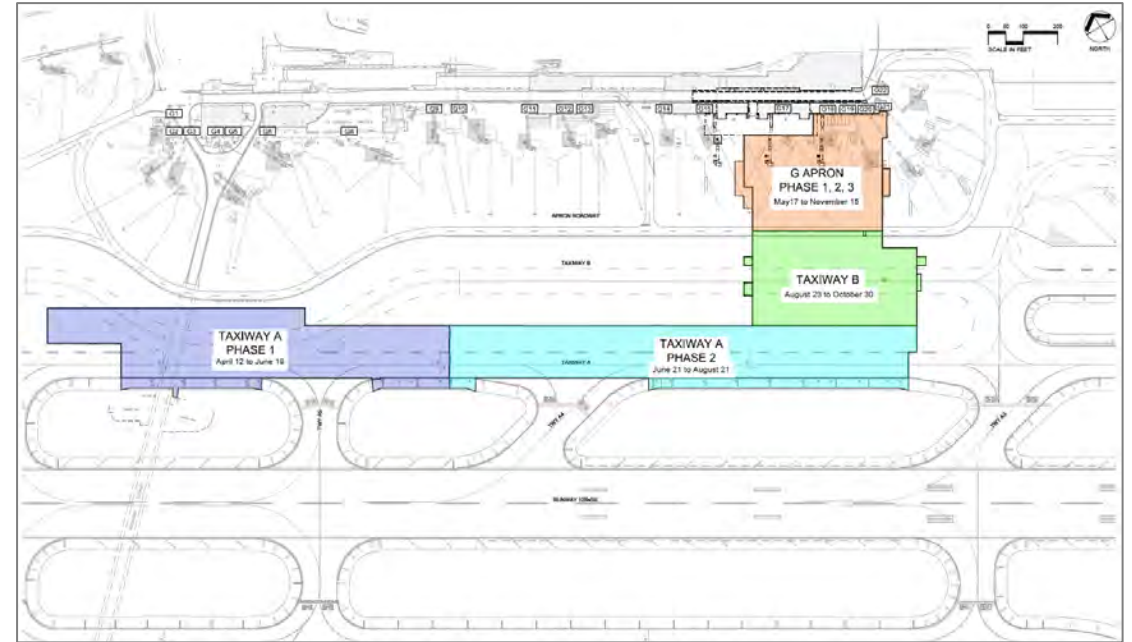
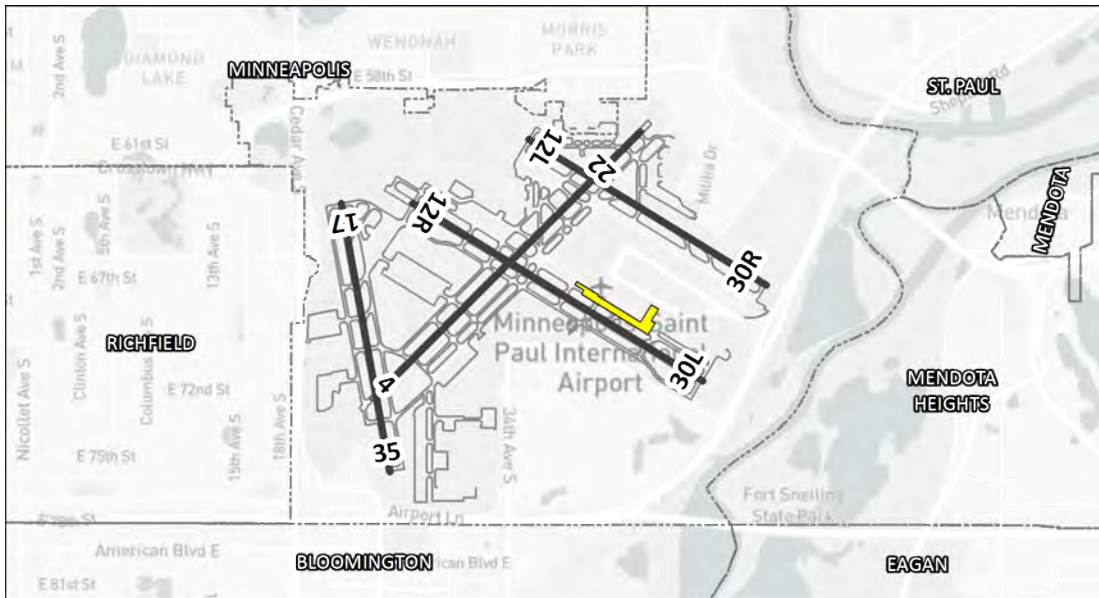
NOISE OVERSIGHT COMMITTEE
MARCH 17, 2021

1



Taxiway A, B, & G Apron Reconstruction

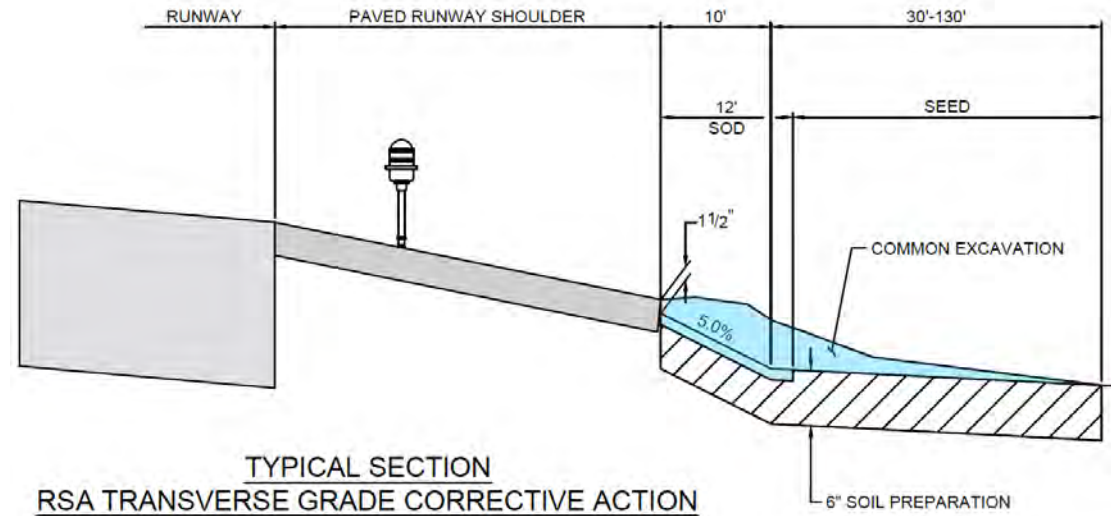
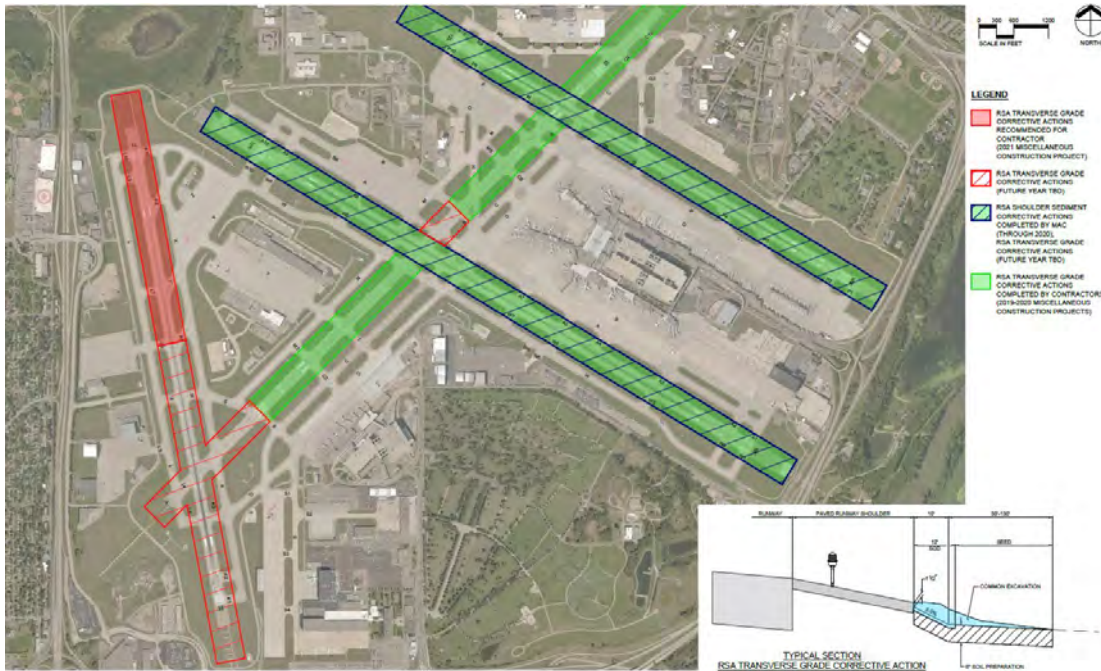
Project Location





Runway 17/35 Runway Safety Area Grading

Runway 17/35 Runway Safety Area Grading Project



Taxiway A-B-G Construction

March NOC Meeting

Presented to: Noise Oversight Committee

By: MSP Operations Manager

Date: March 2021



Federal Aviation
Administration

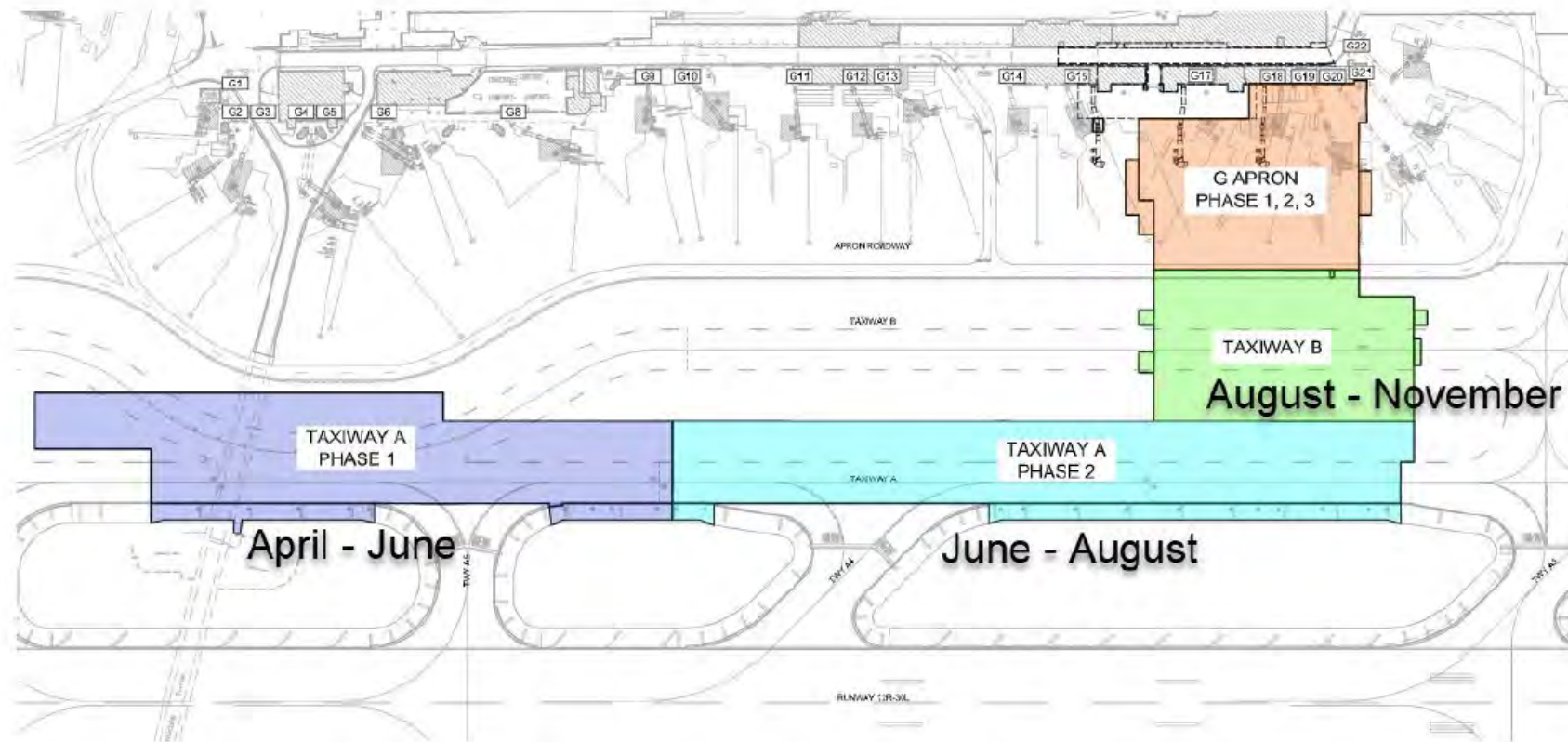


Overview

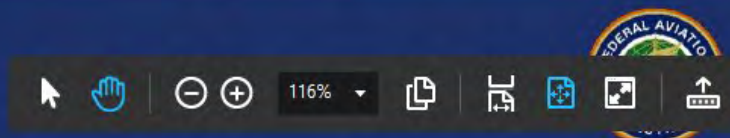
- **A portion of taxiway A, B, and the G concourse apron will be reconstructed.**
- **This project will be very impactful to the surface movement of traffic.**
- **Traffic volume has been trending up.**
- **The goal is to remain a good neighbor regardless of what's happening at the airport.**



Surface Impacts and Timing

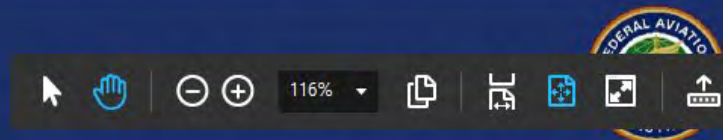


Surface Impacts



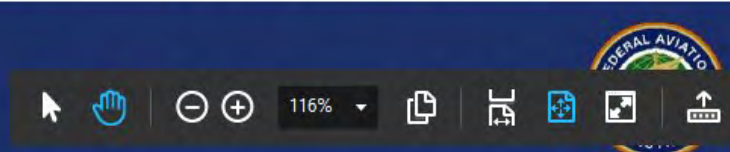
Federal Aviation Administration

Phase 1 Traffic Flows – 30



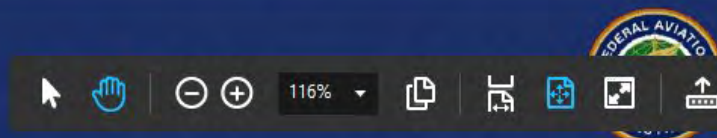
Federal Aviation
Administration

Phase 1 Traffic Flow – 30/17



Federal Aviation Administration

Surface Impacts



Federal Aviation
Administration

7

Phase 1 Traffic Flow – 12



Navigation and zoom controls for the Google Maps interface, including a hand icon, zoom in (+) and zoom out (-) buttons, a zoom level of 116%, and icons for street view, layers, and other map functions.



Federal Aviation Administration

Phase 1 Traffic Flow – 12/17



Navigation and utility icons including a cursor, a hand, zoom in (+) and zoom out (-) buttons, a 116% zoom level indicator, a print icon, a refresh icon, a search icon, and an upload icon.



Federal Aviation Administration

Noise Impacts

- **Aircraft that would have departed the north parallel, may have to now depart the south parallel. We expect minimal impact to noise.**
- **Runway 17 is anticipated to be used more often for departures to alleviate congestion and handle the increased volume through Phase 2 of construction.**
- **There may be some shuffling of arrivals to help with surface congestion but this should have a minimal impact to noise.**

Other Noteworthy Items

- **Travel is up and volume is increasing.**
- **Runway 17/35 will close at the completion of Taxiway A Phase 2 for Runway Safety Area Repairs.**
- **During Low visibility operations, all departures may depart one runway due to ILS Critical Areas.**



Summary

- **We will still be following the Runway Use System when selecting runways.**
- **We still intend to be good neighbors and do our part to minimize noise impacts.**
- **Runway 17 use is expected to increase.**
- **Runway 17/35 will close for Runway Safety Area repairs in August.**



4.3 – MINNETONKA MOBILE MONITORING REPORT PLAN



NOISE OVERSIGHT COMMITTEE
MARCH 17, 2021

Minnetonka Mobile Monitoring Study

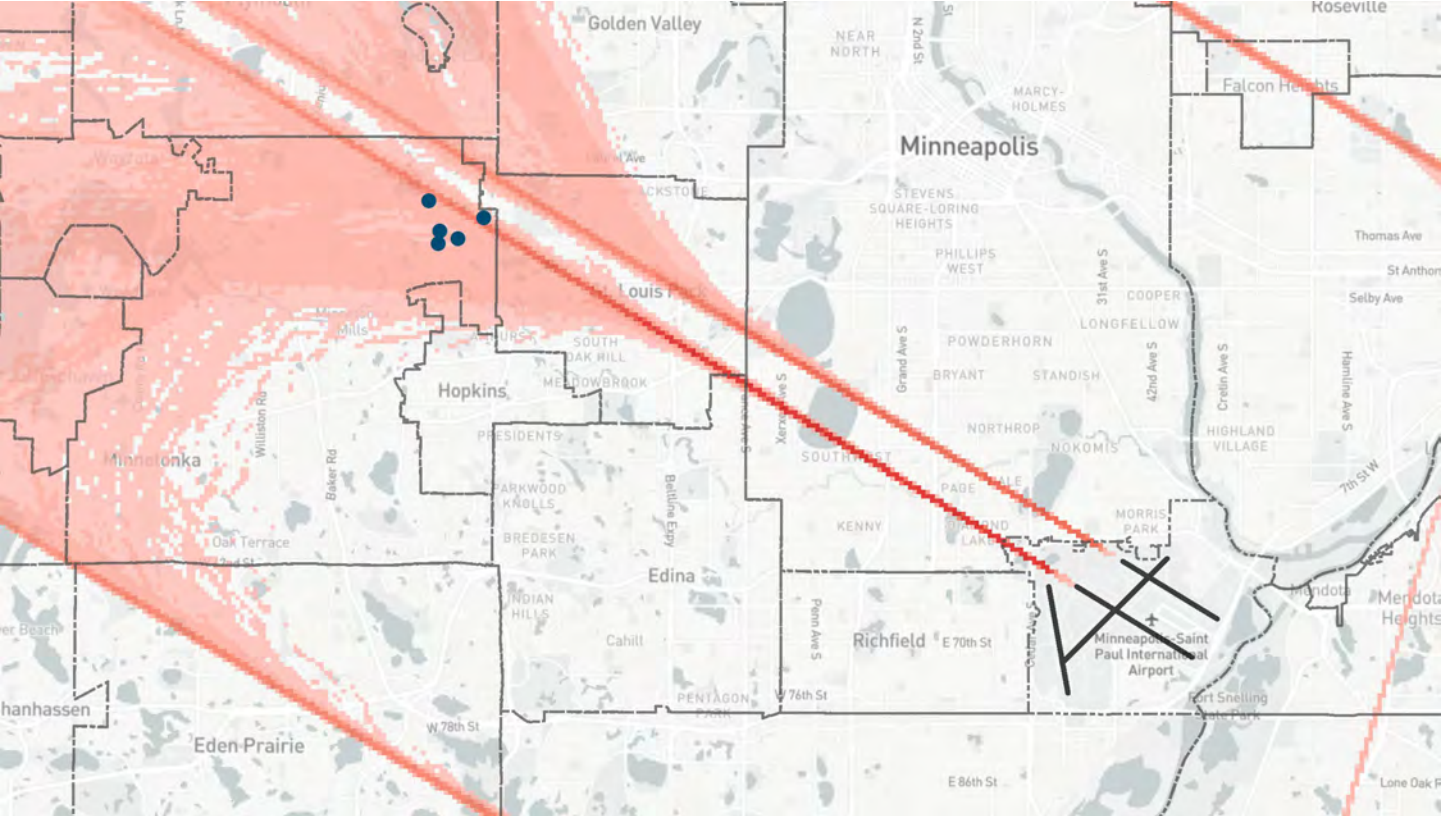
- Purpose

- Collect aircraft sound measurements related to flight activity over the northeastern portion of the City of Minnetonka, specifically flights associated with the Minneapolis-St. Paul International Airport (MSP), in accordance with established Mobile Sound Monitoring Guidelines

- Plan

- Monitoring is proposed to occur in May 2021, with data collection for one week (seven consecutive days). The data will be presented in a report at the July 21, 2021 Noise Oversight Committee (NOC) meeting

Proposed Location



Minnetonka Mobile Monitoring Study

- Study Will Provide

- Analysis of sound data collected from mobile equipment and any relevant permanent sound monitoring sites in nearest vicinity to the City of Minnetonka.
- Analysis of aircraft and community sound levels in the vicinity of the mobile monitoring equipment using the collected data.
- Analysis of modeled versus monitored sound data.

- Study will not Provide

- Residential sound mitigation eligibility.
- Changes to annual day-night-level (DNL) aircraft noise contours

4.4 – REVIEW OF WINTER LISTENING SESSION




NOISE OVERSIGHT COMMITTEE
MARCH 17, 2021

Winter Listening Session

- January 27, 2021, 6pm
- Virtual Session via Teams
- Meeting Attendees
 - One resident from Mendota Heights
 - One resident from Minneapolis
 - Two residents from other locations
 - Sean Fortier, FAA
 - Dominika Drozdal, FAA
 - NOC representatives Jeff Hart, Linea Palmisano, Loren Olson, and Paul Borgstrom
 - MAC Commissioner Yodit Bizen
 - Five MAC staff



Winter Listening Session – Topics Discussed

- 
- Arrival path of aircraft arriving to Runways 30L and 30R.
 - Military operations and clarification of the FlightTracker tool.
 - Request for complaints by City by airport flow

ITEM 5

ANNOUNCEMENTS

Spring Listening Session

Wednesday, April 28, 2021 @ 6 PM

Microsoft Teams Meeting

May NOC Meeting

Wednesday, May 19, 2021 @ 1:30 PM

Microsoft Teams Meeting



NOISE OVERSIGHT COMMITTEE
MARCH 17, 2021

New MSP Routes Launched in 2021

