



NOISE OVERSIGHT COMMITTEE

November 20, 2019

Audio recordings are made of this meeting

ITEM 1

REVIEW AND APPROVAL OF SEPTEMBER 18TH MEETING MINUTES



NOISE OVERSIGHT COMMITTEE
NOVEMBER 20, 2019



ITEM 2

REVIEW OF MONTHLY OPERATIONS REPORTS

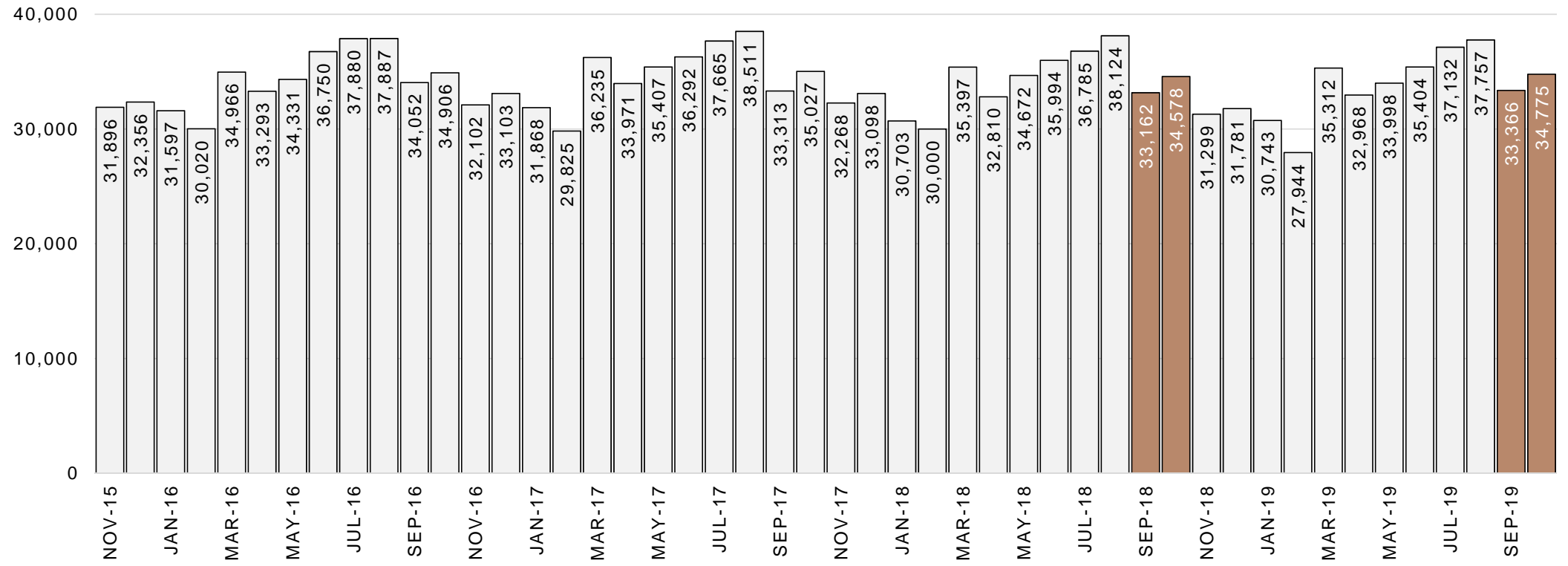


NOISE OVERSIGHT COMMITTEE
NOVEMBER 20, 2019



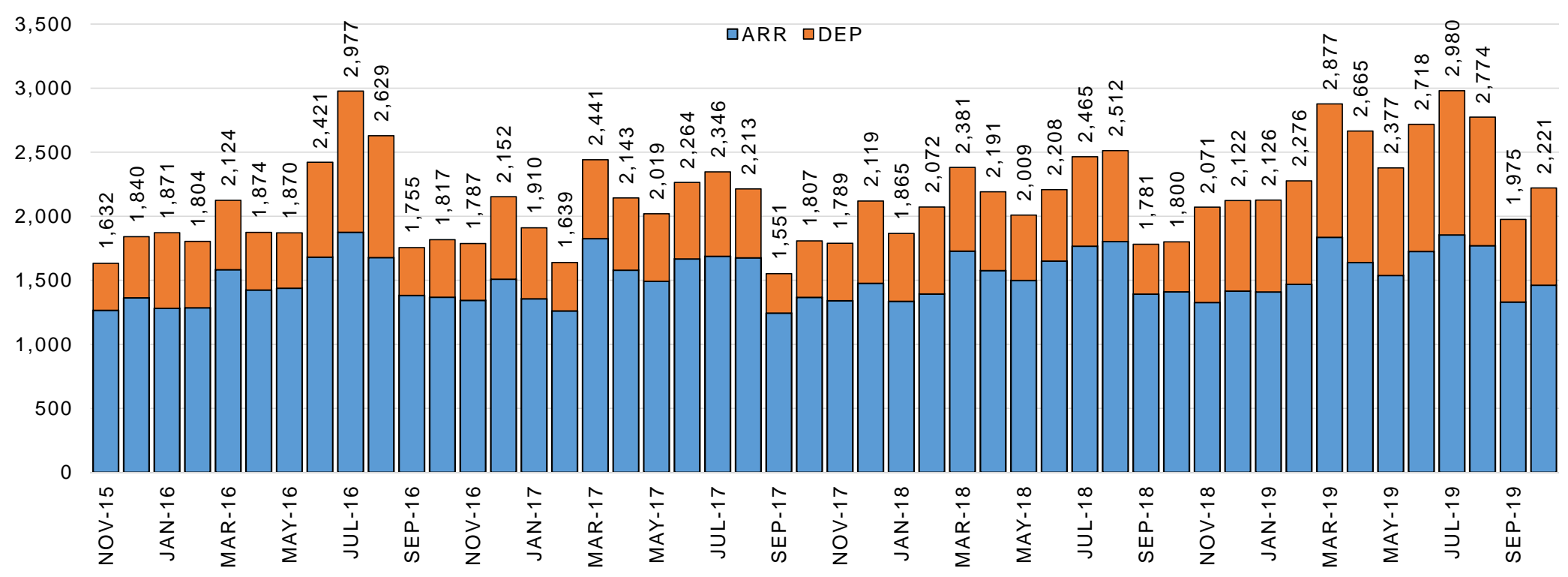
MSP OPERATIONS

SEPTEMBER 2019		OCTOBER 2019	
33,366	1,975	34,775	2,221
Operations	Nighttime Operations (10:30 PM – 6:00 AM)	Operations	Nighttime Operations (10:30 PM – 6:00 AM)



MSP OPERATIONS

SEPTEMBER 2019		OCTOBER 2019	
33,366	1,975	34,775	2,221
Operations	Nighttime Operations (10:30 PM – 6:00 AM)	Operations	Nighttime Operations (10:30 PM – 6:00 AM)



RUNWAY USE

SEPTEMBER 2019			OCTOBER 2019		
NORTH FLOWS	SOUTH FLOWS	MIXED FLOWS	NORTH FLOWS	SOUTH FLOWS	MIXED FLOWS
24%	55%	15%	40%	37%	16%

2018 JAN – OCT			2019 JAN – OCT		
NORTH FLOWS	SOUTH FLOWS	MIXED FLOWS	NORTH FLOWS	SOUTH FLOWS	MIXED FLOWS
34.2%	46%	11.8%	34.9%	45%	13.7%

North Flow

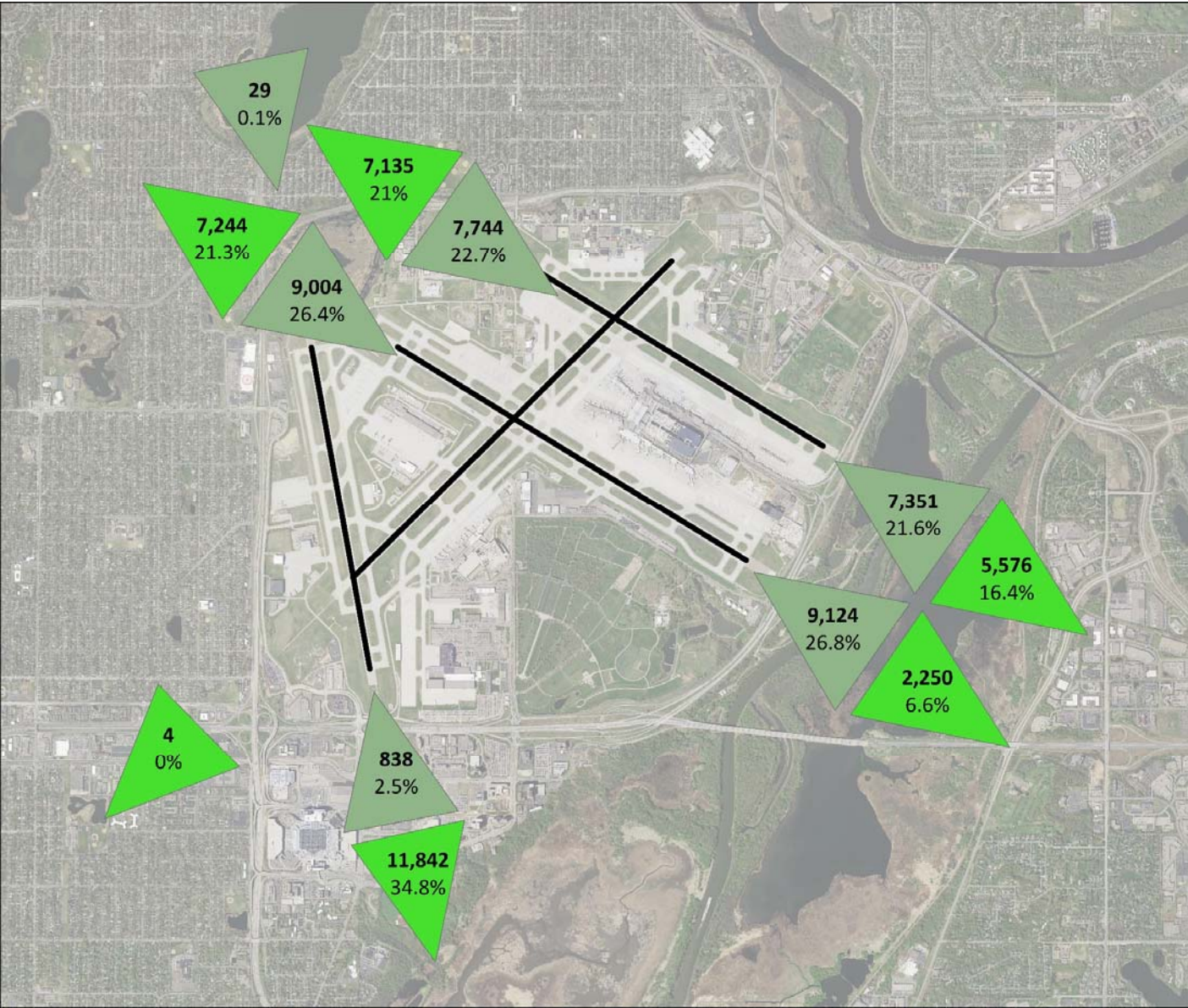


South Flow



Mixed Flow





SEP – OCT RUNWAY USE

68,141
OPERATIONS IN SEPT – OCT

PRIORITY 1	PRIORITY 2	PRIORITY 3	PRIORITY 4
36%	19%	0%	46%

34,090
ARRIVALS

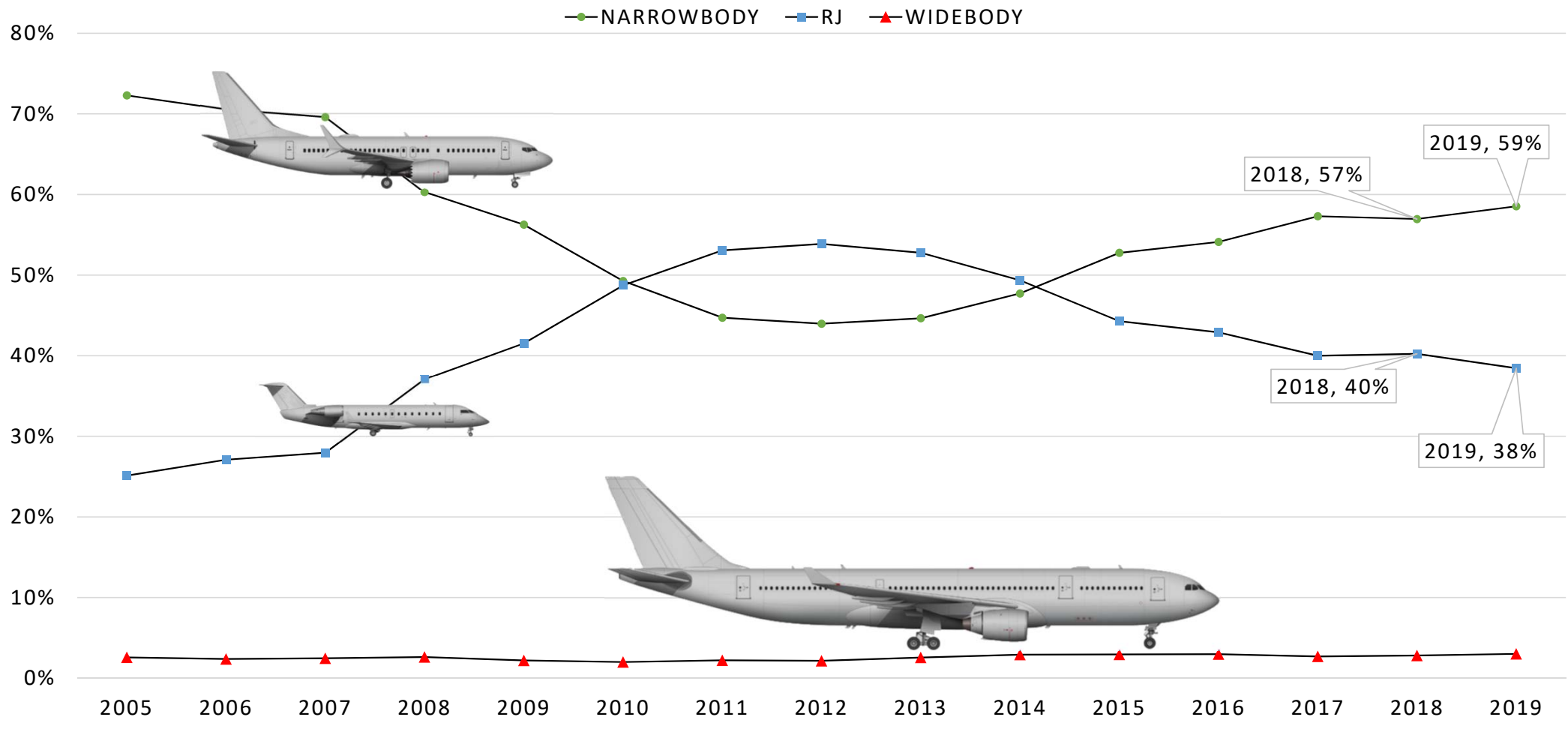
PRIORITY 1	PRIORITY 2	PRIORITY 3	PRIORITY 4
48%	3%	0%	49%

34,051
DEPARTURES

PRIORITY 1	PRIORITY 2	PRIORITY 3	PRIORITY 4
23%	35%	0%	42%

MSP OPERATIONS

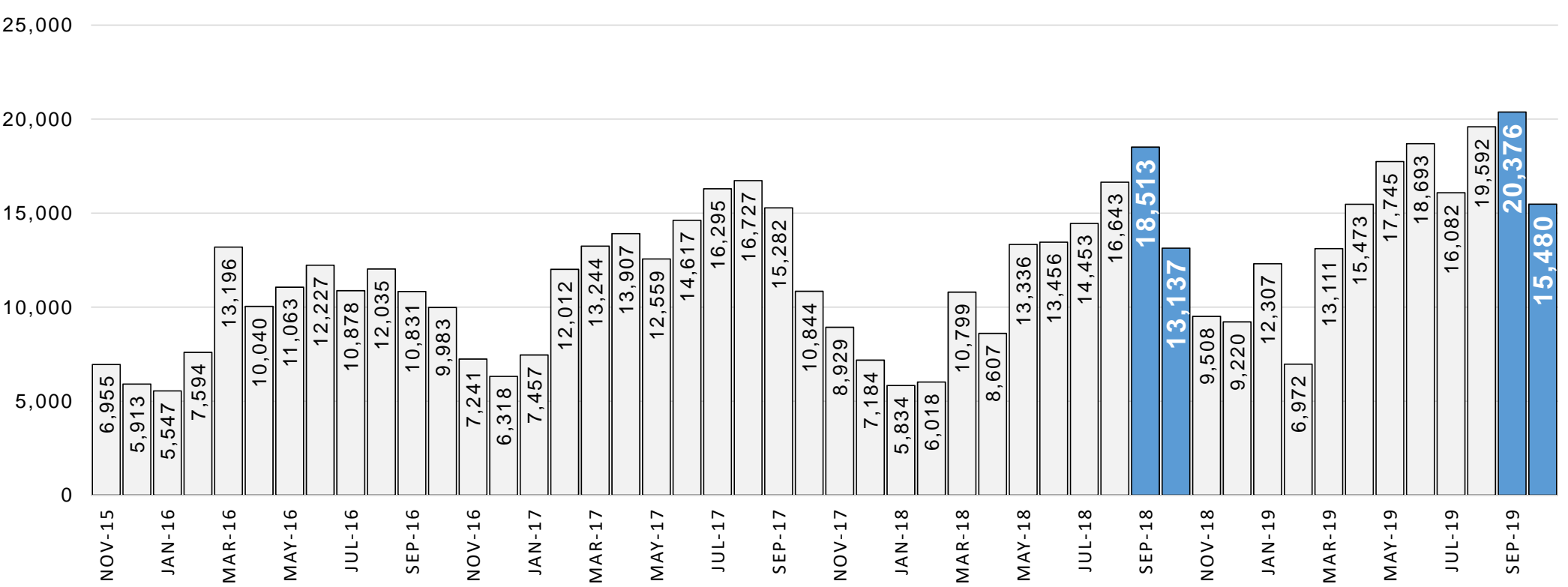
CARRIER JET FLEET MIX



2019: JAN - OCT ONLY

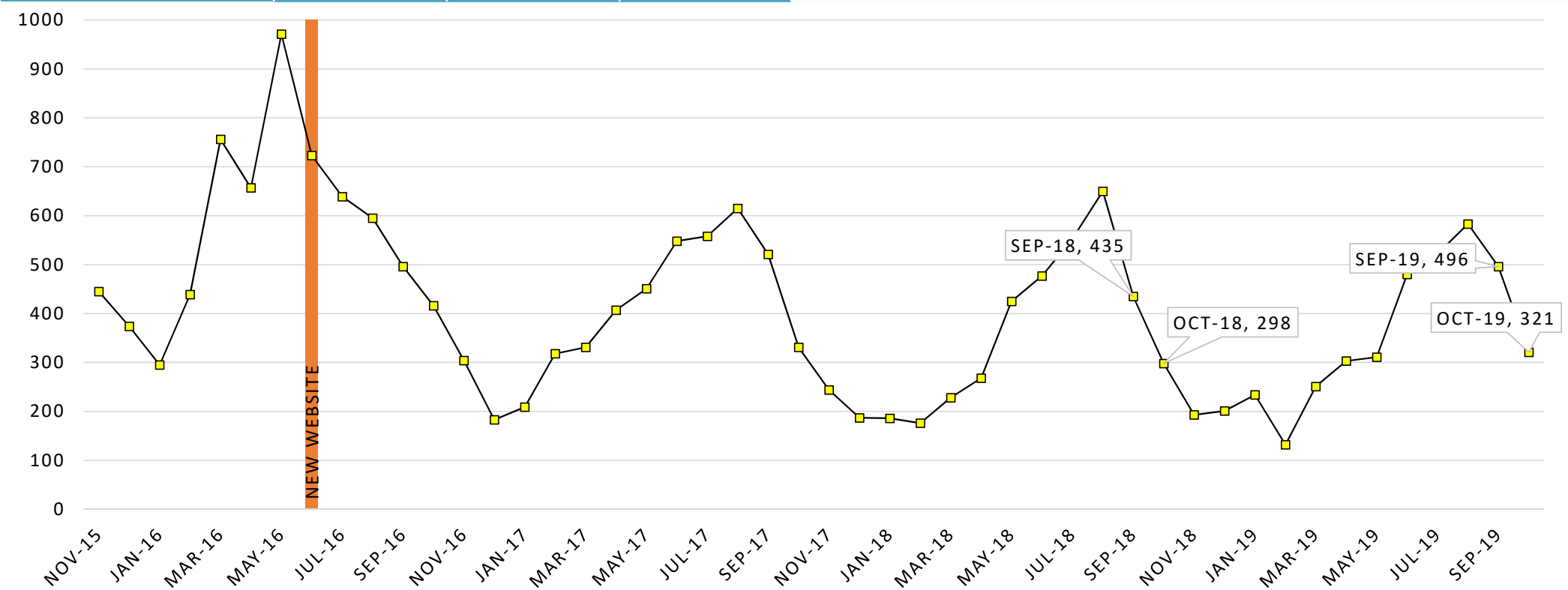
MSP COMPLAINTS

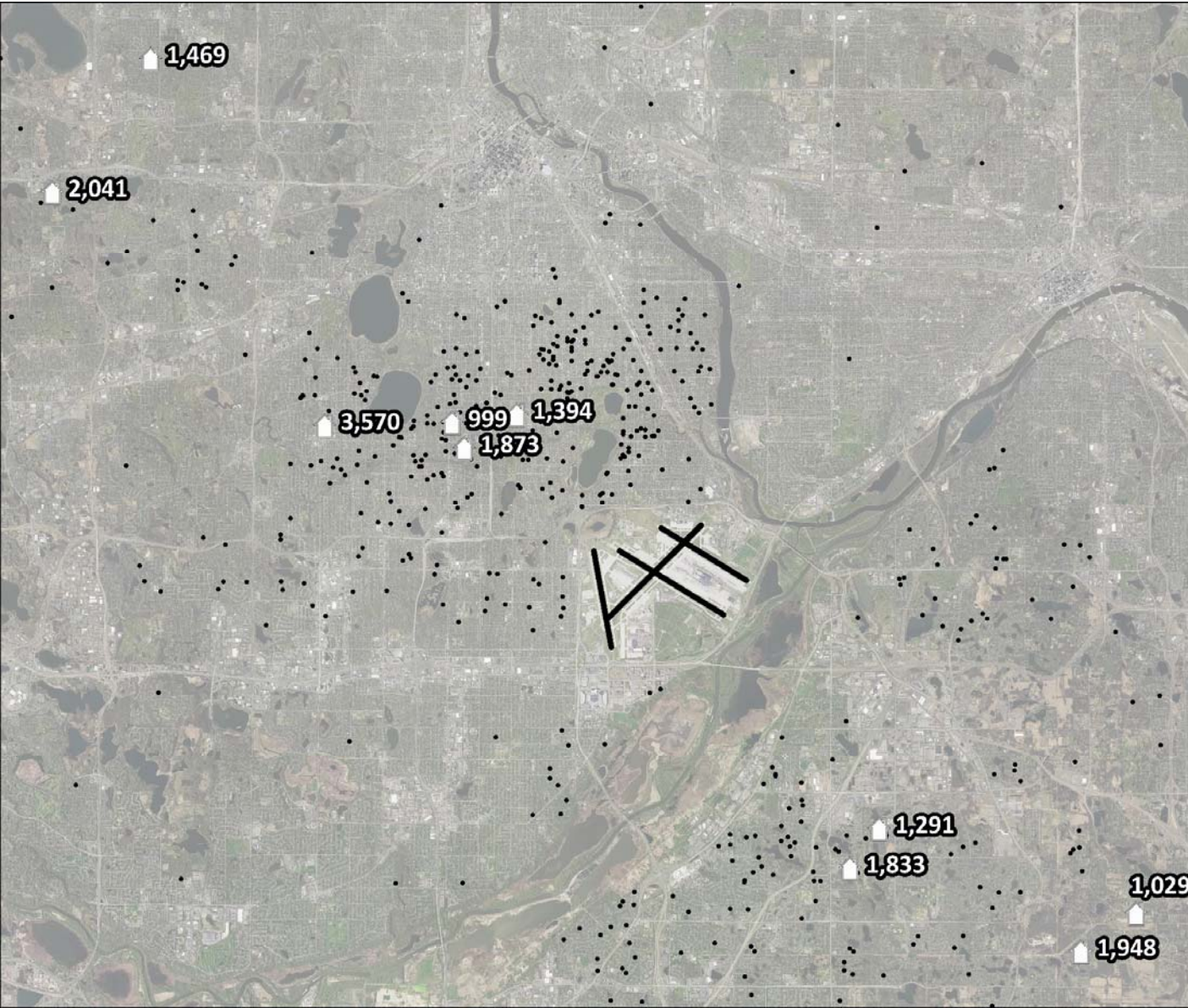
SEPTEMBER 2019				OCTOBER 2019			
COMPLAINTS	LOCATIONS			COMPLAINTS	LOCATIONS		
20,376	496			15,480	321		
Operations per Complaint	New Locations	Average	Median	Operations per Complaint	New Locations	Average	Median
1.6	83	41	3	2.2	23	48	4



MSP COMPLAINTS

SEPTEMBER 2019				OCTOBER 2019			
COMPLAINTS	LOCATIONS			COMPLAINTS	LOCATIONS		
20,376	496			15,480	321		
Operations per Complaint	New Locations	Average	Median	Operations per Complaint	New Locations	Average	Median
1.6	83	41	3	2.2	23	48	4





TOP 10 LOCATIONS

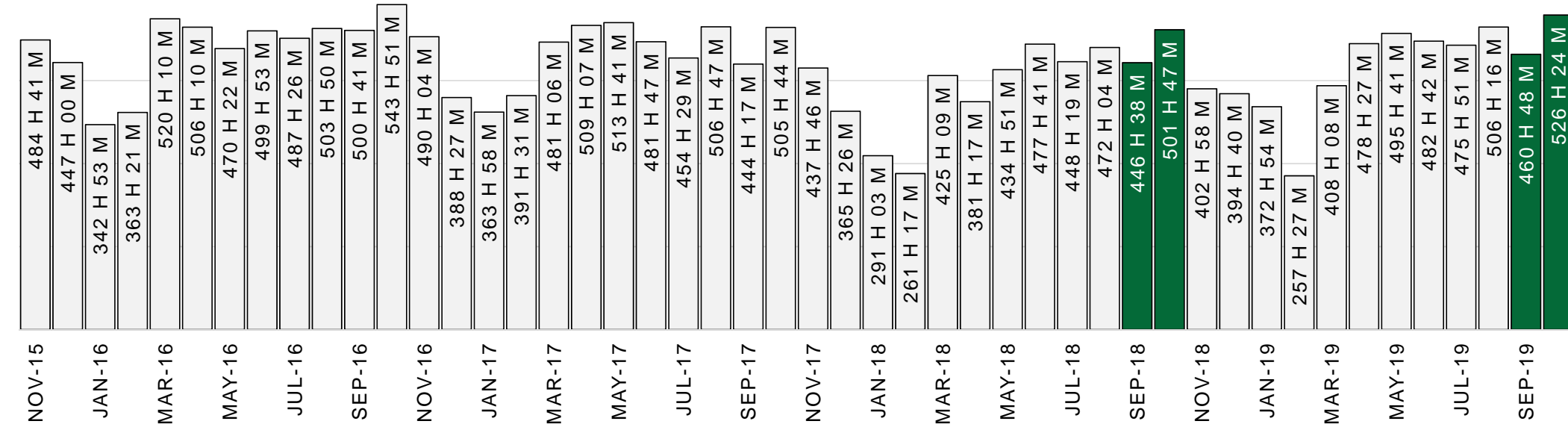
FILED
17,447
(49%)
COMPLAINTS DURING SEPT & OCT

7 OF 10
LOCATIONS WERE IN THE TOP 10
FOR JUL – AUG DATA

420
(70%)
LOCATIONS FILED 10 OR LESS
COMPLAINTS

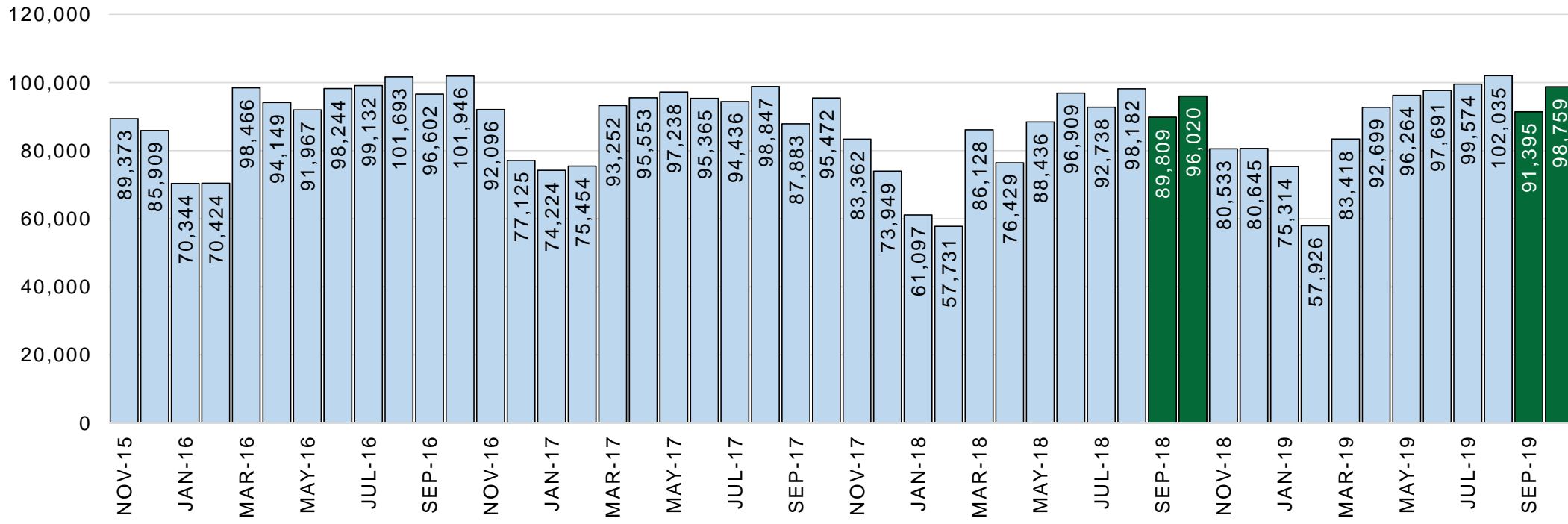
SOUND MONITORING

SEPTEMBER 2019			OCTOBER 2019		
Time Above	50 _s TA ⁶⁵ per operation	460 _h 48 _m TA ⁶⁵	Time Above	54 _s TA ⁶⁵ per operation	526 _h 24 _m TA ⁶⁵
Count Above	2.74 N ⁶⁵ per operation	91,395 N ⁶⁵	Count Above	2.84 N ⁶⁵ per operation	98,759 N ⁶⁵



SOUND MONITORING

SEPTEMBER 2019			OCTOBER 2019		
Time Above	50 _s TA ⁶⁵ per operation	460 _h 48 _m TA ⁶⁵	Time Above	54 _s TA ⁶⁵ per operation	526 _h 24 _m TA ⁶⁵
Count Above	2.74 N ⁶⁵ per operation	91,395 N ⁶⁵	Count Above	2.84 N ⁶⁵ per operation	98,759 N ⁶⁵



NOISE ABATEMENT

SEPTEMBER 2019

OCTOBER 2019

Runway 17	99.5%
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Runway 17	99.1%
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Corridor	90.6%
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Corridor	90.4%
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Cross Day	25%
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Cross Day	20.7%
-----------	-------

Cross Night	66.2%
-------------	-------

Cross Night	44.1%
-------------	-------

RUS

54.1%

Arrive – 41%

Depart – 67%

RUS

54.4%

Arrive – 60%

Depart – 48%

ITEM 3 PUBLIC COMMENT PERIOD



**NOISE OVERSIGHT COMMITTEE
NOVEMBER 20, 2019**



ITEM 3

PUBLIC COMMENT PERIOD

Speaking at a Meeting

- Please complete and submit a speaker card.
- Each speaker will have one opportunity to speak and is allotted three (3) minutes.
- When called upon to speak, speak clearly into the microphone, 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
NOVEMBER 20, 2019



ITEM 4

EAGAN CITY COUNCIL REQUEST

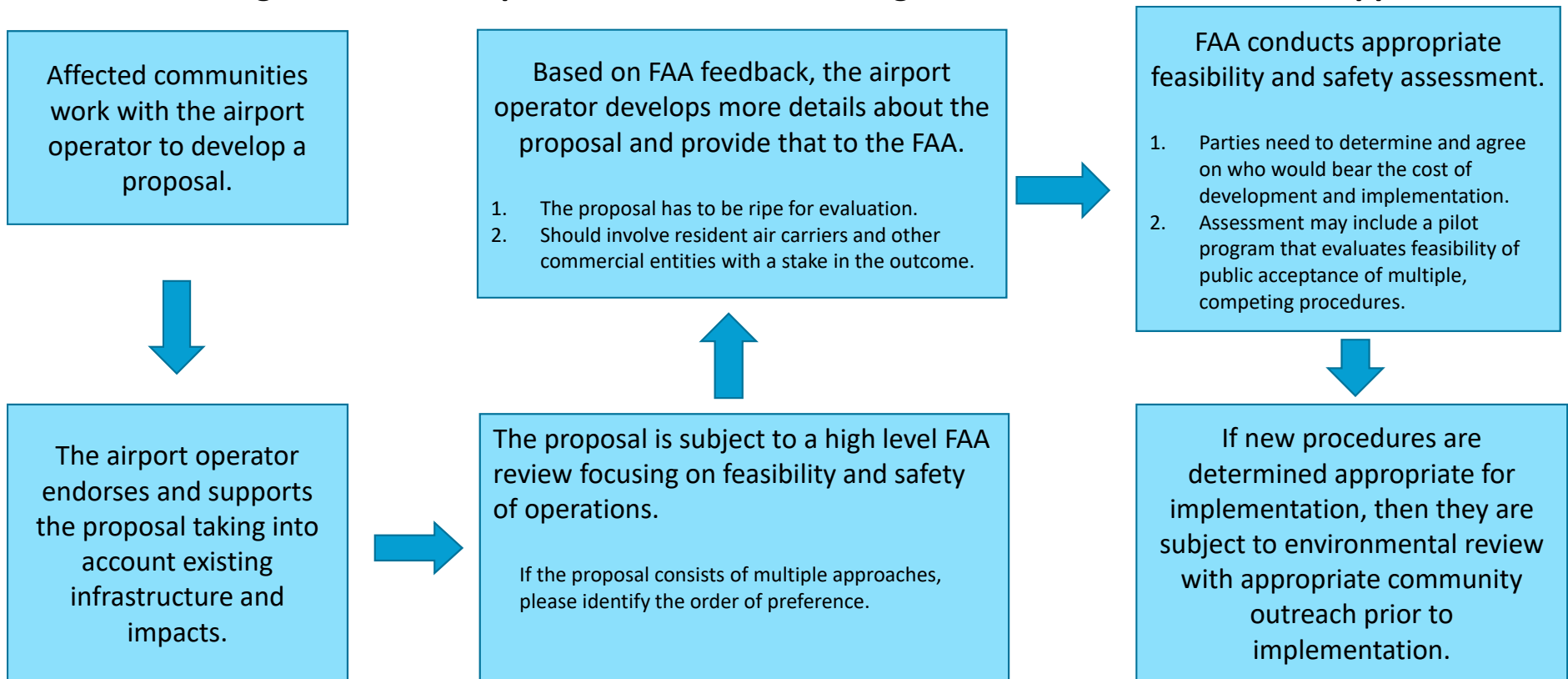


NOISE OVERSIGHT COMMITTEE
NOVEMBER 20, 2019



FAA Departure Procedure Adjustment Process

Amending Instrument Departure Procedures Through Collaboration – A Process Approach



Eagan City Council Letter

“Use of Runway 17 for departures has increased dramatically since the implementation of CRO, including more frequent use of the south flow configuration. The Runway Use System (RUS) calls for Runway 12R and 12L as the first priority for departures. However, Runway 17 is the most frequently used runway for southerly departures in contradiction to the RUS.”



September 3, 2019

Metropolitan Airports Committee
Attn: Noise Oversight Committee (NOC)
6040 S. 28th Avenue
Minneapolis, MN 55450

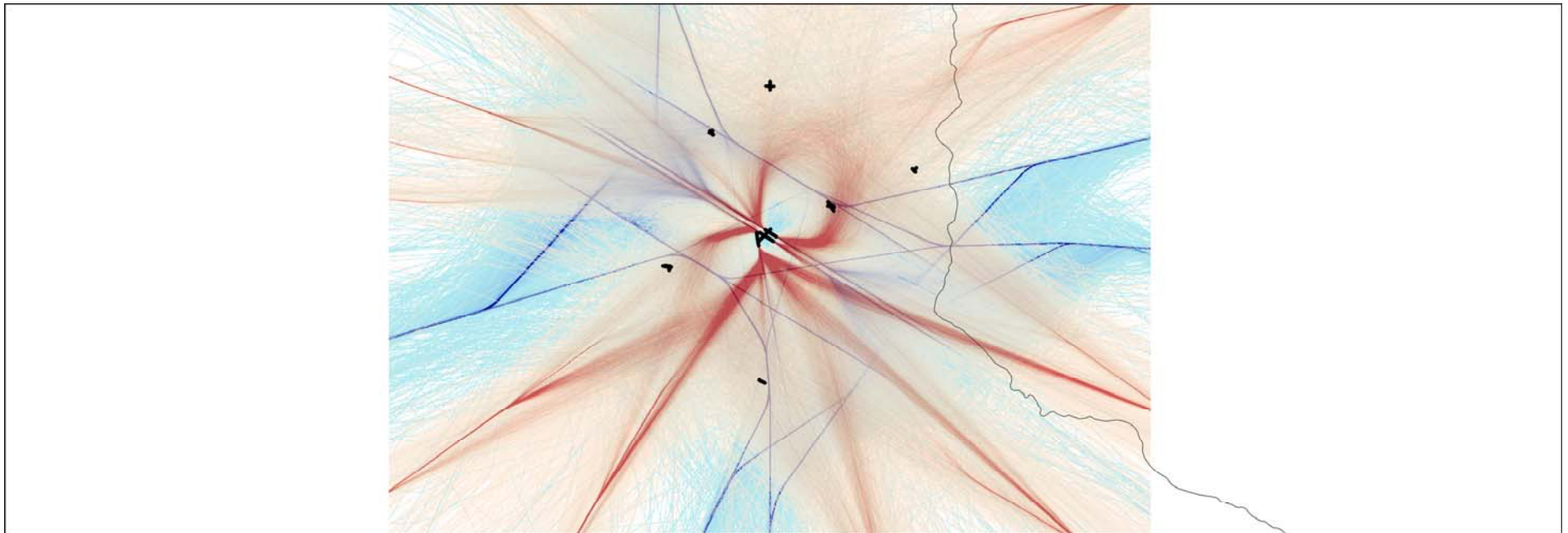
Dear Members of the Noise Oversight Committee:

As you are well aware, the noise environment in the City of Eagan has changed dramatically since the implementation of Converging Runway Operations (CRO) at MSP Airport in 2015. The airport more routinely operates in a south flow, resulting in thousands of additional flights over residential areas of Eagan.

Over the past several months, the Eagan Airport Relations Commission (ARC), a volunteer advisory commission to the City Council, has been working in partnership with Metropolitan Airports Commission (MAC) staff to review the outcomes of the NOC-initiated Runway 17 Departure Study. The study clearly demonstrated the increased noise impact to Eagan since CRO went into effect. In response to the data and with input from MAC staff and Eagan residents, the ARC has developed a series of requests and inquiries of the FAA pertaining to operational changes at MSP Airport. The ARC is mindful of not moving noise from one community or neighborhood to another, and thus the suggestions attempt to keep planes over more compatible land uses and within the City of Eagan, when appropriate.

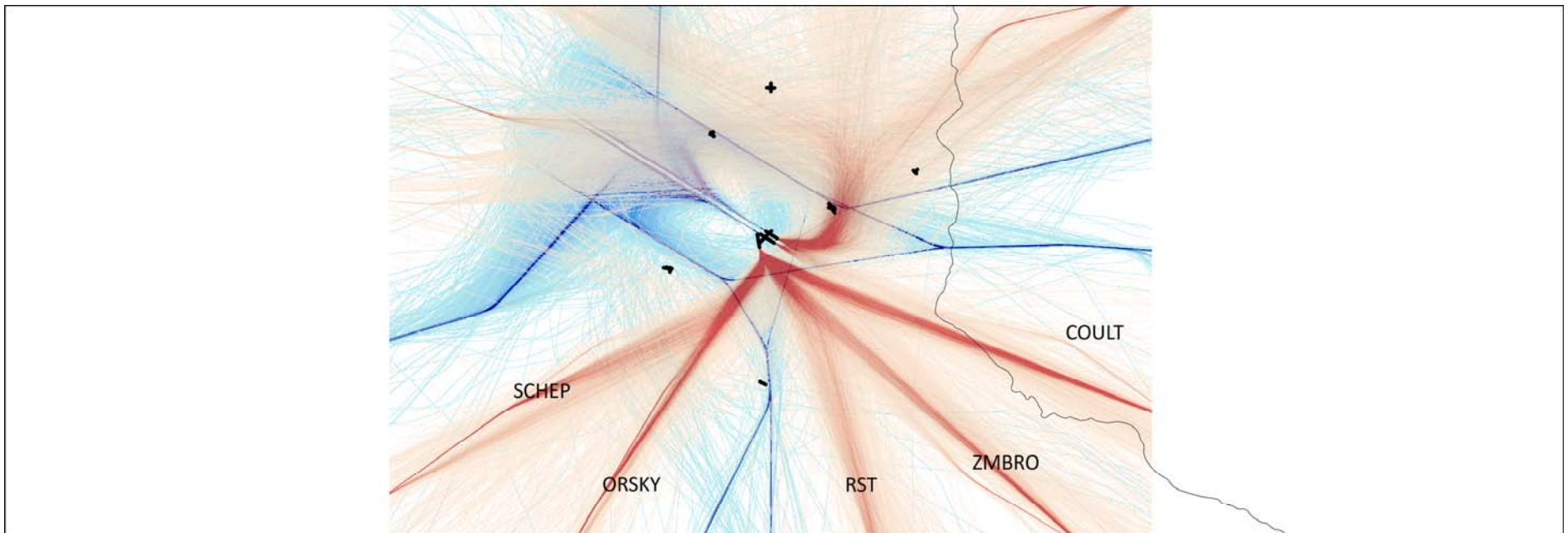
The City of Eagan respectfully asks the NOC to consider and forward the following recommendations and inquiries to the MAC Commission of the whole. Pending NOC and MAC review, the City asks that the request be forwarded to the FAA for their consideration. The requests are being made at this time to coincide with the recent commitment of the FAA to conduct environmental analysis of the impacts of CRO. The City of Eagan is grateful for the FAA's renewed presence and communication efforts with the NOC. As such, the City of Eagan requests that the FAA respond both in writing and engage in a dialogue with the NOC when responding to the City's requests.

Eagan Request 1A – Direct departures with initial fixes of COULT or ZMBRO to use Runway 12R instead of Runway 17



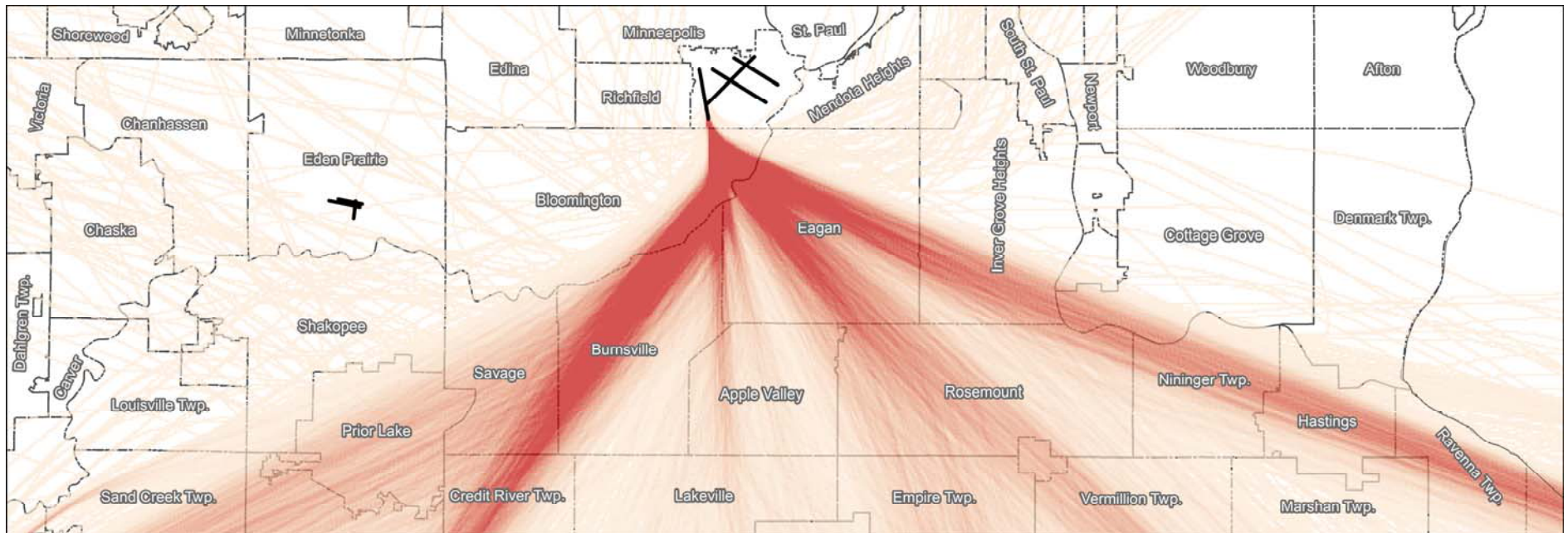
0 5 10 20
Miles

Eagan Request 1A – Direct departures with initial fixes of COULT or ZMBRO to use Runway 12R instead of Runway 17



0 5 10 20
Miles

Eagan Request 1B – Vary the use of Runway 17 departure headings to limit the frequency of overflights in neighborhoods



0 1 2 4
Miles

Eagan City Council Letter

“More frequent use of the 120, 140, and 155-degree departure headings off Runway 17 has caused a significant increase in the noise burden over residential areas of Eagan.”



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MAYOR | MIKE MAGUIRE COUNCIL MEMBERS | PAUL BAKKEN, CYNDEE FIELDS, GARY HANSEN, MEG TILLEY CITYOFEAGAN.COM
CITY ADMINISTRATOR | DAVID M. OSBERG MUNICIPAL CENTER | 3830 PILOT KNOB ROAD, EAGAN, MN 55122-1810
MAIN: (651) 675-5000 HEARING IMPAIRED: (651) 454-8335 MAINTENANCE: (651) 675-5300 UTILITIES: (651) 675-5200

Eagan Request 2A – Implement an eastbound turn restriction off Runway 17 similar to the westbound 2.5-mile river departure procedure



0 0.5 1 2
Miles

- Runway 17 Westbound Gate
- - - Hypothetical Runway 17 Eastbound Gate

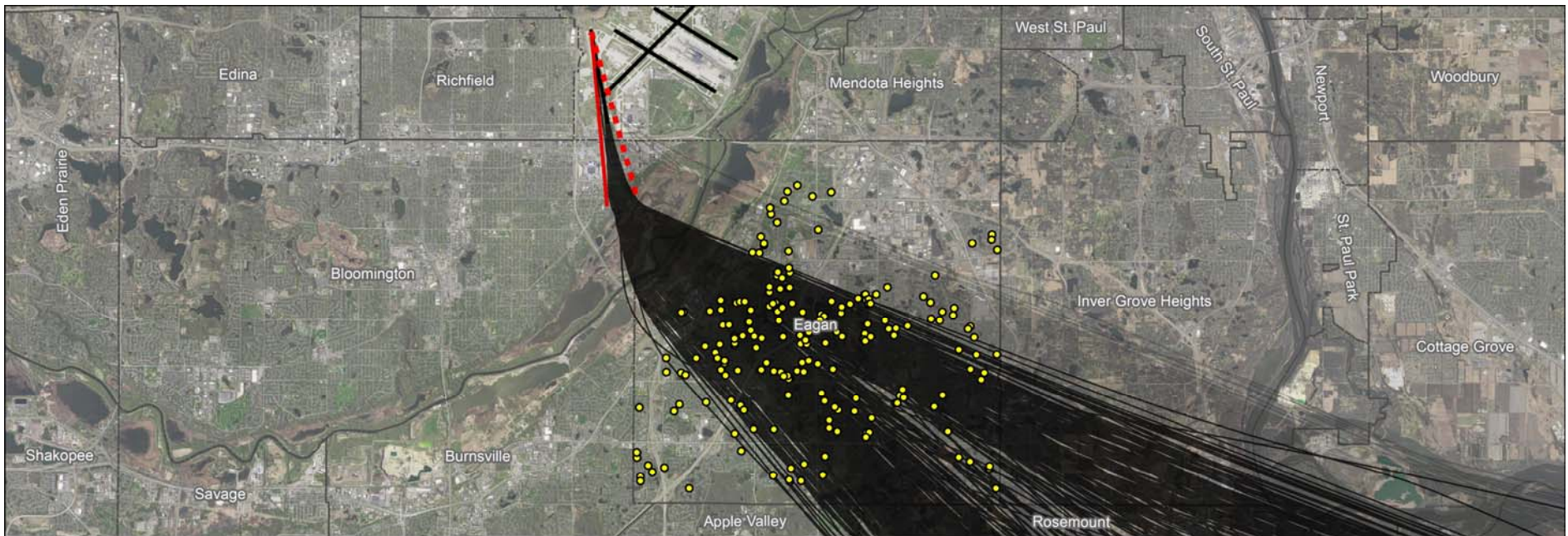
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0 0.5 1 2
Miles

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0 0.5 1 2
Miles

- Runway 17 Westbound Gate
- - - Hypothetical Runway 17 Eastbound Gate
- September Flight Tracks
- 2019 Complaint Locations

Eagan Request 2B – Review a new fix at 35E and Cedar Avenue to which 17 departures be directed prior to making their eastbound turn



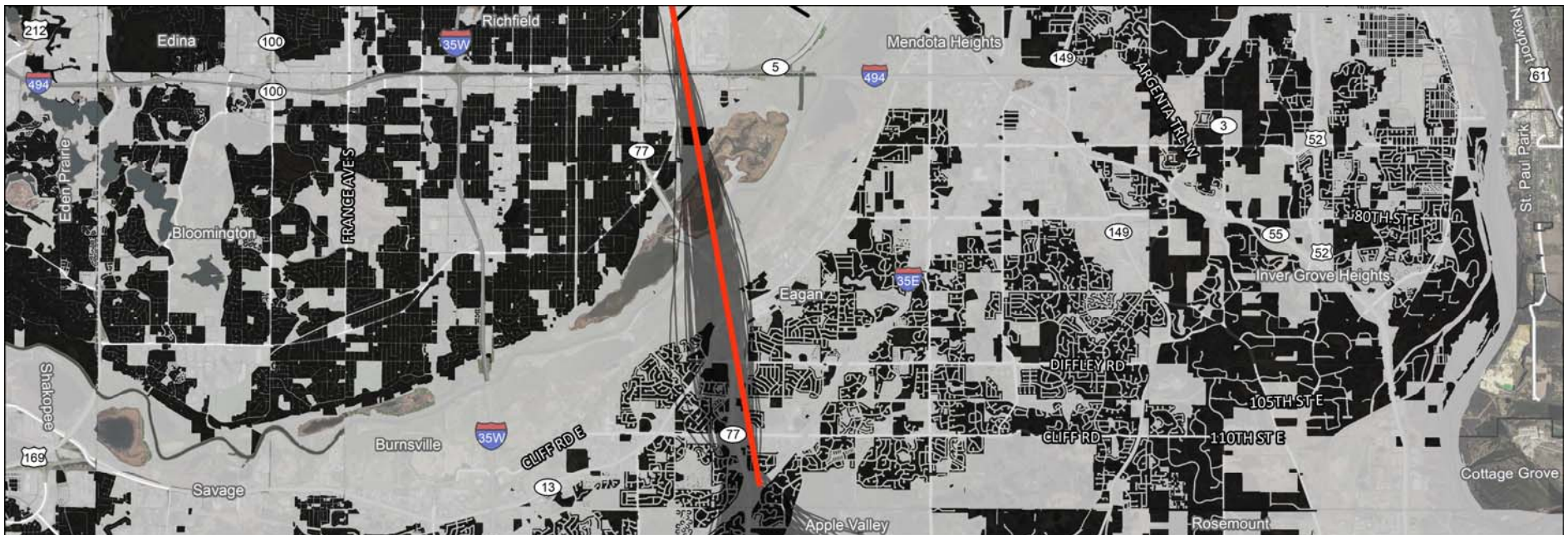
0 0.5 1 2
Miles

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0 0.5 1 2
Miles

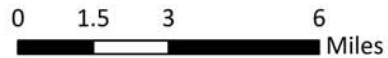
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0 0.5 1 2
Miles

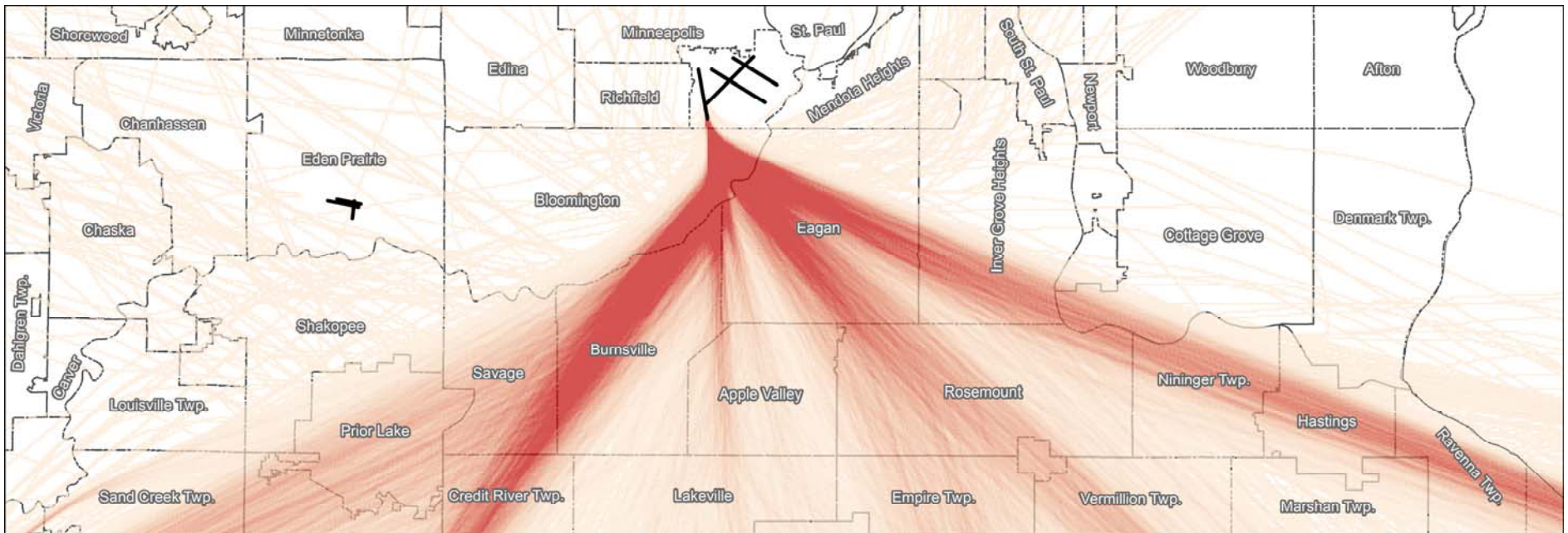
Land Use
Non-Residential
Residential

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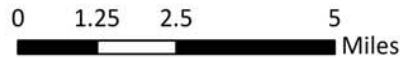
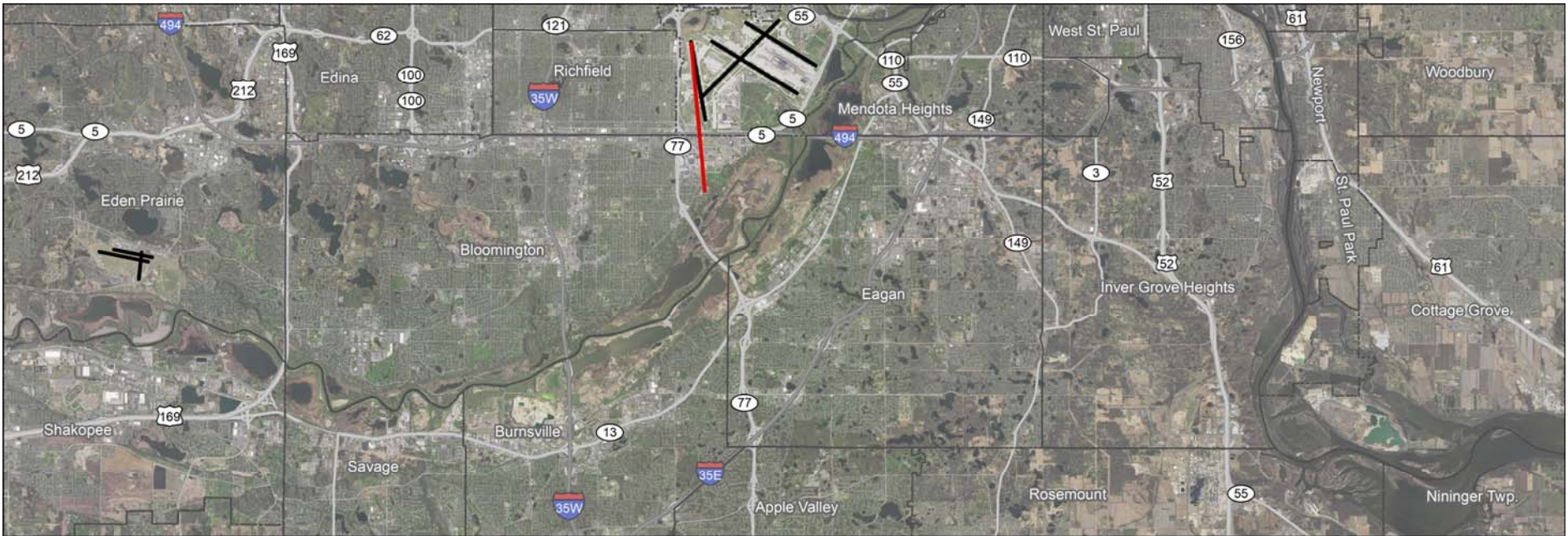
Land Use Compatible Noncompatible

Eagan Request 2C – Better fan aircraft by increasing the use of the 180° heading currently using the 120, 140, and 155-degree headings



0 1 2 4
Miles

Eagan Request 2D – Could all 17 departures use the 2.5-mile river departure procedure before making an easterly turn?



— Runway 17 Westbound Gate

Eagan City Council Letter

“Westbound departures on Runway 12R are making sweeping, westerly turns over predominantly residential areas”



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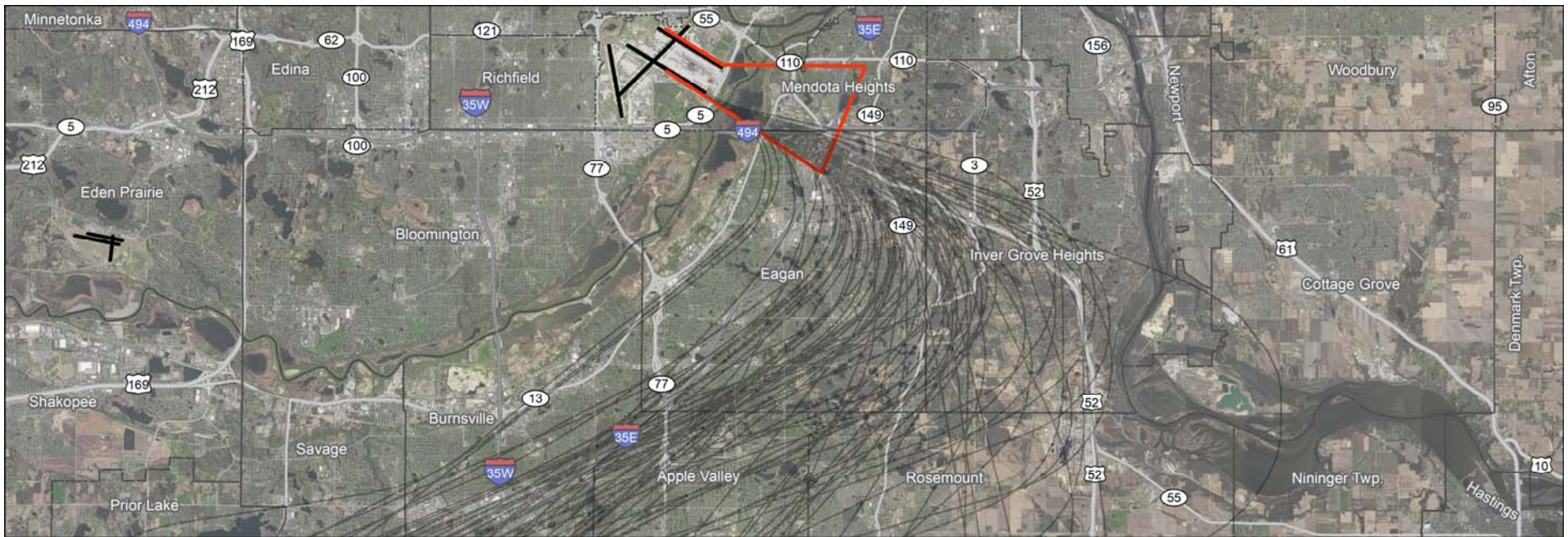
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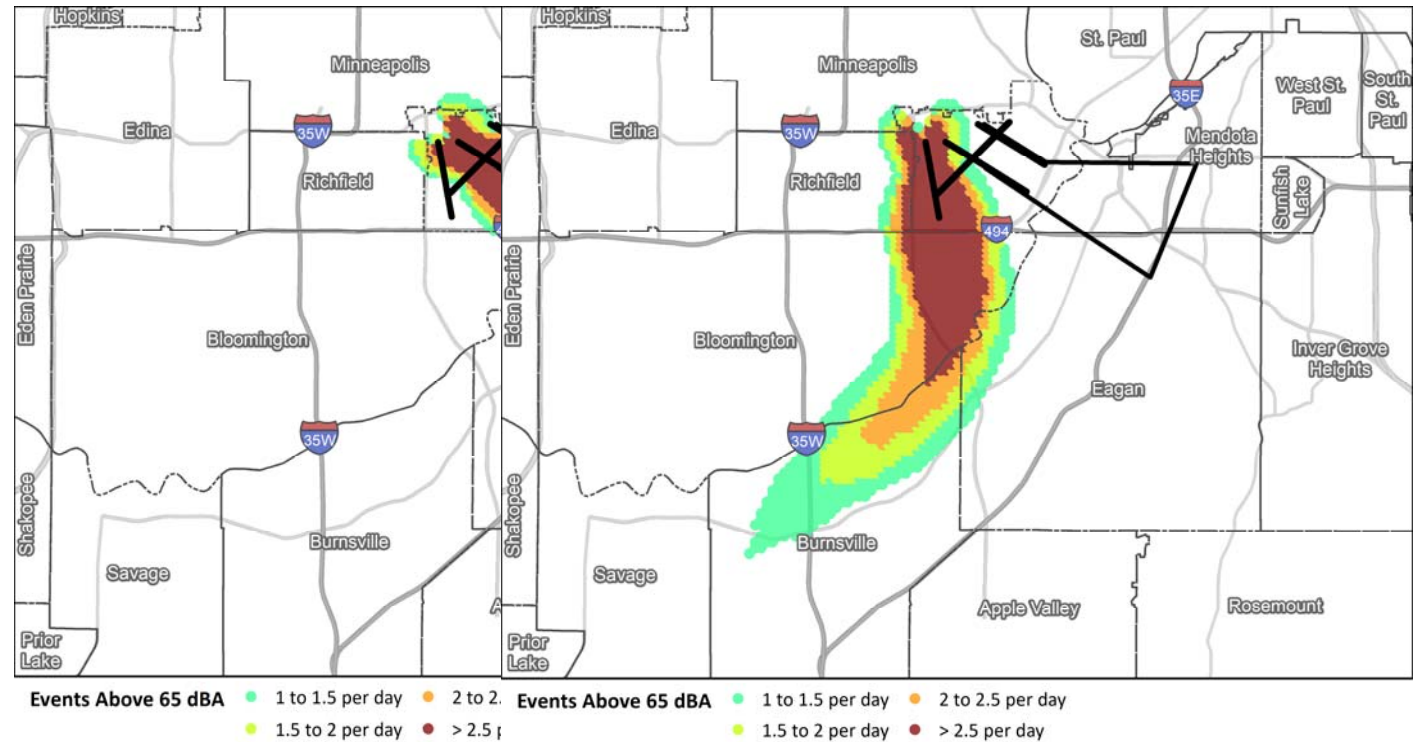
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Eagan Request 3A – Move 12R and 12L westbound departures to 17 to take advantage of the 2.5-mile river departure procedure

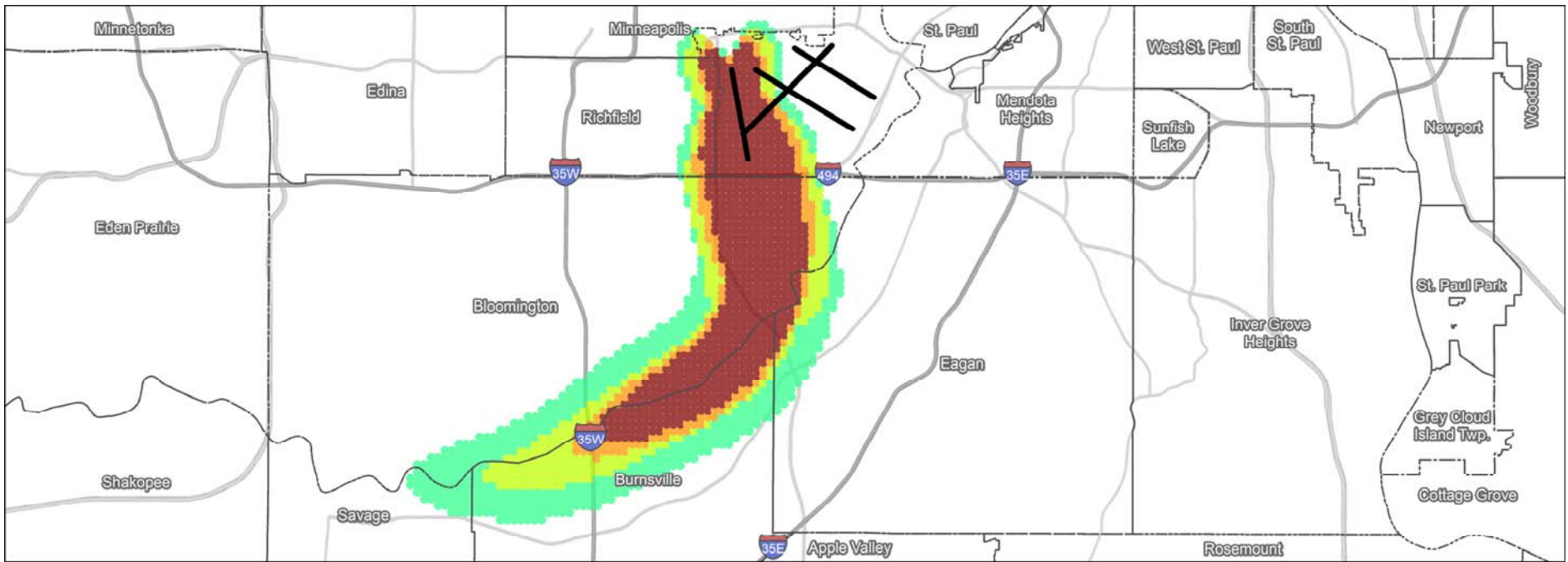


0 1.25 2.5 5 Miles

Eagan Request 3A – Move 12R and 12L westbound departures to 17 to take advantage of the 2.5-mile river departure procedure



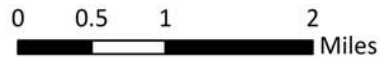
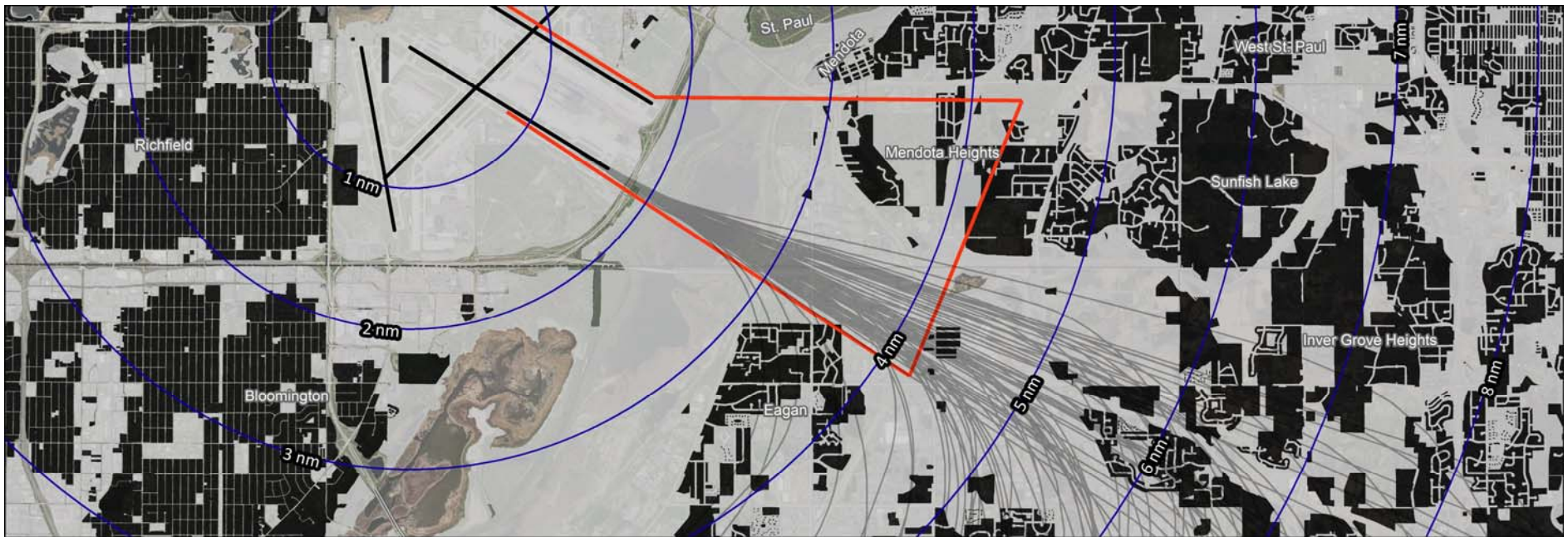
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Events Above 65 dBA

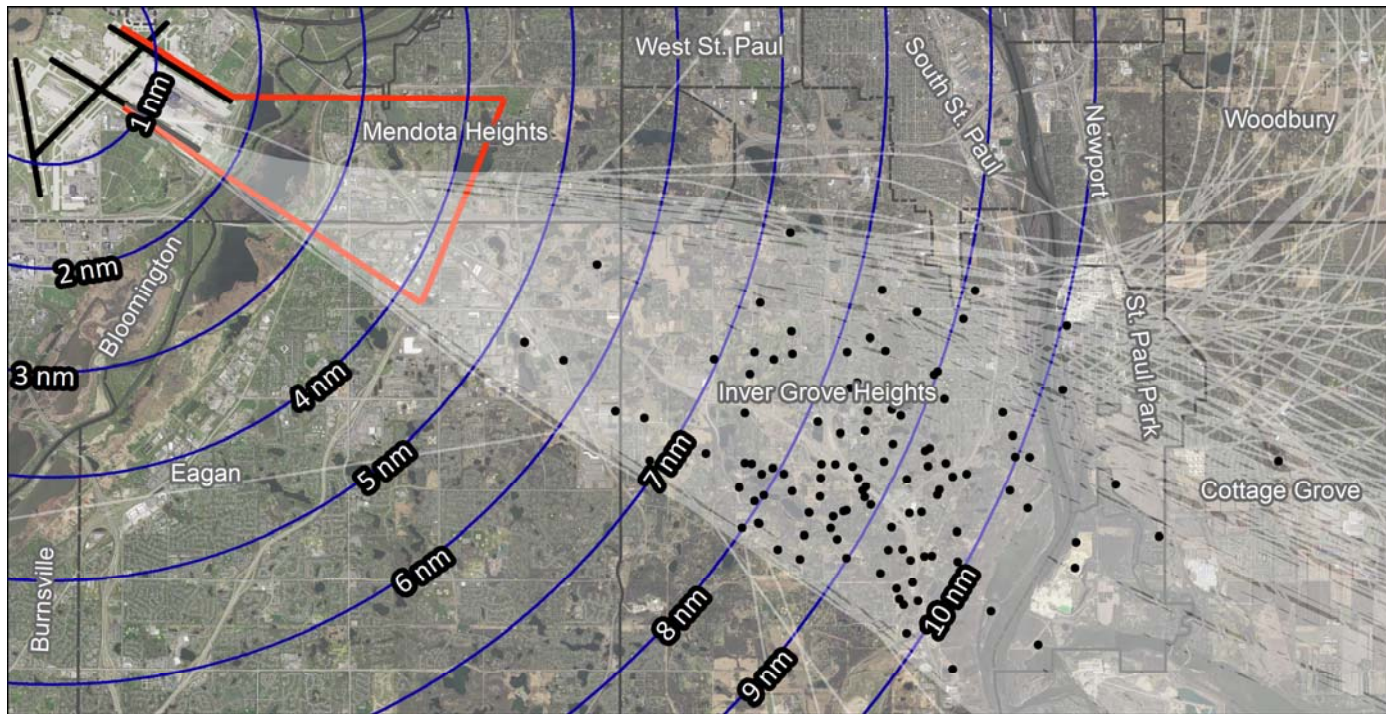
- 1 to 1.5 per day
- 2 to 2.5 per day
- 1.5 to 2 per day
- > 2.5 per day

Eagan Request 3B – Could westbound departures from Runway 12R turn immediately after departure and follow the river valley?



Land Use Compatible Noncompatible

Eagan Request 3C – Could departures in the corridor reach a certain altitude (e.g. 5000 feet) before initiating their westbound turn?



0 0.75 1.5 3
Miles

- Point Aircraft Reached 5,000 Feet Runway 12R Departure Tracks

Action Requested

REQUEST THAT THE MAC PLANNING, DEVELOPMENT AND ENVIRONMENT COMMITTEE FORWARD THE PROPOSAL FOR FAA TO CONDUCT A HIGH-LEVEL EVALUATION OF THE FEASIBILITY AND SAFETY OF THE CITY OF EAGAN'S RECOMMENDATIONS SUPPORTED BY THE NOC. FURTHER, REQUEST THE MAC FORWARD TO THE FAA A LETTER FROM NOC REQUESTING THE FAA'S FINDINGS BE PROVIDED IN WRITING AND PRESENTED AT A FUTURE NOC MEETING.



**NOISE OVERSIGHT COMMITTEE
NOVEMBER 20, 2019**



ITEM 5

REVIEW OF FALL LISTENING SESSION



NOISE OVERSIGHT COMMITTEE
NOVEMBER 20, 2019



Fall Listening Session

- October 23, 2019, 7pm
- MAC General Offices
- Meeting Attendees
 - 9 residents from Eagan, 1 from Edina, 6 from Minneapolis, 3 from St. Louis Park, 1 from Sunfish Lake and 1 from Richfield
 - MAC District C Commissioner Katie Clark Sieben
 - NOC co-chair Jeff Hart
 - NOC members Loren Olson, John Bergman and Paul Borgstrom
 - MAC staff



Fall Listening Session – Topics Discussed

- Aircraft activity over South Minneapolis, east of Hiawatha Avenue
- Aircraft activity over Eagan
- Ground noise and vibration noted by residents of South Minneapolis, Eagan, and Richfield with concern during nighttime hours
- Implementation of ground-based noise mitigation measures such as landscaping or walls
- The use of the parallel runways for arrivals
- How departures from Runway 17 could be redistributed to other runways
- How operational change factors (RNAV arrivals, CRO, etc.) have an impact on noise
- Chicago O’Hare Quiet Skies Program
- Development of a smartphone app to allow for aircraft complaints when not located at one’s home
- Development of a land use restriction corridor by the City of Eagan, south of Runway 17, to reduce development of non-compatible uses
- Review of the MSP LTP at future NOC meetings

ITEM 6

SUMMARY OF AVIATION NOISE, ENVIRONMENT, AND HEALTH-RELATED RESEARCH



NOISE OVERSIGHT COMMITTEE
NOVEMBER 20, 2019



ITEM 7

REVIEW AND APPROVAL OF 2020 NOC WORK PLAN, 2020 MEETING DATES, 2019 NOC ACCOMPLISHMENTS



NOISE OVERSIGHT COMMITTEE
NOVEMBER 20, 2019



Draft NOC 2020 Work Plan

1. RESIDENTIAL NOISE MITIGATION PROGRAM

- a. Review Residential Noise Mitigation Program Implementation Status

2. MSP NOISE PROGRAM SPECIFIC EFFORTS

- a. 2019 Annual Noise Contour Report, and First and Second Amendments to the Consent Decree Noise Mitigation Program Eligibility
- b. MSP Fleet Mix and Nighttime Operations Assessment
- c. Status of Aviation-Related Research Initiatives
- d. Update on Converging Runway Operations at MSP
- e. Update on the MSP Long Term Plan Update and Associated Stakeholder Engagement

- f. Update on the FAA's Survey to Re-Evaluate Noise Measurement Methods

- g. Runway 30L and 30R Departure Study

- h. Runway 12L and 12R Nighttime Arrivals Balancing Study

- i. Complaint Data Assessment

- j. Conduct a mobile noise monitoring study in the City of Minnetonka

3. CONTINUE REVIEW OF PUBLIC INPUT

- a. Continue to Review Input Received from quarterly Listening Sessions for Possible Agenda Items

2020 Meeting Dates

- ****January 29, 2020 at 1:30 PM****
- March 18, 2020 at 1:30 PM
- May 20, 2020 at 1:30 PM
- July 15, 2020 at 1:30 PM
- September 16, 2020 at 1:30 PM
- November 18, 2020 at 6:30 PM



2019 NOC Accomplishments

1. Completed a [Fleet Mix and Nighttime Operations Assessment](#) which, in addition to evaluating fleet mix and nighttime operations, included certificated noise levels for aircraft operating at MSP and aircraft altitude trends.
2. Pursuant to the Second Amendment to the Consent Decree, reviewed the [MSP 2018 Annual Noise Contour Report](#) published on February 28, 2019. The report noted that based on the 406,913 total operations at MSP in 2018, the actual 60 dB DNL contour is 28% smaller than the 2007 forecast contour, and the 65 dB DNL contour is 39% smaller. The report also explained that there are areas of the contour, near the arrival areas for Runway 12R/30L, where additional homes are achieving candidate eligibility in the MAC's Residential Noise Mitigation Program.
3. Received regular updates from the FAA on Converging Runway Operations (CRO). Communicated to FAA the full intent of resolution #02-2016 and encouraged the FAA to provide an inclusive public process for CRO environmental evaluation.
4. Received an update on the FAA's efforts to re-evaluate noise measurement methods at U.S. airports.
5. Heard from the MAC Executive Director and CEO, Bryan Ryks on updates on the organization, recent accolades, trends in passengers and operations, and future development at MSP.
6. Heard from NOC Chief Pilots regarding standard departure procedures, noise abatement training and missed approach procedures.

2019 NOC Accomplishments

7. Conducted a mobile noise monitoring request from the Eagan Airport Relations Commission to evaluate the location of two existing RMTs to ensure their respective current locations are optimal for collecting noise events from aircraft arriving to and departing from MSP.
8. Developed and executed a communication plan for increased flight traffic associated with the NCAA Final Four.
9. Reviewed aviation-related research initiatives from FAA Center of Excellence/ASCENT, TRB, and other researchers.
10. Received ongoing review of MSP monthly operations reports which include aircraft noise complaints, operations, runway use, noise events, and compliance with noise abatement procedures.
11. Evaluated considerations from the Airport Noise Management Benchmarking Study
 - Opened the Aircraft Noise Complaint Policy to accept noise complaints from non-residential addresses
 - Developed a tool to provide real-time alerts to Air Traffic Control for non-compliant flights to further enhance noise abatement procedure awareness and compliance
12. Developed a Runway 17 Departure Operations Report through a collaborative process with Eagan residents.
13. Reviewed Eagan City Council requests in collaboration with the Eagan ARC, City Council, FAA, NOC and MAC board.

2019 NOC Accomplishments

14. Created requirements for integrating the MACnoise.com website into the redesign of the metroairports.org site, using input provided by the NOC.
15. Received updates from MAC on on-going development of the MSP Long-Term Plan and associated Stakeholder Engagement Program
16. Evaluated citizen input received during quarterly Listening Sessions as possible discussion topics at future NOC meetings. Ideas collected during the Fall Listening Session were documented from citizens who expressed what they would like the NOC to consider specifically for its 2020 Work Plan

Action Requested

APPROVE AND RECOMMEND TO THE MAC PLANNING, DEVELOPMENT AND ENVIRONMENT COMMITTEE THE FINAL 2020 MSP NOC WORK PLAN AND APPROVE THE LIST OF 2019 ACCOMPLISHMENTS AND 2020 MEETING DATES.



**NOISE OVERSIGHT COMMITTEE
NOVEMBER 20, 2019**



ITEM 8

UPDATE ON THE FAA'S SURVEY TO RE-EVALUATE NOISE MEASUREMENT METHODS



NOISE OVERSIGHT COMMITTEE
NOVEMBER 20, 2019





Update on the FAA's Survey to Re-Evaluate Noise Measurement Methods

- FAA Reauthorization 2018
 - Section 173 – Alternative airplane noise metric evaluation deadline
 - Section 188 – Study regarding day-night average sound levels
 - Section 187 – Aircraft noise exposure

ITEM 9

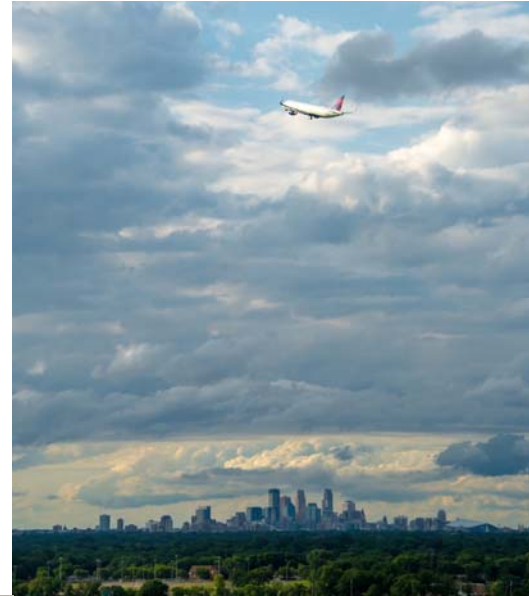
AIRLINE POLICIES AND PROCEDURES



NOISE OVERSIGHT COMMITTEE
NOVEMBER 20, 2019



Airline Policies and Procedures



Departure Altitudes
and Flight Paths

Noise Abatement
Procedure Training



A Day in the Life of an
Airline Pilot



ITEM 10

REVIEW RESIDENTIAL NOISE MITIGATION PROGRAM IMPLEMENTATION STATUS

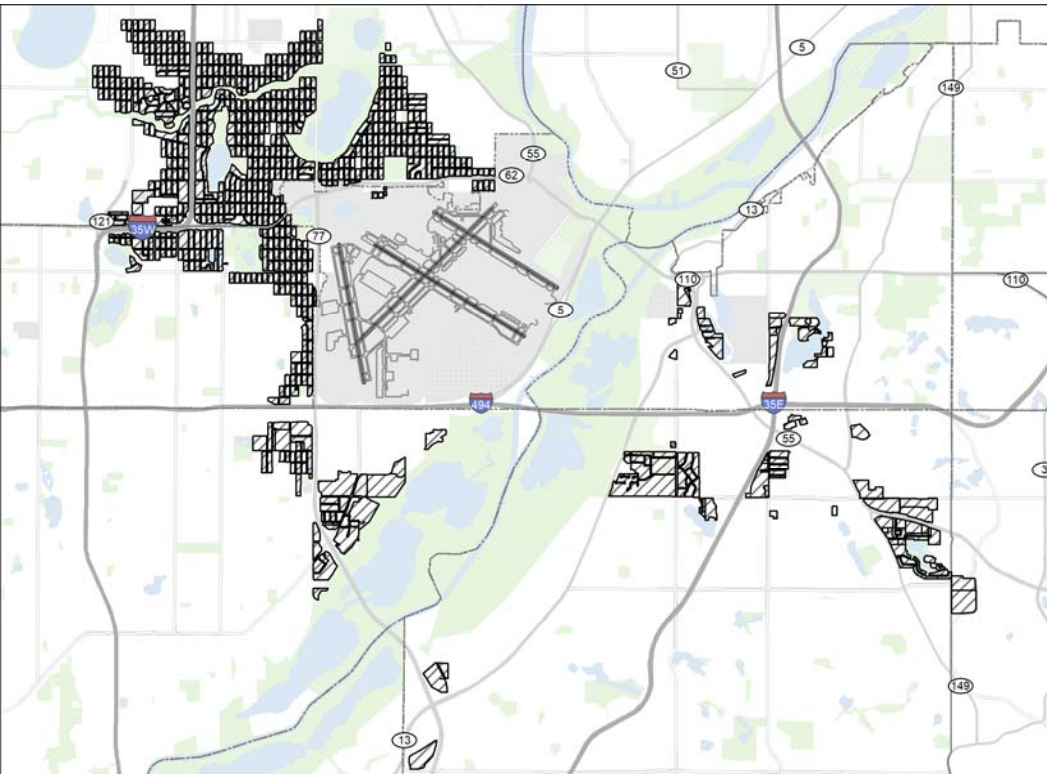


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Mitigation History





MSP Mitigation History

- MSP Residential Noise Mitigation Program
1992 – 2006
 - 7,800 Single Family Homes
 - 1,327 Multi Family Units
 - 19 Schools
 - Land acquisition
- Original Consent Decree
2007 – 2013
 - 404 Single Family Homes received full mitigation package
 - 5,055 Single Family Homes received partial mitigation package
 - 1,773 Single Family Homes participated in the homeowner reimbursement program
 - 1,976 Multi Family Units

Amended Consent Decree

- ✈ Eligibility based on Actual Noise Contour
- ✈ A home will become eligible for residential noise mitigation if it is located
 - in the **60 dB DNL** contour for **3 consecutive years**
 - in a higher noise impact mitigation area than previous programs
- ✈ Commits the MAC to provide noise mitigation until the year 2024



Mitigation Activities





Mitigation Activities

- MAC offers two different mitigation packages depending on exposure area
- Full 5 dB Reduction Package
 - Eligible homes in the 63 dB DNL contour
- Partial Noise Reduction Package
 - Eligible homes in the 60 dB DNL contour

Mitigation Methods

- Insulation of walls or attic
- Roof and chimney baffling
- Air Conditioning



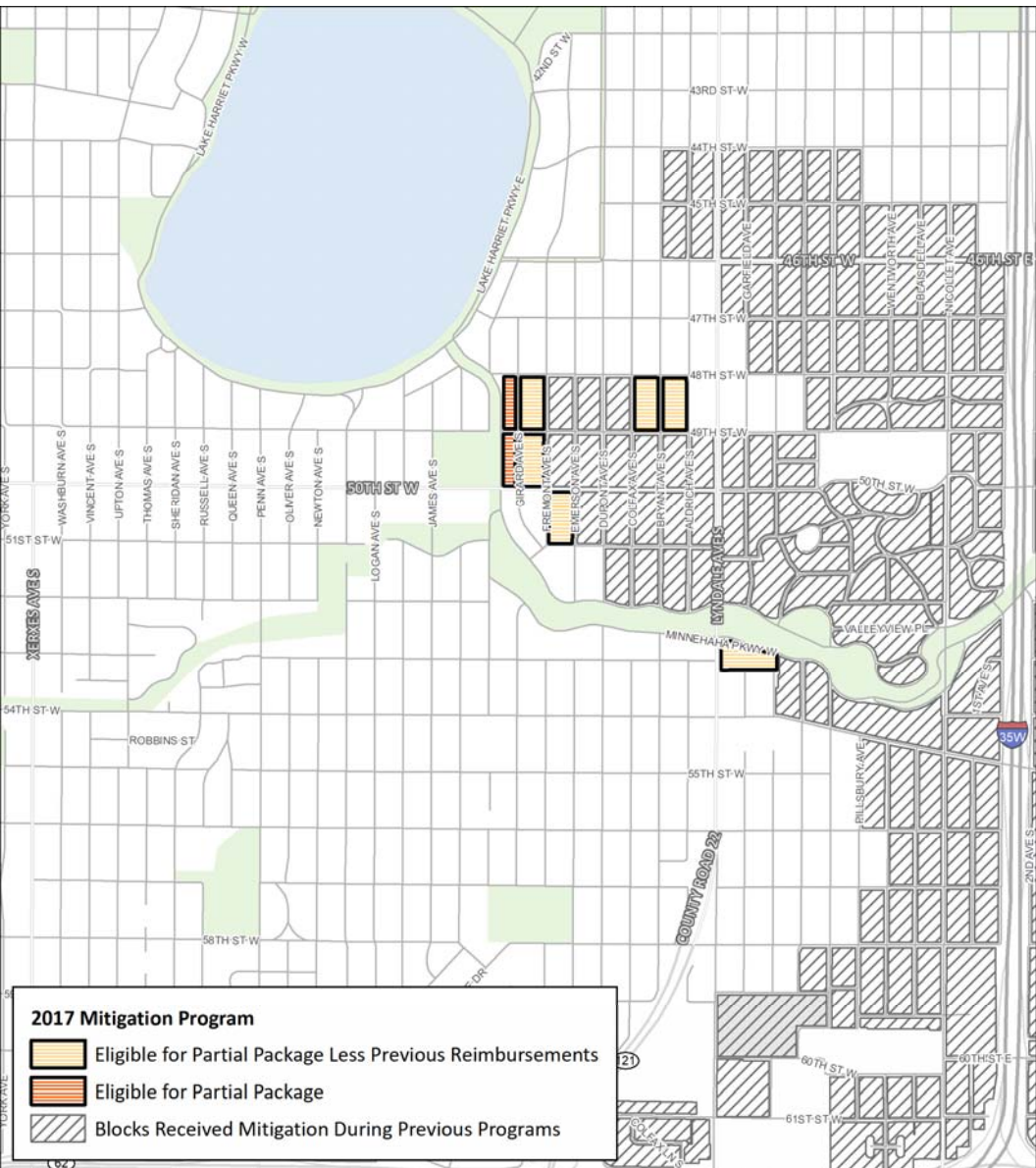
- Windows
- Acoustic storm windows

- Prime doors
- Storm doors

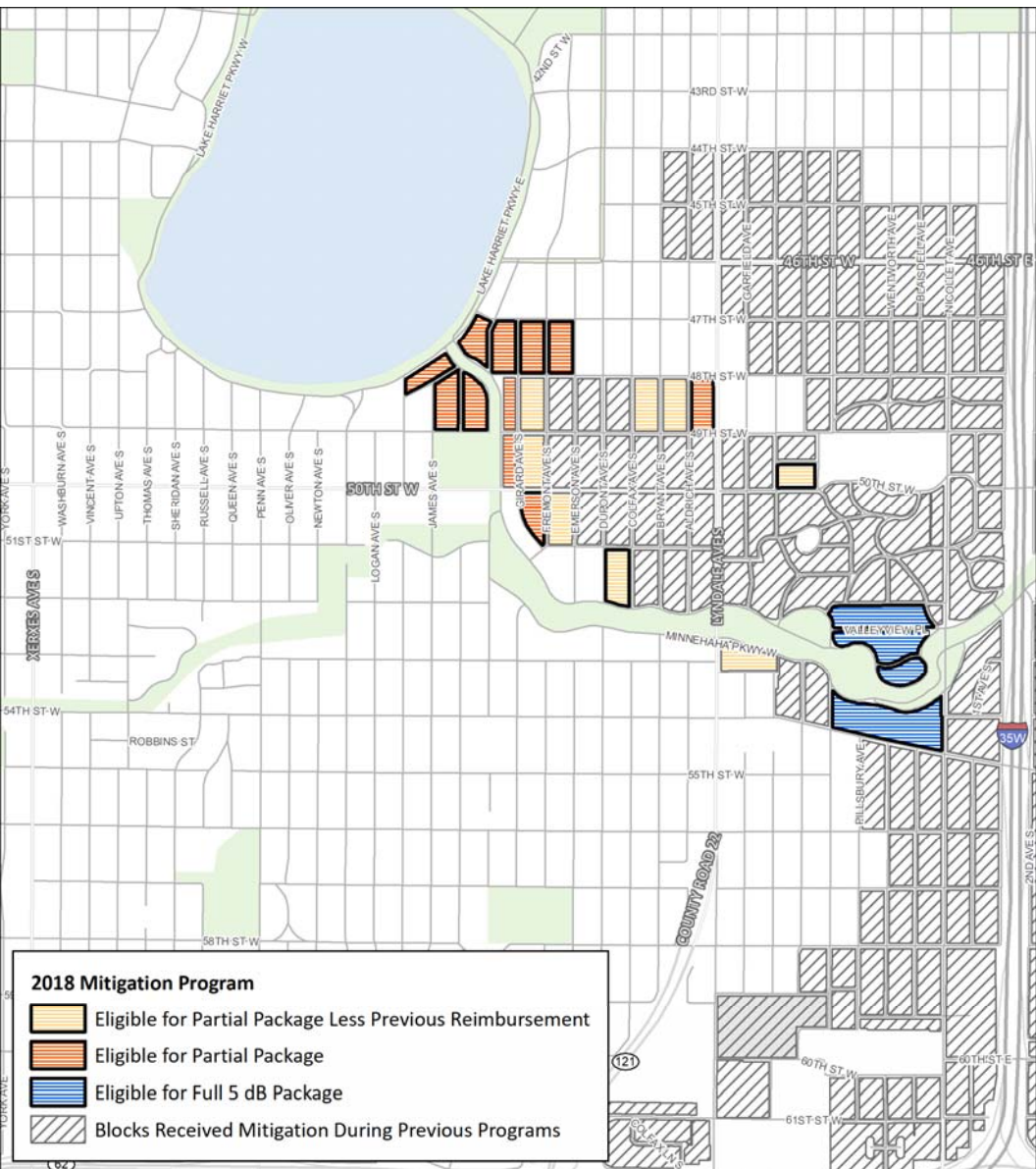




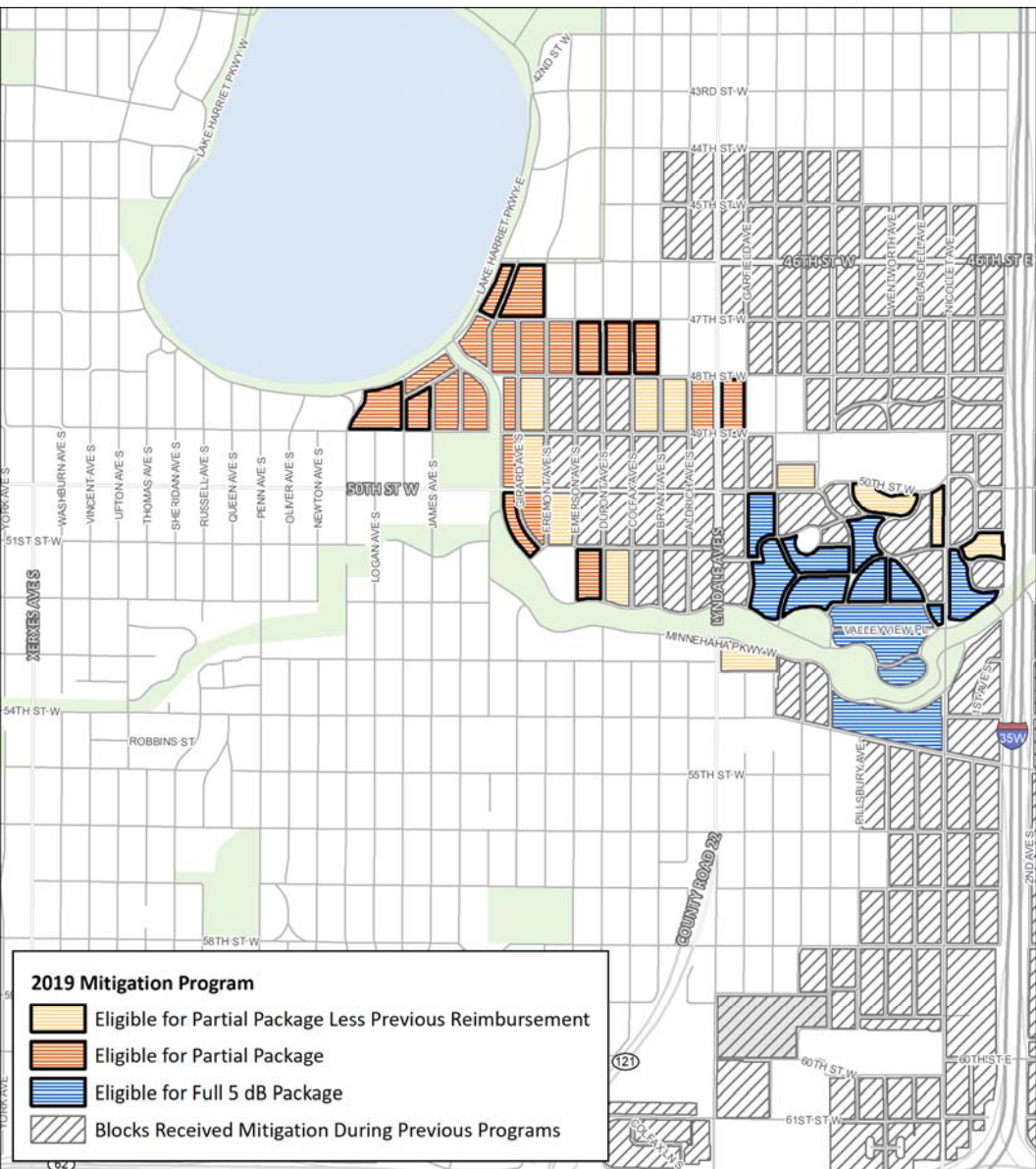
- Previous Mitigation Programs



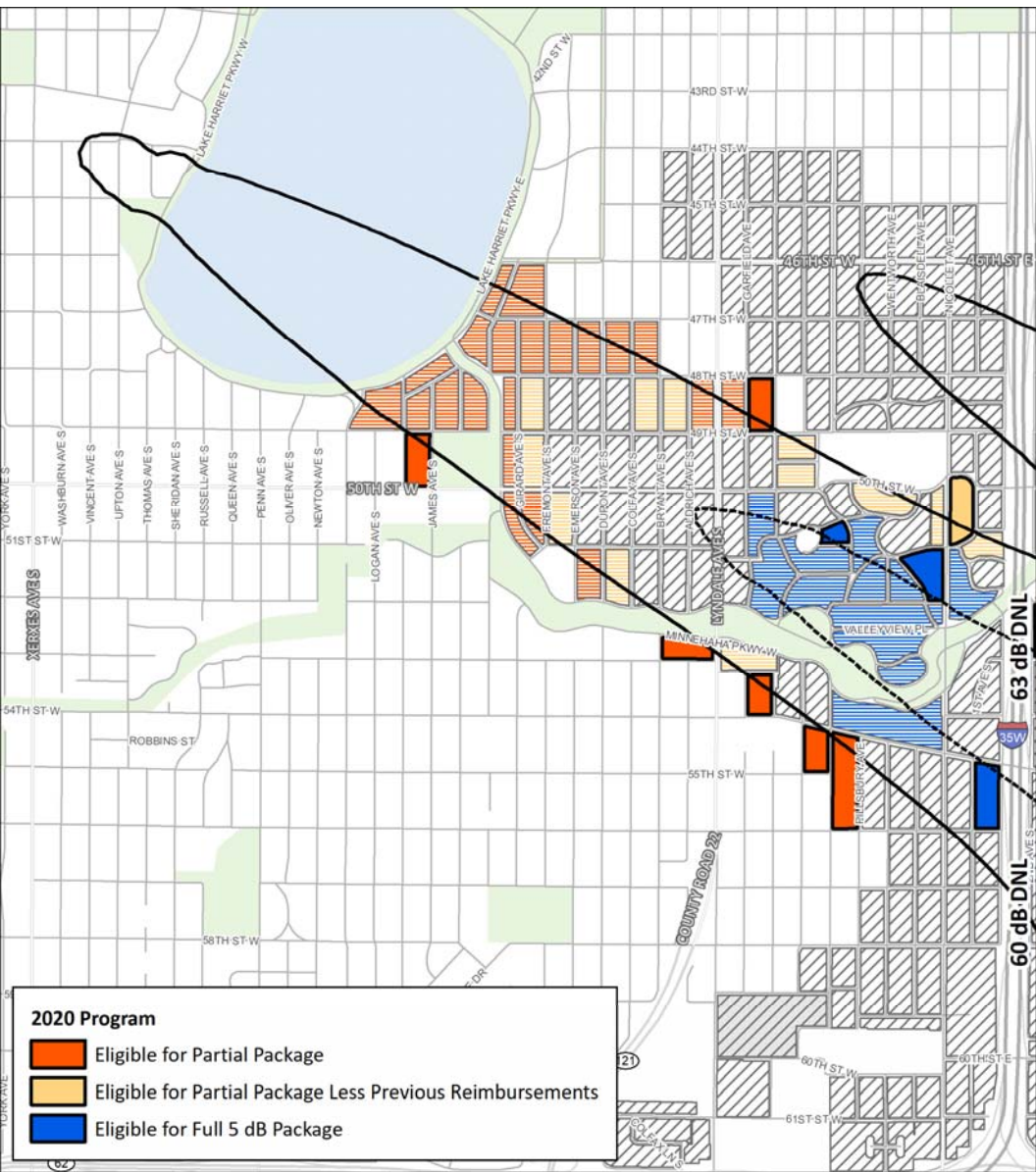
- Previous Mitigation Programs
- **2017 Mitigation Program**
 - 138 Single Family Homes Eligible
 - 117 Homes Complete
 - 15 Homes Declined
 - 6 Homes moved to 2019 Program
 - 88 Multi Family Units Eligible
 - One property (6 units) complete
 - One property (82 units) declined to participate



- Previous Mitigation Programs
- 2017 Mitigation Program
- **2018 Mitigation Program**
 - 283 Single Family Homes Eligible
 - 221 Homes Complete
 - 9 Homes are in Construction or Pre-Construction
 - 27 Homes Declined
 - 26 Homes moved to 2019 Program



- Previous Mitigation Programs
- 2017 Mitigation Program
- 2018 Mitigation Program
- **2019 Mitigation Program**
 - 429 Single Family Homes Eligible
 - 143 Homes Complete
 - 255 Homes are in Construction or Pre-Construction
 - 63 Homes Declined



- Previous Mitigation Programs
- 2017 Mitigation Program
- 2018 Mitigation Program
- 2019 Mitigation Program
- **2020 Mitigation Program**
 - 164 Single Family Homes eligible for partial mitigation package
 - 79 Single Family Homes Eligible for full mitigation package

ITEM 11

ANNOUNCEMENTS

Winter Listening Session

Wednesday, January 22, 2020 @ 7:00 PM

MAC General Offices

Lindbergh Conference Room

January NOC Meeting

Wednesday, January 29, 2020 @ 1:30 PM

MAC General Offices

Lindbergh Conference Room



NOISE OVERSIGHT COMMITTEE
NOVEMBER 20, 2019

