

# 14C Noise

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## Introduction

Noise has generally been accepted as unwanted sound. Noise can have both psychological as well as physiological effects on people. At the least, noise may be annoying, at worst excessive noise may cause damage to hearing and permanent changes in health. Across all activity areas noise can adversely affect amenity values.

Ambient noise surveys have been carried out throughout the City. The data obtained from these surveys has been utilised to establish rules. The concept of "noise areas" has been the basis of these rules in all residential activity areas. In other activity areas surveys and rules have been based on the individual locations.

## 14C 1 Issue, Objective and Policies

### 14C 1.1 Maintaining or Enhancing Health and Amenity Values

#### Issue

**Noise can adversely affect health and amenity values in all activity areas. It is necessary to determine and establish noise levels that maintain or enhance health and amenity values.**

#### Objective

To maintain or enhance the amenity value of all activity areas by ensuring that the adverse effects of excessive noise on the environment are avoided or mitigated.

#### Policies

- (a) To recognise that background noise levels are markedly different throughout the City.
- (b) To recognise that acceptable noise levels will vary according to the nature of the principal activities occurring within activity areas.
- (c) To ensure that residential activity areas are protected by establishing appropriate noise levels at the interface between residential activity areas and non residential activity areas.
- (d) That maximum noise levels are established within each activity area to ensure that amenity values are protected.
- (e) To make provision for those situations where there has already been considerable history to the establishment of specified noise conditions.
- (f) To recognise that noise levels may be different through a construction phase.
- (g) To recognise that Noise Management Plans may be appropriate to manage matters beyond those addressed in this District Plan.

## Explanation and Reasons

Excessive noise is the most commonly experienced nuisance.

There is an explicit responsibility in the Act that noise not exceed a reasonable level (Section 16). The duty to avoid unreasonable noise falls on every individual and is regardless of any requirements placed through District Plans or resource consents. That there is such an explicit responsibility reflects the extent to which the creation of unreasonable noise is seen as an adverse effect on the environment. In addition the Act sets out very specific procedures for situations involving excessive noise.

The approach adopted in the Plan balances the desirability of having certainty for both developers and neighbours while also taking into account the background noise levels. Four "noise areas" have been identified and are the basis of rules in the residential activity areas. Specific conditions have been developed for other activity areas.

Noise associated with construction is of a temporary nature and often out of character with the noise levels which would normally be expected of the locality. NZS 6803P:1984 The Measurement and Assessment of Noise from Construction, Maintenance and Demolition Work relates specifically to construction noise and is a well accepted means of monitoring and managing noise specifically from construction.

There are a number of sources of excessive noise which the Act identifies as being outside the scope of its application. Alternative means of managing these are available outside this document. These noises sources specifically are - aircraft being operated during, immediately before or after, flight; vehicles being driven on a road (within the meaning of section 2(1) of the Transport Act 1962); a train, other than when at a railway station or in railway yards.

A Noise Management Plan is one method available to address matters of protocol and procedure between neighbours, interest groups and non-residential activity managers. Such a Plan would be a document independent from the District Plan but could be included within other formal documents for site management such as Standing Orders, Standard Operational Procedures, Operational or Business Plans, Best Practical Options, or other similar documents. A Noise Management Plan may work in conjunction with relevant provisions within this District Plan.

## 14C 2 Rules

### 14C 2.1 Permitted Activity - Conditions

#### In all Activity Areas

- (a) These rules are without prejudice to the powers of Council pursuant to the Act.
- (b) These rules are without prejudice to the powers of any Medical Officer of Health pursuant to the Health Act 1956.
- (c) The noise levels shall be measured in accordance with NZS 6801:1991 "Measurement of Sound", and assessed in accordance with NZS 6802:1991 "Assessment of Environmental Sound". The noise level is the L10 descriptor, as defined in NZS 6801:1991.
- (d) The lower levels shall apply between the commencement of the lower level on a Saturday evening and Monday morning, and Public Holidays, unless otherwise specified.

- (e) The maximum sound level shall not exceed  $L_{max}75dBA$  during the hours 10.00pm - 7.00am, measured anywhere within a residential activity area.
- (f) All construction, demolition, and maintenance work shall comply with NZS 6803P "Measurement and Assessment of Noise from Construction, Maintenance and Demolition Work".
- (g) Sirens being used in response to an emergency (and routine testing and maintenance) are exempt from the Permitted Activity Condition standards.
- (h) Noise from electricity distribution transformers not exceeding 1.5 MVA capacity, which are designed, constructed, installed and maintained to good New Zealand industry practice, providing the maximum noise level, measured at a distance of two metres in front of any window of any living area or bedroom of any residential building, shall be less than 50dBA.

### 14C 2.1.1 All Residential Activity Areas

- (a) Emergency Facilities
  - (i) All emergency facilities (not otherwise provided for in these rules) must not exceed the conditions specified, measured anywhere within a residential activity area other than the site on which the activity takes place:
 

Maximum 55dBA	Monday to Sunday	7.00am – 10.00pm
Maximum 45dBA	Monday to Sunday	10.00pm – 7.00am

with the exception of Lot 2 DP 82046 (155 – 157 Waterloo Road, Lower Hutt - Central Fire Station).
  - (ii) Sirens being used in response to an emergency (and routine testing and maintenance) are exempt from the Permitted Activity Condition standards.
  - (iii) On Lot 2 DP 82046 (155 -157 Waterloo Road, Lower Hutt – Central Fire Station) the following conditions shall apply:
    - The noise standard must not exceed the conditions specified, measured anywhere within a residential activity area other than the site on which the activity takes place:
 

Maximum 55dBA	Monday to Saturday	7.00am – 8.00pm
Maximum 45dBA	Monday to Saturday	8.00pm – 7.00am
Maximum 45dBA	Sundays and Public Holidays	

with the exception of noise from the following activities:

      - Activities relating to an emergency situation or callout;
      - Movement of fire appliances and other equipment in the rear yard which is not reasonably avoidable; and
      - The carrying out of training activities in the rear yard between 8.00am and 6.30pm Monday - Friday and 8.00am - Midday Saturday.
  - (iv) With respect to Lot 2 DP 82046 (155-157 Waterloo Road, Lower Hutt - Central Fire Station) the following additional conditions apply:
    - That there be no heavy vehicle (a vehicle requiring a hubometer) movements in the rear yard, including the covered vehicle wash area, between 8.00pm and 7.00am;
    - That no water tanks on fire appliances be filled on the site between 8.00pm and 7.00am;

- That no breathing apparatus cylinders be filled on the site between 8.00pm and 7.00am; and
- That civil defence equipment stored on the site be uplifted prior to 8.00pm and when it is necessary to return the equipment between 8.00pm and 7.00am, that the equipment be returned to the front of the workshop garage on the eastern side of the site.

(b) All other non-residential activities must not exceed the conditions as specified, measured anywhere within a residential activity area other than the site on which the activity takes place.

All properties within Residential Activity Areas are in Noise Area 3 with the exception of properties identified within Appendix Noise 1 which are in the Noise Area specified in the Appendix.

<b>Noise Area 1</b>	Maximum 60dBA	7.00am - 10.00pm ( Sun 9.00am - 4.00pm)
	Maximum 45dBA	10.00pm - 7.00am
<b>Noise Area 2</b>	Maximum 55dBA	7.00am - 10.00pm
	Maximum 45dBA	10.00pm - 7.00am
<b>Noise Area 3</b>	Maximum 50dBA	7.00am - 10.00pm
	Maximum 40dBA	10.00pm - 7.00am
<b>Noise Area 4</b>	Maximum 45dBA	7.00am - 8.00pm
	Maximum 40dBA	8.00pm - 7.00am

except for the following locations where activities must not exceed the standards specified.

**14C 2.1.1.1 Bellevue Hotel, 140 Woburn Road, Pt Lot 2 DP 5877 and Pt Lot 1 DP 6028 -**

(a) The noise level shall not exceed the following levels when measured on adjoining land within a residential activity area, (other than on the site from which the noise is emanating)

Day	6.30am - 10.00pm	L10 55dBA
Night	10.00pm - 6.30am	L10 45dBA

Noise measurements shall be made in accordance with NZS 6801:1991 "Measurement of Sound" and assessed in accordance with NZS 6802:1991 "Assessment of Noise in the Environment". If the measured noise has special audible characteristics the performance levels shall be adjusted in accordance with paragraph 4.4 of NZS 6802:1991.

Noise measurement shall be taken on or within the boundaries of the residential site. Night time levels shall also apply on Sundays, Christmas Day and Good Friday.

(b) The noise from any form of electronically produced or amplified music shall be such that the noise level measured in any octave band between 31.5Hz and 8KHz, as measured inside any habitable room (other than on the site from which the noise is emanating) with windows open in their normal fashion, shall not exceed the background level measured in that octave band by more than 5dB, or the following values, whichever is the greater:

Octave Band(Hz)	31.5	63	125	250	500	1k	2k	4k	8k
Level (dB)	58	43	35	28	21	15	10	8	8

The background levels shall be determined by the statistical analysis as the L95 of the ambient noise in the absence of amplified music. The background levels shall be measured within 1 hour of the measurement of the music noise levels.

The music noise levels shall be measured as the equivalent continuous level, Leq. The sound level meter operator shall ensure that the measured level is due solely to the music noise. The music noise levels shall be measured over 15 cumulative minutes of music audible at the measurement location.

This condition shall apply during the hours 7.00pm to 6.30am and at all times on Sundays, Christmas Day and Good Friday.

The sound meter used for measurements of music noise shall comply with IEC Publication 651 for type 1 instruments. Octave band filters shall comply with IEC Publication 255. The time weighting characteristic "F" shall be used.

- (c) The sound meter used for measurements of noise shall comply with IEC Publication 651 (1970) "Sound Level Meters: Type 1".

**14C 2.1.1.2 Corner Eastern Hutt Road and Reynolds Bach Drive, Part Section 742 Hutt District**

All activities must not exceed the conditions as specified, measured anywhere within a residential activity area other than the site on which the activity takes place -

Maximum 58dBA 6.30am - 8.00pm

Maximum 45dBA 8.00pm - 6.30am

**14C 2.1.1.3 Summit Road Nursery, Lot 1 DP 20206 and Lot 34 DP 31233; Moores Valley Road Depot, Part Lot 2 DP 88509; and Bracken Street Depot, Section 979 Hutt District -**

All scheduled activities must not exceed, the conditions as specified, measured anywhere within a residential activity area other than the site on which the activity takes place -

Maximum 55dBA 7.00am - 8.00pm

Maximum 40dBA 8.00pm - 7.00am

**14C 2.1.1.4 10 Bauchop Road, Lot 1 DP 10377**

All activities must not exceed, the conditions as specified, measured anywhere within a residential activity area other than the site on which the activity takes place -

Maximum 57dBA 6.30am - 8.00pm

Maximum 45dBA 8.00pm - 6.30am

**14C 2.1.1.5 Cnr Hutt and Te Mome Roads, Lot 26 DP 1984**

All activities must not exceed, the conditions as specified, measured anywhere within a residential activity area other than the site on which the activity takes place -

Maximum 65dBA 6.30am - 8.00pm

Maximum 58dBA 8.00pm - 6.30am

**14C 2.1.1.6 Oxford Terrace/Waterloo Road (Ambulance Station), Section 1 SO 36751**

- (a) All activities must not exceed, the conditions as specified measured anywhere within a residential activity area other than the site on which the activity takes place -
- |               |                 |
|---------------|-----------------|
| Maximum 50dBA | 7.00am - 8.00pm |
| Maximum 45dBA | 8.00pm - 7.00am |
- (b) No siren may be used when in the vicinity of the site between the hours of 8.00pm and 7.00am.

**14C 2.1.1.7 Stokes Valley Bus Depot, cnr Stokes Valley Road and Kamahi Streets, Lot 1 DP 55258**

- All activities must not exceed the conditions as specified measured anywhere within a residential activity area other than the site on which the activity takes place -
- |               |   |                   |
|---------------|---|-------------------|
| Maximum 60dBA | 5.30am - 10.00pm                              | Monday - Thursday |
|               | 5.30am - Midnight                             | Friday & Saturday |
|               | 5.30am - 9.00pm                               | Sunday            |
| Maximum 45dBA | Any time outside those times specified above. |                   |

**14C 2.1.1.8 Wainuiomata Bus Depot, Main Road/Burden Avenue, Lot 3 DP 55256**

- All activities must not exceed the conditions as specified measured anywhere within a residential activity area other than the site on which the activity takes place -
- |               |   |                   |
|---------------|---|-------------------|
| Maximum 60dBA | 5.30am - 10.00pm                              | Monday - Thursday |
|               | 5.30am - Midnight                             | Friday & Saturday |
|               | 5.30am - 9.00pm                               | Sunday            |
| Maximum 45dBA | Any time outside those times specified above. |                   |

**14C 2.1.1.9 Waterloo Bus Depot - that area of Pt Sec 30 Hutt District located on the western side of the Wairarapa Railway Line between Knights Road and Wilford Street**

- All activities must not exceed the conditions as specified, measured anywhere within a residential activity area other than the site on which the activity takes place -
- |               |   |                   |
|---------------|---|-------------------|
| Maximum 60dBA | 5.30am - 10.00pm                              | Monday - Thursday |
|               | 5.30am - Midnight                             | Friday & Saturday |
|               | 5.30am - 9.00pm                               | Sunday            |
| Maximum 45dBA | Any time outside those times specified above. |                   |

**14C 2.1.2 Central Commercial Activity Area & Petone Commercial Activity Areas 1& 2**

- (a) All activities must not exceed the conditions as specified measured anywhere within a residential activity area -
- |               |                                  |
|---------------|----------------------------------|
| Maximum 60dBA | 7.00am - 10.00pm (Sun 9am - 4pm) |
| Maximum 45dBA | 10.00pm - 7.00am                 |
- (b) All activities must not exceed 65dBA, measured at the boundary of the site on which the activity takes place. This condition applies for a 24hr period.

### 14C 2.1.3 Suburban Commercial Activity Area

- (a) All activities must not exceed the conditions as specified measured anywhere within a residential activity area -

Maximum 60dBA 7.00am - 10.00pm (Sun 9am - 4pm)

Maximum 45dBA 10.00pm - 7.00am

### 14C 2.1.4 Special Commercial Activity Area

- (a) All activities must not exceed the conditions as specified measured anywhere within a residential activity area -

#### Area 1 - Station Village

Maximum 65dBA 6.30am - 9.00pm

Maximum 57dBA 9.00pm - 6.30am

#### Area 2 - Boulcott Village

Maximum 63dBA 6.30am 10.00pm

Maximum 45dBA 10.00pm - 6.30am

### 14C 2.1.5 General Business Activity Area

- (a) Within the General Business Activity Area, all activities must not exceed 65dBA, measured at the boundary of the site on which the activity takes place.

- (b) All activities must not exceed the conditions as specified measured anywhere within a recreation or residential activity area. Appendix Noise 2 identifies the locations -

Location Reference	Location Description	Performance Standards	
1	George Street	Maximum 56dBA Maximum 43dBA	6.30am - 10.00pm 10.00pm - 6.30am
2	Eastern Hutt Road	Maximum 60dBA Maximum 45dBA	7.00am - 10.00pm 10.00pm - 7.00am
3	Taita	Maximum 58dBA Maximum 45dBA	6.30am - 10.00pm 10.00pm - 6.30am
4	Wingate	Maximum 57dBA Maximum 45dBA	7.00am - 10.00pm 10.00pm - 7.00am
5	Hebden Crescent	Maximum 55dBA Maximum 45dBA	7.00am - 10.00pm 10.00pm - 7.00am
6	Rata St/Norrie Gr	Maximum 51dBA Maximum 44dBA	7.00am - 10.00pm 10.00pm - 7.00am

<b>Location Reference</b>	<b>Location Description</b>	<b>Performance Standards</b>	
7	Naenae	Maximum 65dBA Maximum 46dBA	7.00am - 10.00pm 10.00pm - 7.00am
8	Park Avenue	Maximum 60dBA Maximum 46dBA	6.30am - 10.00pm 10.00pm - 6.30am
9	Connolly Street	Maximum 50dBA Maximum 40dBA	7.00am - 10.00pm 10.00pm - 7.00am
10	Pharazyn Street	Maximum 65dBA Maximum 49dBA	6.30am - 10.00pm 10.00pm - 6.30am
11	Birch St/Knights Rd	Maximum 50dBA Maximum 45dBA	7.00am - 10.00pm 10.00pm - 7.00am
12	Railway Ave/Marsden St	Maximum 58dBA Maximum 45dBA	7.00am - 10.00pm 10.00pm - 7.00am
13	Wakefield St/Hutt Rd	Maximum 63dBA Maximum 45dBA	6.30am - 10.00pm 10.00pm - 6.30am
14	Victoria St/Cuba St	Maximum 58dBA Maximum 45dBA	7.00am - 10.00pm 10.00pm - 7.00am
15	Bouverie Street	Maximum 55dBA Maximum 45dBA	7.00am - 10.00pm 10.00pm - 7.00am
16	Hutt Road (Nevis Street to Udy Street)	Maximum 55dBA Maximum 45dBA	7.00am - 10.00pm 10.00pm - 7.00am
17	Petone West (Victoria Street to Scholes Lane)	Maximum 60dBA Maximum 45dBA	6.00am - 10.00pm 10.00pm - 6.00am
18	Cornish Street	Maximum 55dBA Maximum 45dBA	6.00am - 10.00pm 10.00pm - 6.00am
19	Esplanade West	Maximum 55dBA Maximum 45dBA	6.00am - 10.00pm 10.00pm - 6.00am

<b>Location Reference</b>	<b>Location Description</b>	<b>Performance Standards</b>	
20	Petone South	Maximum 55dBA Maximum 45dBA	6.00am - 10.00pm 10.00pm - 6.00am
21	Cuba Street	Maximum 55dBA Maximum 45dBA	7.00am - 10.00pm 10.00pm - 7.00am
22	Petone East (Waione Street/Marine Parade)	Maximum 65dBA Maximum 50dBA	6.00am - 10.00pm 10.00pm - 6.00am
23	Hawkins Street	Maximum 58dBA Maximum 45dBA	6.30am - 10.00pm 10.00pm - 6.30am
24	Randwick Road	Maximum 53dBA Maximum 41dBA	6.30am - 10.00pm 10.00pm - 6.30am
25	Seaview Road/Port Road/Randwick Road	Maximum 62dBA Maximum 45dBA	7.00am - 10.00pm 10.00pm - 7.00am
26	Bell Road/Gracefield Road/Wainui Road	Maximum 59dBA Maximum 45dBA	7.00am - 10.00pm 10.00pm - 7.00am
27	Gracefield Road/Tunnel Grove	Maximum 59dBA Maximum 45dBA	7.00am - 10.00pm 10.00pm - 7.00am
28	Parkway	Maximum 65dBA Maximum 45dBA	7.00am - 10.00pm 10.00pm - 7.00am
29	Fraser St/Simmons Gr	Maximum 60dBA Maximum 45dBA	7.00am - 10.00pm 10.00pm - 7.00am
30	Main Road (Rear of Gibbs Crescent)	Maximum 50dBA Maximum 40dBA	7.00am - 10.00pm 10.00pm - 7.00am
31	Burden Avenue	Maximum 60dBA Maximum 45dBA	7.00am - 10.00pm 10.00pm - 7.00am
32	Moore's Valley Road	Maximum 60dBA Maximum 45dBA	7.00am - 10.00pm 10.00pm - 7.00am

Location Reference	Location Description	Performance Standards	
33	Point Howard	Maximum 60dBA Maximum 45dBA	7.00am - 11.00pm 11.00pm - 7.00am
Noise resulting from activities below mean high water springs, including from ships berthed at Seaview Wharf, is controlled within the Wellington Regional Coastal Plan			

### 14C 2.1.6 Special Business Activity Area

- (a) All activities must not exceed the conditions as specified, measured anywhere within a residential activity area. Appendix Noise 2 identifies the location -

Location Reference	Location Description	Performance Standards	
34	Port Rd/Seaview Rd	Maximum 62dBA Maximum 45dBA	7.00am - 10.00pm 10.00pm - 7.00am

- (b) Within the Special Business Activity Area, all activities must not exceed 65dBA, measured at the boundary of the site on which the activity takes place.

### 14C 2.1.7 Avalon Business Activity Area

All activities must not exceed the conditions as specified, measured anywhere within a residential activity area. Appendix Noise 2 identifies the locations -

Location Reference	Location Description	Performance Standards	
35	Percy Cameron St	Maximum 60dBA Maximum 45dBA	7.00am - 10.00pm 10.00pm - 7.00am
36	Fairway Drive	Maximum 60dBA Maximum 45dBA	6.00am -10.00pm 10.00pm - 6.00am

### 14C 2.1.8 Extraction Activity Area

All activities must not exceed the conditions as specified, measured anywhere within a residential or rural activity area. Appendix Noise 2 identifies the locations-

Location Reference	Location Description	Performance Standards	
37	SH No.58	Maximum 70dBA Maximum 45dBA	6.00am - 10.00pm 10.00pm - 6.00am
38	SH No.2	Maximum 70dBA Maximum 45dBA	6.00am - 10.00pm 10.00pm - 6.00am

### 14C 2.1.9 Rural Residential Activity Area

All non-residential activities must not exceed the conditions as specified, measured anywhere beyond the site on which the activity takes place -

Maximum 45dBA	7.00am - 8.00pm
Maximum 40dBA	8.00pm - 7.00am

### 14C 2.1.10 General Rural Activity Area

All non-residential activities must not exceed the conditions as specified, measured anywhere beyond the site on which the activity takes place -

Maximum 50dBA	7.00am - 10.00pm
Maximum 40dBA	10.00pm - 7.00am

### 14C 2.1.11 Community Health Activity Area

All activities must not exceed the conditions as specified measured anywhere within a residential activity area -

Maximum 50dBA	7.00am - 10.00pm
Maximum 40dBA	10.00pm - 7.00am

### 14C 2.1.12 Community Iwi Activity Area 1 - Marae

The standards are those for the Residential Noise Zone in which each Marae is located in, except for the Puke Ariki Marae (Te Tatau O Te Po, Hutt Road) where the standard is -

Maximum 63dBA	6.30am - 9.00pm
Maximum 45dBA	9.00pm - 6.30am

### 14C 2.1.13 Community Iwi Activity Area 3 - Kokiri Centres

All activities must not exceed the conditions as specified for each location measured anywhere within a residential activity area -

#### **Ngau-matau Kokiri (Seaview)**

Maximum 62dBA	7.00am - 9.00pm
Maximum 45dBA	9.00pm - 7.00am

#### **Pukeatua Kokiri (Wainuiomata)**

Maximum 60dBA	7.00am - 8.00pm
Maximum 45dBA	8.00pm - 7.00am

## 14C 2.2 Discretionary Activities

- (a) Any activity not complying with the Permitted Activity - Conditions.

### 14C 2.2.1 Assessment Matters for Discretionary Activities

- (a) The matters contained in sections 104 and 105, and in Part II of the Act shall apply.
- (b) The degree of compliance or non-compliance with any relevant Permitted Activity Condition.

## 14C 3 Anticipated Environmental Results

- (a) Specific management conditions for sites and activity areas to ensure that the adverse effects of excessive noise are avoided or mitigated.
- (b) Maintenance and enhancement of the amenity values of activity areas.