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## Submission on Proposed Far North District Plan

### Form 5 Submission on publically notified proposal for policy statement or plan, change or variation

*Clause 6 of Schedule 1, Resource Management Act 1991*

**To:** Far North District Council - District Planning

**Date started:** 21/10/2022

This is a submission on the following proposed plan (the **proposal**): Proposed Far North District Plan

**Address for service:**

Anna Clarke  
53B Access Road Kerikeri 0230  
New Zealand  
Email: annabannana53@gmail.com

**Submission on behalf of:**

Please see attached petition and signatories who support dark sky conservation in Northland.

**Attachments:**

petition\_signatures\_jobs\_33804168\_20221021035646.csv

imagejpeg\_2\_2.jpg

Dark Skies Northland Petition Signatures\_1.jpg

Dark Skies Northland Petition Signatures\_2.jpg

Dark Skies Northland Petition Signatures\_3.jpg

Dark Skies Northland Petition Signatures\_4.jpg

Dark Skies Northland Petition Signatures\_7.jpg

Dark Skies Northland Petition Signatures\_6.jpg

Dark Skies Northland Petition Signatures\_5.jpg

Celbrating Matariki - Valuing our dark skies.docx

**I wish to be heard:** Yes

**I am willing to present a joint case:** Yes

Could you gain an advantage in trade competition in making this submission?

- No

Are you directly affected by an effect of the subject matter of the submission that

(a) adversely affects the environment; and

(b) does not relate to trade competition or the effects of trade competition

- Yes

## Submission points

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**Point .**

**Section:** Light

**Sub-section:** Overview

**Provision:**

Artificial lighting performs an important operational and functional role for a range of activities that operate in the District. It enables activities to occur beyond daylight hours, including night time work, recreation, entertainment, and it can assist to improve safety and security for people and property. However, poorly-designed artificial lighting can cause glare or [light spill](#) which can interfere with the use or enjoyment of adjacent properties and create a nuisance to users of adjoining [sites](#) and the transport network. The [light spill](#) can affect people's health and wellbeing, particularly if it causes sleep disturbance. It can also adversely affect people's enjoyment of the night sky affect wildlife such as kiwi, bats, gecko, ruru (morepork) and other nocturnal species including insects.

This chapter contains provisions that apply to artificial lighting. The provisions allow adequate lighting to support activities and enable safety and security while managing potential adverse [effects](#).

**Sentiment:** Support in Part

**Submission:**

Support in part

This information is largely correct and I am pleased to see the council acknowledging the adverse effects that poor artificial lighting can produce.

There is however, also evidence to suggest that poor night time lighting also can worsen safety outcomes - I.e. causing hard shadows and glare that can create blind spots, and that increased night time lighting increases likelihood of activity into the night time hours - including crime, and making targets easier to identify. Several studies showing this are referenced at: <https://www.darksky.org/light-pollution/lighting-crime-and-safety/>

**Relief sought**

S563.001

Include comment that poorly designed night time lighting can have adverse effects on safety.

Include a comment as to the significant natural and cultural heritage value of clear night sky observation to our region.

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**Point .**

**Section:** Light

**Sub-section:** Standards

**Provision:**

**Mixed Use zone**

**Light Industrial zone**

**Heavy Industrial zone**

**Horticulture Processing zone**

**Orongo Bay zone**

**Quail Ridge zone**

**General Residential zone**

**Kororāreka Russell Township**

**Settlement zone**

**Rural Residential zone**

**Open Space zone**

The maximum level of [light spill](#) when measured at a distance of 2m or greater from the [boundary](#) of any [receiving site](#), or where any part of the [building](#) located within a [receiving site](#) is within 2m of the [boundary](#) of that [site](#), when measured at the exterior surface of any window of any [habitable room](#), must not exceed:

1. 10 lux (in both the horizontal and vertical planes) within any General Residential, Rural Residential, Settlement, and Quail Ridge zones;
2. 20 lux (in both the horizontal and vertical planes) within the Mixed Use, Light Industrial, Heavy Industrial, Horticulture Processing, Orongo Bay, Open Space, and Sport and Active Recreation zones.

**Matters of discretion are restricted to:**

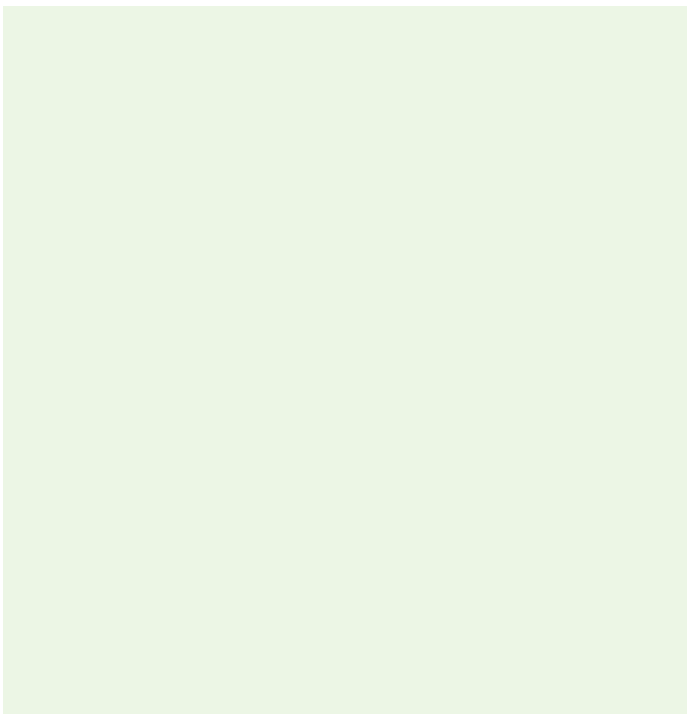
- a. whether artificial lighting is for operation or functional purposes;
- b. whether timing, duration, direction, intensity, focus, design, [height](#), or type of lighting contributes to avoidable or unnecessary [light spill](#);
- c. adverse [effects](#) on the predominant character and amenity of the surrounding area;
- d. adverse [effects](#) on the health, safety and wellbeing of people and communities in the surrounding area, including the transport network; and
- e. the extent to which [light spill](#) or glare affects residential properties, including [outdoor living space](#) and/or has the potential to result in sleep disturbance.

**Sport and Active Recreation zone**

**Hospital zone**

**Ngawha Innovation and Enterprise Park zone**

**Airport zone**



**Sentiment:** Support in Part

**Submission:**

It is great to see the council adopting concrete standards for light pollution control, and setting policy goals that aim to minimise unintended and adverse effects.

However - the concrete standards as recommended here in the proposed plan are not likely to meet the policy goals, nor minimise adverse effects.

Best practice lighting guidelines show ideal lighting values generally an order of magnitude lower than those recommended here.

As per:

IDA-IES Model Lighting Ordinance - Lighting Ordinance Task Force - Cambridge Massachusetts 2011 (International Dark Skies Association, Illuminating Engineering Society)

See Lighting Zones 0,1, and 2 ( relevant to Northland's rural and small towns characteristics)

**Table F Maximum Vertical Illuminance at any point in the plane of the property line**

| Lighting Zone 0    | Lighting Zone 1   | Lighting Zone 2   | Lighting Zone 3   | Lighting Zone 4    |
|--------------------|-------------------|-------------------|-------------------|--------------------|
| 0.05 FC or 0.5 LUX | 0.1 FC or 1.0 LUX | 0.3 FC or 3.0 LUX | 0.8 FC or 8.0 LUX | 1.5 FC or 15.0 LUX |

| Zone | Recommended Uses or Areas   | Zoning Considerations  |
|------|---|--|
| LZ-0 | Lighting Zone 0 should be applied to areas in which permanent lighting is not expected and when used, is limited in the amount of lighting and the period of operation. LZ-0 typically includes undeveloped areas of open space, wilderness parks and preserves, areas near | Recommended default zone for wilderness areas, parks and preserves, and undeveloped rural areas. |

|             |   |  |
|-------------|---|--|
|             | astronomical observatories, or any other area where the protection of a dark environment is critical. Special review should be required for any permanent lighting in this zone. Some rural communities may choose to adopt LZ-0 for residential areas.   | Includes protected wildlife areas and corridors.   |
| <b>LZ-1</b> | Lighting Zone 1 pertains to areas that desire low ambient lighting levels. These typically include single and two family residential communities, rural town centers, business parks, and other commercial or industrial/storage areas typically with limited nighttime activity. May also include the developed areas in parks and other natural settings. | <b>Recommended default zone for rural and low density residential areas.</b><br>Includes residential single or two family; agricultural zone districts; rural residential zone districts; business parks; open space include preserves in developed areas. |

## II. LIGHTING ZONES (cont.) - User's Guide

| Zone        | Recommended Uses or Areas  | Zoning Considerations  |
|-------------|--|--|
| <b>LZ-2</b> | Lighting Zone 2 pertains to areas with moderate ambient lighting levels. These typically include multifamily residential uses, institutional residential uses, schools, churches, hospitals, hotels/motels, commercial and/or businesses areas with evening activities embedded in predominately residential areas, neighborhood serving recreational and playing fields and/or mixed use development with a predominance of residential uses. Can be used to accommodate a district of outdoor sales or industry in an area otherwise zoned LZ-1. | <b>Recommended default zone for light commercial business districts and high density or mixed use residential districts.</b><br>Includes neighborhood business districts; churches, schools and neighborhood recreation facilities; and light industrial zoning with modest nighttime uses or lighting requirements. |
| <b>LZ-3</b> | Lighting Zone 3 pertains to areas with moderately high lighting levels. These typically include commercial corridors, high intensity suburban commercial areas, town centers, mixed use areas, industrial uses and shipping and rail yards with high night time activity, high use recreational and playing fields, regional shopping malls, car dealerships, gas stations, and other nighttime active exterior retail areas.  | <b>Recommended default zone for large cities' business district.</b><br>Includes business zone districts; commercial mixed use; and heavy industrial and/or manufacturing zone districts.  |
| <b>LZ-4</b> | Lighting zone 4 pertains to areas of very high ambient lighting levels. LZ-4 should only be used for special cases and is not appropriate for most cities. LZ-4 may be used for extremely unusual installations such as high density entertainment districts, and heavy industrial uses.   | <b>Not a default zone.</b><br>Includes high intensity business or industrial zone districts.   |

### Relief sought

Council to adopt lighting standards in line with international best practice, as given above - that are therefore able to achieve the policy objectives.

Point .

Section: Light

Sub-section: Standards

Provision:

**Rural Production zone** The maximum level of [light spill](#) measured at the [notional boundary](#) of any habitable [building](#) located within the Rural production, Rural Lifestyle, Horticulture zone, Māori Purpose, Kauri Cliffs or Natural Open Space zones must not exceed:

**Rural Lifestyle zone** 1. 10 lux (in both vertical and horizontal planes).

**Horticulture zone**

**Māori Purpose zone**

**Kauri Cliffs zone**

**Natural Open Space zone**

**Matters of discretion are restricted to:**

- a. whether artificial lighting is for operation or functional purposes;
- b. whether timing, duration, direction, intensity, focus, design, [height](#), or type of lighting contributes to avoidable or unnecessary [light spill](#);
- c. adverse [effects](#) on the predominant character and amenity of the surrounding area, including views and enjoyment of the night sky;
- d. adverse [effects](#) on the health, safety and wellbeing of people and communities in the surrounding area, including the transport network; and
- e. the extent to which [light spill](#) or glare affects residential properties, including [outdoor living space](#) and/or has the potential to result in sleep disturbance.

**Sentiment:** Support in Part

**Submission:**

It is great to see the council adopting concrete standards for light pollution control, and setting policy goals that aim to minimise unintended and adverse effects.

However - the concrete standards as recommended here in the proposed plan are not likely to meet the policy goals, nor minimise adverse effects.

Best practice lighting guidelines show ideal lighting values generally an order of magnitude lower than those recommended here.

As per:

IDA-IES Model Lighting Ordinance - Lighting Ordinance Task Force - Cambridge Massachusetts 2011 (International Dark Skies Association, Illuminating Engineering Society)

See Lighting Zones 0,1, and 2 ( relevant to Northland's rural and small towns characteristics)

### **Table F Maximum Vertical Illuminance at any point in the plane of the property line**

| Lighting Zone 0    | Lighting Zone 1   | Lighting Zone 2   | Lighting Zone 3   | Lighting Zone 4    |
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| 0.05 FC or 0.5 LUX | 0.1 FC or 1.0 LUX | 0.3 FC or 3.0 LUX | 0.8 FC or 8.0 LUX | 1.5 FC or 15.0 LUX |

| Zone | Recommended Uses or Areas   | Zoning Considerations   |
|------|---|---|
| LZ-0 | Lighting Zone 0 should be applied to areas in which permanent lighting is not expected and when used, is limited in the amount of lighting and the period of operation. LZ-0 typically includes undeveloped areas of open space, wilderness parks and preserves, areas near astronomical observatories, or any other area where the protection of a dark environment is critical. Special review should be required for any permanent lighting in this zone. Some rural communities may choose to adopt LZ-0 for residential areas. | Recommended default zone for wilderness areas, parks and preserves, and undeveloped rural areas.<br><br>Includes protected wildlife areas and corridors.  |
| LZ-1 | Lighting Zone 1 pertains to areas that desire low ambient lighting levels. These typically include single and two family residential communities, rural town centers, business parks, and other commercial or industrial/storage areas typically with limited nighttime activity. May also include the developed areas in parks and other natural settings.   | Recommended default zone for rural and low density residential areas.<br><br>Includes residential single or two family; agricultural zone districts; rural residential zone districts; business parks; open space include preserves in developed areas. |

## II. LIGHTING ZONES (cont.) - User's Guide

| Zone | Recommended Uses or Areas  | Zoning Considerations   |
|------|--|---|
| LZ-2 | Lighting Zone 2 pertains to areas with moderate ambient lighting levels. These typically include multifamily residential uses, institutional residential uses, schools, churches, hospitals, hotels/motels, commercial and/or businesses areas with evening activities embedded in predominately residential areas, neighborhood serving recreational and playing fields and/or mixed use development with a predominance of residential uses. Can be used to accommodate a district of outdoor sales or industry in an area otherwise zoned LZ-1. | Recommended default zone for light commercial business districts and high density or mixed use residential districts.<br><br>Includes neighborhood business districts; churches, schools and neighborhood recreation facilities; and light industrial zoning with modest nighttime uses or lighting requirements. |
| LZ-3 | Lighting Zone 3 pertains to areas with moderately high lighting levels. These typically include commercial corridors, high intensity suburban commercial areas, town centers, mixed use areas, industrial uses and shipping and rail yards with high night time activity, high use recreational and playing fields, regional shopping malls, car dealerships, gas  | Recommended default zone for large cities' business district.<br><br>Includes business zone districts; commercial mixed use; and heavy industrial   |

|             |  |   |
|-------------|--|---|
|             | stations, and other nighttime active exterior retail areas.  | and/or manufacturing zone districts.  |
| <b>LZ-4</b> | Lighting zone 4 pertains to areas of very high ambient lighting levels. LZ-4 should only be used for special cases and is not appropriate for most cities. LZ-4 may be used for extremely unusual installations such as high density entertainment districts, and heavy industrial uses. | <p><b>Not a default zone.</b></p> <p>Includes high intensity business or industrial zone districts.</p> |

**Relief sought**

Council to adopt lighting standards in line with international best practice, as given above - that are therefore able to achieve the policy objectives.

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**Point .**

**Section:** Light

**Sub-section:** Policies

**Provision:**

**LIGHT-P1** Provide for the use of artificial lighting that:

- a. allows people and communities to enjoy and use [sites](#) and facilities during night time hours and contributes to the security and safety of private and public spaces;
- b. maintains the character and [amenity values](#) of the zone and surrounding area; and
- c. does not compromise the social, cultural, environmental, and economic wellbeing or health and safety of people and communities, including the transport network.

**Sentiment:** Support

**Submission:**

Support the thoughtful management of light at night.

**Relief sought**

None sought. S563.003

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**Point .**

**Section:** Light

**Sub-section:** Policies

**Provision:**

**LIGHT-P2** Control the intensity, location, and direction of outdoor lighting to:

- a. ensure artificial lighting avoids conflict with existing light sensitive areas, other established uses, and the transport network;
- b. internalises [light spill](#) within the [site](#), and minimises [light spill](#) at the [site boundary](#);
- c. avoid adverse [effects](#) on views of the night sky and intrinsically dark landscapes; and
- d. manage adverse [effects](#) on the health, safety, and wellbeing of people and communities in the surrounding area, unless it is for critical health and safety reasons.



**Sentiment:** Support in Part

**Submission:**

Support the thoughtful management of light at night.

However I would like to see the council adopt standards that will provide clearer guidance and better outcomes to ensure that this provision of the plan is met.

**Relief sought**

S563.004

Adopt standards and guidelines for best practice lighting.

Make reference to:

IDA-IES Model Lighting Ordinance - Lighting Ordinance Task Force - Cambridge Massachusetts 2011 (International Dark Skies Association, Illuminating Engineering Society)

Aoraki Mackenzie Dark Sky Application Document: [https://www.darksky.org/wp-content/uploads/2018/03/Aoraki\\_Mackenzie\\_IDSP\\_Application.pdf](https://www.darksky.org/wp-content/uploads/2018/03/Aoraki_Mackenzie_IDSP_Application.pdf)

Kaikoura lighting guidelines - under development, available upon request.

International Dark Sky Association website: <https://www.darksky.org/our-work/lighting/>

To the Mayor and CEO of Far North District Council  
Far North District Council  
Private Bag 752  
Kaikohe, 0440

## Celebrating Matariki – Valuing Our Dark Skies

An open letter from Anna Clarke (artist), and citizens of Kerikeri

Dear Mr Carter and Mr King,

I am writing to you to present some ideas that I think will make our town and district shine.

As the nation looks to the stars to mark the historic celebration of the first Matariki public holiday, I find it to be perfect timing to write to you on this subject.

As a young person who enjoyed my childhood and high school years in Kerikeri, I have always valued and appreciated the stunning night sky we are able to observe from even the most urban part of our generally rural region. City light pollution seemed unthinkable and sad, and I only learned of it from those who visited and marvelled at what we had.

In my 26 years of watching Kerikeri develop I have seen it become more and more suburban/urban. This is, it seems inevitable. But the way in which we develop is not.

The recent installation of several kilometres of street lighting was surprising to me. It seems to be the opposite of what I think people come here for – what makes it special. Not just the night sky, but the all-around slower, more rural and closer to nature lifestyle.

In other parts of the country Dark Sky sanctuaries and their benefits are gaining in popularity and prominence – Tekapo, Stewart Island and Great Barrier.

And there is good reason for this too.

The problem with light pollution

Artificial night light has been shown to fatally disrupt the patterns of animals, and to negatively impact human health as it reduces melatonin production which can cause sleep deprivation, fatigue, headaches, stress, anxiety, and potentially even cancer. <sup>1</sup>

Outdoor lighting is often installed with safety and wellbeing in mind (pedestrians/cyclists, crime reduction, traffic safety). However, done wrong it can actually have the opposite effect.<sup>2</sup>

Luckily there is evidence suggesting that these things can be achieved without the use of costly street lighting.<sup>3</sup> Around the world there are many examples showing that well angled and positioned lighting can maintain dark skies while providing optimal light for their intended purpose – e.g. safety for walking/cycling, visibility for sporting venues.<sup>4</sup>

What can we do?

For citizens of Kerikeri who enjoy our starry skies:

- close your curtains at night, limit outdoor lighting, and/or opt for designs that are focused beams and downward facing.

For our councillors and policy makers :

- Develop outdoor lighting policy and bylaws.
- Ensure maintaining dark skies is considered when designing and assessing new lighting projects and resource consent applications.
- Celebrate this special characteristic of our region in our identity, publicity and branding.
- Gradually transition existing lighting to dark sky friendly options.
- Agree to transition existing fixtures especially with funds raised by the local community to do so.

I know you want to see the best for Kerikeri as much of any of us – and so I take heart in knowing that you will take these ideas into consideration as you look toward the brightest future of our town and region.

Sincerely sparkingly,

Anna Clarke & the following citizens of Kerikeri:

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<sup>1</sup> [Light Pollution - National Geographic](https://education.nationalgeographic.org/resource/light-pollution) - <https://education.nationalgeographic.org/resource/light-pollution>

<sup>2</sup> [Lighting, Crime and Safety, darksky.org](https://www.darksky.org/light-pollution/lighting-crime-and-safety/) - <https://www.darksky.org/light-pollution/lighting-crime-and-safety/>

<sup>3</sup> [The effect of reduced street lighting on road casualties and crime in England and Wales: controlled interrupted time series analysis](https://jech.bmj.com/content/69/11/1118) - <https://jech.bmj.com/content/69/11/1118>

<sup>4</sup> [Values centered outdoor lighting, darksky.org](https://www.darksky.org/our-work/lighting/values-centered-outdoor-lighting/) - <https://www.darksky.org/our-work/lighting/values-centered-outdoor-lighting/>

| Name                 | City           | State    | Postal Code | Country     | Signed On |
|----------------------|----------------|----------|-------------|-------------|-----------|
| Anna Clarke          | Northland      |          |             | New Zealand | #####     |
| Tracy Clarke         | Kerikeri       |          |             | New Zealand | #####     |
| Tim Morrison         | Kerikeri       |          | 1024        | New Zealand | #####     |
| Jenny Bennett        | Whangarei      |          | 110         | New Zealand | #####     |
| Karen Macneil        | Auckland       |          |             | New Zealand | #####     |
| Sandy Sievers        | kerikeri       |          |             | New Zealand | #####     |
| Rakiura Herzhoff     | Bad Sobernheim |          |             | New Zealand | #####     |
| Eddie Aickin         | Mangonui       |          |             | New Zealand | #####     |
| Elizabeth Manning    | Whangarei      |          | 110         | New Zealand | #####     |
| helen Moorhouse      | Whangarai      |          |             | New Zealand | #####     |
| Megan Tyler          |                |          |             | New Zealand | #####     |
| Hannah Currie        |                |          |             | New Zealand | #####     |
| Jessica Webster      |                |          |             | New Zealand | #####     |
| Galilee Miles        | Matamata       |          |             | New Zealand | #####     |
| Lesley Vincent       |                |          |             | New Zealand | #####     |
| Neil Furness         | Manchester     |          | M4 1LP      | New Zealand | #####     |
| Nic Charrington      |                |          |             | New Zealand | #####     |
| Eliza McCracken      | Rangiora       |          |             | New Zealand | #####     |
| Phoebe Whittam       | Dunedin        |          |             | New Zealand | #####     |
| Jess newton          |                |          |             | New Zealand | #####     |
| Ngawiki-Aroha Rewita |                |          |             | New Zealand | #####     |
| alastor fairhurst    |                |          |             | New Zealand | #####     |
| Styx Morris          | Russell        |          | 272         | New Zealand | #####     |
| Simon Moir           | Marlborough    |          |             | New Zealand | #####     |
| Hannah Gasparini     | Auckland       |          |             | New Zealand | #####     |
| Oceane Maihi         |                |          |             | New Zealand | #####     |
| Terry Taylor         | Auckland       |          |             | New Zealand | #####     |
| Anna Clarke          |                |          |             | New Zealand | #####     |
| Madeline Adams       |                |          |             | New Zealand | #####     |
| Blake Knight         | Auckland       |          |             | New Zealand | #####     |
| Samantha Scahill     | Auckland       |          |             | New Zealand | #####     |
| Debbie Wilson        | Kerikeri       |          |             | New Zealand | #####     |
| Cassy Osokin         | Sydney         |          | 2000        | Australia   | #####     |
| Donadio Cathy        | Auckland       |          |             | New Zealand | #####     |
| Sarah Walling        | Castleton C    | New York | 12033       | US          | #####     |
| Karolina Bujak       |                |          |             | Switzerland | #####     |
| Alec Kennedy         | Northland      |          |             | New Zealand | #####     |
| Philip Wilson        | Kerikeri       |          |             | New Zealand | #####     |
| Sara Legler          |                |          |             | New Zealand | #####     |
| Derek Tearne         | Auckland       |          |             | New Zealand | #####     |
| James Gossage        |                |          |             | New Zealand | #####     |
| Aner Jonas           | Lyon           |          | 69003       | France      | #####     |
| Josh Roberts         | Hamilton       |          |             | New Zealand | #####     |
| Lisa Dippon          |                |          |             | Fiji        | #####     |
| Perrin Lusby Taylor  | Alton          |          | BA4 5JT     | New Zealand | #####     |
| Lindsey Davidson     | Hokianga       |          | 491         | New Zealand | #####     |
| Matthew Scadden      | Lower Hutt     |          |             | New Zealand | #####     |
| Dana Kalasih         | Wellington     |          |             | New Zealand | #####     |
| Nathan Denmark       | Auckland       |          | 626         | New Zealand | #####     |

|                       |                  |            |       |            |       |
|-----------------------|------------------|------------|-------|------------|-------|
| George Weeks          |                  |            |       | New Zealar | ##### |
| Lee Hayward           | Looe             | England    | PL13  | UK         | ##### |
| Matthew Smith         | Dunedin          |            |       | New Zealar | ##### |
| Kymbali Dender        | Tirau            |            | 3410  | New Zealar | ##### |
| karen frederickson    | auckland         |            |       | New Zealar | ##### |
| Hazel Creevey         | Auckland         |            |       | New Zealar | ##### |
| Kimberly Murphy       | Auckland         |            |       | New Zealar | ##### |
| Callum Mowat          | Tauranga         |            |       | New Zealar | ##### |
| Ben Creevey           | Auckland         |            |       | New Zealar | ##### |
| Tessa Lambert         | Auckland         |            |       | New Zealar | ##### |
| Ian creevey           | Whangaparoa      |            | 4877  | New Zealar | ##### |
| Rachael Anderson      | Auckland         |            |       | New Zealar | ##### |
| Beth Scott            | Hobart           |            | 7005  | Australia  | ##### |
| Terilee van Reenen    | Auckland         |            |       | New Zealar | ##### |
| Steve Wilson          | Auckland         |            | 4000  | New Zealar | ##### |
| lucy morgan           |                  |            |       | New Zealar | ##### |
| chester Hall-Fernande | Wellington       |            | 6011  | New Zealar | ##### |
| Gaspar Bakos          | Princeton        | New Jersey | 8540  | US         | ##### |
| Paul Beach            |                  |            |       | New Zealar | ##### |
| Otto Gruebl           | Whangarei        |            | 112   | New Zealar | ##### |
| Dawn Lee              |                  |            |       | New Zealar | ##### |
| Sam M                 | Auckland         |            | 1148  | New Zealar | ##### |
| Alicia Walker         | Paralowie        |            | 5108  | Australia  | ##### |
| Suhani Jagpal         | Adelaide         |            | 5001  | Australia  | ##### |
| Sarah Ryan            | Adelaide         |            | 5001  | Australia  | ##### |
| Nisrina Muzakkir      | Sydney           |            | 2179  | Australia  | ##### |
| Patricia Fares        | Parramatta       |            | 2150  | Australia  | ##### |
| Braydon Sparrow       | Brisbane         |            | 4000  | Australia  | ##### |
| Khambia Clarkson      | Marshalltown     |            | 50158 | Australia  | ##### |
| Kylie Sandersan       | Sydney           |            | 2000  | Australia  | ##### |
| reuben kaitira        |                  |            | 4817  | Australia  | ##### |
| Henry Owen            | Brisbane         |            | 4030  | Australia  | ##### |
| Mikaela Hannen        | Nelson           |            | 8011  | New Zealar | ##### |
| Valeria Toader        |                  |            |       | New Zealar | ##### |
| cortez hall           | Auckland         |            |       | New Zealar | ##### |
| Cameron Munro         | Brisbane         |            | 4000  | Australia  | ##### |
| mackenzie             |                  |            |       | New Zealar | ##### |
| Elsie Veronica Flor   | Canberra         |            | 2612  | Australia  | ##### |
| Rohit Vig             | Auckland         |            |       | New Zealar | ##### |
| kaihautū heron        |                  |            |       | New Zealar | ##### |
| Dannielle Townsend    | Auckland         |            | 1010  | New Zealar | ##### |
| Suzy Collings         |                  |            |       | New Zealar | ##### |
| William Hall          |                  |            |       | New Zealar | ##### |
| Courtney Pratt-Young  | Auckland         |            |       | New Zealar | ##### |
| Andrew McGlashan      |                  |            | 3134  | Australia  | ##### |
| Larisa Richards       | Blacktown        |            | 2148  | Australia  | ##### |
| Lynn Lawton           |                  |            |       | New Zealar | ##### |
| Olivia Preddy         | Palmerston North |            |       | New Zealar | ##### |
| Amelia Faalave        |                  |            |       | New Zealar | ##### |
| Amy Renehan           | Melbourne        |            | 3000  | Australia  | ##### |

|                      |              |       |            |       |
|----------------------|--------------|-------|------------|-------|
| Jess S               | Melbourne    | 3000  | Australia  | ##### |
| Les Thurgood         | Woodend      | 3442  | Australia  | ##### |
| Bill Goodall         | Rotorua      |       | New Zealar | ##### |
| Olivia Malamatenios  | Auckland     |       | New Zealar | ##### |
| Darrell Foote        | Adelaide     | 5033  | Australia  | ##### |
| Glenys Dean          | Brisbane     | 4000  | Australia  | ##### |
| Gaye Mallinson       | Wellington   | 2241  | New Zealar | ##### |
| Carmen Hausler       | Hastings     | 4130  | New Zealar | ##### |
| Jill Garrett         |              |       | New Zealar | ##### |
| Matthew Reading      | Wellington   | 5024  | New Zealar | ##### |
| Peter de Burgh-Thoma | Christchurch |       | New Zealar | ##### |
| Antony Gomez         | Lower Hutt   |       | New Zealar | ##### |
| Paul Grace           |              |       | New Zealar | ##### |
| naska borlase        | christchurch | 8972  | New Zealar | ##### |
| Rongo Bentson        | Kaitaia      |       | New Zealar | ##### |
| Jane Leblanc         | Christchurch |       | New Zealar | ##### |
| Abby McMenemy        |              |       | New Zealar | ##### |
| Pennie Deale         |              | 6753  | Australia  | ##### |
| Liam Tregaskis       | Macclesfield | 5153  | Australia  | ##### |
| Ryanne Haika         | Auckland     | 1150  | New Zealar | ##### |
| Aaron Poroa-Simmons  | Pukekohe     |       | New Zealar | ##### |
| Jenni Hukka          | Helsinki     | 730   | Finland    | ##### |
| Jasmine Castle       | Auckland     |       | New Zealar | ##### |
| Rene Astle           | Auckland     |       | New Zealar | ##### |
| brayden crawford     |              |       | New Zealar | ##### |
| Ben Woffindin        | Auckland     |       | New Zealar | ##### |
| David Tilley         | Gore         |       | New Zealar | ##### |
| Janie Cinzori        | Omapere      | 49033 | New Zealar | ##### |
| Evangelique Karena   | Tauranga     |       | New Zealar | ##### |
| Oscar heaslip        |              |       | New Zealar | ##### |
| Hannah B             | Christchurch |       | New Zealar | ##### |
| Joanne Robertson     | Upper Hutt   | 5011  | New Zealar | ##### |
| Yvonne Bu            | Auckland     | 1010  | New Zealar | ##### |
| Meg Roberts          | Rangiora     |       | New Zealar | ##### |
| Paul Lunken          | Napier.      |       | New Zealar | ##### |
| Zahra Soleimani      | Wellington   | 6011  | New Zealar | ##### |
| Mitra Mohamadi Dare  | Dunedin      |       | New Zealar | ##### |
| parastoo khajeaian   | Wellington   | 8041  | New Zealar | ##### |
| Samaneh Dehghani     | Wellington   |       | New Zealar | ##### |
| Bobby Roberts        |              |       | New Zealar | ##### |
| Tewira Tipoki        | Gold Coast   | 4220  | New Zealar | ##### |
| Zamil Ali            | Auckland     |       | New Zealar | ##### |
| Emily Faleafa        | Auckland     |       | New Zealar | ##### |
| Murray Dunn          | Kerikeri     | 230   | New Zealar | ##### |
| Simon Upperton       | Kerikeri     |       | New Zealar | ##### |
| Penny Kennedy        | Auckland     |       | New Zealar | ##### |
| Chris Winch          | Melbourne    | 3754  | Australia  | ##### |
| Tomas Blazek         | Otautau      |       | New Zealar | ##### |
| Kelcey Chandler      |              |       | New Zealar | ##### |
| Chris Kaz            |              |       | Australia  | ##### |

|                     |                          |         |          |            |       |
|---------------------|--------------------------|---------|----------|------------|-------|
| Elly Neilsen        |                          |         | 2088     | Australia  | ##### |
| Dusanka Sivcevic    | Blaxland East            |         | 2774     | Australia  | ##### |
| Suchitra V          | Melbourne                |         | 3000     | Australia  | ##### |
| Katina Baker        |                          |         | 2229     | Australia  | ##### |
| Dara Knezevic       | Adelaide                 |         | 5033     | Australia  | ##### |
| Kyra Xavia          |                          |         |          | New Zealar | ##### |
| Elaine Whitmore     | Perth                    |         | 6065     | Australia  | ##### |
| Kim Wesney          | Auckland                 |         | 1024     | New Zealar | ##### |
| Jared Barry         | Paraparaumu              |         |          | Fiji       | ##### |
| ROBYN URQUHART      | RD2 Dunedin              |         | 9077     | New Zealar | ##### |
| Bronwyn Lee         | Kerikeri                 |         | 293      | New Zealar | ##### |
| Tara Penney         | Whangarei                |         | 110      | New Zealar | ##### |
| Brandy Smith        |                          |         |          | New Zealar | ##### |
| E Fladgate          | Kerikeri                 |         |          | New Zealar | ##### |
| Amir Seyyed         | Sydney                   |         | 2000     | Australia  | ##### |
| Noah Dunn           | Warkworth                |         |          | New Zealar | ##### |
| Sean Smith          | Palmerston North         |         | 4412     | New Zealar | ##### |
| Paul Marchant       | Leeds                    | England | LS6 3EZ  | UK         | ##### |
| St Brian            | Miami                    | Florida | 33155    | US         | ##### |
| Alix Abanda         | Hastings                 |         |          | New Zealar | ##### |
| Helen Buick         |                          |         | 2122     | Australia  | ##### |
| Wan Hui             | Sydney                   |         | 2000     | Australia  | ##### |
| Rebecca Purse       | Newcastle                |         | 2300     | Australia  | ##### |
| Colette Doughty     | Christchurch             |         | 8052     | New Zealar | ##### |
| Loris Kingcott      | Ryde                     |         | 2112     | Australia  | ##### |
| Son Jons            | Sydney                   |         | 4000     | Australia  | ##### |
| Krystal Sasaki      | Brisbane                 |         | 4000     | Australia  | ##### |
| James Pedrocchi     |                          |         | 5006     | Australia  | ##### |
| Olivia Plunkett     | Sydney                   |         | 2220     | Australia  | ##### |
| Mohammadreza Rezaei | Sydney                   |         | 2000     | Australia  | ##### |
| Bengt Davidsson     |                          |         | 4124     | Australia  | ##### |
| Tyler joosten       | Melbourne                |         | 3000     | Australia  | ##### |
| Sandra Murphy       | Perth                    |         | 6000     | Australia  | ##### |
| Mihai Cuiibus       | Cluj-napoca              |         |          | Romania    | ##### |
| Lucy D              |                          |         | 2615     | Australia  | ##### |
| Michael Hayward     |                          |         | 4179     | Australia  | ##### |
| Colin Henshaw       | Bowdon                   | England | WA14 3EU | UK         | ##### |
| Patrick Eid         | Illawong                 |         | 2234     | Australia  | ##### |
| Kelly Archer        | Biên Hòa                 |         |          | New Zealar | ##### |
| Peter White         | Auckland                 |         |          | New Zealar | ##### |
| Peter Trevelyan     | Auckland                 |         | 2903     | New Zealar | ##### |
| Philippe Gerbeaux   | Christchurch             |         | 8024     | New Zealar | ##### |
| Jade Oconnell       | Auckland                 |         |          | New Zealar | ##### |
| Samantha Moore      | Kerikeri                 |         |          | New Zealar | ##### |
| Asha Andersen       | Kerikeri, Bay of Islands |         | 880      | New Zealar | ##### |
| Cheryl Fraser       |                          |         |          | New Zealar | ##### |
| Megan Bentley       |                          |         |          | New Zealar | ##### |
| Kirsty Grant        |                          |         |          | New Zealar | ##### |
| Holly Kennedy       | Wellington               |         |          | New Zealar | ##### |
| Garry Wheeler       | Sydney                   |         | 2000     | Australia  | ##### |

|                        |                    |       |            |       |
|------------------------|--------------------|-------|------------|-------|
| Jess Sweeney           |                    |       | New Zealar | ##### |
| Amy Menard             | Twiz               |       | New Zealar | ##### |
| alan starrat           | Dunedin            | 9010  | New Zealar | ##### |
| Jordi Blasco           | Auckland           | 8213  | New Zealar | ##### |
| Kate phillips          | Auckland           | 1041  | New Zealar | ##### |
| Anna Dunford           | Auckland           | 441   | New Zealar | ##### |
| Anna Levin             | Falkirk            | Fk2   | UK         | ##### |
| Mark Baker             | Beaverton Oregon   | 97520 | US         | ##### |
| Shona Hastie           | Edinburgh          | EH7   | UK         | ##### |
| Tanya Didham           | Christchurch       | 8061  | New Zealar | ##### |
| Hannah Gerrish         | Seattle Washington | 98103 | US         | ##### |
| Kat McAra              | Christchurch       | 8083  | New Zealar | ##### |
| Mel McMinn             | Whangarei          | 405   | New Zealar | ##### |
| Lorraine Lowe          | Christchurch       |       | New Zealar | ##### |
| Sally McAra            | Auckland           | 1022  | New Zealar | ##### |
| Linus Molteno          |                    |       | New Zealar | ##### |
| Helen Winter           | RD 2 Kaitaia 0482  | 4019  | New Zealar | ##### |
| Lyn Vos                | Auckland           |       | New Zealar | ##### |
| Sabine Frank           | Flieden            | 36103 | Germany    | ##### |
| Giselle Damm           |                    |       | New Zealar | ##### |
| Tracy Thomassen        | Melbourne          | 3029  | Australia  | ##### |
| Ingrid Clare           | Brisbane           | 4171  | Australia  | ##### |
| Mykah Drake            | Auckland           |       | New Zealar | ##### |
| Joanna Druzicka        | Hamilton           |       | New Zealar | ##### |
| Lynne Roberts          | Masterton          | 5810  | New Zealar | ##### |
| Adam Lee               | Kerikeri           |       | New Zealar | ##### |
| Ben Cathie             | Wellington         |       | New Zealar | ##### |
| Nevaeh Corneby         | Brisbane           | 4018  | Australia  | ##### |
| Callum Robertson-Barri | Kerikeri           |       | New Zealar | ##### |
| Lorraine Bartlett      | Chiswick           | 3806  | Australia  | ##### |
| Mahshid Mirzaeian      | Sydney             | 2000  | Australia  | ##### |
| Naz S                  | Brisbane           | 4000  | Australia  | ##### |
| Katie Osmialowski      | Canberra           | 2601  | Australia  | ##### |
| Michael Crabbe         |                    | 6230  | Australia  | ##### |
| Dyna Aplin             |                    | 4818  | Australia  | ##### |
| Rita Baker             | Russell            |       | New Zealar | ##### |
| Kayne Tatnell          | Kaitaia            |       | New Zealar | ##### |
| Jonty White            |                    |       | New Zealar | ##### |
| Matt Couldrey          | Invercargill       |       | New Zealar | ##### |
| Jason Ware             | Auckland           |       | New Zealar | ##### |
| Kim Robertson-Barnes   | Auckland           |       | New Zealar | ##### |
| Andrew Souter          | Mt Maunganui       | 3116  | New Zealar | ##### |
| Bruce Mansell          | Tauranga           |       | New Zealar | ##### |
| Mohsen Yazdani         | Sydney             | 2067  | Australia  | ##### |
| Mary Re                | Melbourne          | 3004  | Australia  | ##### |
| Faeze Omidvar          | Sydney             | 2000  | Australia  | ##### |
| Ted Taylor             | Wellington         |       | Ireland    | ##### |
| Nic Charrington        |                    |       | New Zealar | ##### |
| Amandus Bookless       | auckland           |       | New Zealar | ##### |
| Nici Curtis            | Whangarei          |       | New Zealar | ##### |



|                       |               |             |                       |
|-----------------------|---------------|-------------|-----------------------|
| Janet Horn            | Kerikeri      |             | New Zealar #####      |
| Margaret Fitzpatrick  | Auckland      | New Zealand | 600 New Zealar #####  |
| Dominique Zivkovich-E | Auckland      |             | New Zealar #####      |
| Hilary Hilary         | Auckland      |             | New Zealar #####      |
| Simon Hill            | Dunedin       |             | New Zealar #####      |
| Camilla Bergman       | Auckland      |             | New Zealar #####      |
| Constance McMillan    | whangarei     |             | 178 New Zealar #####  |
| Helen Maddox          | wellington    |             | New Zealar #####      |
| Fiona James           | Dunedin       |             | New Zealar #####      |
| Louise Navarro        | Kerikeri      | PE31 7PY    | New Zealar #####      |
| Kristine Kerr         | Auckland      |             | New Zealar #####      |
| Nicki McInnes         | Kerikeri      |             | New Zealar #####      |
| Lucy Dodds            | Dunedin       |             | New Zealar #####      |
| Christine Hawthorn    | Whangarei     |             | 110 New Zealar #####  |
| Izabela Sarnicka      |               |             | New Zealar #####      |
| Craig Smith           | Roxburgh Park |             | 3064 Australia #####  |
| Imogen Van Pierce     | Dunedin       |             | 9010 New Zealar ##### |
| Troy Heck             | Oxford        | Michigan    | 48371 US #####        |
| Bridget Crooks        | Northland     |             | New Zealar #####      |
| Zita Katkovcinova     | Kerikeri      |             | New Zealar #####      |
| Peter Gasparini       |               |             | New Zealar #####      |
| Evelyn B              | Melbourne     |             | 3000 Australia #####  |
| Cam Watson            | Lower Hutt    |             | 5010 New Zealar ##### |
| Vanessa Martinovich   | Auckland      |             | New Zealar #####      |
| Jack Purvis           |               |             | New Zealar #####      |
| Jin Pho               | New Zealand   |             | 310 New Zealar #####  |
| T C                   |               |             | New Zealar #####      |
| Rose Dohig            | Wellington    |             | New Zealar #####      |
| Brons Gerrish         | Fairbanks     | Alaska      | 99709 US #####        |
| Georgia Bryan         | Waitakere     |             | New Zealar #####      |
| Ella Lawton           | Invercargill  |             | New Zealar #####      |