

Airport Noise Community Consultative Group *an update on Auckland Airport's Noise Mitigation Programme*

Matthew Dugmore – Statutory Planner

13 February 2023



Aircraft Noise Contours and Overlays

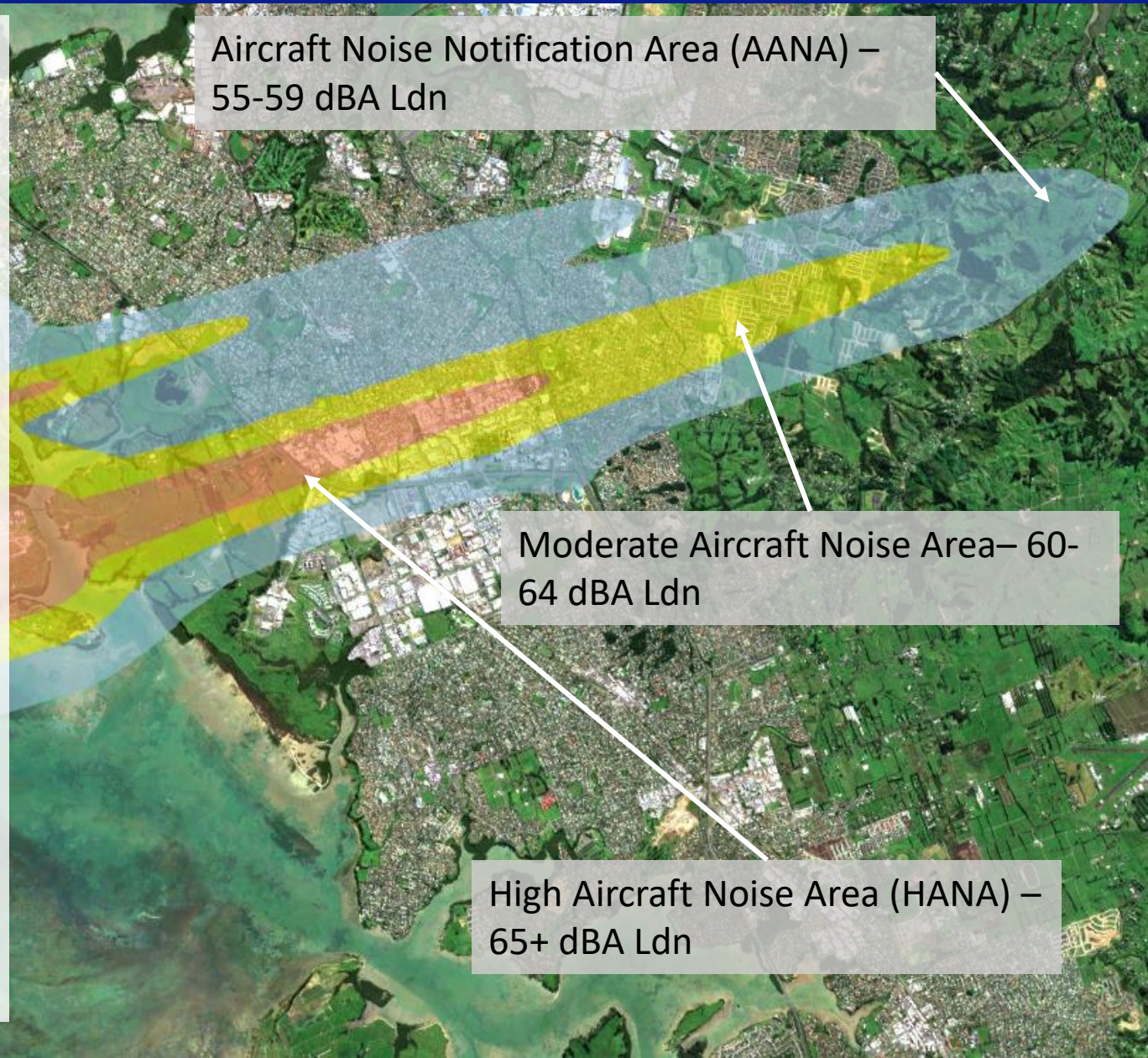
Designation 1100

Noise contours within Designation 1100 **restrict how much** noise Auckland Airport can produce.

- Future Aircraft Noise Contours (FANC) are the maximum level of noise the Airport can generate
- Annual Aircraft Noise Contours (AANC) are the annual prediction of noise for the following 12 months (calculated from October each year) these determine the properties that are eligible for noise mitigation each year

Auckland Unitary Plan Aircraft Noise Overlays

- Overlay in the AUP which **control** activities sensitive to aircraft noise (ASAN) establishing in proximity to Auckland Airport
- New ASAN in the High Aircraft Noise Area (HANA) is Prohibited
- New ASAN in the Moderate Aircraft Noise Area (MANA) is restricted through a 1:400m² density control



The Noise Mitigation Programme

What is it?

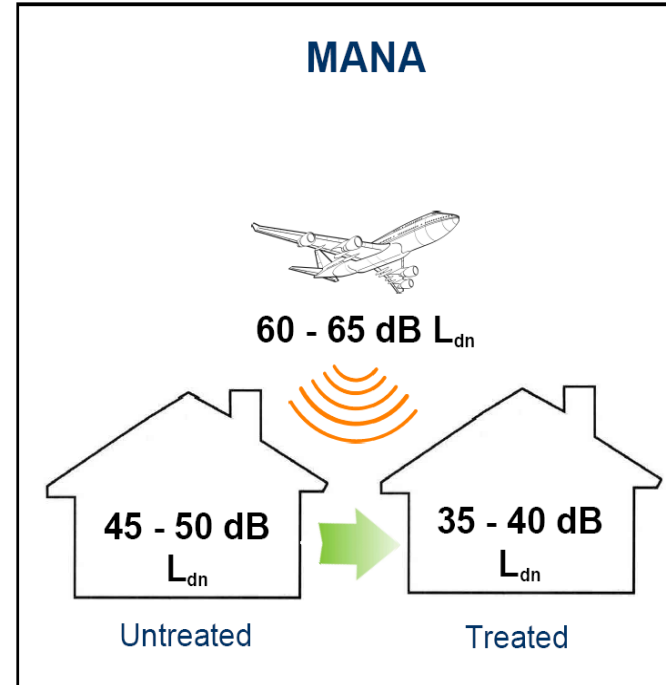
- Auckland Airport offers and installs acoustic attenuation to existing residential properties and educational facilities within the aircraft noise contours.
- Offers are made on an annual basis as aircraft noise reaches properties within the aircraft noise contours. This is determined by the actual aircraft noise contours.

What does it achieve?

- Mitigation packages achieve an internal noise environment of 40 dBA Ldn or less with all windows and doors closed (confirmed by testing).

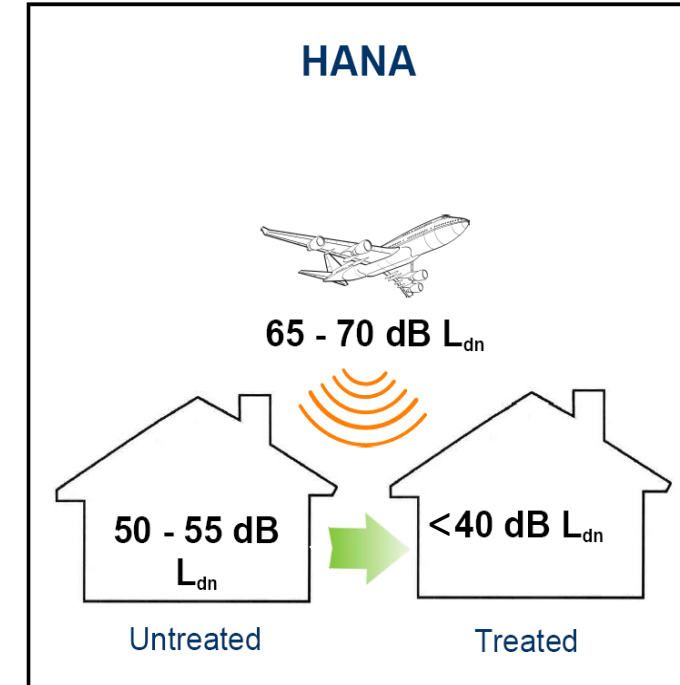
What is the cost to homeowners?

- HANA – 100% paid for by Auckland Airport
- MANA – 75% paid for by Auckland Airport / 25% paid for by the homeowner.
- Auckland Airport Community Trust provides assistance to homeowners unable to contribute the remaining 25%



MANA Package Includes
Ventilation, heatpump & rangehood

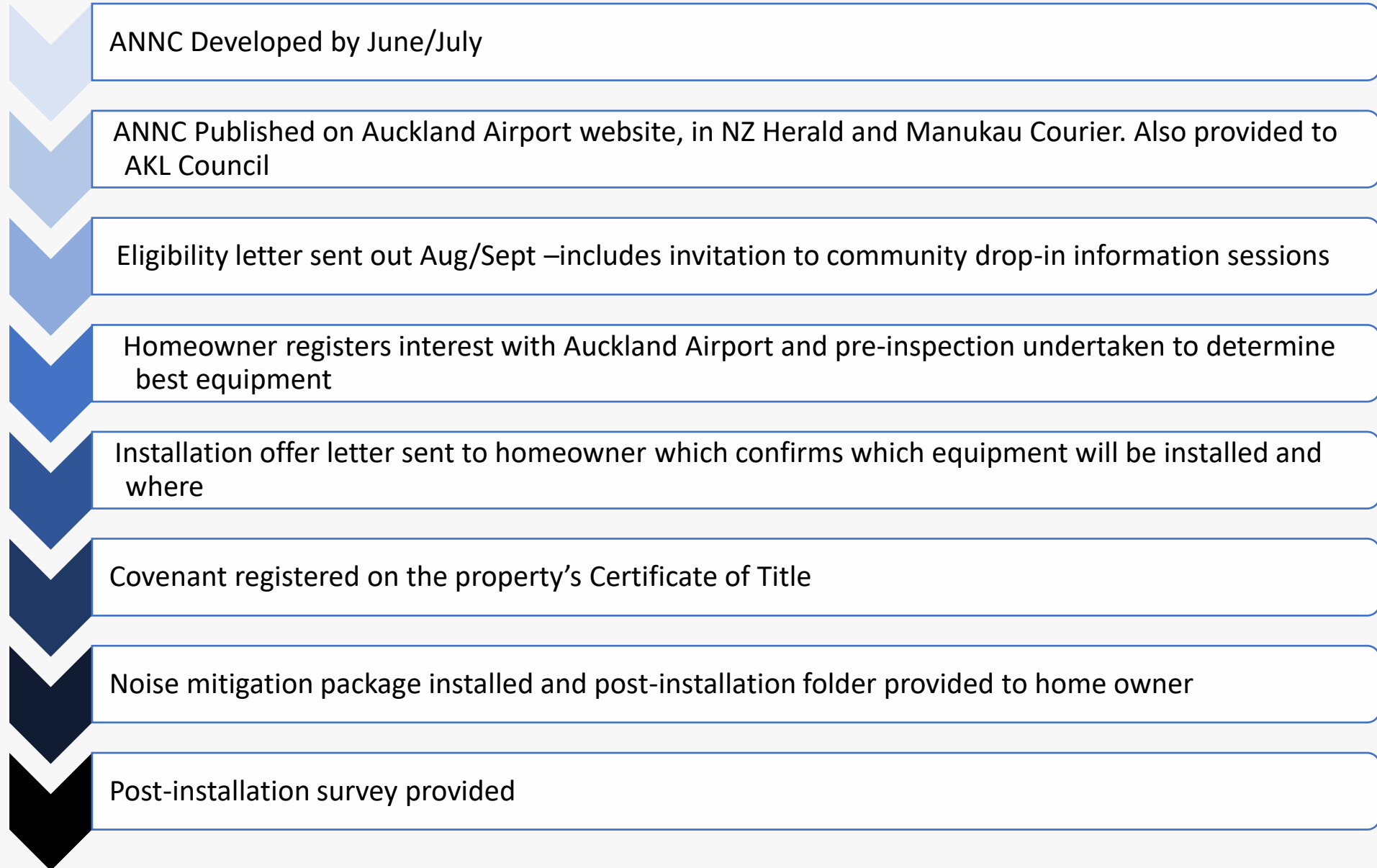
75% subsidised by
Auckland Airport



HANA Package Includes
**Ventilation, heatpump,
rangehood, ceiling insulation and
window/door seals**

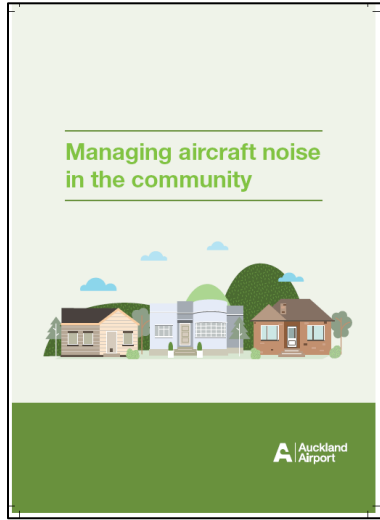
100% subsidised by
Auckland Airport

The Process



Key Collateral

NMP Brochure



Survey

Auckland Airport Noise Mitigation Programme

Feedback Form

Auckland Airport would appreciate your feedback on the Noise Mitigation Programme. By filling in this form you have read and agree to the Terms and Conditions attached.

1. Name:

2. Are you a tenant or homeowner? Please circle: TENANT HOMEOWNER

3. Property Address:

4. What do you think about the application process to get a noise mitigation package from Auckland Airport? (Please Tick)

Great It was a bit effort Neutral It was easy It was great

5. Please explain your rating:

6. How did you hear about the Noise Mitigation Programme?

I received a letter
 I saw it online
 Someone told me about it
 Other (please specify):

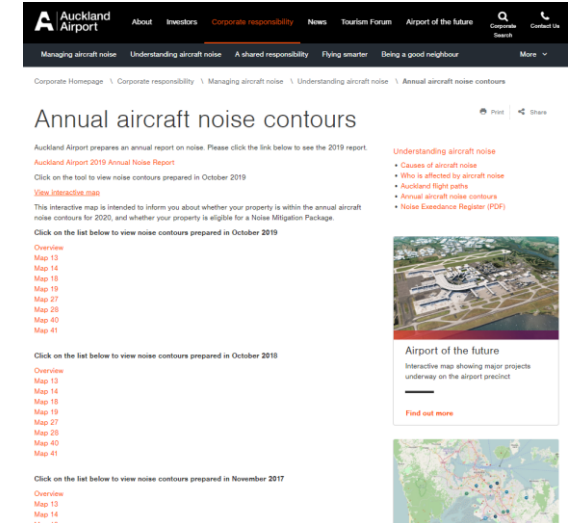
Warranty & Maintenance Information

Product	Warranty	Cleaning and Maintenance	More Info and Indicative Costings
Mitsubishi Electric Heat Pump	5 years - parts and labour	First year filter checks and clean. Thereafter annual service checks. Filters should be checked for dust and dirt build up and cleaned regularly if required, particularly during winter months.	http://www.mitsubishi-elec.co.nz/mitsubishi-warranty-service.pdf Full annual service of the heat pump indoor and outdoor unit \$224 inc GST
Rubbishhood Rangehood	5 years - rangehood parts and fan. Hood fluting and installation - 10 years	Remove filters regularly and wash with soapy water (or dishwasher). Equipment lights/bulbs are available from specialist lighting retailers.	www.robehood.co.nz
Hometech E85 Whole Home Ventilation System	3 years - mechanical fans 10 years - roof fluting and capping	Clean the pre filters once a year. Clean heat recovery core once a year.	www.hometech.co.nz Full annual service, replacement of pre filters, cleaning of heat exchanger core \$224 inc GST
AEDHS SR Positive Pressure Ventilation System	3 years - mechanical fans 10 years - roof fluting and installation	Filter filter to be cleaned or replaced.	www.hometech.co.nz Annual service includes replacement of inline filter \$160 inc GST

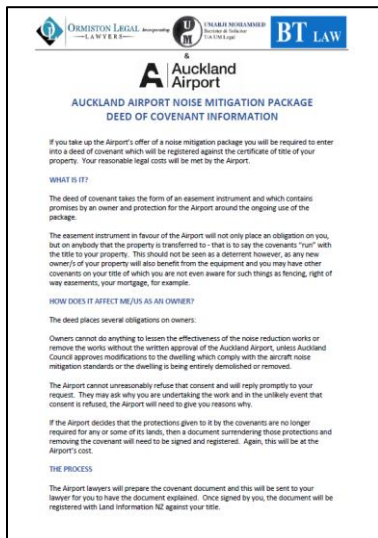
To ensure your Heat Pump, Rangehood and Ventilation System are in optimum condition, it is a warranty requirement to have them serviced and maintained as per the manufacturer's recommendations above.

To book a maintenance appointment, please call 0800 459 465.

Airport Website



Covenant Fact Sheet



Compliance Testing

CONSULTANT ADVICE MARSHALL DAY Acoustics

Project: Auckland Airport Noise Mitigation Verification Document No.: CA 001

To: Auckland International Airport Ltd. Date: 13 September 2019

Attention: Mr Matthew Dugmore Cross Reference:

Delivery: m.dugmore@aucklandairport.co.nz Project No.: 20181512

From: Laurel Smith No. Pages: 2 Attachments: No

CC:

Subject: 2/67 Te Irirangi Drive Verification Measurements

INTRODUCTION
Auckland International Airport Limited (AIAL) has engaged Marshall Day Acoustics (MDA) to measure the sound insulation performance from aircraft at the below address since treatment was installed under the Airport's Noise Mitigation Programme:

Address: 2/67 Te Irirangi Drive, Clover Park, Auckland 2023

Aircraft Noise Area: Moderate (MANA)

Future Aircraft Noise Level: 64 - 65 dB L_A

DWELLING DESCRIPTION
The property is a single level duplex with three bedrooms and an open plan living/dining room. We observed the following construction materials during the verification measurements on Thursday 1 August 2019:

Roofing/Ceiling: Fitted roof with pressed metal tile roofing. Kingspan batts ceiling insulation. Flat ceiling of plasterboard (partboard in bedroom 3).

Walls: Fibre-cement weatherboard on timber framing and plasterboard internal brags.

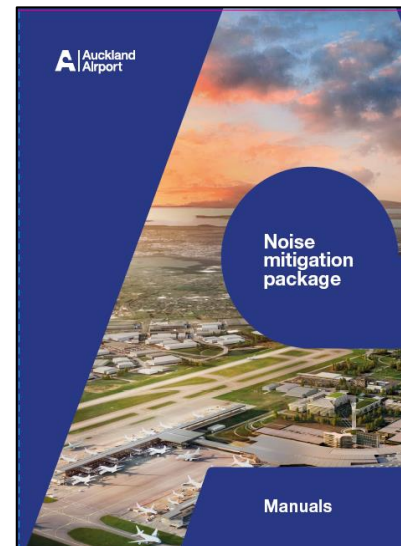
Joinery: Aluminium joinery with 6.5mm single glazing. Latches and seals generally in good condition.

TREATMENT DESCRIPTION
This property is inside the MANA and therefore the noise mitigation treatment included a ventilation system for habitable rooms and a heat pump in the main living space. The existing ducted range hood was not replaced at the owner's request.

The Noise Mitigation Programme does not define a sound insulation performance standard for houses in the MANA. Houses in the High Aircraft Noise Area (HANA) have a design criterion of 40 dB L_A in habitable rooms. In both the HANA and the MANA, ventilation systems are subject to noise performance standards.

MEASUREMENT RESULTS
We carried out measurements of aircraft flyovers simultaneously indoors and outdoors with doors and windows closed to determine the sound insulation performance of the house. We measured on Thursday 1 August between 9:00am and 11:00am, capturing 10 turbo-prop and four jet aircraft annual flyovers.

Post Installation Folder



Translated Documents

DATE: **INSERT DATE DETAILS**

INSERT ADDRESS DETAILS
 INSERT ADDRESS DETAILS
 INSERT ADDRESS DETAILS

建议书号码: 10682

尊敬的 **INSERT NAME**

地址: **INSERT ADDRESS**

全套房屋静音改造建议书

尊敬的 **INSERT NAME** 地址: **INSERT ADDRESS**

奥克兰机场向您提供机会，减少飞机噪音对您房屋内部的干扰。

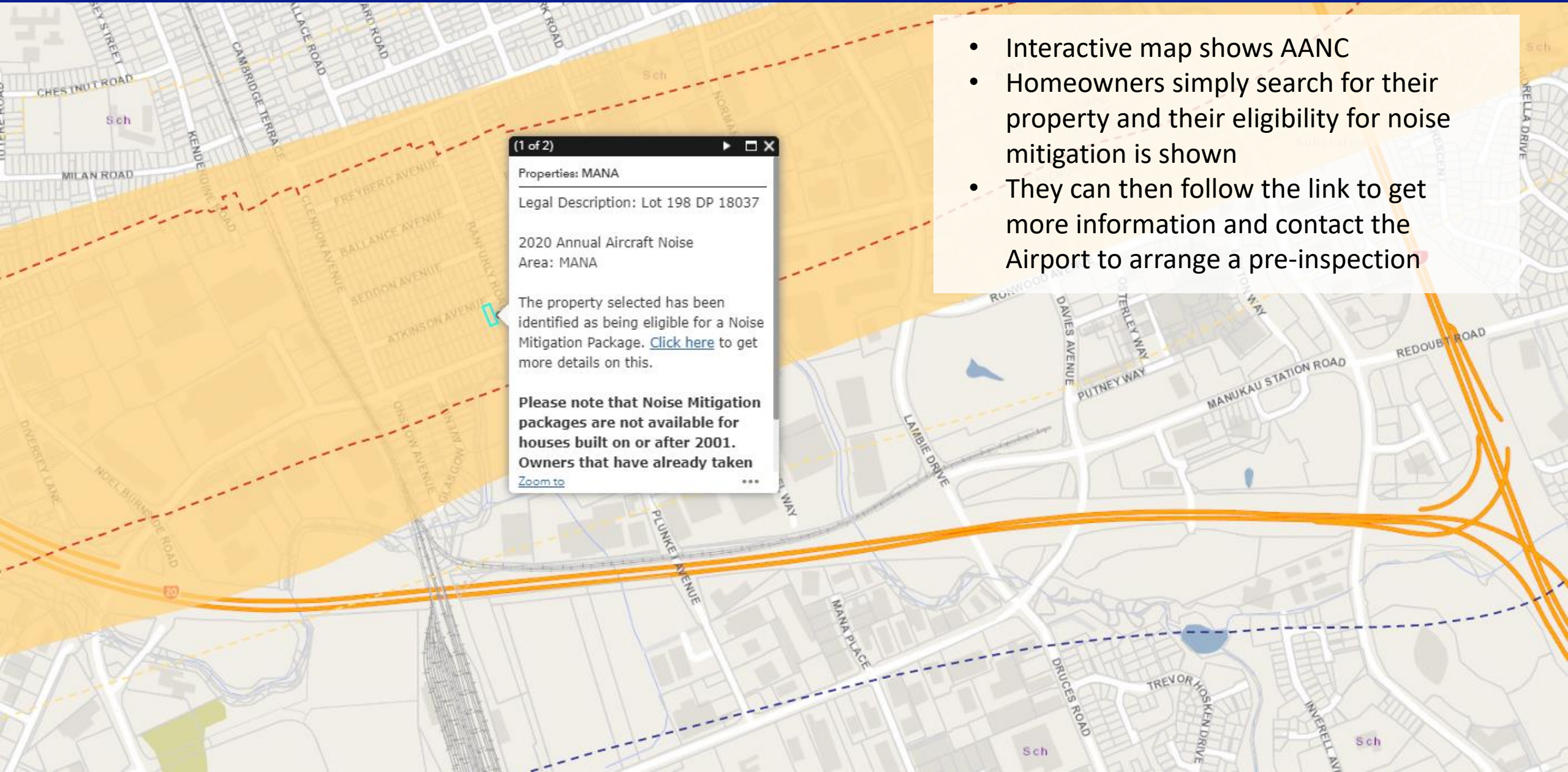
这些条件的目的，是告知：您的房屋符合条件，可以进行全套房屋静音改造，费用 100% 由机场承担。原因是，您的房屋属于 2001 年 12 月 10 日之前，而且位于“飞机噪音敏感区域”以及“55 dB L_A 年度飞机噪音轮廓”范围内。这意味着，您的房屋必须在高强度飞机噪音之下。

奥克兰机场开发了这个全套房屋静音改造项目，其中包括：天花板吸音板；一套将新鲜空气送入室内的通风系统；一个热泵，具有制热或制冷功能；一个厨房排气扇，用于去除烹饪散发的气味。全套改造完成后，能让您在产生全部关闭情况下，还能保持居家健康。

如果您愿意接受这个提议，奥克兰机场需要在安装前，为您的房屋安排一次检查，确定适合的房屋静音改造方案，以及改造方式。检查完成后，我们会为您提供一份正式的建议书，包括全套改造的细节，以及提议书的相关条款条件。

如果您选择接受这个提议，您需要跟奥克兰机场签订一份协议，针对您的房屋订立一个相关改造合约。确认全套静音改造完工，并经奥克兰机场书面同意，不得解除。我们建议签订此文件，寻求相关法律建议。奥克兰机场会为此支付合理的补偿，额度为 \$250。这封信件后面附上了一份小册子，提供关于安装过程，以及如何接受这些提议的相关信息。

Interactive Map



(1 of 2)

Properties: MANA

Legal Description: Lot 198 DP 18037

2020 Annual Aircraft Noise Area: MANA

The property selected has been identified as being eligible for a Noise Mitigation Package. [Click here](#) to get more details on this.

Please note that Noise Mitigation packages are not available for houses built on or after 2001. Owners that have already taken

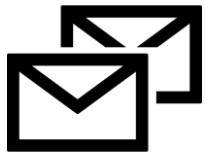
[Zoom to](#) ...

- Interactive map shows AANC
- Homeowners simply search for their property and their eligibility for noise mitigation is shown
- They can then follow the link to get more information and contact the Airport to arrange a pre-inspection

Awareness Campaign

- Auckland Airport has an ongoing committed to raise awareness of the Noise Mitigation Programme within the community
- An Awareness campaign will be developed and implemented between the March and July 2021 offer rounds

This campaign will look to use various communication methods to ensure a widespread reach and this includes:



Auckland Airport now send offer letters directly to the eligible property address as well as the property owner – this ensures better contact with tenants



Improved look and feel of the offer letter envelope to entice the recipient into opening it



Community notices placed on school and church notice boards and newsletters



Social media posts - Videos - Website Revamp



Send letters to local Property management Services to better reach landlords

Completed for 2022 offer and will be applied to subsequent offers

Development of 2023 awareness collateral (videos etc) underway including website revamp

Airport Noise Community Consultative Group *an update on the planned Northern Runway*

Andrea Marshall – Head of Masterplanning and Sustainability

13 February 2023



Northern Runway

