Detailed Noise and Vibration Impact Statement 5

Sandstone Delivery and Placement for Cosgroves Creek to Patons Lane and Defence Establishment Orchard Hills & Haul Road Drainage Crossing

Western Sydney Airport – Surface and Civil Alignment Works

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Distribution and Authorisation

Document Control

The CPBUI JV Project Director is responsible for ensuring this report is reviewed and approved. The Project Director is responsible for updating this plan to reflect changes to the project, legal and other requirements, as required.

The controlled master version will be maintained on Teambinder. All circulated hard copies are deemed to be uncontrolled.

Amendments

The implementation of this report is under the authority of the CPBUI Delegated Authority Matrix. All Contract personnel will perform their duties in accordance with this report, supporting plans, and related procedures.

Revision Details

Rev.	Details
0	7 July 2023 – First Issue
A	28 July 2023 – Second Issue – Updated in response to CPBUI Comments
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C	21 September – Fourth Issue – Updated in response to Sydney Metro Comments
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Abbreviations and definitions

Refer to Definitions, Abbreviations and Acronyms, Sydney Metro – Western Sydney Airport Surface Civil and Alignment Works Package, Schedule C1 General Specification.

Table 1 – Abbreviations and definitions

Abbreviation	Description
CNVS	Sydney Metro Construction Noise and Vibration Standard
Condition	Planning Minister's Conditions of Approval
CPBUI JV	CPB Contractors Pty Limited and United Infrastructure Pty Limited Joint Venture
CSSI	Critical State Significant Infrastructure
dBA	A-weighted decibels is an expression of the relative loudness of sounds in the air as perceived by the human ear.
DNVIS	Detailed Noise and Vibration Impact Statement
EIS	Environmental Impact Statement
EP&A Act	*Environmental Planning and Assessment Act 1979* (NSW)
EPA	NSW Environment Protection Authority
EPL	Environment Protection Licence
Frequency	Frequency is synonymous to pitch. Sounds have a pitch which is peculiar to the nature of the sound generator. For example, the sound of a tiny bell has a high pitch and the sound of a bass drum has a low pitch. Frequency or pitch can be measured on a scale in units of Hertz or Hz.
ICNG	Interim Construction Noise Guideline
Impulsive noise	Having a high peak of short duration or a sequence of such peaks. A sequence of impulses in rapid succession is termed repetitive impulsive noise.
Intermittent noise	The level suddenly drops to that of the background noise several times during the period of observation. The time during which the noise remains at levels different from that of the ambient is one second or more.
L_{Max}	The maximum sound pressure level measured over a given period.
L_{Min}	The minimum sound pressure level measured over a given period.
L_1	The sound pressure level that is exceeded for 1% of the time for which the given sound is measured.
L_{10}	The sound pressure level that is exceeded for 10% of the time for which the given sound is measured.
L_{90}	The level of noise exceeded for 90% of the time. The bottom 10% of the sample is the L90 noise level expressed in units of dB(A).
L_{eq}	The "equivalent noise level" is the summation of noise events and integrated over a selected period of time.
Minister	Minister of the NSW Department for Planning and Public Spaces
NCA	Noise Catchment Area
NML	Noise Management Level
NPI	NSW EPA's *Noise Policy for Industry*
OOH	Out-of-Hours, i.e. outside of standard construction hours

Abbreviation	Description
POEO Act	*Protection of the Environment Operations Act 1997* (NSW)
Project, the	Sydney Metro Western Sydney Airport
REMM	Revised Environmental Mitigation Measure
SCAW	Western Sydney Airport Surface and Civil Alignment Works
Sound	A fluctuation of air pressure which is propagated as a wave through air.
Sound absorption	The ability of a material to absorb sound energy through its conversion into thermal energy.
Sound pressure level	The level of noise, usually expressed in decibels, as measured by a standard sound level meter with a microphone.
Sound power level	Ten times the logarithm to the base 10 of the ratio of the sound power of the source to the reference sound power.
SSI	State Significant Infrastructure
Tonal noise	Containing a prominent frequency and characterised by a definite pitch.

Part A Overview

1. Introduction

1.1 Background

The Sydney Metro Western Sydney Airport will become the transport spine for Greater Western Sydney, connecting communities and travellers with the new Western Sydney International (Nancy-Bird Walton) Airport (referred to as Western Sydney International) and the growing region.

The Sydney Metro Western Sydney Airport EIS was prepared in October 2020 to assess the impacts of construction and operation of the Project and was placed on public exhibition between 21 October 2020 and 2 December 2020. The Project was declared a Critical State Significant Infrastructure (CSSI) Project and is listed in Schedule 5 of *State Environmental Planning Policy (State and Regional Development)*.

The Sydney Metro Western Sydney Airport was approved by the Minister for Planning and Public Spaces on 23 July 2021 (SSI 10051) under section 5.19 of the *NSW Environmental Planning and Assessment Act 1997* (EP&A Act).

1.2 Project description

The Project will be undertaken on Darug Country and will form part of the future Western Parkland City. The Project involves the construction and operation of a new 23 km metro rail line that extends from the existing Sydney Trains suburban T1 western line (at St Marys) in the north to the Aerotropolis (at Bringelly) in the south. The alignment includes a combination of tunnels and civil structures, including viaducts, bridges, and surface and open-cut troughs between the two tunnel sections. The Project also includes six new metro stations, and a stabling and maintenance facility and operational control centre at Orchard Hills. The SCAW package is the second major contract package to be procured for the Project. The successful and timely completion of the SCAW package is critical to the subsequent construction activities and ultimate completion of the entire Project.

1.2.1 SCAW scope of works

The scope for the SCAW package includes approximately 10.6 km of alignment up to the underside of track formation from Orchard Hills to the Western Sydney International (WSI) airport. This includes approximately:

- 3.6 km of viaduct
  - 400 m of viaduct over Blaxland Creek
  - 660 m of viaduct over the Patons Lane area and un-named creek
  - 2.5 km of viaduct in the Luddenham Road area including across the Warragamba pipeline, at Luddenham Station, across Luddenham Road and across Cosgrove Creek
- 205 metres of bridges
  - An over rail bridge, approximately 180 m long, over the proposed M12 Motorway
  - An over rail bridge, approximately 25 m long, over the drainage swale on the WSI airport site
- 6.9 km of at-grade alignment
  - 600 m at Orchard Hills, south of Lansdowne Road
  - 1.6 km alongside the stabling maintenance facility in Orchard Hills
  - 900 m to the north of the Warragamba pipelines
  - 1.1 km north of the proposed M12 motorway
  - 1.4 km south of the proposed M12 Motorway on Elizabeth Derive
  - 1.3 km within the Airport site from the northern boundary to the Airport Business Park Station
- Temporary and permanent access roads.

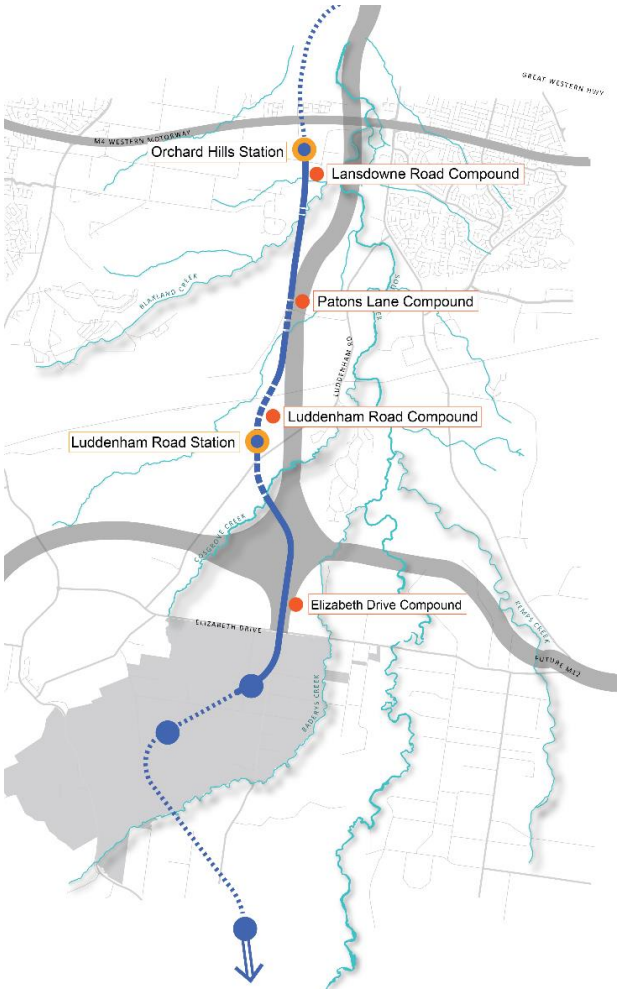


Figure 1 – SCAW Project scope

1.2.2 SCAW construction methodology

Activities that will be undertaken during construction are summarised in Table 2.

Table 2 – Activities during construction

Works	Activities
Early works	▪ Investigation works – survey, geotechnical, contamination and utilities ▪ Establishment of temporary ancillary facilities, construction site fencing, signage and lighting ▪ Pre-clearing vegetation surveys and setting up environmental 'no-go' zones ▪ Stockpiling of imported spoil for the stabling and maintenance facility
Earth works	▪ Installation of environmental controls ▪ Vegetation clearing ▪ Stripping, stockpiling and management of topsoil and unsuitable material ▪ Embankment and cutting construction, including the improvement layers/treatments, general fill, structural fill zone and capping layers ▪ Importation and reuse of fill materials ▪ Placing, compacting and finishing of rail alignment sub-base and base layers ▪ Dewatering and backfilling farm dams ▪ Preparation of piling pads.
Bridge works	▪ 400 metres of viaduct over Blaxland Creek ▪ 660 metres of viaduct over the Patons Lane area and unnamed creek ▪ 2.5 kilometres of viaduct in the Luddenham Road area including across the Warragamba Pipeline, at Luddenham Station, across Luddenham Road and across Cosgrove Creek ▪ 205 metres of bridges
Drainage works	▪ Construction of table drains ▪ Installation of culverts and other drainage structures ▪ Construction of temporary diversion channels ▪ Construction of temporary watercourse crossings such as causeways ▪ Installation of scour protection measures.

1.3 Detailed noise and vibration impact statement

This Detailed Noise and Vibration Impact Assessment (DNVIS) has been prepared in line with the Project's Condition of Approval (CoA) E47 (reproduced below) and supplements the Construction Noise and Vibration Management Sub-plan (CNVMSP). The DNVIS establishes the location, nature and scale of proposed works and assesses the level of impact on the community's amenity. Additionally, mitigation measures are identified and evaluated.

In accordance with Condition E47, this DNVIS has been prepared for works that may exceed the NMLs, vibration criteria and / or ground-borne noise levels specified in Conditions E43 and E44 at any residence outside construction hours identified in Condition E38, or where receivers will be highly noise affected or subject to vibration levels above those otherwise determined as appropriate by a suitably qualified structural engineer under Condition E87.

CoA E47:

Detailed Noise and Vibration Impact Statements (DNVIS) must be prepared for any work that may exceed the NMLs, vibration criteria and / or ground-borne noise levels specified in Conditions E43 and E44 at any residence outside construction hours identified in Condition E38, or where receivers will be highly noise affected or subject to vibration levels above those otherwise determined as appropriate by a suitably qualified structural engineer under Condition E87. The DNVIS must include specific mitigation measures identified through consultation with affected sensitive land user(s) and the mitigation measures must be implemented for the duration of the works. A copy of the DNVIS must be provided to the ER before the commencement of the associated works. The Planning Secretary and the EPA may request a copy(ies) of the DNVIS.

This DNVIS follows the following structure:

- Section 2 – Construction Works and Hours
- Section 3 – Existing Environment and Sensitive Receivers
- Section 4 – Construction Noise and Vibration Management Levels
- Section 5 – Construction Noise and Vibration Assessment
- Section 6 – Mitigation and Management

2. Construction works and hours

2.1 Planned works

This DNVIS provides an assessment of potential noise and vibration impacts from activities associated with the earthworks for the project. The area of works is shown in Appendix A – Site layout and works areas. The works include import and placement (earthworks) of materials on the main alignment between Cosgroves Creek to Elizabeth Drive and at the Defence Establishment, Orchard Hills locations as well as works required as part of the Haul Road drainage crossing.

A detailed list of activities and equipment is provided in Section 5.1. Works are expected to commence from August 2023 however may be required to be carried out up until 31 January 2025.

2.2 Approved construction hours

The approved construction hours for SCAW are in accordance with Condition E38 and E39, the CNVS and the EPL and are summarised in Table 3.

Refer to Section 1 for detail on the works permitted to be undertaken outside of approved construction hours (out of hours work (OOHW)).

Table 3 – Approved Construction Hours

<table>
<tr><th rowspan="2">Source</th><th rowspan="2">Activity</th><th colspan="3">Approved Construction Hours</th></tr>
<tr><th>Monday to Friday</th><th>Saturday</th><th>Sunday / Public Holiday</th></tr>
<tr><td>Condition E38</td><td>Standard construction hours</td><td>7:00am to 6:00pm</td><td>8:00am to 1:00pm</td><td>At no time</td></tr>
<tr><td rowspan="3">Condition E39</td><td rowspan="3">Except as permitted by an EPL or approved in accordance with the Out-of-Hours Works Protocol required by Condition E42, highly noise intensive work that result in an exceedance of the applicable NML at the same receiver must only be undertaken during the following times:</td><td>8:00am to 6:00pm</td><td>8:00am to 1:00pm</td><td>At no time</td></tr>
<tr><td colspan="3">If continuously, then not exceeding three (3) hours, with a minimum cessation of work of not less than one (1) hour.</td></tr>
<tr><td colspan="3">'continuously' includes any period during which there is less than one (1) hour between ceasing and recommencing any of the work</td></tr>
<tr><td>SCAW EPL 21695</td><td>L5.1 Standard construction hours</td><td colspan="3">Unless permitted by another condition of this licence, works and activities must:
a) only be undertaken between the hours of 7:00 am and 6:00 pm Monday to Friday;
b) only be undertaken between the hours of 8:00 am and 1:00 pm Saturday; and
c) not be undertaken on Sundays or Public Holidays.</td></tr>
</table>

Source	Activity	Approved Construction Hours		
		Monday to Friday	Saturday	Sunday / Public Holiday
	L5.2 High Noise Impact Activities and Work	The applicable Noise Management Level (NML) at a Noise Sensitive Receiver must only be undertaken: a) between 8:00 am and 6:00 pm Monday to Friday; b) between 8:00 am and 1:00 pm Saturday; and c) if high noise impact works are to be conducted continuously and the location of the works means that it is likely to impact the same receivers, then the works must be conducted in continuous blocks of no more than 3 hours, with at least a 1-hour respite between each block of continuous high noise impact work; except as expressly permitted by another condition of this licence. Note: For the purposes of this condition 'continuous' includes any period where there is a less than 1-hour respite between ceasing and recommencing of any work that is subject to this condition.		
	L5.3 Exemptions to standard construction hours for low noise impact works	Works and activities may be carried on outside of standard construction hours specified in condition L5.1 if the works and activities do not cause, when assessed at the boundary of the most affected Noise Sensitive Receiver: a) $L_{Aeq(15\ minute)}$ noise levels greater than 5 dB above the day, evening and night Rating Background Level (RBL) as applicable; b) L_{Amax} noise levels greater than 15 dB above the night RBL for night works; c) the preferred continuous or impulsive vibration values greater than those for human exposure to vibration, set out for residences in Table 2.2 in Assessing Vibration: a technical guideline (DEC, 2006); and d) the preferred intermittent vibration values greater than those for human exposure to vibration, set out for residences in Table 2.4 in Assessing Vibration: a technical guideline (DEC, 2006). For the purposes of this condition, the RBLs are those contained in an environmental assessment for the activities subject to this licence prepared under the Environmental Planning and Assessment Act 1979. Alternatively, the licensee may use another RBL determined in accordance with the Noise Policy for Industry (EPA, 2017) and provided to the EPA prior to carrying out any works or activities under this condition. The notification requirements under condition L5.5 do not apply to this condition.		

Source	Activity	Approved Construction Hours		
		Monday to Friday	Saturday	Sunday / Public Holiday
	L5.4 Exemptions to standard construction hours in exceptional circumstances	a) The licensee may undertake works and activities outside of standard construction hours specified in condition L5.1 for: i) emergency works required to avoid the loss of life or property, or to prevent material harm to the environment; and ii) the delivery of oversized plant, structures or materials determined by the police or other authorised authorities to require special arrangements to transport along public roads. b) The licensee must, on becoming aware of the need to undertake emergency works under this condition notify the EPA's Environment Line as soon as practicable and submit a report to the EPA by 4:00 pm on the next business day after the emergency works commenced that describes: i) the cause, time and duration of the emergency; ii) action taken by or on behalf of the licensee in relation to the emergency; and iii) details of any measures taken or proposed to be taken by the licensee to prevent or mitigate against a recurrence of the emergency. For the purposes of this condition, 'material harm to the environment' has the same meaning as in section 147 of the POEO Act. Emergency works do not require a notification under condition L5.5		
	L5.7 Works outside of standard construction hours	Under this condition, works and activities may be undertaken outside of standard construction hours specified in condition L5.1 and L5.2, but only if they are required in relation to one or more of the following: a) carrying on those works and activities during standard construction hours would result in a high risk to construction personnel or public safety, based on a risk assessment carried out in accordance with AS/NZS ISO 31000:2018 "Risk Management"; b) the Relevant Road Network Operator has advised the licensee in writing that carrying out the works and activities during standard construction hours would result in a high risk to road network operational performance; c) a relevant utility service operator has advised the licensee in writing that carrying out the works and		

Source	Activity	Approved Construction Hours		
		Monday to Friday	Saturday	Sunday / Public Holiday
		activities during standard construction hours would result in a high risk to the operation and integrity of the utility network; d) the TfNSW Transport Management Centre (or other road authority) have refused to issue a road occupancy licence during standard construction hours; or e) Sydney Trains (or other rail authority) requires a rail possession for the activities to be performed outside of standard construction hours.		
	L5.8 Works outside of standard construction hours - Regulatory Requirements	In undertaking any works and activities outside of standard construction hours under condition L5.7, the licensee must comply with the following: a) Prepare a construction noise and vibration impact assessment in accordance with the Interim Construction Noise Guideline (DEC, 2009) that is to include: i. a description of the proposed works and activities outside of standard construction hours; ii. predictions of LAeq (15 minute) dB noise levels at noise sensitive receivers from these works and iii. activities, where noise levels are predicted to be greater than those permitted under condition L5.3; and iv. a monitoring plan to validate the noise predictions, based on monitoring at the boundary of representative sensitive receivers during noise generating activities that are representative of the works and activities, including during the period/s predicted to have the highest noise level impacts. b) Undertake noise monitoring in accordance with the monitoring plan required by condition L5.8(a)(iii). c) Only undertake activities between the hours of 6:00pm on Mondays, Tuesdays, Wednesdays, Thursdays, Fridays and 7:00am the following day (unless permitted by another condition of this licence). d) Activities are not to be undertaken between the hours of 6:00pm on Saturdays, Sundays or Public Holidays and 7:00am the following day (unless permitted by another condition of this licence). e) Ensure that works and activities do not result in noise levels exceeding those specified in condition L5.3 at the same noise sensitive receivers (unless specified in another condition of this licence) on more than: i. 2 consecutive evenings and/or nights at any time; and ii. 3 evenings and/or nights per week; and iii. 10 evenings and/or nights per month.		

Source	Activity	Approved Construction Hours		
		Monday to Friday	Saturday	Sunday / Public Holiday
		f) Undertake any high noise impact works before 12:00 am (midnight) where reasonable and feasible. g) Where high noise impact activities are undertaken, the respite provisions as per the requirements of condition L5.2(c) do not apply provided that all High Noise Impact Activities and Works are undertaken prior to 12:00 am (midnight). h) Where high noise impact activities are undertaken after 12:00 am (midnight), the respite provisions in condition L5.2(c) apply.		
	E1.1 Work outside standard construction hours - community consultation and agreement.	The licensee may work outside standard construction hours (as defined in L5.1) in circumstances other than those permitted under conditions L5.3, L5.4, or any other condition of this licence if the Licensee: a) undertakes community consultation and agreement as described in E1.2; b) submits to the EPA a written request to work outside the standard construction hours attaching information set out in E1.3; and c) obtains approval by the EPA to work outside standard construction hours. The EPA may, in exercising its discretion to approve the works outside standard construction hours, review whether the licensee has obtained community agreement. Specifically, whether a substantial majority of the individual Noise Sensitive Receivers who together comprise the Community Affected Catchments and were contacted has consented to the planned works out of standard hours.		

2.3 Working outside of standard construction hours

In accordance with EPL Condition L5.7 works may be carried out outside the standard construction hours in the following circumstances:

a) carrying on those works and activities during standard construction hours would result in a high risk to construction personnel or public safety, based on a risk assessment carried out in accordance with AS/NZS ISO 31000:2018 "Risk Management'

b) the Relevant Road Network Operator has advised the licensee in writing that carrying out the works and activities during standard construction hours would result in a high risk to road network operational performance;

c) a relevant utility service operator has advised the licensee in writing that carrying out the works and activities during standard construction hours would result in a high risk to the operation and integrity of the utility network;

d) the TfNSW Transport Management Centre (or other road authority) have refused to issue a road occupancy licence during standard construction hours; or

e) Sydney Trains (or other rail authority) requires a rail possession for the activities to be performed outside of standard construction hours.

Unless otherwise approved via negotiated agreement in accordance with EPL Condition E1.1.

This DNVIS has been written to inform the negotiated agreement process in the SCAW Community Engagement Strategy and support the application for an EPL variation for drainage works by including a risk assessment for drainage activities developed in accordance with AS/NZS ISO 31000:2018 as per Condition L5.7(a) (Appendix E).

3. Existing environment

3.1 Noise Catchment Areas

Noise Catchment Areas (NCAs) are groups of receivers that are likely to experience similar impacts from the project and are reflective of the land use of each area. The NCAs are based on the EIS and predicted impacts for each NCA are considered to represent typical noise and vibration impacts at each individual receiver within that NCA. Table 4 describes the location of the NCAs adopted for this DNVIS, applicable to the SCAW scope and are presented in Figure 2.

Table 4 – Noise catchment areas (NCA)

NCA	Description
NCA09/09A	Open farmland and a grouping of low density single storey residential dwellings within 1200 metres east of the project along Luddenham Road.
NCA10/10A	Open farmland with low density single storey and multi-storey residential dwellings within the Twin Creeks area east of the project, and scattered residential dwellings along Luddenham Road.
NCA11	Predominantly Western Sydney International (on-airport) land. Low density residential dwellings along Lawson Road and Martin Road to the east of the project. Medium density residential dwellings at Luddenham to the west of the project.

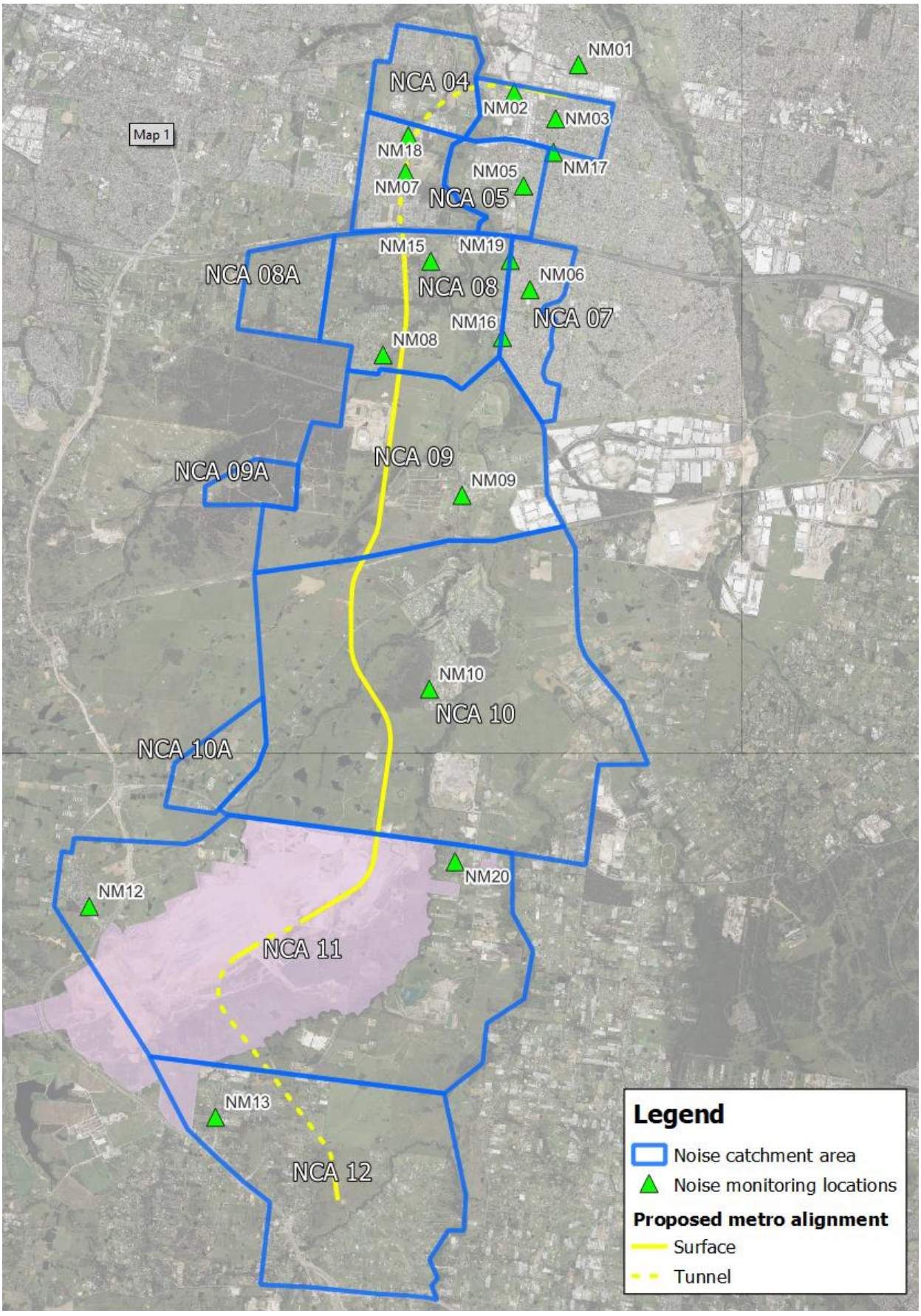


Figure 2 – Noise catchment areas and noise monitoring locations

3.2 Sensitive Receivers

In accordance with Condition E37 a detailed land use survey was undertaken to confirm sensitive land use(s) (including critical working areas such as operating theatres and precision laboratories) potentially exposed to construction noise and vibration and construction ground-borne noise.

3.3 Ambient Noise Environment

The prevailing background (existing) noise levels in the study area were determined in the EIS through unattended noise monitoring. The measured Rating Background Levels (RBLs) and ambient noise levels are summarised in Table 5. Refer to Figure 2 for an illustration of the noise monitoring locations.

Table 5 – Summary of unattended noise monitoring results

Noise monitoring location	Rating Background Level (RBL) dB(A)[1]			Ambient Noise Level $L_{eq,\ 15\ minute}$		
	Day	Evening	Night	Day	Evening	Night
NM06	42	(44) 42[3]	38	59	57	52
NM08	31	(32) 31[3]	30	52	48	40
NM09	40	39	34	61	57	54
NM10	(30) 35[2]	30	30	47	42	37
NM12	(34) 35[2]	32	(24) 32[2]	58	60	48
NM16	47	42	(28) 30[2]	59	56	54
NM19	53	48	36	62	59	57
NM20	39	37	(28) 30[2]	49	47	42

(1) Time periods defined as – Day: 7am to 6pm Monday to Saturday, 8am to 6pm Sunday; Evening, 6pm to 10pm; Night 10pm to 7am Monday to Saturday, 10pm to 8am Sunday

(2) Where background levels are below the minimum assumed rating background noise levels outlined in the NPI, they have been adjusted to 35 dB(A) during the day period, and 30 dB(A) during the evening and night periods in accordance with the NPI

(3) Where evening or night background noise levels exceed that of the previous period, they have been set at the background noise level of the previous period, in line with the NPI, to reflect community's expectation for greater noise control during more sensitive periods

4. Construction Noise and Vibration Management Levels

4.1 Airborne Noise

The CNVS identifies the ICNG as the reference document for the determination of construction Noise Management Levels (NMLs). Table 6 sets out the application of the management levels for noise at residential receivers.

Table 6 – ICNG noise management levels for residential receivers

Time of Day	Noise Management Level, $L_{Aeq(15\ min)}$	Application
Recommended standard hours: ▪ Monday to Friday 7am to 6pm ▪ Saturday 8am to 1pm ▪ No work on Sundays or public holidays	Noise affected RBL + 10 dB	CPBUI will apply feasible and reasonable work practices to meet the noise affected level where the predicated or measured L_{Aeq} (15 min) is greater than the noise affected level.
	Highly noise affected 75 dB(A)	The highly noise affected level represents the point above which there may be strong community reaction to noise.
Outside recommended standard hours	Noise affected RBL + 5 dB	A strong justification would be required for works undertaken outside of the recommended standard hours. CPBUI will apply feasible and reasonable work practices to meet the noise affected level.

NMLs have been derived for the identified land uses, and representative RBLs for residential receivers as described in Table 5. presents the adopted NMLs for residential receivers within each NCA are derived from EIS Tech Paper 2 (Table 4-9) and are provided in Table 7.

Table 7 – Noise management levels by NCA and period

NCA	Noise management level, $L_{eq,\ 15min}$ – dB(A)			
	Standard hours	OOHW - Day	OOHW - Evening	OOHW - Night
NCA09/09A	50	45	44	39
NCA10/10A	45	40	35	35
NCA11	49	44	42	35

4.1.1 Sleep disturbance

Construction noise during the night (10 pm to 7 am Monday to Saturday, 10 pm to 8 am Sunday) has the potential to awaken residents from sleep. The CNVS refers to the Road Traffic Authority's (RTA) '*Environmental Noise Management Manual*' (ENMM) (RTA, 2001) and DECCW's *Environmental Criteria for Road Traffic Noise* (ECRTN) (RTA,1999) for guidance relevant to the assessment of sleep disturbance and awakening. These guidelines have since been superseded by the *Road Noise Policy* (RNP) (DECCW, 2011).

The RNP notes that the ECRTN discussed a guideline, aimed at limiting sleep disturbance due to environmental noise of, $L_{AF1,1min}$ should not exceed the ambient L_{A90} + 15 dB. Section 5.4 of the RNP then goes on to state that:

- *Maximum internal noise levels below 50 to 55 dB(A)* L_{max} *would be unlikely to awaken people from sleep; and*
- *One or two noise events per night, with maximum internal noise levels of 65-70 dB(A), are not likely to affect health and wellbeing significantly.*

The guidance within the RNP indicates that internal noise levels of 50 to 55 dB(A) L_{max} are unlikely to cause sleep awakenings. It goes on to state that at levels above 55 dB(A) L_{max}, sleep awakening would be considered likely. Assuming receivers may have windows partially open for ventilation, a +10 dB inside to outside correction has been adopted as indicated in the ICNG.

The NPI also contains guidance on sleep disturbance and awakening, using the following screening levels to identify where further investigation of sleep disturbance and awakening should be undertaken:

- $L_{eq,15min}$ 40 dB(A) or the prevailing RBL plus 5 dB, whichever is the greater, and/or
- L_{fmax} 52 dB(A) or the prevailing RBL plus 15 dB, whichever is the greater.

The assessment of $L_{eq,15\ min}$ against the prevailing RBL plus 5 aligns with construction noise management levels and would be covered under the assessment against construction noise management levels. The assessment L_{max} against the prevailing RBL plus 15 dB aligns with the ECRTN guidance.

Therefore, sleep disturbance and awakening external noise level screening levels of RBL+15 dB and L_{Fmax} 65 dB(A), whichever is most conservative (lowest) within each NCA, has been adopted as the sleep disturbance criteria and is presented in Table 8.

Table 8 – Sleep disturbance criteria by NCA

NCA	Sleep disturbance L_{max} dB(A)
NCA09/09A	49
NCA10/10A	45
NCA11	45

4.1.2 Other receivers

Table 9 presents the NMLs for non-residential sensitive receivers derived from the criteria in the ICNG. In accordance with Condition E45, noise generating work in the vicinity of potentially-affected community, religious, educational institutions and noise and vibration-sensitive businesses and critical working areas (such as theatres, laboratories and operating theatres) resulting in noise levels above the

NMLs will not be timetabled within sensitive periods, unless other reasonable arrangements have been made with the affected institution.

Table 9 – Noise management levels for non-residential receivers

Land use	Noise management level (external) $L_{eq,\ 15\ min}$ dB(A)
Educational	55[1]
Hospital wards and operating theatres	55[1]
Commercial (offices, retail outlets)	70
Commercial (industrial)	75
Active recreation	65
Passive recreation	60
Place of worship	55[1]
Child care centres	55[1]

(1) An internal to external correction of +10 dB has been applied as per the ICNG

4.2 Ground-borne noise

Ground-borne noise is generated by vibration transmitted through the ground and into a structure. The CNVS refers to guidance in the ICNG, which specifies ground-borne noise management levels for residences. Mitigation measures will be applied when residential ground-borne NMLs are exceeded in accordance with Condition E44. Table 10 provides the NML for residential receivers. These levels are applicable when ground-borne noise levels are higher than airborne noise levels during the evening and night periods.

Table 10 – Ground-borne NML – Residential

Period	Time of day	NML $L_{eq,15min}$
Evening	6pm to 10pm	40 dB(A) internal
Night	10pm to 7am	35 dB(A) internal

4.3 Construction traffic

The CNVS outlines guidance for the assessment of road traffic noise generated by construction vehicles be taken from the Road Noise Policy (RNP) (NSW EPA, 2011). As the RNP provides guidance with relation to operational noise impacts, and noise from construction traffic is non-permanent, further guidance has been taken from the *Construction Noise and Vibration Guideline* (CNVG) (Roads and Maritime, 2016).

The RNP provides guidance on the assessment of noise impacts on sensitive receivers from additional road traffic generated by the project operating on a public road network. Where vehicles operate within the boundaries of a construction site, noise impacts generated by these vehicles are included in the overall Leq,15min construction site noise emissions undertaken in line with the ICNG.

The RNP makes a distinction between the assessment of freeway/arterial/sub-arterial roads and local roads. Freeway/arterial/sub-arterial roads are assessed over day (7 am to 10 pm) and night (10 pm to 7 am) periods. Table 11 presents a summary of the applicable road traffic criteria for residential receivers.

The CNVG states that 'an initial screening test should first be applied by evaluating whether noise levels will increase by more than 2 dB(A) due to construction traffic or a temporary reroute due to a road closure. Where increases are 2 dB(A) or less then no further assessment is required'.

Therefore, if the road traffic noise levels increase by more than 2 dB(A) as a result of the proposed construction traffic, and the criteria in Table 11 are exceeded, investigation of mitigation options would be required.

Table 11 – Road traffic noise criteria for residential receivers on existing roads affected by additional traffic from land use developments

Road type	Road traffic noise criteria	
	Day (7am to 10pm)	Night (10pm to 7am)
Freeway/Arterial/Sub-arterial	60 $L_{eq,15hr}$ dB(A)	55 $L_{eq,9hr}$ dB(A)
Local roads	55 $L_{eq,1hr}$ dB(A)	50 $L_{eq,1hr}$ dB(A)

4.4 Construction vibration criteria

Condition E43 requires that the project be constructed with aim of achieving the following vibration criteria:

- Assessing vibration: a technical guideline (DEC, 2006) – for human exposure
- BS 7385 Part 2-1993 'Evaluation and measurement for vibration in buildings Part 2' as they are applicable to Australian conditions, and
- The vibration limits set out in the German Standard DIN 4150-3: Structural Vibration – effects of vibration on structures (for structural damage).

The following sections provide detail on each criterion.

4.4.1 Cosmetic building damage

The CNVS refers to the EPA's Assessing Vibration – A technical guideline (AVTG) which recommends the use of British Standard BS 7385-2: Evaluation and measurement for vibration in buildings, Guide to damage levels from ground-borne vibration (BS7385-2) in defining frequency dependent guideline values and assessment methods as they "are applicable to Australian conditions". However, the SEARs specify German Standard DIN 4150-3: Structural vibration – Effects of vibration on structures (DIN 4150). DIN 4150 provides the more conservative guidance, and hence, adoption of DIN 4150 as recommended results in compliance with the CNVS. Table 12 summarises the recommended limits outlined in DIN 4150 to ensure minimal risk of cosmetic damage to residential and industrial buildings.

On this basis, conservative general vibration screening levels (Peak Particle Velocity (PPV)) is provided for intermittent vibration sources as follows:

- reinforced or framed structures: 10 mm/s
- unreinforced or light framed structures 5 mm/s.

At locations where the predicted and/or measured vibration levels are greater than shown above, monitoring should be performed during construction. A more detailed analysis of the building structure, vibration source, dominant frequencies and dynamic characteristics of the structure would also be performed to determine the applicable safe vibration level.

Table 12 – Recommended vibration limits for cosmetic damage

Type of structure	Guideline values for velocity, v_i, in mm/s, of vibration in horizontal plane of highest floor, at all frequencies[1]
Buildings used for commercial purposes, industrial buildings and buildings of similar design	10
Dwellings and buildings of similar design and/or occupancy	5
Structures that, because of their particular sensitivity to vibration, cannot be classified under lines 1 and 2 and are of great intrinsic value (e.g. listed buildings under preservation order)	2.5

(1) If a building is subjected to harmonic vibration, then the maximum values can also occur in floors other than the top floor, or in the foundation. The values given in the table also apply in these cases.

4.4.2 Human comfort

With regards to assessing loss of amenity due to perceptible vibration, the CNVS requires the assessment of vibration impacts on human comfort in accordance with Assessing Vibration – A technical guideline (DEC, 2006) (AVTG). AVTG presents preferred and maximum vibration values (vibration dose values), above which there is considered to be a risk that the amenity and comfort of people occupying buildings would be adversely affected by construction work. The preferred vibration values are not mandatory limits but should be sought to be achieved through application of all feasible and reasonable mitigation measures.

Intermittent vibration is expected to be generated from most construction works, and can be defined as interrupted periods of continuous vibration (e.g. a drill), or repeated periods of impulsive vibration (e.g. a pile driver). The applicable criteria for intermittent vibration are shown in Table 13 as vibration dose value ($m/s^{1.75}$).

The vibration guideline also specifies limits for continuous and impulsive vibration. These summarised vibration limits are expressed in acceleration (m/s^2) and PPV (mm/s) as presented in Appendix C of the AVTG and summarised in Table 14. When short-term works such as piling, demolition and construction give rise to impulsive vibrations, undue restriction on vibration values may significantly prolong these operations and result in greater annoyance. Where work is short term, feasible and reasonable mitigation measures have been applied, then higher vibration values may apply.

Table 13 – Vibration limits for human exposure from intermittent vibration

Location	Assessment period (1)	Vibration dose value ($m/s^{1.75}$)	
		Preferred value	Maximum value
Residences	Daytime	0.2	0.4
	Night-time	0.13	0.26
Offices, schools, educational institutions and places of worship	Anytime	0.4	0.8
Workshops	Anytime	0.8	1.6

(1) Daytime is 7.00 am to 10.00 pm and night-time is 10.00 pm to 7.00 am

Table 14 – Preferred maximum values for continuous and impulsive vibration

Location	Assessment period	RMS acceleration m/s^2 (1)				Peak particle velocity mm/s (2)	
		Preferred values		Maximum values		Preferred values	Maximum values
		Z-Axis	X and Y axis	Z-axis	X and Y axis		
Continuous vibration							
Critical areas	Day or night-time	0.0050	0.0036	0.010	0.0072	0.14	0.28
Residences	Daytime(3)	0.010	0.0071	0.020	0.014	0.28	0.56
	Night-time	0.007	0.005	0.014	0.010	0.20	0.40
Offices, schools, educational institutions, and places of worship	Day or night-time	0.020	0.014	0.040	0.028	0.56	1.1
Workshops	Day or night-time	0.04	0.029	0.080	0.058	1.1	2.2
Impulsive vibration							
Critical areas	Day or night-time	0.0050	0.0036	0.010	0.0072	0.14	0.28
Residences	Daytime(3)	0.3	0.21	0.60	0.42	8.6	17.0
	Night-time	0.10	0.071	0.20	0.14	2.8	5.6
Offices, schools, educational institutions, and places of worship	Day or night-time	0.64	0.46	1.28	0.92	18.0	36.0
Workshops	Day or night-time	0.64	0.46	1.28	0.92	18.0	36.0

(1) Values derived from z-axis critical frequency range
(2) Values given for the most critical frequency range >8 Hz assuming sinusoidal motion. Where required, a more detailed analysis can be conducted as per AS 2670.2-1990. Sufficient justification should accompany the use of a peak velocity approach if used in an assessment.
(3) Specific values depend on social and cultural factors, psychological attitudes and expected degree of intrusion.

4.4.3 Vibration sensitive structures – heritage

Heritage listed structures should not be assumed to be more sensitive to vibration unless they are structurally unsound, which is unlikely for a regularly maintained structure. Where a historic structure is deemed to be sensitive to damage from vibration following inspection by qualified structural and/or civil engineers, more conservative superficial cosmetic damage criterion (2.5 mm/s PPV) should be considered, as noted in Table 12.

Buildings that are potentially at risk of threshold or cosmetic damage would be identified by the contractor prior to the commencement of construction works. Management at these locations will include building condition surveys before the commencement of construction activities and after construction is completed in accordance with Condition E84 and E85.

In accordance with REMM NAH8, a dilapidation survey of the Warragamba to Prospect Water Supply Pipelines would be undertaken prior to construction commencing in the vicinity of this item. In accordance with Condition E121 CPBUI will consult with WaterNSW where SCAW interacts with the Warragamba to Prospect Water Supply Pipeline to ensure that design and construction methodology is consistent with *Guidelines for Development Adjacent to the Upper Canal and Warragamba Pipelines.*

4.4.4 Utilities and other vibration sensitive structures

In accordance with Condition E82 the SCAW must be designed and constructed with the objective of minimising impacts to, and interference with third party property, and that such infrastructure and property is protected ruing construction.

Where structures and utilities sensitive to vibration are encountered, or where that asset provides an essential service for the community, a vibration goal, which is more stringent than structural damage goals may need to be adopted. Examples of such structures and utilities include:

- tunnels
- pipelines
- fibre optic cables.

Specific vibration criteria would be determined on a case-by-case basis. In accordance with Condition E83, the services potentially affected by construction will be identified to determine requirements for diversion, protection and / or support. In consideration of proposed civils activities works are likely to be required in close proximity to existing utilities and services. In all cases, protection requirements or alterations to services will be determined by negotiation with the service providers. This will be managed in accordance with the specific process of the asset owner, and as identified in the Project Interface Management Plan. Disruption to services resulting from construction will be avoided, wherever possible, and advised to customers where it is not possible. In lieu of specific vibration criteria being provided by the asset owner, screening criteria would be adopted from guidance provided in DIN 4150-3 for buried pipework. The screening criteria is outlined in Table 15.

Table 15 – Guideline values for vibration velocity to be used when evaluating the effects of vibration on buried pipework

Pipe material	Guideline values for velocity measured on the pipe, vi, in mm/s
Steel (including welded pipes)	100
Clay, concrete, reinforced concrete, pre-stressed concrete, metal (with or without flange)	80
Masonry, plastic	50

4.4.5 Safe working distance

Where vibration intensive works are required to be undertaken within the specific minimum working distances, vibration monitoring should be undertaken to ensure acceptable levels of vibration are satisfied. In relation to human comfort, the minimum working distances relate to continuous vibration. For most construction activities, vibration emissions would be intermittent in nature and for this reason, higher vibration levels, occurring over shorter periods may be allowed. Table 16 presents the recommended minimum working distances for vibration intensive plant.

Table 16 – Recommended minimum working distances for vibration intensive plant

Plant item	Rating / description	Minimum working distance – cosmetic damage (BS7385)	Minimum working distance – human response (DECC 2006)
Vibratory roller	< 50 kN (Typically 1-2 tonnes)	5 m	15 m to 20 m
	< 100 kN (Typically 2-4 tonnes)	6 m	20 m
	< 200 kN (Typically 4-6 tonnes)	12 m	40 m
	< 300 kN (Typically 7-13 tonnes)	15 m	100 m
	> 300 kN (Typically 13-18 tonnes)	20 m	100 m
	> 300 kN (> 18 tonnes)	25 m	100 m
Small hydraulic hammer	(300 kg - 5 to 12t excavator)	2 m	7 m
Medium hydraulic hammer	(900 kg – 12 to 18t excavator)	7 m	23 m
Large hydraulic hammer	(1600 kg – 18 to 34t excavator)	22 m	73 m
Vibratory pile driver	Sheet piles	2 m to 20 m	20 m
Pile boring	≤ 800 mm	2 m (nominal)	4 m
Jackhammer	Handheld	1 m (nominal)	2 m

5. Construction noise and vibration assessment

5.1 Construction activities

Prediction of construction noise levels at sensitive receivers was modelled using the SoundPLAN (Version 8.2) noise modelling software based on the ISO9613 prediction algorithm. This three-dimensional model accounts for noise source and receiver locations, ground and air absorption as well as any acoustic shielding provided by intervening topography and structures. Conservatively, it does not include any standard or project-specific mitigation measures. Proposed mitigation measures, and their acoustical benefits are detailed in Section 6.

Construction noise activities and proposed equipment are indicated in Table 17. Sound Power Levels (L_w) of equipment were either sourced from Sydney Metro's "*Sydney Metro Western Sydney Airport Construction Noise and Vibration Strategy v4.2"*, Transport for NSW's "*Construction Noise and Vibration Strategy*", the UK's Department for Environment, Food and Rural Affairs "*Update of Noise Database for Prediction of Noise on Construction and Open Sites*", or Resonate's construction plant & equipment noise database. To determine the potential for sleep disturbance impacts from the construction activities and proposed equipment, the L_{Amax} was determined to be 8 dB greater than the L_{Aeq} for each equipment if the equipment was not listed in the Sydney Metro CNVS. For equipment listed in the Sydney Metro CNVS the maximum sound power level was adopted, this method is considered to be appropriate for assessing sleep disturbances.

Table 17 - Construction stages and sound power levels used in the modelling of construction noise

Construction Stage	Period proposed (D/E/N)[1]	Plant and equipment	Individual plant item L_w, dB(A)[2]	Plant items total	Plant operating time (%)	Plant item $L_{eq\ 15min}$, dB(A)	Individual plant item L_{max}, dB(A)
Activity 1 – ED Truck & Dog Movements and earthworks	D	Pad foot roller	109	1	50	106	-
		Dozer D8	118[3]	1	75	117	-
		Excavator (approx. 20 tonne)	105[3]	1	75	104	-
		Water cart	107	1	25	101	-
		Truck and dogs	108	2	50	108	-
Activity 2 – ED Truck & Dog Movements and earthworks	E/N	Lighting tower	80[3]	Every 50 m	100	80	80
		Pad foot roller	109	1	50	106	117
		Dozer D8	118[3]	1	75	117	118
		Excavator (approx. 20 tonne)	105[3]	1	75	104	105
		Water cart	107	1	25	101	115
		Truck and dogs	108	2	50	108	116
Activity 3 – DEOH Truck & Dog Movements and earthworks	D	Grader	110[3]	1	50	107	-
		Excavator (approx. 20 tonne)	105	1	50	102	-
		Truck and dogs	108	3	100	113	-
Activity 4 – DEOH Truck & Dog Movements and earthworks	N	Lighting tower	80[3]	2	100	80	80
		Grader	110[3]	1	50	107	110
		Excavator (approx. 20 tonne)	105[3]	1	50	102	105
		Truck and dogs	108	3	100	113	116
Activity 5 – ED Haul Road Drainage Crossing	D	26T Excavator	110[3]	1	75	109	-
		35T Excavator	115[3]	1	75	114	-
		Remote trench roller	107	1	25	101	-
		Pad foot roller	109	1	50	106	-
		Light vehicles	103	1	10	93	-
		3T Tipper	103	1	50	100	-

Construction Stage	Period proposed (D/E/N)[1]	Plant and equipment	Individual plant item L_w, dB(A)[2]	Plant items total	Plant operating time (%)	Plant item $L_{eq\ 15min}$, dB(A)	Individual plant item L_{max}, dB(A)
		Hand tools - Plate compactor/jumping jack	106	1	25	100	-
Activity 6 – ED Haul Road Drainage Crossing	E/N	Lighting tower	80[3]	2	100	83	80
		26T Excavator	110[3]	1	75	109	110
		35T Excavator	115[3]	1	75	114	115
		Remote trench roller	107	1	25	101	115
		Pad foot roller	109	1	50	104	117
		Light vehicles	103	1	10	93	111
		3T Tipper	103	1	50	100	111
		Hand tools - Plate compactor/jumping jack	106	1	25	100	114

(1) D = OOHW Daytime period, E = OOHW Evening period, N = OOHW Night-time period.
(2) 5 dB penalty applied for high noise impact activities (where applicable), having the qualities of being Impulsive, intermittent, tonal, or low frequency. Penalty not included in displayed value.
(3) Maximum Allowable Sound Power Level as per Table 11 *Sydney Metro Western Sydney Airport Construction Noise and Vibration Strategy* (v4.2).

5.2 Out of Hours Works Discussion

Construction activities as detailed in Table 17 are assessed as part of this DNVIS across both Standard Construction and Out of Hours Periods to inform the project OOHW process and facilitate compliance with project EPL requirements.

Truck & Dog movements and Earthworks (Activity 2 and 4) has been assessed to facilitate the CPBUI Community Engagement Team's notification process for Out of Hours Material Haulage and placement through negotiated agreement, as per EPL Condition E1.1. The works include import and placement (earthworks) of materials on the SMWSA main alignment between Cosgroves Creek to Elizabeth Drive and at the Defence Establishment, Orchard Hills locations which are proposed to be undertaken outside of standard construction hours due to material (tunnel spoil) supply availability from tunnelling projects throughout Sydney who operate 24/7.

Elizabeth Drive Haul Road Drainage Crossing Works (Activity 5 and 6) are proposed to be undertaken over a single weekend shutdown (Friday night to Monday morning) due to unavoidable impacts on the SMWSA Elizabeth Drive access road resulting in fewer safety risks to the public and construction personnel. This work involves the installation of an approximately 8-meter twin cell drainage culvert across an active roadway involving the closure of the road and excavation of an approximately 2.5m deep trench for fill and drainage installation.

The Elizabeth Drive haul road is the current construction and public roadway for access to the SMWSA Construction Compound and Training Academy and works during standard construction hours is considered high risk due to elevated people and plant interaction and the proximity of the excavation to the public and construction personnel utilising the road.

5.2.1 Construction noise assessment

L_{Aeq} noise contours from the construction activity are presented in Appendix B – Noise contours. Detailed predictions of noise levels from construction activities at individual residences are presented in Appendix C – Detailed noise predictions. The degree to which the NMLs are exceeded dictates the extent of additional noise mitigation measures (refer to Section 6.2).

5.2.1.1 Day OOHW

The following summarises the noise levels and NML exceedances for each construction scenario during the out of hours daytime period as presented in Appendix C.

Table 18 - Construction noise assessment out of hours daytime summary

Construction stage	Number of receivers exceeding NMLs (Day OOHW)	Worst case predicted noise level - L_{eq} dB(A)	Number of receivers predicted to be in the highly noise affected category (> 75 dB(A))
Activity 1	152	62	0
Activity 3	9	64	0
Activity 5	2	48	0

5.2.1.2 Evening

The following summarises the noise levels and NML exceedances for each construction scenario during the out of hours evening period as presented in Appendix C.

Table 19 - Construction noise assessment evening summary

Construction stage	Number of receivers exceeding NMLs (Evening OOHW)	Worst case predicted noise level - L_{eq} dB(A)	Number of receivers predicted to be in the highly noise affected category (> 75 dB(A))
Activity 2	327	51	0
Activity 6	11	48	0

5.2.1.3 Night-time

The following summarises the noise levels and NML exceedances for each construction scenario during the most stringent out of hours Period 2 (night-time) as presented in Appendix C.

Table 20 - Construction noise assessment night-time summary

Construction stage	Number of receivers exceeding NMLs (Night OOHW)	Worst case predicted noise level - L_{eq} dB(A)	Number of receivers predicted to be in the highly noise affected category (> 75 dB(A))
Activity 2	354	51	0
Activity 4	25	45	0
Activity 6	40	48	0

5.2.1.4 Discussion on sleep disturbance and duration of works

A detailed maximum noise level event assessment has been undertaken for night-time predicted construction noise levels at the residences. A summary of exceedances by activity is provided in Table 21 and the detailed predictions for individual residences are presented in Appendix D – Sleep disturbance.

Table 21 – Sleep disturbance noise assessment

Construction stage	Number of receivers exceeding sleep screening criteria - L_{Fmax} dB(A)	Worst case predicted noise level - L_{Fmax} dB(A)
Activity 2	120	57
Activity 4	0	48
Activity 6	9	54

As shown in Table 21 the maximum noise levels are predicted to exceed the screening trigger levels for sleep disturbance at some surrounding residences during the proposed night-time activities. However, the NSW Road Noise Policy sleep disturbance research concludes that maximum internal noise levels below 50-55 dB(A) are unlikely to awaken people from sleep. An internal noise level of 50-55 dB(A) would typically equate to an external noise level of 60-65 dB(A). The maximum external noise level predicted is no more than 57 dB(A) therefore noise events from the proposed works are unlikely to awaken residences.

5.2.2 Construction traffic

The results of the construction traffic assessment presented in Table 4-31 of the EIS, and shown in Figure 3 indicate that construction road traffic noise levels are predicted to comply with relevant RNP noise criteria at the majority of project affected roads. SCAW construction traffic will access worksites via the designated heavy vehicle routes. Therefore, no additional noise mitigation or management measures would be required at these locations.

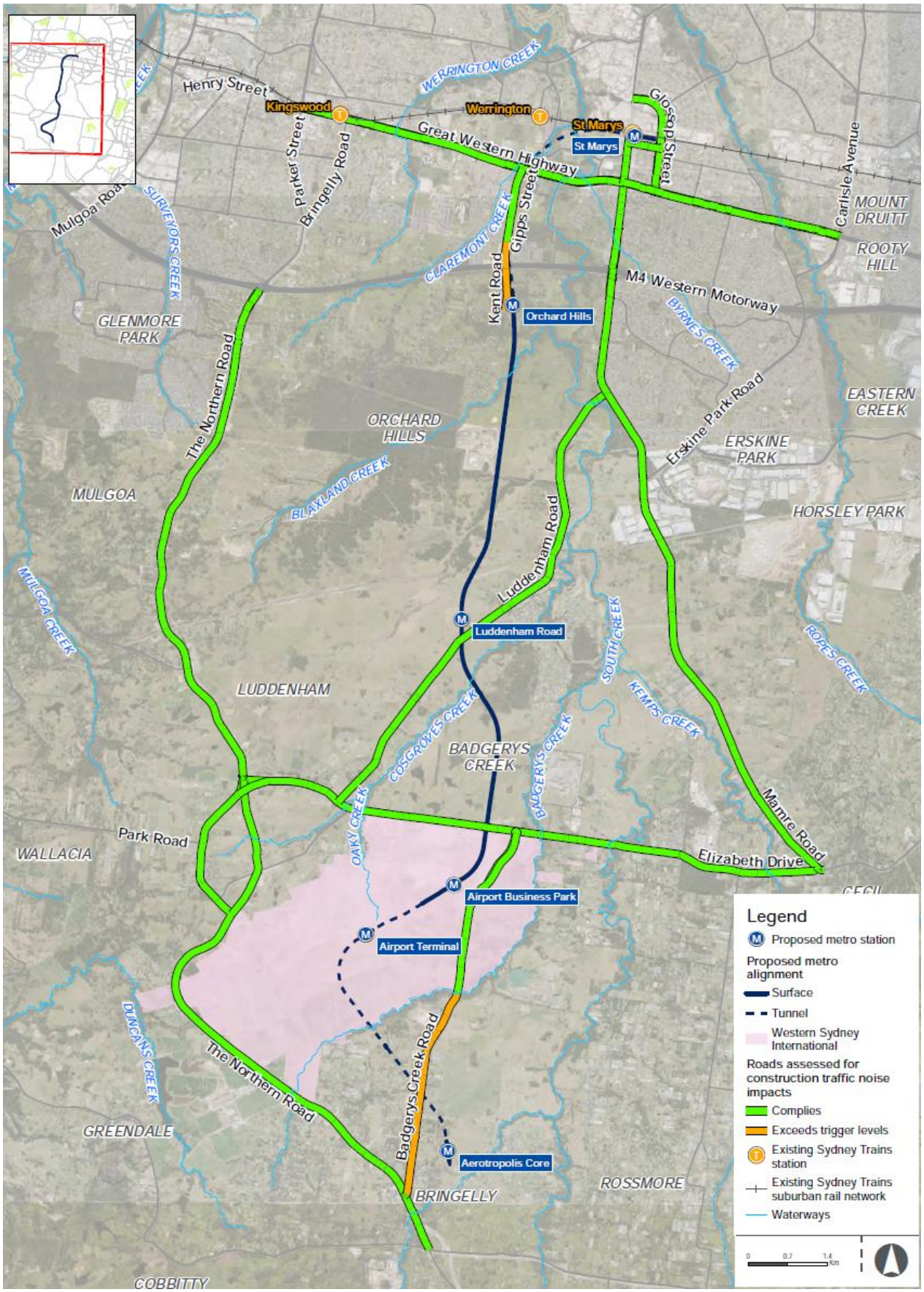


Figure 3 – Roads considered for EIS construction traffic noise assessment

5.2.2.1 Ground-borne noise

Ground-borne noise results from the transmission of vibration rather than the direct transmission of noise through the air. Ground-borne (or regenerated) construction noise is often of primary concern on tunnelling projects when vibration from activities such as rock-breaking, road heading, rotary cutting, tunnel boring and rock drilling/sawing can be transmitted through the ground and into the habitable areas of nearby buildings. Ground-borne noise occurs when this vibration in the ground and/or building elements is regenerated as audible noise within areas of occupancy inside the building.

The ICNG defines internal ground-borne noise goals for residential receivers of 40 dB(A) $L_{eq(15min)}$ during the evening (6 pm to 10 pm) and 35 dB(A) $L_{eq(15min)}$ during the night-time (10 pm to 7 am). These goals are only applicable when ground-borne noise levels are higher than airborne noise levels.

Due to the distance between construction works and receivers, ground-borne noise impacts are expected to be negligible in comparison to airborne noise impacts. For this reason, ground-borne noise is not anticipated to be the controlling factor for these proposed works and therefore further assessment is not warranted. As identified in the EIS, the application of standard mitigation measures for the control of airborne noise emissions and vibration is expected to adequately address ground-borne noise.

5.2.3 Construction vibration assessment

5.2.3.1 Cosmetic damage and human response assessment

Vibration intensive plant have not been proposed for Activities 1 to 6 therefore, additional vibration mitigation measures will not be required. There are no heritage structures in proximity to Activities 1 to 6.

6. Mitigation and Management

6.1 Standard construction noise mitigation measures

The CNVG outlines standard mitigation measures that should be incorporated by default in all construction projects. Those most relevant to the construction of the project are listed below.

- Restricting works to standard construction hours as far as practicable, considering safety and traffic management requirements
- Selecting quieter plant and equipment
- Maximising offset distances between receivers and noisy plant or activities
- Orientating plant and processes away from residences
- Regularly maintaining and monitoring plant and equipment to ensure that their noise emissions are not excessive
- Minimising the annoyance from reversing alarms by either fitting closed circuit monitors or non-tonal reversing alarms ("quackers") on vehicles or deploying 'spotters' to oversee reversing movements. Sites should be designed to minimise or remove the need for plant to undertake reversing manoeuvres
- Reducing throttle settings and switching off equipment when it's not being used.
- Screening noise-intensive processes such as jackhammering by the use of mobile screens Such screens can reduce noise levels by approximately 5-10 dB(A) where the line of sight to a receiver from the works is blocked.

6.2 Additional construction noise mitigation measures

Table 22 presents the additional mitigation measures that are recommended in the Sydney Metro *Construction Noise and Vibration Standard* that are based on the extent of NML exceedance. These predicted levels are shown by receiver for each construction stage in Appendix C – Detailed noise predictions.

Table 22 – Additional mitigation measures – airborne construction noise

Time Period		Mitigation measures predicted $L_{Aeq(15\ minute)}$ noise level above NML			
		0 to 10 dB	10 to 20 dB	20 to 30 dB	> 30 dB
Approved construction hours	Mon-Fri (7.00 am - 6.00 pm)	-	LB	LB, M, SN	LB, M, SN
	Sat (8.00 am - 1.00 pm)				
	Sun/Public Holiday (Nil)				
OOHW (Day/Evening)	Mon-Fri (6.00 pm - 10.00 pm)	LB	LB, M	LB, M, SN, RO	LB, M, SN, IB, PC, RO
	Sat (1.00 pm - 10.00 pm)				
	Sun/Public Holiday (8.00 am - 6.00 pm)				
OOOHW (Night)	Mon-Fri (10.00 pm - 7.00 am)	LB	LB, M, SN, RO	LB, M, SN, IB, PC, RO, AA	LB, M, SN, IB, PC, RO, AA
	Sat (10.00 pm - 8.00 am)				
	Sun/Public Holiday (6.00 pm - 7.00 am)				

Note: Phone calls (PC), Monitoring (M), Individual briefings (IB), alternative accommodation (AA), specific notification (SN), letterbox drop (LB), duration reduction (DR), Project specific respite offer (RO)

Additional mitigation measures by construction stage are presented in Table 23 below.

Table 23 – Additional mitigation measures by construction stage and NCA

		NCA09/ 09A	NCA10/ 10A	NCA 11
Activity 1				
OOHW 1 (Daytime)	LB	-	151	-
	LB, M	-	1	-
	LB, M, SN, RO	-	-	-
	LB, M, SN, IB, PC, RO	-	-	-
Activity 2				
OOHW 1 (Evening)	LB	-	308	-
	LB, M	-	19	-
	LB, M, SN, RO	-	-	-
	LB, M, SN, IB, PC, RO	-	-	-
OOHW 2 (Night-time)	LB	-	308	21
	LB, M, SN, RO	-	19	-
	(LB, M, SN, IB, PC, RO, AA)	-	-	-
	(LB, M, SN, IB, PC, RO, AA)	-	-	-
Activity 3				
OOHW 1 (Daytime)	LB	-	8	-
	LB, M	-	-	-
	LB, M, SN, RO	-	-	-
	LB, M, SN, IB, PC, RO	-	-	-
Activity 4				
OOHW 2 (Night-time)	LB	17	8	-
	LB, M, SN, RO	-	-	-
	(LB, M, SN, IB, PC, RO, AA)	-	-	-
	(LB, M, SN, IB, PC, RO, AA)	-	-	-
Activity 5				
OOHW 1 (Daytime)	LB	-	2	-
	LB, M	-	-	-
	LB, M, SN, RO	-	-	-
	LB, M, SN, IB, PC, RO	-	-	-
Activity 6				
OOHW 1 (Evening)	LB	-	10	-
	LB, M	-	1	-
	LB, M, SN, RO	-	-	-
	LB, M, SN, IB, PC, RO	-	-	-

		NCA09/ 09A	NCA10/ 10A	NCA 11
OOHW 2 (Night-time)	LB	-	10	29
	LB, M, SN, RO	-	1	-
	(LB, M, SN, IB, PC, RO, AA)	-	-	-
	(LB, M, SN, IB, PC, RO, AA)	-	-	-

Note: Phone calls (PC), Monitoring (M), Individual briefings (IB), alternative accommodation (AA), specific notification (SN), letterbox drop (LB), duration reduction (DR), Project specific respite offer (RO)

6.2.1 Existing mitigation for residences at Twin Creeks

Through consultation with the residences of the Twin Creeks suburb it was established a Strata requirement was in place that all properties are to be constructed with acoustic treatment. Based on the acoustic treatments required at these properties it would be appropriate to increase NMLs to these receivers a further 10dB before additional mitigation measures are initiated. If the above is considered, then a comparison of the additional mitigation measures required with this 10dB addition to the NML for Twin Creek residences is presented in Table 24.

Table 24 – Additional mitigation measures by construction stage for NCA10/10A

		NCA NML	NCA NML +10dB
Activity 1			
OOHW 1 (Daytime)	LB	-	-
	LB, M	-	-
	LB, M, SN, RO	-	-
	LB, M, SN, IB, PC, RO	-	-
Activity 2			
OOHW 1 (Evening)	LB	23	-
	LB, M	0	-
	LB, M, SN, RO	-	-
	LB, M, SN, IB, PC, RO	-	-
OOHW 2 (Night-time)	LB	23	-
	LB, M, SN, RO	0	-
	(LB, M, SN, IB, PC, RO, AA)	-	-
	(LB, M, SN, IB, PC, RO, AA)	-	-
	(LB, M, SN, IB, PC, RO, AA)	-	-

Note: Phone calls (PC), Monitoring (M), Individual briefings (IB), alternative accommodation (AA), specific notification (SN), letterbox drop (LB), duration reduction (DR), Project specific respite offer (RO)

6.3 Specific Mitigation Measures / Respite Periods

As per Condition of Approval E47 and E57, specific mitigation measures / respite periods are to be determined in consultation with impacted receivers.

The findings of this DNVIS will be used to inform the community consultation process outlined in the CPBUI Community and Stakeholder Engagement Strategy. Any receiver specific respite periods or mitigation measures identified as a result of community engagement will be included in a revision of this DNVIS.

6.4 Construction vibration

The assessments of construction vibration found that the risk of impact at surrounding receivers was low due to the large intervening distances between the construction works and surrounding receivers. As such, no specific mitigation measures are proposed, baring the limitation of use of vibratory compaction equipment within two metres of underground services.

7. Conclusion

This DNVIS has been written to inform the negotiated agreement process in the SCAW Community Engagement Strategy and support the application for an EPL variation for drainage works by including a risk assessment for drainage activities developed in accordance with AS/NZS ISO 31000:2018 as per Condition L5.7(a).

This assessment was carried out as per guidance presented in the Sydney Metro Construction Noise and Vibration Standard and the Construction Noise and Vibration Management Plan and identifies activities that would potentially exceed the day, evening and night-time NMLs for receivers, which are presented in Table 18, Table 19 and Table 20.

All activities during all periods have been predicted to not be highly noise affected for the surrounding residences.

Due to the distances between construction works and receivers, ground-borne noise impacts are expected to be negligible in comparison to airborne noise impacts. For this reason, ground-borne noise is not anticipated to be the controlling factor for these proposed works and therefore further assessment is not warranted. As identified in the EIS, the application of standard mitigation measures for the control of airborne noise emissions and vibration is expected to adequately address ground-borne noise.

The assessments of construction vibration found that the risk of impact at surrounding receivers was low due to the large intervening distances between the construction works and surrounding receivers. As such, no specific mitigation measures are proposed.

A DNVIS has been completed to support the proposed out of hours works.

Appendix A – Site layout and works areas

S220189 SCAW DNVIS 5C
Construction Stage Activities
1 of 2

PROJECT NUMBER	S220189
DRAWN BY	AS
CHECKED BY	RS
DATE ISSUED	September 2023

Legend

- Noise Catchement Areas
- Proposed metro alignment
- Activity 1 & 2
- Activity 5 & 6

N

250 500 750 1,000 m

Datum GDA2020, Projection MGA ZONE 56

Resonate

S220189 SCAW DNVIS 5C
Construction Stage Activities
2 of 2

PROJECT NUMBER	S220189
DRAWN BY	AS
CHECKED BY	RS
DATE ISSUED	September 2023

Legend

- Noise Catchement Areas
- Proposed metro alignment
- Activity 3
- Activity 4

N

250 500 750 1,000 m

Datum GDA2020, Projection MGA ZONE 56

Resonate

Appendix B – Noise contours

S220189 SCAW DNVIS 5C

Activity 1 Noise Contours

PROJECT NUMBER	S220189
DRAWN BY	AS
CHECKED BY	RS
DATE ISSUED	September 2023

Legend

- Noise Catchment Areas
- Proposed Metro Alignment

Predicted Noise Levels, Leq dB(A)

Activity 1 - contours

- 35 - 40
- 40 - 45
- 45 - 50
- 50 - 55
- 55 - 60
- 60 - 65
- 65 - 70
- 70 - 75
- 75 - 80
- 80+

N

300 600 900 1,200 m

Datum GDA2020, Projection MGA ZONE 56

Resonate

S220189 SCAW DNVIS 5C

Activity 2 Noise contours

PROJECT NUMBER	S220189
DRAWN BY	AS
CHECKED BY	RS
DATE ISSUED	September 2023

Legend

Noise Catchment Areas

Proposed Metro Alignment

Predicted Noise Levels, Leq dB(A)

Activity 2 - contours

- 35 - 40
- 40 - 45
- 45 - 50
- 50 - 55
- 55 - 60
- 60 - 65
- 65 - 70
- 70 - 75
- 75 - 80
- 80+

N

300 600 900 1,200 m

Datum GDA2020, Projection MGA ZONE 56

Resonate

NCA 10

NCA 10A

NCA 11

NCA 08A

NCA 08

NCA 07

NCA 09

NCA 09A

NCA 10

S220189 SCAW DNVIS 5C

Activity 3 Noise contours

PROJECT NUMBER	S220189
DRAWN BY	AS
CHECKED BY	RS
DATE ISSUED	September 2023

Legend

- Noise Catchment Areas
- Proposed Metro Alignment

Predicted Noise Levels, Leq dB(A)

Activity 3 - contours

- 35 - 40
- 40 - 45
- 45 - 50
- 50 - 55
- 55 - 60
- 60 - 65
- 65 - 70
- 70 - 75
- 75 - 80
- 80+

N

300 600 900 1,200 m

Datum GDA2020, Projection MGA ZONE 56

Resonate

NCA 08A

NCA 08

NCA 07

NCA 09A

NCA 09

NCA 10

S220189 SCAW DNVIS 5C

Activity 4 Noise contours

PROJECT NUMBER	S220189
DRAWN BY	AS
CHECKED BY	RS
DATE ISSUED	September 2023

Legend

Noise Catchment Areas

Proposed Metro Alignment

Predicted Noise Levels, Leq dB(A)

Activity 4 - contours

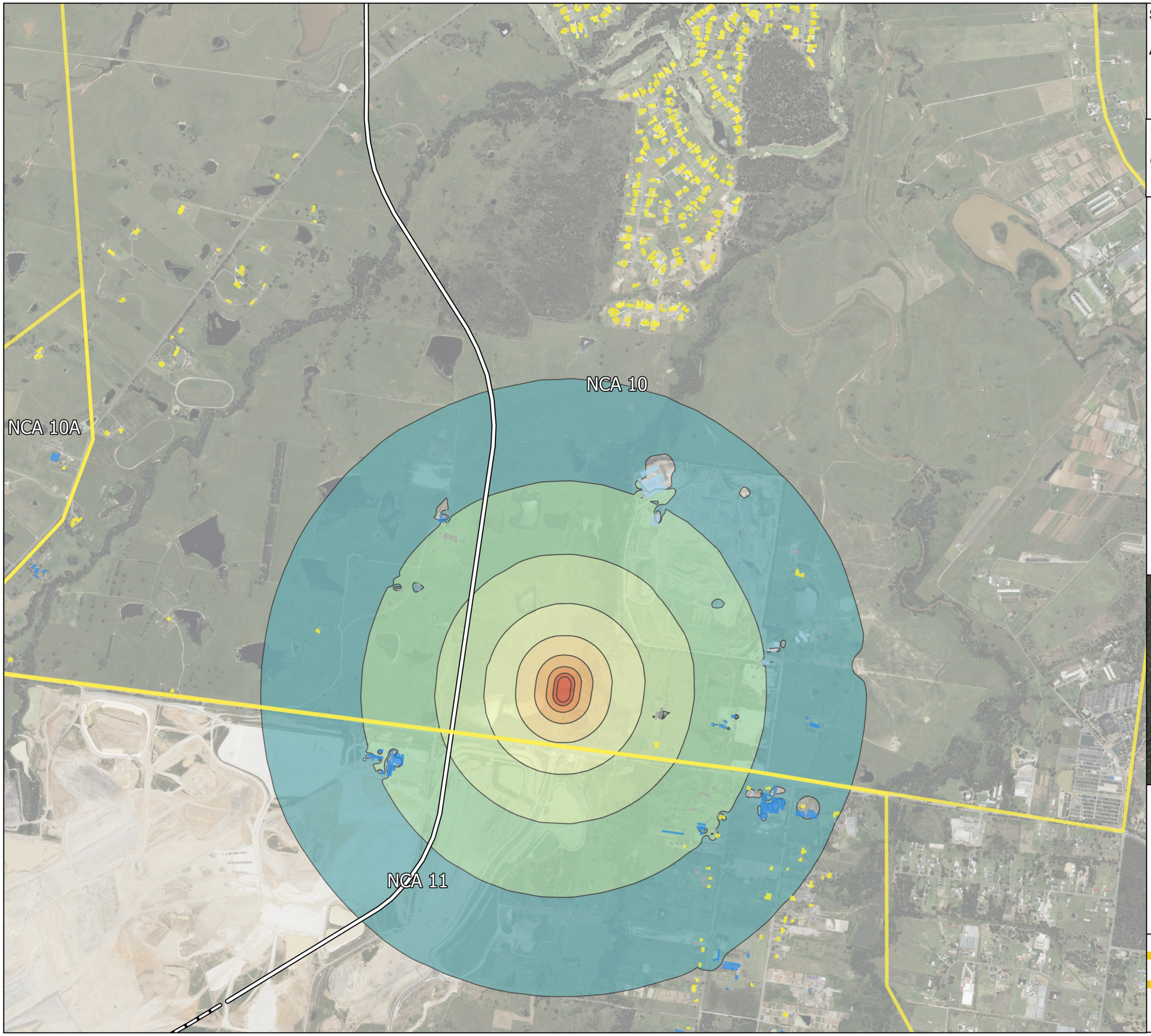
- 35 - 40
- 40 - 45
- 45 - 50
- 50 - 55
- 55 - 60
- 60 - 65
- 65 - 70
- 70 - 75
- 75 - 80
- 80+

N

300 600 900 1,200 m

Datum GDA2020, Projection MGA ZONE 56

Resonate



S220189 SCAW DNVIS 5C

Activity 5 Noise Contours

PROJECT NUMBER	S220189
DRAWN BY	AS
CHECKED BY	RS
DATE ISSUED	September 2023

Legend

- Noise Catchment Areas
- Proposed Metro Alignment

Predicted Noise Levels, Leq dB(A)

Activity 5 - contours

- 35 - 40
- 40 - 45
- 45 - 50
- 50 - 55
- 55 - 60
- 60 - 65
- 65 - 70
- 70 - 75
- 75 - 80
- 80+

N

300 600 900 1,200 m

Datum GDA2020, Projection MGA ZONE 56

Resonate

S220189 SCAW DNVIS 5C

Activity 6 Noise Contours

PROJECT NUMBER	S220189
DRAWN BY	AS
CHECKED BY	RS
DATE ISSUED	September 2023

Legend

- Noise Catchment Areas
- Proposed Metro Alignment

Predicted Noise Levels, Leq dB(A)

Activity 6 - contours

- 35 - 40
- 40 - 45
- 45 - 50
- 50 - 55
- 55 - 60
- 60 - 65
- 65 - 70
- 70 - 75
- 75 - 80
- 80+

N

300 600 900 1,200 m

Datum GDA2020, Projection MGA ZONE 56

Resonate

Appendix C – Detailed noise predictions

Predicted OOHW Daytime construction noise levels

Residential colour code additional mitigation measures:
Bold = Highly noise affected

0 to 10 dB: -
10 to 20 dB: LB
20 to 30 dB: LB, M, SN
Greater than 30 dB: LB, M, SN

No.	NCA	Usage	Rec	Address	Unique ID	NML	Activity 1 - Leq dB(A)	Activity 3 - Leq dB(A)	Activity 5 - Leq dB(A)
39603	NCA9	COM	8		5113	70	0	34	0
39613	NCA9	COM	16		5121	70	0	30	0
39619	NCA9	COM	17		5122	70	0	32	0
39623	NCA9	COM	28		5133	70	0	31	0
39629	NCA9	COM	30		5135	70	0	31	0
39633	NCA9	COM	37		5142	70	0	32	0
39637	NCA9	COM	38		5143	70	0	31	0
39641	NCA9	COM	42		5147	70	0	31	0
39645	NCA9	COM	50		5155	70	0	32	0
39649	NCA9	COM	55		5160	70	0	32	0
39655	NCA9	COM	67		5172	70	0	30	0
39659	NCA9	COM	71	44 Luddenham Rd, Orchard Hills	5176	70	0	36	0
39671	NCA9	COM	335	44 LUDDENHAM ROAD	5440	70	0	36	0
39683	NCA9	COM	338	367-369 MAMRE ROAD	5443	70	0	30	0
39692	NCA9	COM	399	123-179 PATONS LANE	5504	70	0	49	0
39724	NCA9	COM	405	2042-2550 THE NORTHERN ROAD	5510	70	0	36	0
39728	NCA9	COM	409	2042-2550 THE NORTHERN ROAD	5514	70	0	36	0
39732	NCA9	COM	768	2042-2550 THE NORTHERN ROAD	6284	70	0	0	0
39736	NCA9	COM	775	2042-2550 THE NORTHERN ROAD	6291	70	0	0	0
39740	NCA9	IND	72	45047 DISTRIBUTION DRIVE	5177	75	0	0	0
39763	NCA9	IND	73	45047 DISTRIBUTION DRIVE	5178	75	0	0	0
39773	NCA9	IND	76	45047 DISTRIBUTION DRIVE	5181	75	0	0	0
39777	NCA9	IND	77	45047 DISTRIBUTION DRIVE	5182	75	0	0	0
39781	NCA9	IND	78	45047 DISTRIBUTION DRIVE	5183	75	0	0	0
39797	NCA9	IND	80	45047 DISTRIBUTION DRIVE	5185	75	0	0	0
39801	NCA9	IND	81	45047 DISTRIBUTION DRIVE	5186	75	0	0	0
39809	NCA9	IND	82	45270 DISTRIBUTION DRIVE	5187	75	0	30	0
39827	NCA9	IND	83	45270 DISTRIBUTION DRIVE	5188	75	0	30	0
39831	NCA9	IND	84	45270 DISTRIBUTION DRIVE	5189	75	0	32	0
39837	NCA9	IND	85	45270 DISTRIBUTION DRIVE	5190	75	0	29	0
39841	NCA9	IND	86	45270 DISTRIBUTION DRIVE	5191	75	0	31	0
39852	NCA9	IND	87	45270 DISTRIBUTION DRIVE	5192	75	0	27	0
39859	NCA9	IND	88	15 DISTRIBUTION DRIVE	5193	75	0	31	0
39867	NCA9	IND	89	17-19 DISTRIBUTION DRIVE	5194	75	0	30	0
39885	NCA9	IND	90	2 DISTRIBUTION DRIVE	5195	75	0	0	0
39899	NCA9	IND	91	2 DISTRIBUTION DRIVE	5196	75	0	0	0
39904	NCA9	IND	92	45144 DISTRIBUTION DRIVE	5197	75	0	29	0
39907	NCA9	IND	93	45144 DISTRIBUTION DRIVE	5198	75	0	0	0
39915	NCA9	IND	94	45144 DISTRIBUTION DRIVE	5199	75	0	0	0
39919	NCA9	IND	95	45144 DISTRIBUTION DRIVE	5200	75	0	0	0
39923	NCA9	IND	96	45144 DISTRIBUTION DRIVE	5201	75	0	29	0
39940	NCA9	IND	98	45176 DISTRIBUTION DRIVE	5203	75	0	27	0
39961	NCA9	IND	101	45176 DISTRIBUTION DRIVE	5206	75	0	28	0
39965	NCA9	IND	102	45176 DISTRIBUTION DRIVE	5207	75	0	0	0
39971	NCA9	IND	103	45239 DISTRIBUTION DRIVE	5208	75	0	31	0

Predicted OOHW Daytime construction noise levels

Residential colour code additional mitigation measures:
Bold = Highly noise affected

0 to 10 dB: -
10 to 20 dB: LB
20 to 30 dB: LB, M, SN
Greater than 30 dB: LB, M, SN

No.	NCA	Usage	Rec	Address	Unique ID	NML	Activity 1 - Leq dB(A)	Activity 3 - Leq dB(A)	Activity 5 - Leq dB(A)
40019	NCA9	IND	400	123-179 PATONS LANE	5505	75	0	58	0
40034	NCA9	IND	402	123-179 PATONS LANE	5507	75	0	39	0
40038	NCA9	IND	404	123-179 PATONS LANE	5509	75	0	48	0
41128	NCA9	RES	1		5106	45	0	31	0
41132	NCA9	RES	15		5120	45	0	32	0
41140	NCA9	RES	19		5124	45	0	31	0
41146	NCA9	RES	20		5125	45	0	33	0
41158	NCA9	RES	23		5128	45	0	31	0
41167	NCA9	RES	31		5136	45	0	32	0
41174	NCA9	RES	34		5139	45	0	32	0
41179	NCA9	RES	39		5144	45	0	34	0
41206	NCA9	RES	43		5148	45	0	31	0
41210	NCA9	RES	47		5152	45	0	33	0
41214	NCA9	RES	57		5162	45	0	34	0
41220	NCA9	RES	58		5163	45	0	31	0
41224	NCA9	RES	63		5168	45	0	34	0
41233	NCA9	RES	65		5170	45	0	32	0
41241	NCA9	RES	66		5171	45	0	32	0
41245	NCA9	RES	105	117-199 LUDDENHAM ROAD	5210	45	0	36	0
41249	NCA9	RES	106	117-199 LUDDENHAM ROAD	5211	45	0	40	0
41257	NCA9	RES	107	117-199 LUDDENHAM ROAD	5212	45	0	39	0
41268	NCA9	RES	108	117-199 LUDDENHAM ROAD	5213	45	0	40	0
41279	NCA9	RES	109	117-199 LUDDENHAM ROAD	5214	45	0	40	0
41284	NCA9	RES	113	117-199 LUDDENHAM ROAD	5218	45	0	39	0
41292	NCA9	RES	116	117-199 LUDDENHAM ROAD	5221	45	0	41	0
41296	NCA9	RES	118	117-199 LUDDENHAM ROAD	5223	45	0	39	0
41300	NCA9	RES	119	117-199 LUDDENHAM ROAD	5224	45	0	43	0
41304	NCA9	RES	126	117-199 LUDDENHAM ROAD	5231	45	0	40	0
41312	NCA9	RES	128	182-200 LUDDENHAM ROAD	5233	45	0	37	0
41318	NCA9	RES	129	182-200 LUDDENHAM ROAD	5234	45	0	37	0
41323	NCA9	RES	132	202-210 LUDDENHAM ROAD	5237	45	0	36	0
41329	NCA9	RES	133	202-210 LUDDENHAM ROAD	5238	45	0	39	0
41338	NCA9	RES	134	202-210 LUDDENHAM ROAD	5239	45	0	36	0
41352	NCA9	RES	135	212-214 LUDDENHAM ROAD	5240	45	0	36	0
41358	NCA9	RES	137	212-214 LUDDENHAM ROAD	5242	45	0	38	0
41378	NCA9	RES	139	212-214 LUDDENHAM ROAD	5244	45	0	39	0
41397	NCA9	RES	140	212-214 LUDDENHAM ROAD	5245	45	0	36	0
41403	NCA9	RES	142	216 LUDDENHAM ROAD	5247	45	0	36	0
41408	NCA9	RES	144	216 LUDDENHAM ROAD	5249	45	0	36	0
41419	NCA9	RES	146	216 LUDDENHAM ROAD	5251	45	0	38	0
41427	NCA9	RES	173	221-227 LUDDENHAM ROAD	5278	45	0	38	0
41431	NCA9	RES	174	221-227 LUDDENHAM ROAD	5279	45	0	36	0
41435	NCA9	RES	203	221-227 LUDDENHAM ROAD	5308	45	0	40	0
41445	NCA9	RES	209	221-227 LUDDENHAM ROAD	5314	45	0	38	0
41453	NCA9	RES	224	222-224 LUDDENHAM ROAD	5329	45	0	35	0

Predicted OOHW Daytime construction noise levels

Residential colour code additional mitigation measures:
Bold = Highly noise affected

0 to 10 dB: -
10 to 20 dB: LB
20 to 30 dB: LB, M, SN
Greater than 30 dB: LB, M, SN

No.	NCA	Usage	Rec	Address	Unique ID	NML	Activity 1 - Leq dB(A)	Activity 3 - Leq dB(A)	Activity 5 - Leq dB(A)
41457	NCA9	RES	228	222B LUDDENHAM ROAD	5333	45	0	38	0
41473	NCA9	RES	229	226-228 LUDDENHAM ROAD	5334	45	0	35	0
41477	NCA9	RES	230	226-228 LUDDENHAM ROAD	5335	45	0	36	0
41487	NCA9	RES	232	226-228 LUDDENHAM ROAD	5337	45	0	35	0
41491	NCA9	RES	234	229-231 LUDDENHAM ROAD	5339	45	0	40	0
41499	NCA9	RES	243	230-234 LUDDENHAM ROAD	5348	45	0	38	0
41512	NCA9	RES	244	230-234 LUDDENHAM ROAD	5349	45	0	35	0
41521	NCA9	RES	246	233-249 LUDDENHAM ROAD	5351	45	0	39	0
41527	NCA9	RES	252	236-238 LUDDENHAM ROAD	5357	45	0	37	0
41540	NCA9	RES	255	236-238 LUDDENHAM ROAD	5360	45	0	35	0
41550	NCA9	RES	256	240-244 LUDDENHAM ROAD	5361	45	0	35	0
41554	NCA9	RES	259	240-244 LUDDENHAM ROAD	5364	45	0	36	0
41560	NCA9	RES	261	240-244 LUDDENHAM ROAD	5366	45	0	38	0
41578	NCA9	RES	263	246-248 LUDDENHAM ROAD	5368	45	0	34	0
41582	NCA9	RES	264	246-248 LUDDENHAM ROAD	5369	45	0	35	0
41601	NCA9	RES	267	246-248 LUDDENHAM ROAD	5372	45	0	35	0
41605	NCA9	RES	268	250-254 LUDDENHAM ROAD	5373	45	0	34	0
41611	NCA9	RES	269	250-254 LUDDENHAM ROAD	5374	45	0	34	0
41619	NCA9	RES	270	250-254 LUDDENHAM ROAD	5375	45	0	37	0
41623	NCA9	RES	272	250-254 LUDDENHAM ROAD	5377	45	0	35	0
41645	NCA9	RES	274	250-254 LUDDENHAM ROAD	5379	45	0	34	0
41649	NCA9	RES	276	251-261 LUDDENHAM ROAD	5381	45	0	37	0
41653	NCA9	RES	280	251-261 LUDDENHAM ROAD	5385	45	0	37	0
41659	NCA9	RES	281	256 LUDDENHAM ROAD	5386	45	0	37	0
41678	NCA9	RES	282	256 LUDDENHAM ROAD	5387	45	0	36	0
41689	NCA9	RES	283	262-266 LUDDENHAM ROAD	5388	45	0	34	0
41694	NCA9	RES	284	262-266 LUDDENHAM ROAD	5389	45	0	34	0
41698	NCA9	RES	285	262-266 LUDDENHAM ROAD	5390	45	0	35	0
41702	NCA9	RES	289	262-266 LUDDENHAM ROAD	5394	45	0	35	0
41713	NCA9	RES	290	263-273 LUDDENHAM ROAD	5395	45	0	38	0
41717	NCA9	RES	292	268-288 LUDDENHAM ROAD	5397	45	0	35	0
41721	NCA9	RES	293	275-285 LUDDENHAM ROAD	5398	45	0	37	0
41726	NCA9	RES	297	275-285 LUDDENHAM ROAD	5402	45	0	37	0
41732	NCA9	RES	298	275-285 LUDDENHAM ROAD	5403	45	0	37	0
41748	NCA9	RES	299	275A LUDDENHAM ROAD	5404	45	0	37	0
41752	NCA9	RES	302	275A LUDDENHAM ROAD	5407	45	0	40	0
41774	NCA9	RES	303	287 LUDDENHAM ROAD	5408	45	0	39	0
41785	NCA9	RES	305	287 LUDDENHAM ROAD	5410	45	0	37	0
41791	NCA9	RES	307	289-317 LUDDENHAM ROAD	5412	45	0	39	0
41813	NCA9	RES	308	289-317 LUDDENHAM ROAD	5413	45	0	39	0
41821	NCA9	RES	309	31-39 LUDDENHAM ROAD	5414	45	0	28	0
41836	NCA9	RES	312	319-325 LUDDENHAM ROAD	5417	45	22	41	0
41840	NCA9	RES	313	319-325 LUDDENHAM ROAD	5418	45	21	39	0
41848	NCA9	RES	314	319-325 LUDDENHAM ROAD	5419	45	28	41	0
41855	NCA9	RES	315	319-325 LUDDENHAM ROAD	5420	45	24	41	0

Predicted OOHW Daytime construction noise levels

Residential colour code additional mitigation measures:
Bold = Highly noise affected

0 to 10 dB: -
10 to 20 dB: LB
20 to 30 dB: LB, M, SN
Greater than 30 dB: LB, M, SN

No.	NCA	Usage	Rec	Address	Unique ID	NML	Activity 1 - Leq dB(A)	Activity 3 - Leq dB(A)	Activity 5 - Leq dB(A)
41863	NCA9	RES	317	319-325 LUDDENHAM ROAD	5422	45	21	38	0
41868	NCA9	RES	319	320-326 LUDDENHAM ROAD	5424	45	0	36	0
41899	NCA9	RES	321	327-329 LUDDENHAM ROAD	5426	45	31	64	0
41900	NCA9	RES	322	43A LUDDENHAM ROAD	5427	45	0	34	0
41908	NCA9	RES	323	43A LUDDENHAM ROAD	5428	45	0	36	0
41912	NCA9	RES	325	43A LUDDENHAM ROAD	5430	45	0	37	0
41916	NCA9	RES	328	43A LUDDENHAM ROAD	5433	45	0	40	0
41930	NCA9	RES	331	43A LUDDENHAM ROAD	5436	45	0	38	0
41934	NCA9	RES	343	573-577 MAMRE ROAD	5448	45	0	0	0
41950	NCA9	RES	344	573-577 MAMRE ROAD	5449	45	0	0	0
41954	NCA9	RES	346	43466 MANDALONG CLOSE	5451	45	0	29	0
41971	NCA9	RES	348	21A MANDALONG CLOSE	5453	45	0	29	0
41997	NCA9	RES	349	21A MANDALONG CLOSE	5454	45	0	27	0
42003	NCA9	RES	351	25-31 MANDALONG CLOSE	5456	45	0	28	0
42009	NCA9	RES	353	25-31 MANDALONG CLOSE	5458	45	0	28	0
42017	NCA9	RES	354	25-31 MANDALONG CLOSE	5459	45	0	30	0
42045	NCA9	RES	355	33-41 MANDALONG CLOSE	5460	45	0	28	0
42049	NCA9	RES	356	33-41 MANDALONG CLOSE	5461	45	0	30	0
42069	NCA9	RES	357	33-41 MANDALONG CLOSE	5462	45	0	28	0
42081	NCA9	RES	360	43-51 MANDALONG CLOSE	5465	45	0	29	0
42090	NCA9	RES	361	43-51 MANDALONG CLOSE	5466	45	0	29	0
42094	NCA9	RES	362	43-51 MANDALONG CLOSE	5467	45	0	29	0
42098	NCA9	RES	363	43-51 MANDALONG CLOSE	5468	45	0	30	0
42128	NCA9	RES	364	53-63 MANDALONG CLOSE	5469	45	0	29	0
42139	NCA9	RES	366	53-63 MANDALONG CLOSE	5471	45	0	28	0
42147	NCA9	RES	367	53-63 MANDALONG CLOSE	5472	45	0	32	0
42168	NCA9	RES	368	53-63 MANDALONG CLOSE	5473	45	0	32	0
42185	NCA9	RES	370	65-73 MANDALONG CLOSE	5475	45	0	30	0
42195	NCA9	RES	373	65-73 MANDALONG CLOSE	5478	45	0	33	0
42213	NCA9	RES	374	65-73 MANDALONG CLOSE	5479	45	0	30	0
42224	NCA9	RES	375	65-73 MANDALONG CLOSE	5480	45	0	30	0
42239	NCA9	RES	376	75-77 MANDALONG CLOSE	5481	45	0	33	0
42262	NCA9	RES	377	79-81 MANDALONG CLOSE	5482	45	0	32	0
42268	NCA9	RES	380	79-81 MANDALONG CLOSE	5485	45	0	34	0
42284	NCA9	RES	381	79-81 MANDALONG CLOSE	5486	45	0	32	0
42292	NCA9	RES	382	79-81 MANDALONG CLOSE	5487	45	0	32	0
42300	NCA9	RES	384	79-81 MANDALONG CLOSE	5489	45	0	31	0
42314	NCA9	RES	385	79-81 MANDALONG CLOSE	5490	45	0	31	0
42320	NCA9	RES	386	79-81 MANDALONG CLOSE	5491	45	0	32	0
42329	NCA9	RES	387	79-81 MANDALONG CLOSE	5492	45	0	31	0
42337	NCA9	RES	392	83-91 MANDALONG CLOSE	5497	45	0	32	0
42364	NCA9	RES	393	83-91 MANDALONG CLOSE	5498	45	0	31	0
42370	NCA9	RES	396	83-91 MANDALONG CLOSE	5501	45	0	31	0
42389	NCA9	RES	398	83-91 MANDALONG CLOSE	5503	45	0	33	0
42394	NCA9	RES	755	2042-2550 THE NORTHERN ROAD	6271	45	0	27	0

Predicted OOHW Daytime construction noise levels

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No.	NCA	Usage	Rec	Address	Unique ID	NML	Activity 1 - Leq dB(A)	Activity 3 - Leq dB(A)	Activity 5 - Leq dB(A)
42409	NCA9	RES	756	2042-2550 THE NORTHERN ROAD	6272	45	0	27	0
42413	NCA9	RES	761	2042-2550 THE NORTHERN ROAD	6277	45	0	27	0
42425	NCA9	RES	762	2042-2550 THE NORTHERN ROAD	6278	45	0	0	0
42429	NCA9	RES	763	2042-2550 THE NORTHERN ROAD	6279	45	0	27	0
42437	NCA9	RES	766	2042-2550 THE NORTHERN ROAD	6282	45	0	27	0
42447	NCA9	RES	767	2042-2550 THE NORTHERN ROAD	6283	45	0	27	0
42457	NCA9	RES	769	2042-2550 THE NORTHERN ROAD	6285	45	0	27	0
42476	NCA9	RES	772	2042-2550 THE NORTHERN ROAD	6288	45	0	28	0
42486	NCA9	RES	774	2042-2550 THE NORTHERN ROAD	6290	45	0	0	0
42499	NCA10	COM	1		1	70	31	33	0
42503	NCA10	COM	7	1669-1723 ELIZABETH DRIVE	7	70	35	0	37
42505	NCA10	COM	8	1669-1723 ELIZABETH DRIVE	8	70	35	0	38
42518	NCA10	COM	11	1669-1723 ELIZABETH DRIVE	11	70	38	0	40
42522	NCA10	COM	45	1745 ELIZABETH DRIVE	45	70	41	0	43
42533	NCA10	COM	46	1745 ELIZABETH DRIVE	46	70	42	0	44
42539	NCA10	COM	47	1745 ELIZABETH DRIVE	47	70	39	0	42
42543	NCA10	COM	48	1745 ELIZABETH DRIVE	48	70	39	0	43
42552	NCA10	COM	49	1745 ELIZABETH DRIVE	49	70	39	0	43
42560	NCA10	COM	65	1953-2109 ELIZABETH DRIVE	65	70	59	0	40
42574	NCA10	COM	68	1953-2109 ELIZABETH DRIVE	68	70	59	0	40
42583	NCA10	COM	74	1953-2109 ELIZABETH DRIVE	74	70	61	0	40
42587	NCA10	COM	92	1953-2109 ELIZABETH DRIVE	92	70	62	0	40
42602	NCA10	COM	267	350 LUDDENHAM ROAD	267	70	33	32	0
42617	NCA10	COM	269	350-352 LUDDENHAM ROAD	269	70	31	34	0
42623	NCA10	COM	271	350-352 LUDDENHAM ROAD	271	70	31	35	0
42625	NCA10	COM	376	2510-2550 ELIZABETH DRIVE	5892	70	0	0	0
42631	NCA10	COM	377	2510-2550 ELIZABETH DRIVE	5893	70	0	0	0
42635	NCA10	COM	378	2510-2550 ELIZABETH DRIVE	5894	70	0	0	0
42641	NCA10	COM	381	2510-2550 ELIZABETH DRIVE	5897	70	0	0	0
42647	NCA10	COM	384	2510-2550 ELIZABETH DRIVE	5900	70	0	0	0
42655	NCA10	COM	385	2510-2550 ELIZABETH DRIVE	5901	70	0	0	0
42663	NCA10	COM	387	2510-2550 ELIZABETH DRIVE	5903	70	0	0	0
42669	NCA10	COM	388	846-890 LUDDENHAM ROAD	388	70	35	0	0
42678	NCA10	COM	389	2510-2550 ELIZABETH DRIVE	5905	70	0	0	0
42688	NCA10	COM	392	846-890 LUDDENHAM ROAD	392	70	33	0	0
42689	NCA10	COM	397	846-890 LUDDENHAM ROAD	397	70	36	0	0
42703	NCA10	COM	399	846-890 LUDDENHAM ROAD	399	70	32	0	0
42714	NCA10	COM	404	777-819 LUDDENHAM ROAD	5920	70	35	0	0
42728	NCA10	COM	414	846-890 LUDDENHAM ROAD	414	70	35	0	0
42738	NCA10	COM	416	823-849 LUDDENHAM ROAD	5932	70	27	0	0
42739	NCA10	COM	417	823-849 LUDDENHAM ROAD	5933	70	0	0	0
42750	NCA10	COM	418	823-849 LUDDENHAM ROAD	5934	70	31	0	0
42757	NCA10	COM	419	823-849 LUDDENHAM ROAD	5935	70	21	0	0
42770	NCA10	COM	425	846-890 LUDDENHAM ROAD	425	70	32	0	0
42773	NCA10	COM	434	869-885 LUDDENHAM ROAD	5950	70	31	0	0

Predicted OOHW Daytime construction noise levels

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42783	NCA10	COM	436	869A LUDDENHAM ROAD	5952	70	30	0	0
42788	NCA10	COM	637	45140 TWIN CREEKS DRIVE	637	70	35	33	0
42791	NCA10	COM	638	45140 TWIN CREEKS DRIVE	638	70	31	35	0
42809	NCA10	COM	639	45140 TWIN CREEKS DRIVE	639	70	35	35	0
42811	NCA10	COM	640	45140 TWIN CREEKS DRIVE	640	70	31	33	0
42846	NCA10	COM	641	45140 TWIN CREEKS DRIVE	641	70	36	35	0
42848	NCA10	IND	20	1669A ELIZABETH DRIVE	20	75	36	0	38
42856	NCA10	IND	21	1669A ELIZABETH DRIVE	21	75	37	0	37
42872	NCA10	IND	28	1669A ELIZABETH DRIVE	28	75	39	0	40
42884	NCA10	IND	29	1725A ELIZABETH DRIVE	29	75	48	0	39
42892	NCA10	IND	30	1725A ELIZABETH DRIVE	30	75	37	0	40
42906	NCA10	IND	32	1725A ELIZABETH DRIVE	32	75	48	0	35
42941	NCA10	IND	33	1725A ELIZABETH DRIVE	33	75	48	0	42
42950	NCA10	IND	34	1725A ELIZABETH DRIVE	34	75	35	0	28
42954	NCA10	IND	35	1725A ELIZABETH DRIVE	35	75	45	0	41
42960	NCA10	IND	41	1725A ELIZABETH DRIVE	41	75	40	0	40
42979	NCA10	IND	43	1725A ELIZABETH DRIVE	43	75	37	0	39
42982	NCA10	IND	44	1725A ELIZABETH DRIVE	44	75	40	0	40
43002	NCA10	IND	102	757-769 MAMRE ROAD	102	75	0	0	0
43010	NCA10	IND	341	2179 ELIZABETH DRIVE	5857	75	0	0	0
43017	NCA10	IND	342	2179 ELIZABETH DRIVE	5858	75	0	0	0
43021	NCA10	IND	344	2179 ELIZABETH DRIVE	5860	75	0	0	0
43028	NCA10	IND	347	2179A ELIZABETH DRIVE	5863	75	0	0	0
43035	NCA10	IND	348	2179A ELIZABETH DRIVE	5864	75	0	0	0
43039	NCA10	IND	349	2179A ELIZABETH DRIVE	5865	75	0	0	0
43045	NCA10	IND	351	2179A ELIZABETH DRIVE	5867	75	0	0	0
43049	NCA10	IND	352	2179A ELIZABETH DRIVE	5868	75	0	0	0
43053	NCA10	IND	353	2179A ELIZABETH DRIVE	5869	75	0	0	0
44914	NCA10	RES	5		5	40	32	31	0
44923	NCA10	RES	16	1669A ELIZABETH DRIVE	16	40	37	0	37
44936	NCA10	RES	26	1669A ELIZABETH DRIVE	26	40	38	0	37
44943	NCA10	RES	52	1783-1789 ELIZABETH DRIVE	52	40	45	0	48
44953	NCA10	RES	81	1953-2109 ELIZABETH DRIVE	81	40	37	0	31
44954	NCA10	RES	82	1953-2109 ELIZABETH DRIVE	82	40	41	0	32
44971	NCA10	RES	88	1953-2109 ELIZABETH DRIVE	88	40	48	0	40
44977	NCA10	RES	97	707A MAMRE ROAD	97	40	0	29	0
44992	NCA10	RES	99	707A MAMRE ROAD	99	40	0	29	0
45022	NCA10	RES	104	3 BRIDPORT PLACE	104	40	46	0	31
45032	NCA10	RES	105	4 BRIDPORT PLACE	105	40	46	27	30
45036	NCA10	RES	106	4 BRIDPORT PLACE	106	40	45	27	33
45074	NCA10	RES	107	10 COMARGO LANE	107	40	31	38	0
45086	NCA10	RES	108	2 COMARGO LANE	108	40	31	34	0
45102	NCA10	RES	109	2 COMARGO LANE	109	40	34	37	0
45124	NCA10	RES	111	4 COMARGO LANE	111	40	31	37	0
45140	NCA10	RES	112	6 COMARGO LANE	112	40	34	35	0

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45159	NCA10	RES	113	8 COMARGO LANE	113	40	31	36	0
45164	NCA10	RES	114	2 CRYSTAL DOWNS CLOSE	114	40	36	31	0
45181	NCA10	RES	115	3 CRYSTAL DOWNS CLOSE	115	40	36	33	0
45212	NCA10	RES	116	4 CRYSTAL DOWNS CLOSE	116	40	35	35	0
45221	NCA10	RES	118	5 CRYSTAL DOWNS CLOSE	118	40	35	33	0
45241	NCA10	RES	119	6 CRYSTAL DOWNS CLOSE	119	40	36	34	0
45269	NCA10	RES	120	7 CRYSTAL DOWNS CLOSE	120	40	36	34	0
45277	NCA10	RES	121	8 CRYSTAL DOWNS CLOSE	121	40	34	32	0
45289	NCA10	RES	122	10 DORAL GROVE	122	40	39	34	0
45296	NCA10	RES	125	11 DORAL GROVE	125	40	34	33	0
45315	NCA10	RES	126	3 DORAL GROVE	126	40	38	34	0
45338	NCA10	RES	127	4 DORAL GROVE	127	40	38	31	0
45356	NCA10	RES	128	5 DORAL GROVE	128	40	37	33	0
45373	NCA10	RES	129	6 DORAL GROVE	129	40	38	33	0
45395	NCA10	RES	131	7 DORAL GROVE	131	40	37	34	0
45408	NCA10	RES	132	8 DORAL GROVE	132	40	37	32	0
45435	NCA10	RES	133	9 DORAL GROVE	133	40	39	34	0
45442	NCA10	RES	137	2111-2141 ELIZABETH DRIVE	137	40	34	0	0
45473	NCA10	RES	146	10 FARMINGDALE COURT	146	40	44	0	32
45488	NCA10	RES	148	11 FARMINGDALE COURT	148	40	44	0	34
45507	NCA10	RES	149	12 FARMINGDALE COURT	149	40	48	0	32
45541	NCA10	RES	150	14 FARMINGDALE COURT	150	40	49	0	35
45565	NCA10	RES	151	14 FARMINGDALE COURT	151	40	49	0	34
45575	NCA10	RES	152	16 FARMINGDALE COURT	152	40	49	0	35
45610	NCA10	RES	153	17 FARMINGDALE COURT	153	40	44	0	35
45619	NCA10	RES	154	17 FARMINGDALE COURT	154	40	44	0	35
45622	NCA10	RES	155	18 FARMINGDALE COURT	155	40	45	0	35
45632	NCA10	RES	156	18 FARMINGDALE COURT	156	40	46	0	35
45648	NCA10	RES	157	2 FARMINGDALE COURT	157	40	45	0	33
45670	NCA10	RES	159	22 FARMINGDALE COURT	159	40	47	0	35
45699	NCA10	RES	160	5 FARMINGDALE COURT	160	40	45	0	34
45746	NCA10	RES	161	6 FARMINGDALE COURT	161	40	46	0	34
45748	NCA10	RES	162	6 FARMINGDALE COURT	162	40	44	0	33
45773	NCA10	RES	163	7 FARMINGDALE COURT	163	40	42	0	32
45789	NCA10	RES	165	7 FARMINGDALE COURT	165	40	42	0	31
45807	NCA10	RES	166	8 FARMINGDALE COURT	166	40	46	0	34
45825	NCA10	RES	167	9 FARMINGDALE COURT	167	40	42	0	34
45851	NCA10	RES	169	10 GANTON WAY	169	40	41	0	31
45883	NCA10	RES	170	12 GANTON WAY	170	40	42	0	33
45903	NCA10	RES	171	16 GANTON WAY	171	40	42	0	32
45939	NCA10	RES	172	18 GANTON WAY	172	40	42	0	32
45969	NCA10	RES	174	2 GANTON WAY	174	40	38	0	0
45994	NCA10	RES	176	4 GANTON WAY	176	40	40	0	0
46016	NCA10	RES	177	6 GANTON WAY	177	40	41	29	0
46031	NCA10	RES	178	6 GANTON WAY	178	40	38	26	0

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46040	NCA10	RES	179	8 GANTON WAY	179	40	41	0	31
46053	NCA10	RES	180	10 HALMSTAD BOULEVARD	180	40	40	28	0
46066	NCA10	RES	181	10 HALMSTAD BOULEVARD	181	40	41	31	0
46077	NCA10	RES	182	10 HALMSTAD BOULEVARD	182	40	36	28	0
46088	NCA10	RES	184	11 HALMSTAD BOULEVARD	184	40	43	32	0
46106	NCA10	RES	185	11 HALMSTAD BOULEVARD	185	40	41	29	0
46110	NCA10	RES	186	12 HALMSTAD BOULEVARD	186	40	40	28	0
46126	NCA10	RES	187	12 HALMSTAD BOULEVARD	187	40	41	30	0
46137	NCA10	RES	188	13 HALMSTAD BOULEVARD	188	40	41	31	0
46143	NCA10	RES	189	13 HALMSTAD BOULEVARD	189	40	41	31	0
46168	NCA10	RES	190	14 HALMSTAD BOULEVARD	190	40	42	28	31
46179	NCA10	RES	191	14 HALMSTAD BOULEVARD	191	40	41	27	29
46191	NCA10	RES	192	15 HALMSTAD BOULEVARD	192	40	44	30	0
46205	NCA10	RES	193	15 HALMSTAD BOULEVARD	193	40	42	29	0
46220	NCA10	RES	194	17 HALMSTAD BOULEVARD	194	40	44	30	29
46238	NCA10	RES	195	19 HALMSTAD BOULEVARD	195	40	44	28	31
46252	NCA10	RES	196	19 HALMSTAD BOULEVARD	196	40	42	28	29
46255	NCA10	RES	197	20 HALMSTAD BOULEVARD	197	40	43	27	32
46261	NCA10	RES	198	20 HALMSTAD BOULEVARD	198	40	40	27	29
46274	NCA10	RES	199	20 HALMSTAD BOULEVARD	199	40	44	30	32
46289	NCA10	RES	200	22 HALMSTAD BOULEVARD	200	40	45	27	30
46304	NCA10	RES	201	23 HALMSTAD BOULEVARD	201	40	45	30	32
46330	NCA10	RES	203	24 HALMSTAD BOULEVARD	203	40	41	26	31
46342	NCA10	RES	204	24 HALMSTAD BOULEVARD	204	40	45	27	30
46356	NCA10	RES	205	25 HALMSTAD BOULEVARD	205	40	43	27	30
46381	NCA10	RES	206	25 HALMSTAD BOULEVARD	206	40	45	28	32
46394	NCA10	RES	207	26 HALMSTAD BOULEVARD	207	40	42	0	30
46413	NCA10	RES	208	26 HALMSTAD BOULEVARD	208	40	42	0	30
46420	NCA10	RES	209	27 HALMSTAD BOULEVARD	209	40	43	26	30
46432	NCA10	RES	211	28 HALMSTAD BOULEVARD	211	40	45	0	33
46448	NCA10	RES	212	28 HALMSTAD BOULEVARD	212	40	42	0	29
46457	NCA10	RES	213	3 HALMSTAD BOULEVARD	213	40	42	32	0
46470	NCA10	RES	214	39 HALMSTAD BOULEVARD	214	40	45	0	33
46493	NCA10	RES	215	4 HALMSTAD BOULEVARD	215	40	42	32	0
46517	NCA10	RES	216	4 HALMSTAD BOULEVARD	216	40	36	31	0
46545	NCA10	RES	218	5 HALMSTAD BOULEVARD	218	40	42	30	0
46556	NCA10	RES	219	7 HALMSTAD BOULEVARD	219	40	40	32	0
46572	NCA10	RES	220	8 HALMSTAD BOULEVARD	220	40	41	31	0
46581	NCA10	RES	221	8 HALMSTAD BOULEVARD	221	40	40	31	0
46588	NCA10	RES	222	8 HALMSTAD BOULEVARD	222	40	40	29	0
46597	NCA10	RES	223	1 HUMEWOOD PLACE	223	40	41	30	0
46617	NCA10	RES	224	10 HUMEWOOD PLACE	224	40	40	27	0
46624	NCA10	RES	225	10 HUMEWOOD PLACE	225	40	40	28	28
46649	NCA10	RES	228	11 HUMEWOOD PLACE	228	40	43	29	29
46665	NCA10	RES	229	11 HUMEWOOD PLACE	229	40	39	26	29

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46673	NCA10	RES	230	12 HUMEWOOD PLACE	230	40	43	29	31
46692	NCA10	RES	231	14 HUMEWOOD PLACE	231	40	43	30	31
46720	NCA10	RES	232	15 HUMEWOOD PLACE	232	40	43	0	32
46738	NCA10	RES	233	2 HUMEWOOD PLACE	233	40	39	26	0
46744	NCA10	RES	234	2 HUMEWOOD PLACE	234	40	39	27	0
46759	NCA10	RES	235	2 HUMEWOOD PLACE	235	40	41	28	0
46777	NCA10	RES	236	2 HUMEWOOD PLACE	236	40	38	26	0
46787	NCA10	RES	237	22 HUMEWOOD PLACE	237	40	43	0	30
46795	NCA10	RES	239	22 HUMEWOOD PLACE	239	40	43	0	31
46806	NCA10	RES	240	24 HUMEWOOD PLACE	240	40	42	0	33
46832	NCA10	RES	241	24 HUMEWOOD PLACE	241	40	43	0	30
46840	NCA10	RES	242	3 HUMEWOOD PLACE	242	40	34	27	0
46853	NCA10	RES	243	3 HUMEWOOD PLACE	243	40	39	30	0
46880	NCA10	RES	244	4 HUMEWOOD PLACE	244	40	41	30	0
46885	NCA10	RES	246	5 HUMEWOOD PLACE	246	40	41	22	0
46896	NCA10	RES	247	5 HUMEWOOD PLACE	247	40	42	27	0
46909	NCA10	RES	249	5 HUMEWOOD PLACE	249	40	41	27	0
46931	NCA10	RES	250	6 HUMEWOOD PLACE	250	40	42	30	0
46942	NCA10	RES	252	7 HUMEWOOD PLACE	252	40	39	27	0
46954	NCA10	RES	253	7 HUMEWOOD PLACE	253	40	41	27	28
46966	NCA10	RES	254	9 HUMEWOOD PLACE	254	40	42	27	31
46987	NCA10	RES	256	9 HUMEWOOD PLACE	256	40	40	29	28
46994	NCA10	RES	258	336-348 LUDDENHAM ROAD	258	40	21	36	0
46999	NCA10	RES	265	339-363 LUDDENHAM ROAD	265	40	22	37	0
47005	NCA10	RES	275	405-423 LUDDENHAM ROAD	275	40	33	42	0
47017	NCA10	RES	279	425-441 LUDDENHAM ROAD	279	40	35	41	0
47030	NCA10	RES	288	425A LUDDENHAM ROAD	288	40	36	42	0
47051	NCA10	RES	292	443-457 LUDDENHAM ROAD	292	40	39	47	0
47061	NCA10	RES	297	581 LUDDENHAM ROAD	297	40	39	42	0
47064	NCA10	RES	302	611-639 LUDDENHAM ROAD	302	40	49	32	0
47076	NCA10	RES	304	611A LUDDENHAM ROAD	304	40	46	31	0
47100	NCA10	RES	308	641-675 LUDDENHAM ROAD	308	40	41	28	0
47104	NCA10	RES	311	644-652 LUDDENHAM ROAD	311	40	50	30	0
47111	NCA10	RES	314	654-658 LUDDENHAM ROAD	314	40	51	30	0
47112	NCA10	RES	319	660-670 LUDDENHAM ROAD	319	40	46	28	0
47117	NCA10	RES	321	672-686 LUDDENHAM ROAD	321	40	46	27	0
47137	NCA10	RES	324	672-686 LUDDENHAM ROAD	324	40	47	27	0
47167	NCA10	RES	329	677-691 LUDDENHAM ROAD	329	40	45	27	0
47175	NCA10	RES	334	688-708 LUDDENHAM ROAD	334	40	46	29	0
47195	NCA10	RES	335	688-708 LUDDENHAM ROAD	335	40	43	0	0
47201	NCA10	RES	336	688-708 LUDDENHAM ROAD	336	40	44	0	0
47210	NCA10	RES	337	688-708 LUDDENHAM ROAD	337	40	33	27	0
47234	NCA10	RES	342	693-711 LUDDENHAM ROAD	342	40	38	0	0
47243	NCA10	RES	345	2179 ELIZABETH DRIVE	5861	40	0	0	0
47260	NCA10	RES	345	693-711 LUDDENHAM ROAD	345	40	39	27	0

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47272	NCA10	RES	349	710-732 LUDDENHAM ROAD	349	40	40	0	0
47275	NCA10	RES	350	2179A ELIZABETH DRIVE	5866	40	0	0	0
47285	NCA10	RES	351	710-732 LUDDENHAM ROAD	351	40	39	0	0
47297	NCA10	RES	352	713-733 LUDDENHAM ROAD	352	40	40	0	0
47307	NCA10	RES	354	2207-2223 ELIZABETH DRIVE	5870	40	0	0	0
47313	NCA10	RES	355	734 LUDDENHAM ROAD	355	40	42	0	0
47314	NCA10	RES	355	2207-2223 ELIZABETH DRIVE	5871	40	0	0	0
47342	NCA10	RES	357	2207-2223 ELIZABETH DRIVE	5873	40	0	0	0
47350	NCA10	RES	358	2207-2223 ELIZABETH DRIVE	5874	40	0	0	0
47355	NCA10	RES	359	734-750 LUDDENHAM ROAD	359	40	38	0	0
47370	NCA10	RES	361	2225-2239 ELIZABETH DRIVE	5877	40	0	0	0
47380	NCA10	RES	363	2225-2239 ELIZABETH DRIVE	5879	40	0	0	0
47400	NCA10	RES	367	752-810 LUDDENHAM ROAD	367	40	37	0	0
47403	NCA10	RES	377	752-810 LUDDENHAM ROAD	377	40	38	0	0
47413	NCA10	RES	379	2510-2550 ELIZABETH DRIVE	5895	40	0	0	0
47445	NCA10	RES	384	812-844 LUDDENHAM ROAD	384	40	35	0	0
47454	NCA10	RES	385	812-844 LUDDENHAM ROAD	385	40	35	0	0
47478	NCA10	RES	386	812-844 LUDDENHAM ROAD	386	40	33	0	0
47493	NCA10	RES	390	2600 ELIZABETH DRIVE	5906	40	0	0	0
47500	NCA10	RES	392	2600 ELIZABETH DRIVE	5908	40	0	0	0
47506	NCA10	RES	394	2600 ELIZABETH DRIVE	5910	40	0	0	0
47533	NCA10	RES	395	765 LUDDENHAM ROAD	5911	40	34	0	0
47548	NCA10	RES	398	765 LUDDENHAM ROAD	5914	40	36	0	0
47553	NCA10	RES	399	765 LUDDENHAM ROAD	5915	40	36	0	0
47561	NCA10	RES	407	777-819 LUDDENHAM ROAD	5923	40	33	0	0
47577	NCA10	RES	409	821 LUDDENHAM ROAD	5925	40	33	0	0
47587	NCA10	RES	421	851-867 LUDDENHAM ROAD	5937	40	29	0	0
47589	NCA10	RES	422	869-885 LUDDENHAM ROAD	5938	40	0	0	0
47600	NCA10	RES	424	869-885 LUDDENHAM ROAD	5940	40	0	0	0
47608	NCA10	RES	429	869-885 LUDDENHAM ROAD	5945	40	0	0	0
47629	NCA10	RES	430	892 LUDDENHAM ROAD	430	40	34	0	0
47645	NCA10	RES	432	869-885 LUDDENHAM ROAD	5948	40	30	0	0
47657	NCA10	RES	435	869A LUDDENHAM ROAD	5951	40	0	0	0
47661	NCA10	RES	437	892B LUDDENHAM ROAD	437	40	31	0	0
47685	NCA10	RES	438	1 MEDINAH AVENUE	438	40	34	33	0
47697	NCA10	RES	439	1 MEDINAH AVENUE	439	40	31	31	0
47701	NCA10	RES	440	1 MEDINAH AVENUE	440	40	31	31	0
47703	NCA10	RES	441	11 MEDINAH AVENUE	441	40	33	32	0
47727	NCA10	RES	442	11 MEDINAH AVENUE	442	40	31	28	0
47735	NCA10	RES	444	12 MEDINAH AVENUE	444	40	32	32	0
47756	NCA10	RES	445	13 MEDINAH AVENUE	445	40	31	31	0
47770	NCA10	RES	447	14 MEDINAH AVENUE	447	40	34	31	0
47796	NCA10	RES	448	15 MEDINAH AVENUE	448	40	31	28	0
47807	NCA10	RES	450	889 LUDDENHAM ROAD	5966	40	0	0	0
47830	NCA10	RES	450	16 MEDINAH AVENUE	450	40	31	31	0

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47843	NCA10	RES	451	17 MEDINAH AVENUE	451	40	31	28	0
47862	NCA10	RES	452	889 LUDDENHAM ROAD	5968	40	30	0	0
47867	NCA10	RES	452	17 MEDINAH AVENUE	452	40	34	28	0
47883	NCA10	RES	453	19 MEDINAH AVENUE	453	40	31	31	0
47898	NCA10	RES	454	1A MEDINAH AVENUE	454	40	34	33	0
47925	NCA10	RES	455	2 MEDINAH AVENUE	455	40	32	33	0
47952	NCA10	RES	456	21 MEDINAH AVENUE	456	40	31	28	0
47965	NCA10	RES	457	23 MEDINAH AVENUE	457	40	31	28	0
47982	NCA10	RES	458	24 MEDINAH AVENUE	458	40	35	29	0
48007	NCA10	RES	459	25 MEDINAH AVENUE	459	40	32	28	0
48021	NCA10	RES	460	25 MEDINAH AVENUE	460	40	31	28	0
48029	NCA10	RES	461	26 MEDINAH AVENUE	461	40	35	31	0
48053	NCA10	RES	462	26 MEDINAH AVENUE	462	40	32	31	0
48075	NCA10	RES	463	27 MEDINAH AVENUE	463	40	32	28	0
48100	NCA10	RES	464	29 MEDINAH AVENUE	464	40	32	30	0
48126	NCA10	RES	466	3 MEDINAH AVENUE	466	40	33	30	0
48136	NCA10	RES	467	31 MEDINAH AVENUE	467	40	32	27	0
48154	NCA10	RES	468	4 MEDINAH AVENUE	468	40	34	30	0
48167	NCA10	RES	469	4 MEDINAH AVENUE	469	40	34	33	0
48175	NCA10	RES	470	5 MEDINAH AVENUE	470	40	31	30	0
48197	NCA10	RES	471	6 MEDINAH AVENUE	471	40	34	33	0
48214	NCA10	RES	473	7 MEDINAH AVENUE	473	40	33	32	0
48247	NCA10	RES	474	8 MEDINAH AVENUE	474	40	34	33	0
48254	NCA10	RES	475	9 MEDINAH AVENUE	475	40	31	29	0
48270	NCA10	RES	476	9 MEDINAH AVENUE	476	40	34	30	0
48283	NCA10	RES	477	10 PENNARD CRESCENT	477	40	35	30	0
48294	NCA10	RES	478	10 PENNARD CRESCENT	478	40	36	32	0
48319	NCA10	RES	480	11 PENNARD CRESCENT	480	40	33	29	0
48335	NCA10	RES	481	12 PENNARD CRESCENT	481	40	37	32	0
48362	NCA10	RES	482	12 PENNARD CRESCENT	482	40	34	30	0
48374	NCA10	RES	483	14 PENNARD CRESCENT	483	40	37	32	0
48395	NCA10	RES	486	15 PENNARD CRESCENT	486	40	32	29	0
48408	NCA10	RES	487	15 PENNARD CRESCENT	487	40	33	29	0
48430	NCA10	RES	488	16 PENNARD CRESCENT	488	40	38	32	0
48466	NCA10	RES	490	2 PENNARD CRESCENT	490	40	36	30	0
48476	NCA10	RES	491	2 PENNARD CRESCENT	491	40	35	30	0
48483	NCA10	RES	492	3 PENNARD CRESCENT	492	40	33	30	0
48495	NCA10	RES	493	3 PENNARD CRESCENT	493	40	32	31	0
48527	NCA10	RES	494	4 PENNARD CRESCENT	494	40	37	32	0
48539	NCA10	RES	496	4 PENNARD CRESCENT	496	40	35	33	0
48548	NCA10	RES	497	4 PENNARD CRESCENT	497	40	34	31	0
48566	NCA10	RES	498	5 PENNARD CRESCENT	498	40	33	30	0
48581	NCA10	RES	500	6 PENNARD CRESCENT	500	40	34	30	0
48592	NCA10	RES	501	6 PENNARD CRESCENT	501	40	36	32	0
48609	NCA10	RES	503	7 PENNARD CRESCENT	503	40	32	30	0

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48624	NCA10	RES	504	8 PENNARD CRESCENT	504	40	36	32	0
48654	NCA10	RES	505	9 PENNARD CRESCENT	505	40	32	30	0
48676	NCA10	RES	507	10 PINE VALLEY CRESCENT	507	40	34	29	0
48689	NCA10	RES	509	11 PINE VALLEY CRESCENT	509	40	34	31	0
48710	NCA10	RES	510	11 PINE VALLEY CRESCENT	510	40	35	32	0
48722	NCA10	RES	511	12 PINE VALLEY CRESCENT	511	40	34	31	0
48739	NCA10	RES	512	13 PINE VALLEY CRESCENT	512	40	35	32	0
48757	NCA10	RES	513	15 PINE VALLEY CRESCENT	513	40	35	29	0
48775	NCA10	RES	514	17 PINE VALLEY CRESCENT	514	40	34	29	0
48808	NCA10	RES	516	2 PINE VALLEY CRESCENT	516	40	35	32	0
48822	NCA10	RES	517	3 PINE VALLEY CRESCENT	517	40	33	30	0
48827	NCA10	RES	518	3 PINE VALLEY CRESCENT	518	40	34	33	0
48863	NCA10	RES	519	4 PINE VALLEY CRESCENT	519	40	34	32	0
48871	NCA10	RES	520	5 PINE VALLEY CRESCENT	520	40	32	33	0
48898	NCA10	RES	522	6 PINE VALLEY CRESCENT	522	40	32	30	0
48911	NCA10	RES	524	7 PINE VALLEY CRESCENT	524	40	32	33	0
48928	NCA10	RES	525	8 PINE VALLEY CRESCENT	525	40	32	29	0
48942	NCA10	RES	527	9 PINE VALLEY CRESCENT	527	40	35	32	0
48950	NCA10	RES	528	1 PORTRUSH CRESCENT	528	40	37	36	0
48963	NCA10	RES	530	1 PORTRUSH CRESCENT	530	40	37	38	0
48983	NCA10	RES	531	10 PORTRUSH CRESCENT	531	40	37	35	0
48994	NCA10	RES	532	10 PORTRUSH CRESCENT	532	40	35	35	0
49001	NCA10	RES	533	11 PORTRUSH CRESCENT	533	40	39	35	0
49023	NCA10	RES	535	12 PORTRUSH CRESCENT	535	40	37	38	0
49035	NCA10	RES	536	12 PORTRUSH CRESCENT	536	40	37	35	0
49041	NCA10	RES	537	12 PORTRUSH CRESCENT	537	40	35	35	0
49089	NCA10	RES	539	13 PORTRUSH CRESCENT	539	40	40	37	0
49106	NCA10	RES	540	14 PORTRUSH CRESCENT	540	40	35	34	0
49118	NCA10	RES	543	14 PORTRUSH CRESCENT	543	40	37	37	0
49156	NCA10	RES	545	15 PORTRUSH CRESCENT	545	40	38	37	0
49168	NCA10	RES	546	16 PORTRUSH CRESCENT	546	40	38	28	0
49198	NCA10	RES	547	16 PORTRUSH CRESCENT	547	40	38	37	0
49208	NCA10	RES	548	17 PORTRUSH CRESCENT	548	40	40	36	0
49244	NCA10	RES	552	17 PORTRUSH CRESCENT	552	40	38	36	0
49248	NCA10	RES	553	17 PORTRUSH CRESCENT	553	40	38	39	0
49257	NCA10	RES	555	18 PORTRUSH CRESCENT	555	40	37	35	0
49283	NCA10	RES	557	19 PORTRUSH CRESCENT	557	40	40	39	0
49313	NCA10	RES	559	2 PORTRUSH CRESCENT	559	40	34	38	0
49343	NCA10	RES	561	21 PORTRUSH CRESCENT	561	40	40	36	0
49377	NCA10	RES	562	22 PORTRUSH CRESCENT	562	40	37	37	0
49406	NCA10	RES	565	23 PORTRUSH CRESCENT	565	40	39	36	0
49421	NCA10	RES	567	24 PORTRUSH CRESCENT	567	40	39	35	0
49439	NCA10	RES	569	24 PORTRUSH CRESCENT	569	40	37	33	0
49452	NCA10	RES	570	26 PORTRUSH CRESCENT	570	40	40	37	0
49489	NCA10	RES	572	28 PORTRUSH CRESCENT	572	40	40	35	0

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49498	NCA10	RES	573	28 PORTRUSH CRESCENT	573	40	40	34	0
49507	NCA10	RES	574	30 PORTRUSH CRESCENT	574	40	38	30	0
49521	NCA10	RES	575	30 PORTRUSH CRESCENT	575	40	38	37	0
49553	NCA10	RES	576	34 PORTRUSH CRESCENT	576	40	39	37	0
49567	NCA10	RES	578	34 PORTRUSH CRESCENT	578	40	39	34	0
49572	NCA10	RES	579	34 PORTRUSH CRESCENT	579	40	39	34	0
49582	NCA10	RES	580	36 PORTRUSH CRESCENT	580	40	42	35	0
49601	NCA10	RES	582	36 PORTRUSH CRESCENT	582	40	39	28	0
49626	NCA10	RES	583	38 PORTRUSH CRESCENT	583	40	39	38	0
49658	NCA10	RES	585	4 PORTRUSH CRESCENT	585	40	36	38	0
49677	NCA10	RES	586	40 PORTRUSH CRESCENT	586	40	41	36	0
49689	NCA10	RES	587	42 PORTRUSH CRESCENT	587	40	36	35	0
49698	NCA10	RES	588	42 PORTRUSH CRESCENT	588	40	41	37	0
49705	NCA10	RES	589	44 PORTRUSH CRESCENT	589	40	39	37	0
49719	NCA10	RES	590	44 PORTRUSH CRESCENT	590	40	38	37	0
49742	NCA10	RES	591	46 PORTRUSH CRESCENT	591	40	40	40	0
49756	NCA10	RES	592	46 PORTRUSH CRESCENT	592	40	38	36	0
49774	NCA10	RES	593	48 PORTRUSH CRESCENT	593	40	40	40	0
49796	NCA10	RES	594	48 PORTRUSH CRESCENT	594	40	40	38	0
49800	NCA10	RES	595	48 PORTRUSH CRESCENT	595	40	38	38	0
49805	NCA10	RES	596	48 PORTRUSH CRESCENT	596	40	38	37	0
49808	NCA10	RES	597	5 PORTRUSH CRESCENT	597	40	35	38	0
49815	NCA10	RES	598	5 PORTRUSH CRESCENT	598	40	35	37	0
49830	NCA10	RES	599	5 PORTRUSH CRESCENT	599	40	37	38	0
49851	NCA10	RES	600	52 PORTRUSH CRESCENT	600	40	40	40	0
49862	NCA10	RES	602	52 PORTRUSH CRESCENT	602	40	40	30	0
49892	NCA10	RES	603	54 PORTRUSH CRESCENT	603	40	40	39	0
49897	NCA10	RES	604	54 PORTRUSH CRESCENT	604	40	37	38	0
49904	NCA10	RES	605	56 PORTRUSH CRESCENT	605	40	38	39	0
49934	NCA10	RES	606	58 PORTRUSH CRESCENT	606	40	37	39	0
49958	NCA10	RES	607	6 PORTRUSH CRESCENT	607	40	36	35	0
49970	NCA10	RES	608	6 PORTRUSH CRESCENT	608	40	34	35	0
49974	NCA10	RES	610	6 PORTRUSH CRESCENT	610	40	34	35	0
49987	NCA10	RES	611	60 PORTRUSH CRESCENT	611	40	39	38	0
50010	NCA10	RES	613	62 PORTRUSH CRESCENT	613	40	38	38	0
50024	NCA10	RES	614	62 PORTRUSH CRESCENT	614	40	38	39	0
50035	NCA10	RES	615	64 PORTRUSH CRESCENT	615	40	37	37	0
50047	NCA10	RES	616	64 PORTRUSH CRESCENT	616	40	36	39	0
50057	NCA10	RES	617	66 PORTRUSH CRESCENT	617	40	36	39	0
50087	NCA10	RES	618	68 PORTRUSH CRESCENT	618	40	36	36	0
50107	NCA10	RES	620	8 PORTRUSH CRESCENT	620	40	36	35	0
50120	NCA10	RES	621	8 PORTRUSH CRESCENT	621	40	34	35	0
50140	NCA10	RES	622	11 TWIN CREEKS DRIVE	622	40	33	33	0
50149	NCA10	RES	623	13 TWIN CREEKS DRIVE	623	40	34	30	0
50155	NCA10	RES	624	13 TWIN CREEKS DRIVE	624	40	37	33	0

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50182	NCA10	RES	625	13 TWIN CREEKS DRIVE	625	40	34	30	0
50190	NCA10	RES	626	13 TWIN CREEKS DRIVE	626	40	35	31	0
50197	NCA10	RES	627	14 TWIN CREEKS DRIVE	627	40	33	34	0
50222	NCA10	RES	628	15 TWIN CREEKS DRIVE	628	40	34	33	0
50235	NCA10	RES	629	15 TWIN CREEKS DRIVE	629	40	34	33	0
50245	NCA10	RES	631	15 TWIN CREEKS DRIVE	631	40	34	30	0
50252	NCA10	RES	632	15 TWIN CREEKS DRIVE	632	40	35	31	0
50260	NCA10	RES	633	17 TWIN CREEKS DRIVE	633	40	35	33	0
50266	NCA10	RES	634	17 TWIN CREEKS DRIVE	634	40	37	25	0
50282	NCA10	RES	635	17 TWIN CREEKS DRIVE	635	40	35	32	0
50313	NCA10	RES	636	18 TWIN CREEKS DRIVE	636	40	35	33	0
50326	NCA10	RES	643	20 TWIN CREEKS DRIVE	643	40	33	31	0
50342	NCA10	RES	644	21 TWIN CREEKS DRIVE	644	40	35	30	0
50349	NCA10	RES	645	21 TWIN CREEKS DRIVE	645	40	35	30	0
50360	NCA10	RES	646	21 TWIN CREEKS DRIVE	646	40	37	33	0
50384	NCA10	RES	648	22 TWIN CREEKS DRIVE	648	40	36	33	0
50410	NCA10	RES	652	24 TWIN CREEKS DRIVE	652	40	37	34	0
50435	NCA10	RES	653	26 TWIN CREEKS DRIVE	653	40	38	33	0
50475	NCA10	RES	654	27 TWIN CREEKS DRIVE	654	40	40	31	0
50481	NCA10	RES	655	27 TWIN CREEKS DRIVE	655	40	39	31	0
50485	NCA10	RES	656	28 TWIN CREEKS DRIVE	656	40	37	31	0
50506	NCA10	RES	657	28 TWIN CREEKS DRIVE	657	40	37	31	0
50521	NCA10	RES	658	29 TWIN CREEKS DRIVE	658	40	39	31	0
50541	NCA10	RES	660	29 TWIN CREEKS DRIVE	660	40	39	28	0
50551	NCA10	RES	661	30 TWIN CREEKS DRIVE	661	40	35	33	0
50582	NCA10	RES	663	31 TWIN CREEKS DRIVE	663	40	38	31	0
50591	NCA10	RES	664	31 TWIN CREEKS DRIVE	664	40	38	29	0
50597	NCA10	RES	666	32 TWIN CREEKS DRIVE	666	40	38	34	0
50622	NCA10	RES	668	33 TWIN CREEKS DRIVE	668	40	42	30	0
50637	NCA10	RES	669	33 TWIN CREEKS DRIVE	669	40	38	30	0
50641	NCA10	RES	671	34 TWIN CREEKS DRIVE	671	40	36	33	0
50666	NCA10	RES	672	34 TWIN CREEKS DRIVE	672	40	38	33	0
50699	NCA10	RES	673	35 TWIN CREEKS DRIVE	673	40	40	32	0
50718	NCA10	RES	674	36 TWIN CREEKS DRIVE	674	40	36	34	0
50732	NCA10	RES	675	36 TWIN CREEKS DRIVE	675	40	36	32	0
50743	NCA10	RES	676	36 TWIN CREEKS DRIVE	676	40	36	31	0
50751	NCA10	RES	677	37 TWIN CREEKS DRIVE	677	40	38	29	0
50764	NCA10	RES	679	37 TWIN CREEKS DRIVE	679	40	41	32	0
50784	NCA10	RES	682	38 TWIN CREEKS DRIVE	682	40	39	34	0
50808	NCA10	RES	683	39 TWIN CREEKS DRIVE	683	40	38	29	0
50829	NCA10	RES	684	40 TWIN CREEKS DRIVE	684	40	40	32	0
50847	NCA10	RES	686	41 TWIN CREEKS DRIVE	686	40	38	28	0
50857	NCA10	RES	687	41 TWIN CREEKS DRIVE	687	40	38	29	0
50868	NCA10	RES	688	42 TWIN CREEKS DRIVE	688	40	40	31	0
50890	NCA10	RES	690	43 TWIN CREEKS DRIVE	690	40	40	29	0

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50892	NCA10	RES	691	43 TWIN CREEKS DRIVE	691	40	38	27	0
50902	NCA10	RES	692	43 TWIN CREEKS DRIVE	692	40	40	31	0
50912	NCA10	RES	693	44 TWIN CREEKS DRIVE	693	40	38	34	0
50920	NCA10	RES	694	44 TWIN CREEKS DRIVE	694	40	39	33	0
50958	NCA10	RES	696	45 TWIN CREEKS DRIVE	696	40	42	29	0
50984	NCA10	RES	698	47 TWIN CREEKS DRIVE	698	40	40	28	0
51002	NCA10	RES	699	47 TWIN CREEKS DRIVE	699	40	37	28	0
51021	NCA10	RES	700	48 TWIN CREEKS DRIVE	700	40	41	33	0
51031	NCA10	RES	702	49 TWIN CREEKS DRIVE	702	40	37	27	0
51037	NCA10	RES	703	49 TWIN CREEKS DRIVE	703	40	40	27	0
51061	NCA10	RES	704	5 TWIN CREEKS DRIVE	704	40	32	31	0
51086	NCA10	RES	705	50 TWIN CREEKS DRIVE	705	40	43	32	0
51097	NCA10	RES	708	51 TWIN CREEKS DRIVE	708	40	40	26	0
51126	NCA10	RES	709	52 TWIN CREEKS DRIVE	709	40	42	32	0
51153	NCA10	RES	710	52 TWIN CREEKS DRIVE	710	40	42	32	0
51166	NCA10	RES	711	53 TWIN CREEKS DRIVE	711	40	37	27	0
51177	NCA10	RES	712	53 TWIN CREEKS DRIVE	712	40	39	27	0
51202	NCA10	RES	715	54 TWIN CREEKS DRIVE	715	40	41	32	0
51205	NCA10	RES	716	54 TWIN CREEKS DRIVE	716	40	39	28	0
51227	NCA10	RES	717	55 TWIN CREEKS DRIVE	717	40	37	29	0
51241	NCA10	RES	718	55 TWIN CREEKS DRIVE	718	40	37	27	0
51244	NCA10	RES	719	55 TWIN CREEKS DRIVE	719	40	37	27	0
51251	NCA10	RES	721	58 TWIN CREEKS DRIVE	721	40	41	31	0
51286	NCA10	RES	722	62 TWIN CREEKS DRIVE	722	40	41	28	0
51306	NCA10	RES	723	62 TWIN CREEKS DRIVE	723	40	41	28	0
51318	NCA10	RES	725	62 TWIN CREEKS DRIVE	725	40	41	28	0
51331	NCA10	RES	727	62 TWIN CREEKS DRIVE	727	40	41	31	0
51358	NCA10	RES	728	64 TWIN CREEKS DRIVE	728	40	39	30	0
51370	NCA10	RES	730	64 TWIN CREEKS DRIVE	730	40	43	30	0
51382	NCA10	RES	731	7 TWIN CREEKS DRIVE	731	40	32	31	0
51396	NCA10	RES	732	9 TWIN CREEKS DRIVE	732	40	32	32	0
51431	NCA10	RES	736	1 VENTANA COURT	736	40	41	31	0
51447	NCA10	RES	737	2 VENTANA COURT	737	40	40	31	0
51460	NCA10	RES	738	2 VENTANA COURT	738	40	39	33	0
51483	NCA10	RES	740	3 VENTANA COURT	740	40	42	30	0
51490	NCA10	RES	741	4 VENTANA COURT	741	40	40	34	0
51498	NCA10	RES	742	4 VENTANA COURT	742	40	42	34	0
51528	NCA10	RES	743	5 VENTANA COURT	743	40	42	32	0
51539	NCA10	RES	744	6 VENTANA COURT	744	40	42	34	0
51548	NCA10	RES	745	6 VENTANA COURT	745	40	40	34	0
51578	NCA10	RES	746	7 VENTANA COURT	746	40	38	33	0
51589	NCA10	RES	748	7 VENTANA COURT	748	40	40	32	0
51604	NCA10	RES	749	1 WOODHALL PLACE	749	40	38	30	0
51619	NCA10	RES	751	11 WOODHALL PLACE	751	40	38	29	0
51625	NCA10	RES	752	11 WOODHALL PLACE	752	40	37	30	0

Predicted OOHW Daytime construction noise levels

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Bold = Highly noise affected

0 to 10 dB: -
10 to 20 dB: LB
20 to 30 dB: LB, M, SN
Greater than 30 dB: LB, M, SN

No.	NCA	Usage	Rec	Address	Unique ID	NML	Activity 1 - Leq dB(A)	Activity 3 - Leq dB(A)	Activity 5 - Leq dB(A)
51650	NCA10	RES	753	13 WOODHALL PLACE	753	40	38	30	0
51672	NCA10	RES	754	15 WOODHALL PLACE	754	40	36	29	0
51681	NCA10	RES	755	15 WOODHALL PLACE	755	40	38	32	0
51700	NCA10	RES	756	17 WOODHALL PLACE	756	40	38	28	0
51741	NCA10	RES	757	19 WOODHALL PLACE	757	40	39	30	0
51769	NCA10	RES	759	2 WOODHALL PLACE	759	40	35	30	0
51786	NCA10	RES	760	2 WOODHALL PLACE	760	40	38	30	0
51797	NCA10	RES	761	3 WOODHALL PLACE	761	40	38	32	0
51819	NCA10	RES	763	4 WOODHALL PLACE	763	40	38	30	0
51861	NCA10	RES	765	5 WOODHALL PLACE	765	40	38	32	0
51868	NCA10	RES	766	6 WOODHALL PLACE	766	40	35	28	0
51876	NCA10	RES	767	6 WOODHALL PLACE	767	40	35	29	0
51891	NCA10	RES	768	7 WOODHALL PLACE	768	40	38	30	0
51912	NCA10	RES	769	7 WOODHALL PLACE	769	40	38	29	0
51918	NCA10	RES	770	9 WOODHALL PLACE	770	40	38	28	0
51925	NCA10	RES	771	9 WOODHALL PLACE	771	40	38	30	0
51941	NCA10	RES	772	9 WOODHALL PLACE	772	40	36	29	0
51947	NCA11	COM	7	1970 ELIZABETH DRIVE	5523	70	38	0	40
51951	NCA11	COM	8	1970 ELIZABETH DRIVE	5524	70	36	0	36
51955	NCA11	COM	9	1970 ELIZABETH DRIVE	5525	70	40	0	38
51957	NCA11	COM	10	1970 ELIZABETH DRIVE	5526	70	36	0	34
51962	NCA11	COM	11	1970 ELIZABETH DRIVE	5527	70	38	0	41
51967	NCA11	COM	12	1970 ELIZABETH DRIVE	5528	70	38	0	39
51970	NCA11	COM	13	1970 ELIZABETH DRIVE	5529	70	36	0	38
51973	NCA11	COM	14	1970 ELIZABETH DRIVE	5530	70	36	0	38
51977	NCA11	COM	15	1970 ELIZABETH DRIVE	5531	70	36	0	30
51983	NCA11	COM	16	1970 ELIZABETH DRIVE	5532	70	37	0	38
51989	NCA11	COM	18	1970 ELIZABETH DRIVE	5534	70	37	0	36
51993	NCA11	COM	19	1970 ELIZABETH DRIVE	5535	70	39	0	39
51995	NCA11	COM	20	1970 ELIZABETH DRIVE	5536	70	36	0	38
51999	NCA11	COM	21	1970 ELIZABETH DRIVE	5537	70	37	0	39
52005	NCA11	COM	22	1970 ELIZABETH DRIVE	5538	70	37	0	39
52009	NCA11	COM	24	1970 ELIZABETH DRIVE	5540	70	36	0	35
52015	NCA11	COM	25	1970 ELIZABETH DRIVE	5541	70	36	0	35
52020	NCA11	COM	26	1970 ELIZABETH DRIVE	5542	70	36	0	38
52024	NCA11	COM	27	1970 ELIZABETH DRIVE	5543	70	37	0	39
52029	NCA11	COM	28	1970 ELIZABETH DRIVE	5544	70	39	0	38
52031	NCA11	COM	29	1970 ELIZABETH DRIVE	5545	70	36	0	33
52036	NCA11	COM	30	1970 ELIZABETH DRIVE	5546	70	36	0	38
52042	NCA11	COM	64	180 LAWSON ROAD	5580	70	32	0	31
52047	NCA11	COM	67	180 LAWSON ROAD	5583	70	35	0	31
52052	NCA11	COM	70	180 LAWSON ROAD	5586	70	32	0	31
52056	NCA11	COM	76	195 LAWSON ROAD	5592	70	34	0	33
52060	NCA11	COM	78	195 LAWSON ROAD	5594	70	34	0	33
52066	NCA11	COM	80	195 LAWSON ROAD	5596	70	34	0	33

Predicted OOHW Daytime construction noise levels

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0 to 10 dB: -
10 to 20 dB: LB
20 to 30 dB: LB, M, SN
Greater than 30 dB: LB, M, SN

No.	NCA	Usage	Rec	Address	Unique ID	NML	Activity 1 - Leq dB(A)	Activity 3 - Leq dB(A)	Activity 5 - Leq dB(A)
52070	NCA11	COM	84	205 LAWSON ROAD	5600	70	36	0	35
52074	NCA11	COM	85	205 LAWSON ROAD	5601	70	34	0	33
52084	NCA11	COM	86	205 LAWSON ROAD	5602	70	35	0	34
52090	NCA11	COM	87	205 LAWSON ROAD	5603	70	34	0	32
52094	NCA11	COM	88	205 LAWSON ROAD	5604	70	34	0	33
52098	NCA11	COM	89	205 LAWSON ROAD	5605	70	34	0	33
52101	NCA11	COM	90	205 LAWSON ROAD	5606	70	33	0	32
52108	NCA11	COM	91	205 LAWSON ROAD	5607	70	34	0	35
52114	NCA11	COM	93	205 LAWSON ROAD	5609	70	36	0	32
52122	NCA11	COM	143	45 LAWSON ROAD	5659	70	39	0	41
52127	NCA11	COM	149	45 LAWSON ROAD	5665	70	39	0	41
52131	NCA11	COM	154	55 LAWSON ROAD	5670	70	41	0	42
52137	NCA11	COM	155	55 LAWSON ROAD	5671	70	39	0	41
52143	NCA11	COM	180	10 MARTIN ROAD	5696	70	35	0	36
52146	NCA11	COM	181	10 MARTIN ROAD	5697	70	34	0	36
52151	NCA11	COM	183	10 MARTIN ROAD	5699	70	35	0	37
52155	NCA11	COM	185	10 MARTIN ROAD	5701	70	35	0	36
52159	NCA11	COM	186	10 MARTIN ROAD	5702	70	35	0	37
52163	NCA11	COM	196	140 MARTIN ROAD	5712	70	32	0	32
52167	NCA11	COM	202	160 MARTIN ROAD	5718	70	32	0	31
52171	NCA11	COM	203	160 MARTIN ROAD	5719	70	32	0	31
52175	NCA11	COM	204	160 MARTIN ROAD	5720	70	34	0	31
52178	NCA11	COM	205	160 MARTIN ROAD	5721	70	32	0	31
52183	NCA11	COM	206	160 MARTIN ROAD	5722	70	32	0	31
52187	NCA11	COM	207	160 MARTIN ROAD	5723	70	32	0	31
52190	NCA11	COM	208	160 MARTIN ROAD	5724	70	31	0	31
52194	NCA11	COM	209	160 MARTIN ROAD	5725	70	31	0	31
52198	NCA11	COM	210	160 MARTIN ROAD	5726	70	31	0	31
52202	NCA11	COM	215	160 MARTIN ROAD	5731	70	31	0	31
52207	NCA11	COM	230	210 MARTIN ROAD	5746	70	28	0	31
52215	NCA11	COM	231	210 MARTIN ROAD	5747	70	23	0	29
52227	NCA11	COM	232	210 MARTIN ROAD	5748	70	29	0	32
52237	NCA11	COM	239	225 MARTIN ROAD	5755	70	21	0	0
52280	NCA11	COM	270	75 MARTIN ROAD	5786	70	38	0	38
52285	NCA11	COM	274	75 MARTIN ROAD	5790	70	35	0	35
52296	NCA11	COM	276	75 MARTIN ROAD	5792	70	37	0	37
52313	NCA11	COM	278	75 MARTIN ROAD	5794	70	38	0	38
52317	NCA11	COM	281	85 MARTIN ROAD	5797	70	35	0	36
52327	NCA11	COM	286	85 MARTIN ROAD	5802	70	34	0	34
52332	NCA11	COM	288	85 MARTIN ROAD	5804	70	34	0	34
52335	NCA11	COM	325	205 ADAMS ROAD	5841	70	0	0	0
52339	NCA11	COM	326	205 ADAMS ROAD	5842	70	0	0	0
52362	NCA11	COM	327	205 ADAMS ROAD	5843	70	0	0	0
52365	NCA11	COM	328	205 ADAMS ROAD	5844	70	0	0	0
52373	NCA11	COM	329	205 ADAMS ROAD	5845	70	0	0	0

Predicted OOHW Daytime construction noise levels

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No.	NCA	Usage	Rec	Address	Unique ID	NML	Activity 1 - Leq dB(A)	Activity 3 - Leq dB(A)	Activity 5 - Leq dB(A)
52375	NCA11	COM	333	275 ADAMS ROAD	5849	70	0	0	0
52392	NCA11	COM	821		6337	70	24	0	0
52402	NCA11	COM	822		6338	70	52	0	40
52415	NCA11	COM	823		6339	70	57	0	44
52434	NCA11	COM	828		6344	70	52	0	42
52448	NCA11	COM	832		6348	70	53	0	41
52456	NCA11	COM	834		6350	70	53	0	41
52477	NCA11	COM	836		6352	70	53	0	41
52479	NCA11	COM	837		6353	70	49	0	39
52484	NCA11	COM	838		6354	70	52	0	40
52494	NCA11	COM	842		6358	70	53	0	41
52495	NCA11	COM	849		6365	70	49	0	41
52503	NCA11	COM	850		6366	70	28	0	0
52509	NCA11	COM	851		6367	70	28	0	0
52518	NCA11	COM	852		6368	70	57	0	42
52541	NCA11	IND	99	225 LAWSON ROAD	5615	75	33	0	31
52545	NCA11	IND	100	225 LAWSON ROAD	5616	75	33	0	31
52549	NCA11	IND	103	225 LAWSON ROAD	5619	75	33	0	31
52553	NCA11	IND	104	225 LAWSON ROAD	5620	75	36	0	34
52557	NCA11	IND	106	225 LAWSON ROAD	5622	75	33	0	31
52567	NCA11	IND	107	225 LAWSON ROAD	5623	75	33	0	31
52579	NCA11	IND	108	225 LAWSON ROAD	5624	75	34	0	31
52582	NCA11	IND	110	225 LAWSON ROAD	5626	75	34	0	32
52586	NCA11	IND	111	225 LAWSON ROAD	5627	75	35	0	31
52595	NCA11	IND	112	225 LAWSON ROAD	5628	75	33	0	32
53553	NCA11	RES	1	1930 ELIZABETH DRIVE	5517	44	36	0	38
53564	NCA11	RES	6	1930 ELIZABETH DRIVE	5522	44	34	0	35
53571	NCA11	RES	17	1970 ELIZABETH DRIVE	5533	44	39	0	41
53582	NCA11	RES	31	1990 ELIZABETH DRIVE	5547	44	37	0	40
53589	NCA11	RES	36	115 LAWSON ROAD	5552	44	37	0	36
53594	NCA11	RES	37	125 LAWSON ROAD	5553	44	36	0	36
53598	NCA11	RES	40	135 LAWSON ROAD	5556	44	36	0	35
53603	NCA11	RES	45	145 LAWSON ROAD	5561	44	35	0	35
53610	NCA11	RES	54	150 LAWSON ROAD	5570	44	33	0	32
53632	NCA11	RES	56	155 LAWSON ROAD	5572	44	39	0	37
53642	NCA11	RES	60	160 LAWSON ROAD	5576	44	33	0	32
53652	NCA11	RES	63	165 LAWSON ROAD	5579	44	37	0	36
53659	NCA11	RES	66	180 LAWSON ROAD	5582	44	34	0	33
53678	NCA11	RES	69	180 LAWSON ROAD	5585	44	32	0	31
53688	NCA11	RES	72	185 LAWSON ROAD	5588	44	34	0	33
53694	NCA11	RES	73	190 LAWSON ROAD	5589	44	32	0	31
53705	NCA11	RES	79	195 LAWSON ROAD	5595	44	34	0	33
53710	NCA11	RES	82	200 LAWSON ROAD	5598	44	34	0	30
53717	NCA11	RES	83	200 LAWSON ROAD	5599	44	34	0	32
53723	NCA11	RES	92	205 LAWSON ROAD	5608	44	33	0	32

Predicted OOHW Daytime construction noise levels

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No.	NCA	Usage	Rec	Address	Unique ID	NML	Activity 1 - Leq dB(A)	Activity 3 - Leq dB(A)	Activity 5 - Leq dB(A)
53734	NCA11	RES	96	210 LAWSON ROAD	5612	44	31	0	30
53740	NCA11	RES	98	210 LAWSON ROAD	5614	44	32	0	30
53748	NCA11	RES	109	225 LAWSON ROAD	5625	44	34	0	33
53754	NCA11	RES	116	235 LAWSON ROAD	5632	44	35	0	33
53768	NCA11	RES	118	245 LAWSON ROAD	5634	44	33	0	31
53779	NCA11	RES	121	245 LAWSON ROAD	5637	44	34	0	32
53789	NCA11	RES	124	245 LAWSON ROAD	5640	44	31	0	30
53791	NCA11	RES	126	245 LAWSON ROAD	5642	44	32	0	30
53796	NCA11	RES	131	255 LAWSON ROAD	5647	44	31	0	29
53811	NCA11	RES	136	35 LAWSON ROAD	5652	44	38	0	40
53818	NCA11	RES	153	55 LAWSON ROAD	5669	44	38	0	40
53835	NCA11	RES	160	65 LAWSON ROAD	5676	44	39	0	41
53842	NCA11	RES	162	75 LAWSON ROAD	5678	44	40	0	41
53853	NCA11	RES	171	83-87 LAWSON ROAD	5687	44	38	0	38
53867	NCA11	RES	173	83-87 LAWSON ROAD	5689	44	37	0	38
53874	NCA11	RES	182	10 MARTIN ROAD	5698	44	35	0	37
53887	NCA11	RES	189	100 MARTIN ROAD	5705	44	34	0	34
53894	NCA11	RES	191	110 MARTIN ROAD	5707	44	34	0	34
53909	NCA11	RES	192	120 MARTIN ROAD	5708	44	36	0	36
53918	NCA11	RES	201	150 MARTIN ROAD	5717	44	32	0	32
53925	NCA11	RES	211	160 MARTIN ROAD	5727	44	34	0	31
53941	NCA11	RES	212	160 MARTIN ROAD	5728	44	32	0	31
53950	NCA11	RES	213	160 MARTIN ROAD	5729	44	31	0	31
53956	NCA11	RES	216	165 MARTIN ROAD	5732	44	32	0	31
53964	NCA11	RES	217	165 MARTIN ROAD	5733	44	33	0	33
53970	NCA11	RES	218	165 MARTIN ROAD	5734	44	31	0	29
53977	NCA11	RES	219	165 MARTIN ROAD	5735	44	34	0	33
53982	NCA11	RES	220	170 MARTIN ROAD	5736	44	31	0	28
53990	NCA11	RES	222	170 MARTIN ROAD	5738	44	34	0	33
53996	NCA11	RES	224	195 MARTIN ROAD	5740	44	22	0	29
54004	NCA11	RES	225	195 MARTIN ROAD	5741	44	22	0	29
54009	NCA11	RES	226	195 MARTIN ROAD	5742	44	28	0	29
54015	NCA11	RES	228	195 MARTIN ROAD	5744	44	22	0	29
54020	NCA11	RES	233	211 MARTIN ROAD	5749	44	22	0	0
54031	NCA11	RES	235	211 MARTIN ROAD	5751	44	28	0	0
54039	NCA11	RES	238	225 MARTIN ROAD	5754	44	0	0	0
54051	NCA11	RES	242	225 MARTIN ROAD	5758	44	0	0	0
54057	NCA11	RES	246	230 MARTIN ROAD	5762	44	21	0	0
54066	NCA11	RES	249	30 MARTIN ROAD	5765	44	35	0	36
54078	NCA11	RES	252	40 MARTIN ROAD	5768	44	37	0	38
54092	NCA11	RES	255	50 MARTIN ROAD	5771	44	36	0	37
54102	NCA11	RES	256	50 MARTIN ROAD	5772	44	35	0	36
54111	NCA11	RES	258	50 MARTIN ROAD	5774	44	33	0	34
54120	NCA11	RES	259	55 MARTIN ROAD	5775	44	38	0	39
54130	NCA11	RES	262	60 MARTIN ROAD	5778	44	34	0	35

Predicted OOHW Daytime construction noise levels

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No.	NCA	Usage	Rec	Address	Unique ID	NML	Activity 1 - Leq dB(A)	Activity 3 - Leq dB(A)	Activity 5 - Leq dB(A)
54138	NCA11	RES	265	65 MARTIN ROAD	5781	44	35	0	36
54143	NCA11	RES	267	65 MARTIN ROAD	5783	44	36	0	37
54163	NCA11	RES	269	70 MARTIN ROAD	5785	44	35	0	35
54178	NCA11	RES	275	75 MARTIN ROAD	5791	44	35	0	35
54189	NCA11	RES	279	80 MARTIN ROAD	5795	44	33	0	34
54196	NCA11	RES	287	85 MARTIN ROAD	5803	44	33	0	33
54202	NCA11	RES	292	90 MARTIN ROAD	5808	44	34	0	34
54207	NCA11	RES	294	90 MARTIN ROAD	5810	44	34	0	35
54218	NCA11	RES	298	105-115 ADAMS ROAD	5814	44	0	0	0
54224	NCA11	RES	299	105-115 ADAMS ROAD	5815	44	0	0	0
54228	NCA11	RES	300	125 ADAMS ROAD	5816	44	0	0	0
54241	NCA11	RES	301	125 ADAMS ROAD	5817	44	0	0	0
54248	NCA11	RES	303	125 ADAMS ROAD	5819	44	0	0	0
54264	NCA11	RES	305	125 ADAMS ROAD	5821	44	0	0	0
54272	NCA11	RES	306	125 ADAMS ROAD	5822	44	0	0	0
54278	NCA11	RES	309	125 ADAMS ROAD	5825	44	0	0	0
54283	NCA11	RES	312	145 ADAMS ROAD	5828	44	0	0	0
54293	NCA11	RES	313	145 ADAMS ROAD	5829	44	0	0	0
54303	NCA11	RES	314	145 ADAMS ROAD	5830	44	0	0	0
54319	NCA11	RES	317	161 ADAMS ROAD	5833	44	0	0	0
54326	NCA11	RES	319	161 ADAMS ROAD	5835	44	0	0	0
54334	NCA11	RES	320	161 ADAMS ROAD	5836	44	0	0	0
54342	NCA11	RES	321	180 ADAMS ROAD	5837	44	0	0	0
54346	NCA11	RES	324	185 ADAMS ROAD	5840	44	0	0	0
54358	NCA11	RES	331	225 ADAMS ROAD	5847	44	0	0	0
54375	NCA11	RES	332	230 ADAMS ROAD	5848	44	0	0	0
54379	NCA11	RES	334	275 ADAMS ROAD	5850	44	0	0	0
54389	NCA11	RES	337	5 ANTON ROAD	5853	44	0	0	0
54409	NCA11	RES	366	2470 ELIZABETH DRIVE	5882	44	30	0	0
54412	NCA11	RES	369	2470 ELIZABETH DRIVE	5885	44	31	0	0
54416	NCA11	RES	839		6355	44	21	0	0
54430	NCA11	RES	840		6356	44	29	0	0
54440	NCA11	RES	845		6361	44	21	0	0
54448	NCA11	RES	855		6371	44	21	0	0

Predicted OOHW Evening construction noise levels							Residential colour code additional mitigation measures: Bold = Highly noise affected	0 to 10 dB: LB 10 to 20 dB: LB, M 20 to 30 dB: LB, M, SN, RO Greater than 30 dB: LB, M, SN, IB, PC, RO
No.	**NCA**	**Usage**	**Rec**	**Address**	**Unique ID**	**NML**	**Activity 2 - Leq dB(A)**	**Activity 6 - Leq dB(A)**
41128	NCA9	RES	1		5106	44	0	0
41132	NCA9	RES	15		5120	44	0	0
41140	NCA9	RES	19		5124	44	0	0
41146	NCA9	RES	20		5125	44	0	0
41158	NCA9	RES	23		5128	44	0	0
41167	NCA9	RES	31		5136	44	0	0
41174	NCA9	RES	34		5139	44	0	0
41179	NCA9	RES	39		5144	44	0	0
41206	NCA9	RES	43		5148	44	0	0
41210	NCA9	RES	47		5152	44	0	0
41214	NCA9	RES	57		5162	44	0	0
41220	NCA9	RES	58		5163	44	0	0
41224	NCA9	RES	63		5168	44	0	0
41233	NCA9	RES	65		5170	44	0	0
41241	NCA9	RES	66		5171	44	0	0
41245	NCA9	RES	105	117-199 LUDDENHAM ROAD	5210	44	0	0
41249	NCA9	RES	106	117-199 LUDDENHAM ROAD	5211	44	0	0
41257	NCA9	RES	107	117-199 LUDDENHAM ROAD	5212	44	0	0
41268	NCA9	RES	108	117-199 LUDDENHAM ROAD	5213	44	0	0
41279	NCA9	RES	109	117-199 LUDDENHAM ROAD	5214	44	0	0
41284	NCA9	RES	113	117-199 LUDDENHAM ROAD	5218	44	0	0
41292	NCA9	RES	116	117-199 LUDDENHAM ROAD	5221	44	0	0
41296	NCA9	RES	118	117-199 LUDDENHAM ROAD	5223	44	0	0
41300	NCA9	RES	119	117-199 LUDDENHAM ROAD	5224	44	0	0
41304	NCA9	RES	126	117-199 LUDDENHAM ROAD	5231	44	0	0
41312	NCA9	RES	128	182-200 LUDDENHAM ROAD	5233	44	0	0
41318	NCA9	RES	129	182-200 LUDDENHAM ROAD	5234	44	0	0
41323	NCA9	RES	132	202-210 LUDDENHAM ROAD	5237	44	0	0
41329	NCA9	RES	133	202-210 LUDDENHAM ROAD	5238	44	0	0
41338	NCA9	RES	134	202-210 LUDDENHAM ROAD	5239	44	0	0
41352	NCA9	RES	135	212-214 LUDDENHAM ROAD	5240	44	0	0
41358	NCA9	RES	137	212-214 LUDDENHAM ROAD	5242	44	0	0
41378	NCA9	RES	139	212-214 LUDDENHAM ROAD	5244	44	0	0
41397	NCA9	RES	140	212-214 LUDDENHAM ROAD	5245	44	0	0

Predicted OOHW Evening construction noise levels							Residential colour code additional mitigation measures: Bold = Highly noise affected	0 to 10 dB: LB 10 to 20 dB: LB, M 20 to 30 dB: LB, M, SN, RO Greater than 30 dB: LB, M, SN, IB, PC, RO
No.	**NCA**	**Usage**	**Rec**	**Address**	**Unique ID**	**NML**	**Activity 2 - Leq dB(A)**	**Activity 6 - Leq dB(A)**
41403	NCA9	RES	142	216 LUDDENHAM ROAD	5247	44	0	0
41408	NCA9	RES	144	216 LUDDENHAM ROAD	5249	44	0	0
41419	NCA9	RES	146	216 LUDDENHAM ROAD	5251	44	0	0
41427	NCA9	RES	173	221-227 LUDDENHAM ROAD	5278	44	0	0
41431	NCA9	RES	174	221-227 LUDDENHAM ROAD	5279	44	0	0
41435	NCA9	RES	203	221-227 LUDDENHAM ROAD	5308	44	0	0
41445	NCA9	RES	209	221-227 LUDDENHAM ROAD	5314	44	0	0
41453	NCA9	RES	224	222-224 LUDDENHAM ROAD	5329	44	0	0
41457	NCA9	RES	228	222B LUDDENHAM ROAD	5333	44	0	0
41473	NCA9	RES	229	226-228 LUDDENHAM ROAD	5334	44	0	0
41477	NCA9	RES	230	226-228 LUDDENHAM ROAD	5335	44	0	0
41487	NCA9	RES	232	226-228 LUDDENHAM ROAD	5337	44	0	0
41491	NCA9	RES	234	229-231 LUDDENHAM ROAD	5339	44	0	0
41499	NCA9	RES	243	230-234 LUDDENHAM ROAD	5348	44	0	0
41512	NCA9	RES	244	230-234 LUDDENHAM ROAD	5349	44	0	0
41521	NCA9	RES	246	233-249 LUDDENHAM ROAD	5351	44	0	0
41527	NCA9	RES	252	236-238 LUDDENHAM ROAD	5357	44	0	0
41540	NCA9	RES	255	236-238 LUDDENHAM ROAD	5360	44	0	0
41550	NCA9	RES	256	240-244 LUDDENHAM ROAD	5361	44	0	0
41554	NCA9	RES	259	240-244 LUDDENHAM ROAD	5364	44	0	0
41560	NCA9	RES	261	240-244 LUDDENHAM ROAD	5366	44	0	0
41578	NCA9	RES	263	246-248 LUDDENHAM ROAD	5368	44	0	0
41582	NCA9	RES	264	246-248 LUDDENHAM ROAD	5369	44	0	0
41601	NCA9	RES	267	246-248 LUDDENHAM ROAD	5372	44	0	0
41605	NCA9	RES	268	250-254 LUDDENHAM ROAD	5373	44	0	0
41611	NCA9	RES	269	250-254 LUDDENHAM ROAD	5374	44	0	0
41619	NCA9	RES	270	250-254 LUDDENHAM ROAD	5375	44	0	0
41623	NCA9	RES	272	250-254 LUDDENHAM ROAD	5377	44	0	0
41645	NCA9	RES	274	250-254 LUDDENHAM ROAD	5379	44	0	0
41649	NCA9	RES	276	251-261 LUDDENHAM ROAD	5381	44	0	0
41653	NCA9	RES	280	251-261 LUDDENHAM ROAD	5385	44	0	0
41659	NCA9	RES	281	256 LUDDENHAM ROAD	5386	44	0	0
41678	NCA9	RES	282	256 LUDDENHAM ROAD	5387	44	0	0
41689	NCA9	RES	283	262-266 LUDDENHAM ROAD	5388	44	0	0

Predicted OOHW Evening construction noise levels							Residential colour code additional mitigation measures: Bold = Highly noise affected	0 to 10 dB: LB 10 to 20 dB: LB, M 20 to 30 dB: LB, M, SN, RO Greater than 30 dB: LB, M, SN, IB, PC, RO
No.	**NCA**	**Usage**	**Rec**	**Address**	**Unique ID**	**NML**	**Activity 2 - Leq dB(A)**	**Activity 6 - Leq dB(A)**
41694	NCA9	RES	284	262-266 LUDDENHAM ROAD	5389	44	0	0
41698	NCA9	RES	285	262-266 LUDDENHAM ROAD	5390	44	0	0
41702	NCA9	RES	289	262-266 LUDDENHAM ROAD	5394	44	0	0
41713	NCA9	RES	290	263-273 LUDDENHAM ROAD	5395	44	0	0
41717	NCA9	RES	292	268-288 LUDDENHAM ROAD	5397	44	0	0
41721	NCA9	RES	293	275-285 LUDDENHAM ROAD	5398	44	0	0
41726	NCA9	RES	297	275-285 LUDDENHAM ROAD	5402	44	0	0
41732	NCA9	RES	298	275-285 LUDDENHAM ROAD	5403	44	0	0
41748	NCA9	RES	299	275A LUDDENHAM ROAD	5404	44	0	0
41752	NCA9	RES	302	275A LUDDENHAM ROAD	5407	44	0	0
41774	NCA9	RES	303	287 LUDDENHAM ROAD	5408	44	0	0
41785	NCA9	RES	305	287 LUDDENHAM ROAD	5410	44	0	0
41791	NCA9	RES	307	289-317 LUDDENHAM ROAD	5412	44	0	0
41813	NCA9	RES	308	289-317 LUDDENHAM ROAD	5413	44	0	0
41821	NCA9	RES	309	31-39 LUDDENHAM ROAD	5414	44	0	0
41836	NCA9	RES	312	319-325 LUDDENHAM ROAD	5417	44	22	0
41840	NCA9	RES	313	319-325 LUDDENHAM ROAD	5418	44	21	0
41848	NCA9	RES	314	319-325 LUDDENHAM ROAD	5419	44	28	0
41855	NCA9	RES	315	319-325 LUDDENHAM ROAD	5420	44	24	0
41863	NCA9	RES	317	319-325 LUDDENHAM ROAD	5422	44	21	0
41868	NCA9	RES	319	320-326 LUDDENHAM ROAD	5424	44	0	0
41899	NCA9	RES	321	327-329 LUDDENHAM ROAD	5426	44	31	0
41900	NCA9	RES	322	43A LUDDENHAM ROAD	5427	44	0	0
41908	NCA9	RES	323	43A LUDDENHAM ROAD	5428	44	0	0
41912	NCA9	RES	325	43A LUDDENHAM ROAD	5430	44	0	0
41916	NCA9	RES	328	43A LUDDENHAM ROAD	5433	44	0	0
41930	NCA9	RES	331	43A LUDDENHAM ROAD	5436	44	0	0
41934	NCA9	RES	343	573-577 MAMRE ROAD	5448	44	0	0
41950	NCA9	RES	344	573-577 MAMRE ROAD	5449	44	0	0
41954	NCA9	RES	346	43466 MANDALONG CLOSE	5451	44	0	0
41971	NCA9	RES	348	21A MANDALONG CLOSE	5453	44	0	0
41997	NCA9	RES	349	21A MANDALONG CLOSE	5454	44	0	0
42003	NCA9	RES	351	25-31 MANDALONG CLOSE	5456	44	0	0
42009	NCA9	RES	353	25-31 MANDALONG CLOSE	5458	44	0	0

Predicted OOHW Evening construction noise levels							Residential colour code additional mitigation measures: Bold = Highly noise affected	0 to 10 dB: LB 10 to 20 dB: LB, M 20 to 30 dB: LB, M, SN, RO Greater than 30 dB: LB, M, SN, IB, PC, RO
No.	**NCA**	**Usage**	**Rec**	**Address**	**Unique ID**	**NML**	**Activity 2 - Leq dB(A)**	**Activity 6 - Leq dB(A)**
42017	NCA9	RES	354	25-31 MANDALONG CLOSE	5459	44	0	0
42045	NCA9	RES	355	33-41 MANDALONG CLOSE	5460	44	0	0
42049	NCA9	RES	356	33-41 MANDALONG CLOSE	5461	44	0	0
42069	NCA9	RES	357	33-41 MANDALONG CLOSE	5462	44	0	0
42081	NCA9	RES	360	43-51 MANDALONG CLOSE	5465	44	0	0
42090	NCA9	RES	361	43-51 MANDALONG CLOSE	5466	44	0	0
42094	NCA9	RES	362	43-51 MANDALONG CLOSE	5467	44	0	0
42098	NCA9	RES	363	43-51 MANDALONG CLOSE	5468	44	0	0
42128	NCA9	RES	364	53-63 MANDALONG CLOSE	5469	44	0	0
42139	NCA9	RES	366	53-63 MANDALONG CLOSE	5471	44	0	0
42147	NCA9	RES	367	53-63 MANDALONG CLOSE	5472	44	0	0
42168	NCA9	RES	368	53-63 MANDALONG CLOSE	5473	44	0	0
42185	NCA9	RES	370	65-73 MANDALONG CLOSE	5475	44	0	0
42195	NCA9	RES	373	65-73 MANDALONG CLOSE	5478	44	0	0
42213	NCA9	RES	374	65-73 MANDALONG CLOSE	5479	44	0	0
42224	NCA9	RES	375	65-73 MANDALONG CLOSE	5480	44	0	0
42239	NCA9	RES	376	75-77 MANDALONG CLOSE	5481	44	0	0
42262	NCA9	RES	377	79-81 MANDALONG CLOSE	5482	44	0	0
42268	NCA9	RES	380	79-81 MANDALONG CLOSE	5485	44	0	0
42284	NCA9	RES	381	79-81 MANDALONG CLOSE	5486	44	0	0
42292	NCA9	RES	382	79-81 MANDALONG CLOSE	5487	44	0	0
42300	NCA9	RES	384	79-81 MANDALONG CLOSE	5489	44	0	0
42314	NCA9	RES	385	79-81 MANDALONG CLOSE	5490	44	0	0
42320	NCA9	RES	386	79-81 MANDALONG CLOSE	5491	44	0	0
42329	NCA9	RES	387	79-81 MANDALONG CLOSE	5492	44	0	0
42337	NCA9	RES	392	83-91 MANDALONG CLOSE	5497	44	0	0
42364	NCA9	RES	393	83-91 MANDALONG CLOSE	5498	44	0	0
42370	NCA9	RES	396	83-91 MANDALONG CLOSE	5501	44	0	0
42389	NCA9	RES	398	83-91 MANDALONG CLOSE	5503	44	0	0
42394	NCA9	RES	755	2042-2550 THE NORTHERN ROAD	6271	44	0	0
42409	NCA9	RES	756	2042-2550 THE NORTHERN ROAD	6272	44	0	0
42413	NCA9	RES	761	2042-2550 THE NORTHERN ROAD	6277	44	0	0
42425	NCA9	RES	762	2042-2550 THE NORTHERN ROAD	6278	44	0	0
42429	NCA9	RES	763	2042-2550 THE NORTHERN ROAD	6279	44	0	0

Predicted OOHW Evening construction noise levels

Residential colour code additional mitigation measures:
Bold = Highly noise affected

0 to 10 dB: LB
10 to 20 dB: LB, M
20 to 30 dB: LB, M, SN, RO
Greater than 30 dB: LB, M, SN, IB, PC, RO

No.	NCA	Usage	Rec	Address	Unique ID	NML	Activity 2 - Leq dB(A)	Activity 6 - Leq dB(A)
42437	NCA9	RES	766	2042-2550 THE NORTHERN ROAD	6282	44	0	0
42447	NCA9	RES	767	2042-2550 THE NORTHERN ROAD	6283	44	0	0
42457	NCA9	RES	769	2042-2550 THE NORTHERN ROAD	6285	44	0	0
42476	NCA9	RES	772	2042-2550 THE NORTHERN ROAD	6288	44	0	0
42486	NCA9	RES	774	2042-2550 THE NORTHERN ROAD	6290	44	0	0
44914	NCA10	RES	5		5	35	32	0
44923	NCA10	RES	16	1669A ELIZABETH DRIVE	16	35	37	37
44936	NCA10	RES	26	1669A ELIZABETH DRIVE	26	35	38	37
44943	NCA10	RES	52	1783-1789 ELIZABETH DRIVE	52	35	45	48
44953	NCA10	RES	81	1953-2109 ELIZABETH DRIVE	81	35	37	31
44954	NCA10	RES	82	1953-2109 ELIZABETH DRIVE	82	35	41	32
44971	NCA10	RES	88	1953-2109 ELIZABETH DRIVE	88	35	48	40
44977	NCA10	RES	97	707A MAMRE ROAD	97	35	0	0
44992	NCA10	RES	99	707A MAMRE ROAD	99	35	0	0
45022	NCA10	RES	104	3 BRIDPORT PLACE	104	35	46	31
45032	NCA10	RES	105	4 BRIDPORT PLACE	105	35	46	30
45036	NCA10	RES	106	4 BRIDPORT PLACE	106	35	45	33
45074	NCA10	RES	107	10 COMARGO LANE	107	35	31	0
45086	NCA10	RES	108	2 COMARGO LANE	108	35	31	0
45102	NCA10	RES	109	2 COMARGO LANE	109	35	34	0
45124	NCA10	RES	111	4 COMARGO LANE	111	35	31	0
45140	NCA10	RES	112	6 COMARGO LANE	112	35	34	0
45159	NCA10	RES	113	8 COMARGO LANE	113	35	31	0
45164	NCA10	RES	114	2 CRYSTAL DOWNS CLOSE	114	35	36	0
45181	NCA10	RES	115	3 CRYSTAL DOWNS CLOSE	115	35	36	0
45212	NCA10	RES	116	4 CRYSTAL DOWNS CLOSE	116	35	35	0
45221	NCA10	RES	118	5 CRYSTAL DOWNS CLOSE	118	35	35	0
45241	NCA10	RES	119	6 CRYSTAL DOWNS CLOSE	119	35	36	0
45269	NCA10	RES	120	7 CRYSTAL DOWNS CLOSE	120	35	36	0
45277	NCA10	RES	121	8 CRYSTAL DOWNS CLOSE	121	35	34	0
45289	NCA10	RES	122	10 DORAL GROVE	122	35	39	0
45296	NCA10	RES	125	11 DORAL GROVE	125	35	34	0
45315	NCA10	RES	126	3 DORAL GROVE	126	35	38	0
45338	NCA10	RES	127	4 DORAL GROVE	127	35	38	0

Predicted OOHW Evening construction noise levels							Residential colour code additional mitigation measures: Bold = Highly noise affected	0 to 10 dB: LB 10 to 20 dB: LB, M 20 to 30 dB: LB, M, SN, RO Greater than 30 dB: LB, M, SN, IB, PC, RO
No.	NCA	Usage	Rec	Address	Unique ID	NML	Activity 2 - Leq dB(A)	Activity 6 - Leq dB(A)
45356	NCA10	RES	128	5 DORAL GROVE	128	35	37	0
45373	NCA10	RES	129	6 DORAL GROVE	129	35	38	0
45395	NCA10	RES	131	7 DORAL GROVE	131	35	37	0
45408	NCA10	RES	132	8 DORAL GROVE	132	35	37	0
45435	NCA10	RES	133	9 DORAL GROVE	133	35	39	0
45442	NCA10	RES	137	2111-2141 ELIZABETH DRIVE	137	35	34	0
45473	NCA10	RES	146	10 FARMINGDALE COURT	146	35	44	32
45488	NCA10	RES	148	11 FARMINGDALE COURT	148	35	44	34
45507	NCA10	RES	149	12 FARMINGDALE COURT	149	35	48	32
45541	NCA10	RES	150	14 FARMINGDALE COURT	150	35	49	35
45565	NCA10	RES	151	14 FARMINGDALE COURT	151	35	49	34
45575	NCA10	RES	152	16 FARMINGDALE COURT	152	35	49	35
45610	NCA10	RES	153	17 FARMINGDALE COURT	153	35	44	35
45619	NCA10	RES	154	17 FARMINGDALE COURT	154	35	44	35
45622	NCA10	RES	155	18 FARMINGDALE COURT	155	35	45	35
45632	NCA10	RES	156	18 FARMINGDALE COURT	156	35	46	35
45648	NCA10	RES	157	2 FARMINGDALE COURT	157	35	45	33
45670	NCA10	RES	159	22 FARMINGDALE COURT	159	35	47	35
45699	NCA10	RES	160	5 FARMINGDALE COURT	160	35	45	34
45746	NCA10	RES	161	6 FARMINGDALE COURT	161	35	46	34
45748	NCA10	RES	162	6 FARMINGDALE COURT	162	35	44	33
45773	NCA10	RES	163	7 FARMINGDALE COURT	163	35	42	32
45789	NCA10	RES	165	7 FARMINGDALE COURT	165	35	42	31
45807	NCA10	RES	166	8 FARMINGDALE COURT	166	35	46	34
45825	NCA10	RES	167	9 FARMINGDALE COURT	167	35	42	34
45851	NCA10	RES	169	10 GANTON WAY	169	35	41	31
45883	NCA10	RES	170	12 GANTON WAY	170	35	42	33
45903	NCA10	RES	171	16 GANTON WAY	171	35	42	32
45939	NCA10	RES	172	18 GANTON WAY	172	35	42	32
45969	NCA10	RES	174	2 GANTON WAY	174	35	38	0
45994	NCA10	RES	176	4 GANTON WAY	176	35	40	0
46016	NCA10	RES	177	6 GANTON WAY	177	35	41	0
46031	NCA10	RES	178	6 GANTON WAY	178	35	38	0
46040	NCA10	RES	179	8 GANTON WAY	179	35	41	31

Predicted OOHW Evening construction noise levels							Residential colour code additional mitigation measures: Bold = Highly noise affected	0 to 10 dB: LB 10 to 20 dB: LB, M 20 to 30 dB: LB, M, SN, RO Greater than 30 dB: LB, M, SN, IB, PC, RO
No.	**NCA**	**Usage**	**Rec**	**Address**	**Unique ID**	**NML**	**Activity 2 - Leq dB(A)**	**Activity 6 - Leq dB(A)**
46053	NCA10	RES	180	10 HALMSTAD BOULEVARD	180	35	40	0
46066	NCA10	RES	181	10 HALMSTAD BOULEVARD	181	35	41	0
46077	NCA10	RES	182	10 HALMSTAD BOULEVARD	182	35	36	0
46088	NCA10	RES	184	11 HALMSTAD BOULEVARD	184	35	43	0
46106	NCA10	RES	185	11 HALMSTAD BOULEVARD	185	35	41	0
46110	NCA10	RES	186	12 HALMSTAD BOULEVARD	186	35	40	0
46126	NCA10	RES	187	12 HALMSTAD BOULEVARD	187	35	41	0
46137	NCA10	RES	188	13 HALMSTAD BOULEVARD	188	35	41	0
46143	NCA10	RES	189	13 HALMSTAD BOULEVARD	189	35	41	0
46168	NCA10	RES	190	14 HALMSTAD BOULEVARD	190	35	42	31
46179	NCA10	RES	191	14 HALMSTAD BOULEVARD	191	35	41	29
46191	NCA10	RES	192	15 HALMSTAD BOULEVARD	192	35	44	0
46205	NCA10	RES	193	15 HALMSTAD BOULEVARD	193	35	42	0
46220	NCA10	RES	194	17 HALMSTAD BOULEVARD	194	35	44	29
46238	NCA10	RES	195	19 HALMSTAD BOULEVARD	195	35	44	31
46252	NCA10	RES	196	19 HALMSTAD BOULEVARD	196	35	42	29
46255	NCA10	RES	197	20 HALMSTAD BOULEVARD	197	35	43	32
46261	NCA10	RES	198	20 HALMSTAD BOULEVARD	198	35	40	29
46274	NCA10	RES	199	20 HALMSTAD BOULEVARD	199	35	44	32
46289	NCA10	RES	200	22 HALMSTAD BOULEVARD	200	35	45	30
46304	NCA10	RES	201	23 HALMSTAD BOULEVARD	201	35	45	32
46330	NCA10	RES	203	24 HALMSTAD BOULEVARD	203	35	41	31
46342	NCA10	RES	204	24 HALMSTAD BOULEVARD	204	35	45	30
46356	NCA10	RES	205	25 HALMSTAD BOULEVARD	205	35	43	30
46381	NCA10	RES	206	25 HALMSTAD BOULEVARD	206	35	45	32
46394	NCA10	RES	207	26 HALMSTAD BOULEVARD	207	35	42	30
46413	NCA10	RES	208	26 HALMSTAD BOULEVARD	208	35	42	30
46420	NCA10	RES	209	27 HALMSTAD BOULEVARD	209	35	43	30
46432	NCA10	RES	211	28 HALMSTAD BOULEVARD	211	35	45	33
46448	NCA10	RES	212	28 HALMSTAD BOULEVARD	212	35	42	29
46457	NCA10	RES	213	3 HALMSTAD BOULEVARD	213	35	42	0
46470	NCA10	RES	214	39 HALMSTAD BOULEVARD	214	35	45	33
46493	NCA10	RES	215	4 HALMSTAD BOULEVARD	215	35	42	0
46517	NCA10	RES	216	4 HALMSTAD BOULEVARD	216	35	36	0

Predicted OOHW Evening construction noise levels							Residential colour code additional mitigation measures: Bold = Highly noise affected	0 to 10 dB: LB 10 to 20 dB: LB, M 20 to 30 dB: LB, M, SN, RO Greater than 30 dB: LB, M, SN, IB, PC, RO
No.	NCA	Usage	Rec	Address	Unique ID	NML	Activity 2 - Leq dB(A)	Activity 6 - Leq dB(A)
46545	NCA10	RES	218	5 HALMSTAD BOULEVARD	218	35	42	0
46556	NCA10	RES	219	7 HALMSTAD BOULEVARD	219	35	40	0
46572	NCA10	RES	220	8 HALMSTAD BOULEVARD	220	35	41	0
46581	NCA10	RES	221	8 HALMSTAD BOULEVARD	221	35	40	0
46588	NCA10	RES	222	8 HALMSTAD BOULEVARD	222	35	40	0
46597	NCA10	RES	223	1 HUMEWOOD PLACE	223	35	41	0
46617	NCA10	RES	224	10 HUMEWOOD PLACE	224	35	40	0
46624	NCA10	RES	225	10 HUMEWOOD PLACE	225	35	40	28
46649	NCA10	RES	228	11 HUMEWOOD PLACE	228	35	43	29
46665	NCA10	RES	229	11 HUMEWOOD PLACE	229	35	39	29
46673	NCA10	RES	230	12 HUMEWOOD PLACE	230	35	43	31
46692	NCA10	RES	231	14 HUMEWOOD PLACE	231	35	43	31
46720	NCA10	RES	232	15 HUMEWOOD PLACE	232	35	43	32
46738	NCA10	RES	233	2 HUMEWOOD PLACE	233	35	39	0
46744	NCA10	RES	234	2 HUMEWOOD PLACE	234	35	39	0
46759	NCA10	RES	235	2 HUMEWOOD PLACE	235	35	41	0
46777	NCA10	RES	236	2 HUMEWOOD PLACE	236	35	38	0
46787	NCA10	RES	237	22 HUMEWOOD PLACE	237	35	43	30
46795	NCA10	RES	239	22 HUMEWOOD PLACE	239	35	43	31
46806	NCA10	RES	240	24 HUMEWOOD PLACE	240	35	42	33
46832	NCA10	RES	241	24 HUMEWOOD PLACE	241	35	43	30
46840	NCA10	RES	242	3 HUMEWOOD PLACE	242	35	34	0
46853	NCA10	RES	243	3 HUMEWOOD PLACE	243	35	39	0
46880	NCA10	RES	244	4 HUMEWOOD PLACE	244	35	41	0
46885	NCA10	RES	246	5 HUMEWOOD PLACE	246	35	41	0
46896	NCA10	RES	247	5 HUMEWOOD PLACE	247	35	42	0
46909	NCA10	RES	249	5 HUMEWOOD PLACE	249	35	41	0
46931	NCA10	RES	250	6 HUMEWOOD PLACE	250	35	42	0
46942	NCA10	RES	252	7 HUMEWOOD PLACE	252	35	39	0
46954	NCA10	RES	253	7 HUMEWOOD PLACE	253	35	41	28
46966	NCA10	RES	254	9 HUMEWOOD PLACE	254	35	42	31
46987	NCA10	RES	256	9 HUMEWOOD PLACE	256	35	40	28
46994	NCA10	RES	258	336-348 LUDDENHAM ROAD	258	35	21	0
46999	NCA10	RES	265	339-363 LUDDENHAM ROAD	265	35	22	0

Predicted OOHW Evening construction noise levels							Residential colour code additional mitigation measures: Bold = Highly noise affected	0 to 10 dB: LB 10 to 20 dB: LB, M 20 to 30 dB: LB, M, SN, RO Greater than 30 dB: LB, M, SN, IB, PC, RO
No.	NCA	Usage	Rec	Address	Unique ID	NML	Activity 2 - Leq dB(A)	Activity 6 - Leq dB(A)
47005	NCA10	RES	275	405-423 LUDDENHAM ROAD	275	35	33	0
47017	NCA10	RES	279	425-441 LUDDENHAM ROAD	279	35	35	0
47030	NCA10	RES	288	425A LUDDENHAM ROAD	288	35	36	0
47051	NCA10	RES	292	443-457 LUDDENHAM ROAD	292	35	39	0
47061	NCA10	RES	297	581 LUDDENHAM ROAD	297	35	39	0
47064	NCA10	RES	302	611-639 LUDDENHAM ROAD	302	35	49	0
47076	NCA10	RES	304	611A LUDDENHAM ROAD	304	35	46	0
47100	NCA10	RES	308	641-675 LUDDENHAM ROAD	308	35	41	0
47104	NCA10	RES	311	644-652 LUDDENHAM ROAD	311	35	50	0
47111	NCA10	RES	314	654-658 LUDDENHAM ROAD	314	35	51	0
47112	NCA10	RES	319	660-670 LUDDENHAM ROAD	319	35	46	0
47117	NCA10	RES	321	672-686 LUDDENHAM ROAD	321	35	46	0
47137	NCA10	RES	324	672-686 LUDDENHAM ROAD	324	35	47	0
47167	NCA10	RES	329	677-691 LUDDENHAM ROAD	329	35	45	0
47175	NCA10	RES	334	688-708 LUDDENHAM ROAD	334	35	46	0
47195	NCA10	RES	335	688-708 LUDDENHAM ROAD	335	35	43	0
47201	NCA10	RES	336	688-708 LUDDENHAM ROAD	336	35	44	0
47210	NCA10	RES	337	688-708 LUDDENHAM ROAD	337	35	33	0
47234	NCA10	RES	342	693-711 LUDDENHAM ROAD	342	35	38	0
47243	NCA10	RES	345	2179 ELIZABETH DRIVE	5861	35	0	0
47260	NCA10	RES	345	693-711 LUDDENHAM ROAD	345	35	39	0
47272	NCA10	RES	349	710-732 LUDDENHAM ROAD	349	35	40	0
47275	NCA10	RES	350	2179A ELIZABETH DRIVE	5866	35	0	0
47285	NCA10	RES	351	710-732 LUDDENHAM ROAD	351	35	39	0
47297	NCA10	RES	352	713-733 LUDDENHAM ROAD	352	35	40	0
47307	NCA10	RES	354	2207-2223 ELIZABETH DRIVE	5870	35	0	0
47313	NCA10	RES	355	734 LUDDENHAM ROAD	355	35	42	0
47314	NCA10	RES	355	2207-2223 ELIZABETH DRIVE	5871	35	0	0
47342	NCA10	RES	357	2207-2223 ELIZABETH DRIVE	5873	35	0	0
47350	NCA10	RES	358	2207-2223 ELIZABETH DRIVE	5874	35	0	0
47355	NCA10	RES	359	734-750 LUDDENHAM ROAD	359	35	38	0
47370	NCA10	RES	361	2225-2239 ELIZABETH DRIVE	5877	35	0	0
47380	NCA10	RES	363	2225-2239 ELIZABETH DRIVE	5879	35	0	0
47400	NCA10	RES	367	752-810 LUDDENHAM ROAD	367	35	37	0

Predicted OOHW Evening construction noise levels							Residential colour code additional mitigation measures: Bold = Highly noise affected	0 to 10 dB: LB 10 to 20 dB: LB, M 20 to 30 dB: LB, M, SN, RO Greater than 30 dB: LB, M, SN, IB, PC, RO
No.	NCA	Usage	Rec	Address	Unique ID	NML	Activity 2 - Leq dB(A)	Activity 6 - Leq dB(A)
47403	NCA10	RES	377	752-810 LUDDENHAM ROAD	377	35	38	0
47413	NCA10	RES	379	2510-2550 ELIZABETH DRIVE	5895	35	0	0
47445	NCA10	RES	384	812-844 LUDDENHAM ROAD	384	35	35	0
47454	NCA10	RES	385	812-844 LUDDENHAM ROAD	385	35	35	0
47478	NCA10	RES	386	812-844 LUDDENHAM ROAD	386	35	33	0
47493	NCA10	RES	390	2600 ELIZABETH DRIVE	5906	35	0	0
47500	NCA10	RES	392	2600 ELIZABETH DRIVE	5908	35	0	0
47506	NCA10	RES	394	2600 ELIZABETH DRIVE	5910	35	0	0
47533	NCA10	RES	395	765 LUDDENHAM ROAD	5911	35	34	0
47548	NCA10	RES	398	765 LUDDENHAM ROAD	5914	35	36	0
47553	NCA10	RES	399	765 LUDDENHAM ROAD	5915	35	36	0
47561	NCA10	RES	407	777-819 LUDDENHAM ROAD	5923	35	33	0
47577	NCA10	RES	409	821 LUDDENHAM ROAD	5925	35	33	0
47587	NCA10	RES	421	851-867 LUDDENHAM ROAD	5937	35	29	0
47589	NCA10	RES	422	869-885 LUDDENHAM ROAD	5938	35	0	0
47600	NCA10	RES	424	869-885 LUDDENHAM ROAD	5940	35	0	0
47608	NCA10	RES	429	869-885 LUDDENHAM ROAD	5945	35	0	0
47629	NCA10	RES	430	892 LUDDENHAM ROAD	430	35	34	0
47645	NCA10	RES	432	869-885 LUDDENHAM ROAD	5948	35	30	0
47657	NCA10	RES	435	869A LUDDENHAM ROAD	5951	35	0	0
47661	NCA10	RES	437	892B LUDDENHAM ROAD	437	35	31	0
47685	NCA10	RES	438	1 MEDINAH AVENUE	438	35	34	0
47697	NCA10	RES	439	1 MEDINAH AVENUE	439	35	31	0
47701	NCA10	RES	440	1 MEDINAH AVENUE	440	35	31	0
47703	NCA10	RES	441	11 MEDINAH AVENUE	441	35	33	0
47727	NCA10	RES	442	11 MEDINAH AVENUE	442	35	31	0
47735	NCA10	RES	444	12 MEDINAH AVENUE	444	35	32	0
47756	NCA10	RES	445	13 MEDINAH AVENUE	445	35	31	0
47770	NCA10	RES	447	14 MEDINAH AVENUE	447	35	34	0
47796	NCA10	RES	448	15 MEDINAH AVENUE	448	35	31	0
47807	NCA10	RES	450	889 LUDDENHAM ROAD	5966	35	0	0
47830	NCA10	RES	450	16 MEDINAH AVENUE	450	35	31	0
47843	NCA10	RES	451	17 MEDINAH AVENUE	451	35	31	0
47862	NCA10	RES	452	889 LUDDENHAM ROAD	5968	35	30	0

Predicted OOHW Evening construction noise levels

Residential colour code additional mitigation measures:
Bold = Highly noise affected

0 to 10 dB: LB
10 to 20 dB: LB, M
20 to 30 dB: LB, M, SN, RO
Greater than 30 dB: LB, M, SN, IB, PC, RO

No.	NCA	Usage	Rec	Address	Unique ID	NML	Activity 2 - Leq dB(A)	Activity 6 - Leq dB(A)
47867	NCA10	RES	452	17 MEDINAH AVENUE	452	35	34	0
47883	NCA10	RES	453	19 MEDINAH AVENUE	453	35	31	0
47898	NCA10	RES	454	1A MEDINAH AVENUE	454	35	34	0
47925	NCA10	RES	455	2 MEDINAH AVENUE	455	35	32	0
47952	NCA10	RES	456	21 MEDINAH AVENUE	456	35	31	0
47965	NCA10	RES	457	23 MEDINAH AVENUE	457	35	31	0
47982	NCA10	RES	458	24 MEDINAH AVENUE	458	35	**35**	0
48007	NCA10	RES	459	25 MEDINAH AVENUE	459	35	32	0
48021	NCA10	RES	460	25 MEDINAH AVENUE	460	35	31	0
48029	NCA10	RES	461	26 MEDINAH AVENUE	461	35	**35**	0
48053	NCA10	RES	462	26 MEDINAH AVENUE	462	35	32	0
48075	NCA10	RES	463	27 MEDINAH AVENUE	463	35	32	0
48100	NCA10	RES	464	29 MEDINAH AVENUE	464	35	32	0
48126	NCA10	RES	466	3 MEDINAH AVENUE	466	35	33	0
48136	NCA10	RES	467	31 MEDINAH AVENUE	467	35	32	0
48154	NCA10	RES	468	4 MEDINAH AVENUE	468	35	34	0
48167	NCA10	RES	469	4 MEDINAH AVENUE	469	35	34	0
48175	NCA10	RES	470	5 MEDINAH AVENUE	470	35	31	0
48197	NCA10	RES	471	6 MEDINAH AVENUE	471	35	34	0
48214	NCA10	RES	473	7 MEDINAH AVENUE	473	35	33	0
48247	NCA10	RES	474	8 MEDINAH AVENUE	474	35	34	0
48254	NCA10	RES	475	9 MEDINAH AVENUE	475	35	31	0
48270	NCA10	RES	476	9 MEDINAH AVENUE	476	35	34	0
48283	NCA10	RES	477	10 PENNARD CRESCENT	477	35	**35**	0
48294	NCA10	RES	478	10 PENNARD CRESCENT	478	35	**36**	0
48319	NCA10	RES	480	11 PENNARD CRESCENT	480	35	33	0
48335	NCA10	RES	481	12 PENNARD CRESCENT	481	35	**37**	0
48362	NCA10	RES	482	12 PENNARD CRESCENT	482	35	34	0
48374	NCA10	RES	483	14 PENNARD CRESCENT	483	35	**37**	0
48395	NCA10	RES	486	15 PENNARD CRESCENT	486	35	32	0
48408	NCA10	RES	487	15 PENNARD CRESCENT	487	35	33	0
48430	NCA10	RES	488	16 PENNARD CRESCENT	488	35	**38**	0
48466	NCA10	RES	490	2 PENNARD CRESCENT	490	35	**36**	0
48476	NCA10	RES	491	2 PENNARD CRESCENT	491	35	**35**	0

Predicted OOHW Evening construction noise levels

Residential colour code additional mitigation measures:
Bold = Highly noise affected

0 to 10 dB: LB
10 to 20 dB: LB, M
20 to 30 dB: LB, M, SN, RO
Greater than 30 dB: LB, M, SN, IB, PC, RO

No.	NCA	Usage	Rec	Address	Unique ID	NML	Activity 2 - Leq dB(A)	Activity 6 - Leq dB(A)
48483	NCA10	RES	492	3 PENNARD CRESCENT	492	35	33	0
48495	NCA10	RES	493	3 PENNARD CRESCENT	493	35	32	0
48527	NCA10	RES	494	4 PENNARD CRESCENT	494	35	37	0
48539	NCA10	RES	496	4 PENNARD CRESCENT	496	35	35	0
48548	NCA10	RES	497	4 PENNARD CRESCENT	497	35	34	0
48566	NCA10	RES	498	5 PENNARD CRESCENT	498	35	33	0
48581	NCA10	RES	500	6 PENNARD CRESCENT	500	35	34	0
48592	NCA10	RES	501	6 PENNARD CRESCENT	501	35	36	0
48609	NCA10	RES	503	7 PENNARD CRESCENT	503	35	32	0
48624	NCA10	RES	504	8 PENNARD CRESCENT	504	35	36	0
48654	NCA10	RES	505	9 PENNARD CRESCENT	505	35	32	0
48676	NCA10	RES	507	10 PINE VALLEY CRESCENT	507	35	34	0
48689	NCA10	RES	509	11 PINE VALLEY CRESCENT	509	35	34	0
48710	NCA10	RES	510	11 PINE VALLEY CRESCENT	510	35	35	0
48722	NCA10	RES	511	12 PINE VALLEY CRESCENT	511	35	34	0
48739	NCA10	RES	512	13 PINE VALLEY CRESCENT	512	35	35	0
48757	NCA10	RES	513	15 PINE VALLEY CRESCENT	513	35	35	0
48775	NCA10	RES	514	17 PINE VALLEY CRESCENT	514	35	34	0
48808	NCA10	RES	516	2 PINE VALLEY CRESCENT	516	35	35	0
48822	NCA10	RES	517	3 PINE VALLEY CRESCENT	517	35	33	0
48827	NCA10	RES	518	3 PINE VALLEY CRESCENT	518	35	34	0
48863	NCA10	RES	519	4 PINE VALLEY CRESCENT	519	35	34	0
48871	NCA10	RES	520	5 PINE VALLEY CRESCENT	520	35	32	0
48898	NCA10	RES	522	6 PINE VALLEY CRESCENT	522	35	32	0
48911	NCA10	RES	524	7 PINE VALLEY CRESCENT	524	35	32	0
48928	NCA10	RES	525	8 PINE VALLEY CRESCENT	525	35	32	0
48942	NCA10	RES	527	9 PINE VALLEY CRESCENT	527	35	35	0
48950	NCA10	RES	528	1 PORTRUSH CRESCENT	528	35	37	0
48963	NCA10	RES	530	1 PORTRUSH CRESCENT	530	35	37	0
48983	NCA10	RES	531	10 PORTRUSH CRESCENT	531	35	37	0
48994	NCA10	RES	532	10 PORTRUSH CRESCENT	532	35	35	0
49001	NCA10	RES	533	11 PORTRUSH CRESCENT	533	35	39	0
49023	NCA10	RES	535	12 PORTRUSH CRESCENT	535	35	37	0
49035	NCA10	RES	536	12 PORTRUSH CRESCENT	536	35	37	0

Predicted OOHW Evening construction noise levels							Residential colour code additional mitigation measures: Bold = Highly noise affected	0 to 10 dB: LB 10 to 20 dB: LB, M 20 to 30 dB: LB, M, SN, RO Greater than 30 dB: LB, M, SN, IB, PC, RO
No.	**NCA**	**Usage**	**Rec**	**Address**	**Unique ID**	**NML**	**Activity 2 - Leq dB(A)**	**Activity 6 - Leq dB(A)**
49041	NCA10	RES	537	12 PORTRUSH CRESCENT	537	35	35	0
49089	NCA10	RES	539	13 PORTRUSH CRESCENT	539	35	40	0
49106	NCA10	RES	540	14 PORTRUSH CRESCENT	540	35	35	0
49118	NCA10	RES	543	14 PORTRUSH CRESCENT	543	35	37	0
49156	NCA10	RES	545	15 PORTRUSH CRESCENT	545	35	38	0
49168	NCA10	RES	546	16 PORTRUSH CRESCENT	546	35	38	0
49198	NCA10	RES	547	16 PORTRUSH CRESCENT	547	35	38	0
49208	NCA10	RES	548	17 PORTRUSH CRESCENT	548	35	40	0
49244	NCA10	RES	552	17 PORTRUSH CRESCENT	552	35	38	0
49248	NCA10	RES	553	17 PORTRUSH CRESCENT	553	35	38	0
49257	NCA10	RES	555	18 PORTRUSH CRESCENT	555	35	37	0
49283	NCA10	RES	557	19 PORTRUSH CRESCENT	557	35	40	0
49313	NCA10	RES	559	2 PORTRUSH CRESCENT	559	35	34	0
49343	NCA10	RES	561	21 PORTRUSH CRESCENT	561	35	40	0
49377	NCA10	RES	562	22 PORTRUSH CRESCENT	562	35	37	0
49406	NCA10	RES	565	23 PORTRUSH CRESCENT	565	35	39	0
49421	NCA10	RES	567	24 PORTRUSH CRESCENT	567	35	39	0
49439	NCA10	RES	569	24 PORTRUSH CRESCENT	569	35	37	0
49452	NCA10	RES	570	26 PORTRUSH CRESCENT	570	35	40	0
49489	NCA10	RES	572	28 PORTRUSH CRESCENT	572	35	40	0
49498	NCA10	RES	573	28 PORTRUSH CRESCENT	573	35	40	0
49507	NCA10	RES	574	30 PORTRUSH CRESCENT	574	35	38	0
49521	NCA10	RES	575	30 PORTRUSH CRESCENT	575	35	38	0
49553	NCA10	RES	576	34 PORTRUSH CRESCENT	576	35	39	0
49567	NCA10	RES	578	34 PORTRUSH CRESCENT	578	35	39	0
49572	NCA10	RES	579	34 PORTRUSH CRESCENT	579	35	39	0
49582	NCA10	RES	580	36 PORTRUSH CRESCENT	580	35	42	0
49601	NCA10	RES	582	36 PORTRUSH CRESCENT	582	35	39	0
49626	NCA10	RES	583	38 PORTRUSH CRESCENT	583	35	39	0
49658	NCA10	RES	585	4 PORTRUSH CRESCENT	585	35	36	0
49677	NCA10	RES	586	40 PORTRUSH CRESCENT	586	35	41	0
49689	NCA10	RES	587	42 PORTRUSH CRESCENT	587	35	36	0
49698	NCA10	RES	588	42 PORTRUSH CRESCENT	588	35	41	0
49705	NCA10	RES	589	44 PORTRUSH CRESCENT	589	35	39	0

Predicted OOHW Evening construction noise levels							Residential colour code additional mitigation measures: Bold = Highly noise affected	0 to 10 dB: LB 10 to 20 dB: LB, M 20 to 30 dB: LB, M, SN, RO Greater than 30 dB: LB, M, SN, IB, PC, RO
No.	**NCA**	**Usage**	**Rec**	**Address**	**Unique ID**	**NML**	**Activity 2 - Leq dB(A)**	**Activity 6 - Leq dB(A)**
49719	NCA10	RES	590	44 PORTRUSH CRESCENT	590	35	38	0
49742	NCA10	RES	591	46 PORTRUSH CRESCENT	591	35	40	0
49756	NCA10	RES	592	46 PORTRUSH CRESCENT	592	35	38	0
49774	NCA10	RES	593	48 PORTRUSH CRESCENT	593	35	40	0
49796	NCA10	RES	594	48 PORTRUSH CRESCENT	594	35	40	0
49800	NCA10	RES	595	48 PORTRUSH CRESCENT	595	35	38	0
49805	NCA10	RES	596	48 PORTRUSH CRESCENT	596	35	38	0
49808	NCA10	RES	597	5 PORTRUSH CRESCENT	597	35	35	0
49815	NCA10	RES	598	5 PORTRUSH CRESCENT	598	35	35	0
49830	NCA10	RES	599	5 PORTRUSH CRESCENT	599	35	37	0
49851	NCA10	RES	600	52 PORTRUSH CRESCENT	600	35	40	0
49862	NCA10	RES	602	52 PORTRUSH CRESCENT	602	35	40	0
49892	NCA10	RES	603	54 PORTRUSH CRESCENT	603	35	40	0
49897	NCA10	RES	604	54 PORTRUSH CRESCENT	604	35	37	0
49904	NCA10	RES	605	56 PORTRUSH CRESCENT	605	35	38	0
49934	NCA10	RES	606	58 PORTRUSH CRESCENT	606	35	37	0
49958	NCA10	RES	607	6 PORTRUSH CRESCENT	607	35	36	0
49970	NCA10	RES	608	6 PORTRUSH CRESCENT	608	35	34	0
49974	NCA10	RES	610	6 PORTRUSH CRESCENT	610	35	34	0
49987	NCA10	RES	611	60 PORTRUSH CRESCENT	611	35	39	0
50010	NCA10	RES	613	62 PORTRUSH CRESCENT	613	35	38	0
50024	NCA10	RES	614	62 PORTRUSH CRESCENT	614	35	38	0
50035	NCA10	RES	615	64 PORTRUSH CRESCENT	615	35	37	0
50047	NCA10	RES	616	64 PORTRUSH CRESCENT	616	35	36	0
50057	NCA10	RES	617	66 PORTRUSH CRESCENT	617	35	36	0
50087	NCA10	RES	618	68 PORTRUSH CRESCENT	618	35	36	0
50107	NCA10	RES	620	8 PORTRUSH CRESCENT	620	35	36	0
50120	NCA10	RES	621	8 PORTRUSH CRESCENT	621	35	34	0
50140	NCA10	RES	622	11 TWIN CREEKS DRIVE	622	35	33	0
50149	NCA10	RES	623	13 TWIN CREEKS DRIVE	623	35	34	0
50155	NCA10	RES	624	13 TWIN CREEKS DRIVE	624	35	37	0
50182	NCA10	RES	625	13 TWIN CREEKS DRIVE	625	35	34	0
50190	NCA10	RES	626	13 TWIN CREEKS DRIVE	626	35	35	0
50197	NCA10	RES	627	14 TWIN CREEKS DRIVE	627	35	33	0

Predicted OOHW Evening construction noise levels							Residential colour code additional mitigation measures: Bold = Highly noise affected	0 to 10 dB: LB 10 to 20 dB: LB, M 20 to 30 dB: LB, M, SN, RO Greater than 30 dB: LB, M, SN, IB, PC, RO
No.	**NCA**	**Usage**	**Rec**	**Address**	**Unique ID**	**NML**	**Activity 2 - Leq dB(A)**	**Activity 6 - Leq dB(A)**
50222	NCA10	RES	628	15 TWIN CREEKS DRIVE	628	35	34	0
50235	NCA10	RES	629	15 TWIN CREEKS DRIVE	629	35	34	0
50245	NCA10	RES	631	15 TWIN CREEKS DRIVE	631	35	34	0
50252	NCA10	RES	632	15 TWIN CREEKS DRIVE	632	35	35	0
50260	NCA10	RES	633	17 TWIN CREEKS DRIVE	633	35	35	0
50266	NCA10	RES	634	17 TWIN CREEKS DRIVE	634	35	37	0
50282	NCA10	RES	635	17 TWIN CREEKS DRIVE	635	35	35	0
50313	NCA10	RES	636	18 TWIN CREEKS DRIVE	636	35	35	0
50326	NCA10	RES	643	20 TWIN CREEKS DRIVE	643	35	33	0
50342	NCA10	RES	644	21 TWIN CREEKS DRIVE	644	35	35	0
50349	NCA10	RES	645	21 TWIN CREEKS DRIVE	645	35	35	0
50360	NCA10	RES	646	21 TWIN CREEKS DRIVE	646	35	37	0
50384	NCA10	RES	648	22 TWIN CREEKS DRIVE	648	35	36	0
50410	NCA10	RES	652	24 TWIN CREEKS DRIVE	652	35	37	0
50435	NCA10	RES	653	26 TWIN CREEKS DRIVE	653	35	38	0
50475	NCA10	RES	654	27 TWIN CREEKS DRIVE	654	35	40	0
50481	NCA10	RES	655	27 TWIN CREEKS DRIVE	655	35	39	0
50485	NCA10	RES	656	28 TWIN CREEKS DRIVE	656	35	37	0
50506	NCA10	RES	657	28 TWIN CREEKS DRIVE	657	35	37	0
50521	NCA10	RES	658	29 TWIN CREEKS DRIVE	658	35	39	0
50541	NCA10	RES	660	29 TWIN CREEKS DRIVE	660	35	39	0
50551	NCA10	RES	661	30 TWIN CREEKS DRIVE	661	35	35	0
50582	NCA10	RES	663	31 TWIN CREEKS DRIVE	663	35	38	0
50591	NCA10	RES	664	31 TWIN CREEKS DRIVE	664	35	38	0
50597	NCA10	RES	666	32 TWIN CREEKS DRIVE	666	35	38	0
50622	NCA10	RES	668	33 TWIN CREEKS DRIVE	668	35	42	0
50637	NCA10	RES	669	33 TWIN CREEKS DRIVE	669	35	38	0
50641	NCA10	RES	671	34 TWIN CREEKS DRIVE	671	35	36	0
50666	NCA10	RES	672	34 TWIN CREEKS DRIVE	672	35	38	0
50699	NCA10	RES	673	35 TWIN CREEKS DRIVE	673	35	40	0
50718	NCA10	RES	674	36 TWIN CREEKS DRIVE	674	35	36	0
50732	NCA10	RES	675	36 TWIN CREEKS DRIVE	675	35	36	0
50743	NCA10	RES	676	36 TWIN CREEKS DRIVE	676	35	36	0
50751	NCA10	RES	677	37 TWIN CREEKS DRIVE	677	35	38	0

Predicted OOHW Evening construction noise levels							Residential colour code additional mitigation measures: Bold = Highly noise affected	0 to 10 dB: LB 10 to 20 dB: LB, M 20 to 30 dB: LB, M, SN, RO Greater than 30 dB: LB, M, SN, IB, PC, RO
No.	**NCA**	**Usage**	**Rec**	**Address**	**Unique ID**	**NML**	**Activity 2 - Leq dB(A)**	**Activity 6 - Leq dB(A)**
50764	NCA10	RES	679	37 TWIN CREEKS DRIVE	679	35	41	0
50784	NCA10	RES	682	38 TWIN CREEKS DRIVE	682	35	39	0
50808	NCA10	RES	683	39 TWIN CREEKS DRIVE	683	35	38	0
50829	NCA10	RES	684	40 TWIN CREEKS DRIVE	684	35	40	0
50847	NCA10	RES	686	41 TWIN CREEKS DRIVE	686	35	38	0
50857	NCA10	RES	687	41 TWIN CREEKS DRIVE	687	35	38	0
50868	NCA10	RES	688	42 TWIN CREEKS DRIVE	688	35	40	0
50890	NCA10	RES	690	43 TWIN CREEKS DRIVE	690	35	40	0
50892	NCA10	RES	691	43 TWIN CREEKS DRIVE	691	35	38	0
50902	NCA10	RES	692	43 TWIN CREEKS DRIVE	692	35	40	0
50912	NCA10	RES	693	44 TWIN CREEKS DRIVE	693	35	38	0
50920	NCA10	RES	694	44 TWIN CREEKS DRIVE	694	35	39	0
50958	NCA10	RES	696	45 TWIN CREEKS DRIVE	696	35	42	0
50984	NCA10	RES	698	47 TWIN CREEKS DRIVE	698	35	40	0
51002	NCA10	RES	699	47 TWIN CREEKS DRIVE	699	35	37	0
51021	NCA10	RES	700	48 TWIN CREEKS DRIVE	700	35	41	0
51031	NCA10	RES	702	49 TWIN CREEKS DRIVE	702	35	37	0
51037	NCA10	RES	703	49 TWIN CREEKS DRIVE	703	35	40	0
51061	NCA10	RES	704	5 TWIN CREEKS DRIVE	704	35	32	0
51086	NCA10	RES	705	50 TWIN CREEKS DRIVE	705	35	43	0
51097	NCA10	RES	708	51 TWIN CREEKS DRIVE	708	35	40	0
51126	NCA10	RES	709	52 TWIN CREEKS DRIVE	709	35	42	0
51153	NCA10	RES	710	52 TWIN CREEKS DRIVE	710	35	42	0
51166	NCA10	RES	711	53 TWIN CREEKS DRIVE	711	35	37	0
51177	NCA10	RES	712	53 TWIN CREEKS DRIVE	712	35	39	0
51202	NCA10	RES	715	54 TWIN CREEKS DRIVE	715	35	41	0
51205	NCA10	RES	716	54 TWIN CREEKS DRIVE	716	35	39	0
51227	NCA10	RES	717	55 TWIN CREEKS DRIVE	717	35	37	0
51241	NCA10	RES	718	55 TWIN CREEKS DRIVE	718	35	37	0
51244	NCA10	RES	719	55 TWIN CREEKS DRIVE	719	35	37	0
51251	NCA10	RES	721	58 TWIN CREEKS DRIVE	721	35	41	0
51286	NCA10	RES	722	62 TWIN CREEKS DRIVE	722	35	41	0
51306	NCA10	RES	723	62 TWIN CREEKS DRIVE	723	35	41	0
51318	NCA10	RES	725	62 TWIN CREEKS DRIVE	725	35	41	0

Predicted OOHW Evening construction noise levels							Residential colour code additional mitigation measures: Bold = Highly noise affected	0 to 10 dB: LB 10 to 20 dB: LB, M 20 to 30 dB: LB, M, SN, RO Greater than 30 dB: LB, M, SN, IB, PC, RO
No.	**NCA**	**Usage**	**Rec**	**Address**	**Unique ID**	**NML**	**Activity 2 - Leq dB(A)**	**Activity 6 - Leq dB(A)**
51331	NCA10	RES	727	62 TWIN CREEKS DRIVE	727	35	41	0
51358	NCA10	RES	728	64 TWIN CREEKS DRIVE	728	35	39	0
51370	NCA10	RES	730	64 TWIN CREEKS DRIVE	730	35	43	0
51382	NCA10	RES	731	7 TWIN CREEKS DRIVE	731	35	32	0
51396	NCA10	RES	732	9 TWIN CREEKS DRIVE	732	35	32	0
51431	NCA10	RES	736	1 VENTANA COURT	736	35	41	0
51447	NCA10	RES	737	2 VENTANA COURT	737	35	40	0
51460	NCA10	RES	738	2 VENTANA COURT	738	35	39	0
51483	NCA10	RES	740	3 VENTANA COURT	740	35	42	0
51490	NCA10	RES	741	4 VENTANA COURT	741	35	40	0
51498	NCA10	RES	742	4 VENTANA COURT	742	35	42	0
51528	NCA10	RES	743	5 VENTANA COURT	743	35	42	0
51539	NCA10	RES	744	6 VENTANA COURT	744	35	42	0
51548	NCA10	RES	745	6 VENTANA COURT	745	35	40	0
51578	NCA10	RES	746	7 VENTANA COURT	746	35	38	0
51589	NCA10	RES	748	7 VENTANA COURT	748	35	40	0
51604	NCA10	RES	749	1 WOODHALL PLACE	749	35	38	0
51619	NCA10	RES	751	11 WOODHALL PLACE	751	35	38	0
51625	NCA10	RES	752	11 WOODHALL PLACE	752	35	37	0
51650	NCA10	RES	753	13 WOODHALL PLACE	753	35	38	0
51672	NCA10	RES	754	15 WOODHALL PLACE	754	35	36	0
51681	NCA10	RES	755	15 WOODHALL PLACE	755	35	38	0
51700	NCA10	RES	756	17 WOODHALL PLACE	756	35	38	0
51741	NCA10	RES	757	19 WOODHALL PLACE	757	35	39	0
51769	NCA10	RES	759	2 WOODHALL PLACE	759	35	35	0
51786	NCA10	RES	760	2 WOODHALL PLACE	760	35	38	0
51797	NCA10	RES	761	3 WOODHALL PLACE	761	35	38	0
51819	NCA10	RES	763	4 WOODHALL PLACE	763	35	38	0
51861	NCA10	RES	765	5 WOODHALL PLACE	765	35	38	0
51868	NCA10	RES	766	6 WOODHALL PLACE	766	35	35	0
51876	NCA10	RES	767	6 WOODHALL PLACE	767	35	35	0
51891	NCA10	RES	768	7 WOODHALL PLACE	768	35	38	0
51912	NCA10	RES	769	7 WOODHALL PLACE	769	35	38	0
51918	NCA10	RES	770	9 WOODHALL PLACE	770	35	38	0

Predicted OOHW Evening construction noise levels

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0 to 10 dB: LB
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20 to 30 dB: LB, M, SN, RO
Greater than 30 dB: LB, M, SN, IB, PC, RO

No.	NCA	Usage	Rec	Address	Unique ID	NML	Activity 2 - Leq dB(A)	Activity 6 - Leq dB(A)
51925	NCA10	RES	771	9 WOODHALL PLACE	771	35	38	0
51941	NCA10	RES	772	9 WOODHALL PLACE	772	35	36	0
53553	NCA11	RES	1	1930 ELIZABETH DRIVE	5517	42	36	38
53564	NCA11	RES	6	1930 ELIZABETH DRIVE	5522	42	34	35
53571	NCA11	RES	17	1970 ELIZABETH DRIVE	5533	42	39	41
53582	NCA11	RES	31	1990 ELIZABETH DRIVE	5547	42	37	40
53589	NCA11	RES	36	115 LAWSON ROAD	5552	42	37	36
53594	NCA11	RES	37	125 LAWSON ROAD	5553	42	36	36
53598	NCA11	RES	40	135 LAWSON ROAD	5556	42	36	35
53603	NCA11	RES	45	145 LAWSON ROAD	5561	42	35	35
53610	NCA11	RES	54	150 LAWSON ROAD	5570	42	33	32
53632	NCA11	RES	56	155 LAWSON ROAD	5572	42	39	37
53642	NCA11	RES	60	160 LAWSON ROAD	5576	42	33	32
53652	NCA11	RES	63	165 LAWSON ROAD	5579	42	37	36
53659	NCA11	RES	66	180 LAWSON ROAD	5582	42	34	33
53678	NCA11	RES	69	180 LAWSON ROAD	5585	42	32	31
53688	NCA11	RES	72	185 LAWSON ROAD	5588	42	34	33
53694	NCA11	RES	73	190 LAWSON ROAD	5589	42	32	31
53705	NCA11	RES	79	195 LAWSON ROAD	5595	42	34	33
53710	NCA11	RES	82	200 LAWSON ROAD	5598	42	34	30
53717	NCA11	RES	83	200 LAWSON ROAD	5599	42	34	32
53723	NCA11	RES	92	205 LAWSON ROAD	5608	42	33	32
53734	NCA11	RES	96	210 LAWSON ROAD	5612	42	31	30
53740	NCA11	RES	98	210 LAWSON ROAD	5614	42	32	30
53748	NCA11	RES	109	225 LAWSON ROAD	5625	42	34	33
53754	NCA11	RES	116	235 LAWSON ROAD	5632	42	35	33
53768	NCA11	RES	118	245 LAWSON ROAD	5634	42	33	31
53779	NCA11	RES	121	245 LAWSON ROAD	5637	42	34	32
53789	NCA11	RES	124	245 LAWSON ROAD	5640	42	31	30
53791	NCA11	RES	126	245 LAWSON ROAD	5642	42	32	30
53796	NCA11	RES	131	255 LAWSON ROAD	5647	42	31	29
53811	NCA11	RES	136	35 LAWSON ROAD	5652	42	38	40
53818	NCA11	RES	153	55 LAWSON ROAD	5669	42	38	40
53835	NCA11	RES	160	65 LAWSON ROAD	5676	42	39	41

Predicted OOHW Evening construction noise levels							Residential colour code additional mitigation measures: Bold = Highly noise affected	0 to 10 dB: LB 10 to 20 dB: LB, M 20 to 30 dB: LB, M, SN, RO Greater than 30 dB: LB, M, SN, IB, PC, RO
No.	**NCA**	**Usage**	**Rec**	**Address**	**Unique ID**	**NML**	**Activity 2 - Leq dB(A)**	**Activity 6 - Leq dB(A)**
53842	NCA11	RES	162	75 LAWSON ROAD	5678	42	40	41
53853	NCA11	RES	171	83-87 LAWSON ROAD	5687	42	38	38
53867	NCA11	RES	173	83-87 LAWSON ROAD	5689	42	37	38
53874	NCA11	RES	182	10 MARTIN ROAD	5698	42	35	37
53887	NCA11	RES	189	100 MARTIN ROAD	5705	42	34	34
53894	NCA11	RES	191	110 MARTIN ROAD	5707	42	34	34
53909	NCA11	RES	192	120 MARTIN ROAD	5708	42	36	36
53918	NCA11	RES	201	150 MARTIN ROAD	5717	42	32	32
53925	NCA11	RES	211	160 MARTIN ROAD	5727	42	34	31
53941	NCA11	RES	212	160 MARTIN ROAD	5728	42	32	31
53950	NCA11	RES	213	160 MARTIN ROAD	5729	42	31	31
53956	NCA11	RES	216	165 MARTIN ROAD	5732	42	32	31
53964	NCA11	RES	217	165 MARTIN ROAD	5733	42	33	33
53970	NCA11	RES	218	165 MARTIN ROAD	5734	42	31	29
53977	NCA11	RES	219	165 MARTIN ROAD	5735	42	34	33
53982	NCA11	RES	220	170 MARTIN ROAD	5736	42	31	28
53990	NCA11	RES	222	170 MARTIN ROAD	5738	42	34	33
53996	NCA11	RES	224	195 MARTIN ROAD	5740	42	22	29
54004	NCA11	RES	225	195 MARTIN ROAD	5741	42	22	29
54009	NCA11	RES	226	195 MARTIN ROAD	5742	42	28	29
54015	NCA11	RES	228	195 MARTIN ROAD	5744	42	22	29
54020	NCA11	RES	233	211 MARTIN ROAD	5749	42	22	0
54031	NCA11	RES	235	211 MARTIN ROAD	5751	42	28	0
54039	NCA11	RES	238	225 MARTIN ROAD	5754	42	0	0
54051	NCA11	RES	242	225 MARTIN ROAD	5758	42	0	0
54057	NCA11	RES	246	230 MARTIN ROAD	5762	42	21	0
54066	NCA11	RES	249	30 MARTIN ROAD	5765	42	35	36
54078	NCA11	RES	252	40 MARTIN ROAD	5768	42	37	38
54092	NCA11	RES	255	50 MARTIN ROAD	5771	42	36	37
54102	NCA11	RES	256	50 MARTIN ROAD	5772	42	35	36
54111	NCA11	RES	258	50 MARTIN ROAD	5774	42	33	34
54120	NCA11	RES	259	55 MARTIN ROAD	5775	42	38	39
54130	NCA11	RES	262	60 MARTIN ROAD	5778	42	34	35
54138	NCA11	RES	265	65 MARTIN ROAD	5781	42	35	36

Predicted OOHW Evening construction noise levels

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0 to 10 dB: LB
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No.	NCA	Usage	Rec	Address	Unique ID	NML	Activity 2 - Leq dB(A)	Activity 6 - Leq dB(A)
54143	NCA11	RES	267	65 MARTIN ROAD	5783	42	36	37
54163	NCA11	RES	269	70 MARTIN ROAD	5785	42	35	35
54178	NCA11	RES	275	75 MARTIN ROAD	5791	42	35	35
54189	NCA11	RES	279	80 MARTIN ROAD	5795	42	33	34
54196	NCA11	RES	287	85 MARTIN ROAD	5803	42	33	33
54202	NCA11	RES	292	90 MARTIN ROAD	5808	42	34	34
54207	NCA11	RES	294	90 MARTIN ROAD	5810	42	34	35
54218	NCA11	RES	298	105-115 ADAMS ROAD	5814	42	0	0
54224	NCA11	RES	299	105-115 ADAMS ROAD	5815	42	0	0
54228	NCA11	RES	300	125 ADAMS ROAD	5816	42	0	0
54241	NCA11	RES	301	125 ADAMS ROAD	5817	42	0	0
54248	NCA11	RES	303	125 ADAMS ROAD	5819	42	0	0
54264	NCA11	RES	305	125 ADAMS ROAD	5821	42	0	0
54272	NCA11	RES	306	125 ADAMS ROAD	5822	42	0	0
54278	NCA11	RES	309	125 ADAMS ROAD	5825	42	0	0
54283	NCA11	RES	312	145 ADAMS ROAD	5828	42	0	0
54293	NCA11	RES	313	145 ADAMS ROAD	5829	42	0	0
54303	NCA11	RES	314	145 ADAMS ROAD	5830	42	0	0
54319	NCA11	RES	317	161 ADAMS ROAD	5833	42	0	0
54326	NCA11	RES	319	161 ADAMS ROAD	5835	42	0	0
54334	NCA11	RES	320	161 ADAMS ROAD	5836	42	0	0
54342	NCA11	RES	321	180 ADAMS ROAD	5837	42	0	0
54346	NCA11	RES	324	185 ADAMS ROAD	5840	42	0	0
54358	NCA11	RES	331	225 ADAMS ROAD	5847	42	0	0
54375	NCA11	RES	332	230 ADAMS ROAD	5848	42	0	0
54379	NCA11	RES	334	275 ADAMS ROAD	5850	42	0	0
54389	NCA11	RES	337	5 ANTON ROAD	5853	42	0	0
54409	NCA11	RES	366	2470 ELIZABETH DRIVE	5882	42	30	0
54412	NCA11	RES	369	2470 ELIZABETH DRIVE	5885	42	31	0
54416	NCA11	RES	839		6355	42	21	0
54430	NCA11	RES	840		6356	42	29	0
54440	NCA11	RES	845		6361	42	21	0
54448	NCA11	RES	855		6371	42	21	0

Predicted OOHW Night-time construction noise levels

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0 to 10 dB: LB
10 to 20 dB: LB, M, SN, RO
20 to 30 dB: LB, M, SN, IB, PC, RO, AA
Greater than 30 dB: LB, M, SN, IB, PC, RO, AA

No.	NCA	Usage	Rec	Address	Unique ID	NML	Activity 2 - Leq dB(A)	Activity 4 - Leq dB(A)	Activity 6 - Leq dB(A)
41128	NCA9	RES	1		5106	39	0	31	0
41132	NCA9	RES	15		5120	39	0	32	0
41140	NCA9	RES	19		5124	39	0	31	0
41146	NCA9	RES	20		5125	39	0	33	0
41158	NCA9	RES	23		5128	39	0	31	0
41167	NCA9	RES	31		5136	39	0	32	0
41174	NCA9	RES	34		5139	39	0	31	0
41179	NCA9	RES	39		5144	39	0	34	0
41206	NCA9	RES	43		5148	39	0	31	0
41210	NCA9	RES	47		5152	39	0	31	0
41214	NCA9	RES	57		5162	39	0	34	0
41220	NCA9	RES	58		5163	39	0	31	0
41224	NCA9	RES	63		5168	39	0	34	0
41233	NCA9	RES	65		5170	39	0	32	0
41241	NCA9	RES	66		5171	39	0	32	0
41245	NCA9	RES	105	117-199 LUDDENHAM ROAD	5210	39	0	36	0
41249	NCA9	RES	106	117-199 LUDDENHAM ROAD	5211	39	0	40	0
41257	NCA9	RES	107	117-199 LUDDENHAM ROAD	5212	39	0	39	0
41268	NCA9	RES	108	117-199 LUDDENHAM ROAD	5213	39	0	40	0
41279	NCA9	RES	109	117-199 LUDDENHAM ROAD	5214	39	0	40	0
41284	NCA9	RES	113	117-199 LUDDENHAM ROAD	5218	39	0	39	0
41292	NCA9	RES	116	117-199 LUDDENHAM ROAD	5221	39	0	40	0
41296	NCA9	RES	118	117-199 LUDDENHAM ROAD	5223	39	0	39	0
41300	NCA9	RES	119	117-199 LUDDENHAM ROAD	5224	39	0	43	0
41304	NCA9	RES	126	117-199 LUDDENHAM ROAD	5231	39	0	39	0
41312	NCA9	RES	128	182-200 LUDDENHAM ROAD	5233	39	0	36	0
41318	NCA9	RES	129	182-200 LUDDENHAM ROAD	5234	39	0	37	0
41323	NCA9	RES	132	202-210 LUDDENHAM ROAD	5237	39	0	36	0
41329	NCA9	RES	133	202-210 LUDDENHAM ROAD	5238	39	0	38	0
41338	NCA9	RES	134	202-210 LUDDENHAM ROAD	5239	39	0	36	0
41352	NCA9	RES	135	212-214 LUDDENHAM ROAD	5240	39	0	36	0
41358	NCA9	RES	137	212-214 LUDDENHAM ROAD	5242	39	0	38	0

Predicted OOHW Night-time construction noise levels

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	20 to 30 dB: LB, M, SN, IB, PC, RO, AA
Bold = Highly noise affected	Greater than 30 dB: LB, M, SN, IB, PC, RO, AA

No.	NCA	Usage	Rec	Address	Unique ID	NML	Activity 2 - Leq dB(A)	Activity 4 - Leq dB(A)	Activity 6 - Leq dB(A)
41378	NCA9	RES	139	212-214 LUDDENHAM ROAD	5244	39	0	39	0
41397	NCA9	RES	140	212-214 LUDDENHAM ROAD	5245	39	0	36	0
41403	NCA9	RES	142	216 LUDDENHAM ROAD	5247	39	0	35	0
41408	NCA9	RES	144	216 LUDDENHAM ROAD	5249	39	0	36	0
41419	NCA9	RES	146	216 LUDDENHAM ROAD	5251	39	0	38	0
41427	NCA9	RES	173	221-227 LUDDENHAM ROAD	5278	39	0	38	0
41431	NCA9	RES	174	221-227 LUDDENHAM ROAD	5279	39	0	36	0
41435	NCA9	RES	203	221-227 LUDDENHAM ROAD	5308	39	0	40	0
41445	NCA9	RES	209	221-227 LUDDENHAM ROAD	5314	39	0	38	0
41453	NCA9	RES	224	222-224 LUDDENHAM ROAD	5329	39	0	35	0
41457	NCA9	RES	228	222B LUDDENHAM ROAD	5333	39	0	38	0
41473	NCA9	RES	229	226-228 LUDDENHAM ROAD	5334	39	0	35	0
41477	NCA9	RES	230	226-228 LUDDENHAM ROAD	5335	39	0	36	0
41487	NCA9	RES	232	226-228 LUDDENHAM ROAD	5337	39	0	35	0
41491	NCA9	RES	234	229-231 LUDDENHAM ROAD	5339	39	0	40	0
41499	NCA9	RES	243	230-234 LUDDENHAM ROAD	5348	39	0	38	0
41512	NCA9	RES	244	230-234 LUDDENHAM ROAD	5349	39	0	35	0
41521	NCA9	RES	246	233-249 LUDDENHAM ROAD	5351	39	0	39	0
41527	NCA9	RES	252	236-238 LUDDENHAM ROAD	5357	39	0	35	0
41540	NCA9	RES	255	236-238 LUDDENHAM ROAD	5360	39	0	35	0
41550	NCA9	RES	256	240-244 LUDDENHAM ROAD	5361	39	0	35	0
41554	NCA9	RES	259	240-244 LUDDENHAM ROAD	5364	39	0	36	0
41560	NCA9	RES	261	240-244 LUDDENHAM ROAD	5366	39	0	38	0
41578	NCA9	RES	263	246-248 LUDDENHAM ROAD	5368	39	0	34	0
41582	NCA9	RES	264	246-248 LUDDENHAM ROAD	5369	39	0	35	0
41601	NCA9	RES	267	246-248 LUDDENHAM ROAD	5372	39	0	35	0
41605	NCA9	RES	268	250-254 LUDDENHAM ROAD	5373	39	0	34	0
41611	NCA9	RES	269	250-254 LUDDENHAM ROAD	5374	39	0	34	0
41619	NCA9	RES	270	250-254 LUDDENHAM ROAD	5375	39	0	36	0
41623	NCA9	RES	272	250-254 LUDDENHAM ROAD	5377	39	0	35	0
41645	NCA9	RES	274	250-254 LUDDENHAM ROAD	5379	39	0	34	0
41649	NCA9	RES	276	251-261 LUDDENHAM ROAD	5381	39	0	37	0

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20 to 30 dB: LB, M, SN, IB, PC, RO, AA
Greater than 30 dB: LB, M, SN, IB, PC, RO, AA

No.	NCA	Usage	Rec	Address	Unique ID	NML	Activity 2 - Leq dB(A)	Activity 4 - Leq dB(A)	Activity 6 - Leq dB(A)
41653	NCA9	RES	280	251-261 LUDDENHAM ROAD	5385	39	0	36	0
41659	NCA9	RES	281	256 LUDDENHAM ROAD	5386	39	0	37	0
41678	NCA9	RES	282	256 LUDDENHAM ROAD	5387	39	0	36	0
41689	NCA9	RES	283	262-266 LUDDENHAM ROAD	5388	39	0	34	0
41694	NCA9	RES	284	262-266 LUDDENHAM ROAD	5389	39	0	34	0
41698	NCA9	RES	285	262-266 LUDDENHAM ROAD	5390	39	0	34	0
41702	NCA9	RES	289	262-266 LUDDENHAM ROAD	5394	39	0	35	0
41713	NCA9	RES	290	263-273 LUDDENHAM ROAD	5395	39	0	38	0
41717	NCA9	RES	292	268-288 LUDDENHAM ROAD	5397	39	0	35	0
41721	NCA9	RES	293	275-285 LUDDENHAM ROAD	5398	39	0	37	0
41726	NCA9	RES	297	275-285 LUDDENHAM ROAD	5402	39	0	37	0
41732	NCA9	RES	298	275-285 LUDDENHAM ROAD	5403	39	0	36	0
41748	NCA9	RES	299	275A LUDDENHAM ROAD	5404	39	0	37	0
41752	NCA9	RES	302	275A LUDDENHAM ROAD	5407	39	0	38	0
41774	NCA9	RES	303	287 LUDDENHAM ROAD	5408	39	0	39	0
41785	NCA9	RES	305	287 LUDDENHAM ROAD	5410	39	0	36	0
41791	NCA9	RES	307	289-317 LUDDENHAM ROAD	5412	39	0	38	0
41813	NCA9	RES	308	289-317 LUDDENHAM ROAD	5413	39	0	36	0
41821	NCA9	RES	309	31-39 LUDDENHAM ROAD	5414	39	0	28	0
41836	NCA9	RES	312	319-325 LUDDENHAM ROAD	5417	39	22	38	0
41840	NCA9	RES	313	319-325 LUDDENHAM ROAD	5418	39	21	38	0
41848	NCA9	RES	314	319-325 LUDDENHAM ROAD	5419	39	28	38	0
41855	NCA9	RES	315	319-325 LUDDENHAM ROAD	5420	39	24	40	0
41863	NCA9	RES	317	319-325 LUDDENHAM ROAD	5422	39	21	38	0
41868	NCA9	RES	319	320-326 LUDDENHAM ROAD	5424	39	0	35	0
41899	NCA9	RES	321	327-329 LUDDENHAM ROAD	5426	39	31	45	0
41900	NCA9	RES	322	43A LUDDENHAM ROAD	5427	39	0	33	0
41908	NCA9	RES	323	43A LUDDENHAM ROAD	5428	39	0	36	0
41912	NCA9	RES	325	43A LUDDENHAM ROAD	5430	39	0	37	0
41916	NCA9	RES	328	43A LUDDENHAM ROAD	5433	39	0	40	0
41930	NCA9	RES	331	43A LUDDENHAM ROAD	5436	39	0	37	0
41934	NCA9	RES	343	573-577 MAMRE ROAD	5448	39	0	0	0

Predicted OOHW Night-time construction noise levels

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No.	NCA	Usage	Rec	Address	Unique ID	NML	Activity 2 - Leq dB(A)	Activity 4 - Leq dB(A)	Activity 6 - Leq dB(A)
41950	NCA9	RES	344	573-577 MAMRE ROAD	5449	39	0	0	0
41954	NCA9	RES	346	43466 MANDALONG CLOSE	5451	39	0	29	0
41971	NCA9	RES	348	21A MANDALONG CLOSE	5453	39	0	29	0
41997	NCA9	RES	349	21A MANDALONG CLOSE	5454	39	0	26	0
42003	NCA9	RES	351	25-31 MANDALONG CLOSE	5456	39	0	28	0
42009	NCA9	RES	353	25-31 MANDALONG CLOSE	5458	39	0	28	0
42017	NCA9	RES	354	25-31 MANDALONG CLOSE	5459	39	0	30	0
42045	NCA9	RES	355	33-41 MANDALONG CLOSE	5460	39	0	28	0
42049	NCA9	RES	356	33-41 MANDALONG CLOSE	5461	39	0	30	0
42069	NCA9	RES	357	33-41 MANDALONG CLOSE	5462	39	0	28	0
42081	NCA9	RES	360	43-51 MANDALONG CLOSE	5465	39	0	29	0
42090	NCA9	RES	361	43-51 MANDALONG CLOSE	5466	39	0	29	0
42094	NCA9	RES	362	43-51 MANDALONG CLOSE	5467	39	0	28	0
42098	NCA9	RES	363	43-51 MANDALONG CLOSE	5468	39	0	30	0
42128	NCA9	RES	364	53-63 MANDALONG CLOSE	5469	39	0	29	0
42139	NCA9	RES	366	53-63 MANDALONG CLOSE	5471	39	0	28	0
42147	NCA9	RES	367	53-63 MANDALONG CLOSE	5472	39	0	32	0
42168	NCA9	RES	368	53-63 MANDALONG CLOSE	5473	39	0	32	0
42185	NCA9	RES	370	65-73 MANDALONG CLOSE	5475	39	0	30	0
42195	NCA9	RES	373	65-73 MANDALONG CLOSE	5478	39	0	32	0
42213	NCA9	RES	374	65-73 MANDALONG CLOSE	5479	39	0	30	0
42224	NCA9	RES	375	65-73 MANDALONG CLOSE	5480	39	0	30	0
42239	NCA9	RES	376	75-77 MANDALONG CLOSE	5481	39	0	33	0
42262	NCA9	RES	377	79-81 MANDALONG CLOSE	5482	39	0	32	0
42268	NCA9	RES	380	79-81 MANDALONG CLOSE	5485	39	0	34	0
42284	NCA9	RES	381	79-81 MANDALONG CLOSE	5486	39	0	31	0
42292	NCA9	RES	382	79-81 MANDALONG CLOSE	5487	39	0	32	0
42300	NCA9	RES	384	79-81 MANDALONG CLOSE	5489	39	0	31	0
42314	NCA9	RES	385	79-81 MANDALONG CLOSE	5490	39	0	31	0
42320	NCA9	RES	386	79-81 MANDALONG CLOSE	5491	39	0	32	0
42329	NCA9	RES	387	79-81 MANDALONG CLOSE	5492	39	0	31	0
42337	NCA9	RES	392	83-91 MANDALONG CLOSE	5497	39	0	32	0

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No.	NCA	Usage	Rec	Address	Unique ID	NML	Activity 2 - Leq dB(A)	Activity 4 - Leq dB(A)	Activity 6 - Leq dB(A)
42364	NCA9	RES	393	83-91 MANDALONG CLOSE	5498	39	0	31	0
42370	NCA9	RES	396	83-91 MANDALONG CLOSE	5501	39	0	30	0
42389	NCA9	RES	398	83-91 MANDALONG CLOSE	5503	39	0	33	0
42394	NCA9	RES	755	2042-2550 THE NORTHERN ROA	6271	39	0	27	0
42409	NCA9	RES	756	2042-2550 THE NORTHERN ROA	6272	39	0	27	0
42413	NCA9	RES	761	2042-2550 THE NORTHERN ROA	6277	39	0	27	0
42425	NCA9	RES	762	2042-2550 THE NORTHERN ROA	6278	39	0	0	0
42429	NCA9	RES	763	2042-2550 THE NORTHERN ROA	6279	39	0	27	0
42437	NCA9	RES	766	2042-2550 THE NORTHERN ROA	6282	39	0	27	0
42447	NCA9	RES	767	2042-2550 THE NORTHERN ROA	6283	39	0	27	0
42457	NCA9	RES	769	2042-2550 THE NORTHERN ROA	6285	39	0	27	0
42476	NCA9	RES	772	2042-2550 THE NORTHERN ROA	6288	39	0	27	0
42486	NCA9	RES	774	2042-2550 THE NORTHERN ROA	6290	39	0	0	0
44914	NCA10	RES	5		5	35	32	29	0
44923	NCA10	RES	16	1669A ELIZABETH DRIVE	16	35	37	0	37
44936	NCA10	RES	26	1669A ELIZABETH DRIVE	26	35	38	0	37
44943	NCA10	RES	52	1783-1789 ELIZABETH DRIVE	52	35	45	0	48
44953	NCA10	RES	81	1953-2109 ELIZABETH DRIVE	81	35	37	0	31
44954	NCA10	RES	82	1953-2109 ELIZABETH DRIVE	82	35	41	0	32
44971	NCA10	RES	88	1953-2109 ELIZABETH DRIVE	88	35	48	0	40
44977	NCA10	RES	97	707A MAMRE ROAD	97	35	0	0	0
44992	NCA10	RES	99	707A MAMRE ROAD	99	35	0	0	0
45022	NCA10	RES	104	3 BRIDPORT PLACE	104	35	46	0	31
45032	NCA10	RES	105	4 BRIDPORT PLACE	105	35	46	0	30
45036	NCA10	RES	106	4 BRIDPORT PLACE	106	35	45	0	33
45074	NCA10	RES	107	10 COMARGO LANE	107	35	31	36	0
45086	NCA10	RES	108	2 COMARGO LANE	108	35	31	32	0
45102	NCA10	RES	109	2 COMARGO LANE	109	35	34	35	0
45124	NCA10	RES	111	4 COMARGO LANE	111	35	31	32	0
45140	NCA10	RES	112	6 COMARGO LANE	112	35	34	33	0
45159	NCA10	RES	113	8 COMARGO LANE	113	35	31	36	0
45164	NCA10	RES	114	2 CRYSTAL DOWNS CLOSE	114	35	36	28	0

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No.	NCA	Usage	Rec	Address	Unique ID	NML	Activity 2 - Leq dB(A)	Activity 4 - Leq dB(A)	Activity 6 - Leq dB(A)
45181	NCA10	RES	115	3 CRYSTAL DOWNS CLOSE	115	35	36	30	0
45212	NCA10	RES	116	4 CRYSTAL DOWNS CLOSE	116	35	35	30	0
45221	NCA10	RES	118	5 CRYSTAL DOWNS CLOSE	118	35	35	30	0
45241	NCA10	RES	119	6 CRYSTAL DOWNS CLOSE	119	35	36	31	0
45269	NCA10	RES	120	7 CRYSTAL DOWNS CLOSE	120	35	36	31	0
45277	NCA10	RES	121	8 CRYSTAL DOWNS CLOSE	121	35	34	28	0
45289	NCA10	RES	122	10 DORAL GROVE	122	35	39	30	0
45296	NCA10	RES	125	11 DORAL GROVE	125	35	34	30	0
45315	NCA10	RES	126	3 DORAL GROVE	126	35	38	30	0
45338	NCA10	RES	127	4 DORAL GROVE	127	35	38	27	0
45356	NCA10	RES	128	5 DORAL GROVE	128	35	37	30	0
45373	NCA10	RES	129	6 DORAL GROVE	129	35	38	30	0
45395	NCA10	RES	131	7 DORAL GROVE	131	35	37	30	0
45408	NCA10	RES	132	8 DORAL GROVE	132	35	37	28	0
45435	NCA10	RES	133	9 DORAL GROVE	133	35	39	30	0
45442	NCA10	RES	137	2111-2141 ELIZABETH DRIVE	137	35	34	0	0
45473	NCA10	RES	146	10 FARMINGDALE COURT	146	35	44	0	32
45488	NCA10	RES	148	11 FARMINGDALE COURT	148	35	44	0	34
45507	NCA10	RES	149	12 FARMINGDALE COURT	149	35	48	0	32
45541	NCA10	RES	150	14 FARMINGDALE COURT	150	35	49	0	35
45565	NCA10	RES	151	14 FARMINGDALE COURT	151	35	49	0	34
45575	NCA10	RES	152	16 FARMINGDALE COURT	152	35	49	0	35
45610	NCA10	RES	153	17 FARMINGDALE COURT	153	35	44	0	35
45619	NCA10	RES	154	17 FARMINGDALE COURT	154	35	44	0	35
45622	NCA10	RES	155	18 FARMINGDALE COURT	155	35	45	0	35
45632	NCA10	RES	156	18 FARMINGDALE COURT	156	35	46	0	35
45648	NCA10	RES	157	2 FARMINGDALE COURT	157	35	45	0	33
45670	NCA10	RES	159	22 FARMINGDALE COURT	159	35	47	0	35
45699	NCA10	RES	160	5 FARMINGDALE COURT	160	35	45	0	34
45746	NCA10	RES	161	6 FARMINGDALE COURT	161	35	46	0	34
45748	NCA10	RES	162	6 FARMINGDALE COURT	162	35	44	0	33
45773	NCA10	RES	163	7 FARMINGDALE COURT	163	35	42	0	32

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No.	NCA	Usage	Rec	Address	Unique ID	NML	Activity 2 - Leq dB(A)	Activity 4 - Leq dB(A)	Activity 6 - Leq dB(A)
45789	NCA10	RES	165	7 FARMINGDALE COURT	165	35	42	0	31
45807	NCA10	RES	166	8 FARMINGDALE COURT	166	35	46	0	34
45825	NCA10	RES	167	9 FARMINGDALE COURT	167	35	42	0	34
45851	NCA10	RES	169	10 GANTON WAY	169	35	41	0	31
45883	NCA10	RES	170	12 GANTON WAY	170	35	42	0	33
45903	NCA10	RES	171	16 GANTON WAY	171	35	42	0	32
45939	NCA10	RES	172	18 GANTON WAY	172	35	42	0	32
45969	NCA10	RES	174	2 GANTON WAY	174	35	38	0	0
45994	NCA10	RES	176	4 GANTON WAY	176	35	40	0	0
46016	NCA10	RES	177	6 GANTON WAY	177	35	41	0	0
46031	NCA10	RES	178	6 GANTON WAY	178	35	38	0	0
46040	NCA10	RES	179	8 GANTON WAY	179	35	41	0	31
46053	NCA10	RES	180	10 HALMSTAD BOULEVARD	180	35	40	0	0
46066	NCA10	RES	181	10 HALMSTAD BOULEVARD	181	35	41	0	0
46077	NCA10	RES	182	10 HALMSTAD BOULEVARD	182	35	36	0	0
46088	NCA10	RES	184	11 HALMSTAD BOULEVARD	184	35	43	0	0
46106	NCA10	RES	185	11 HALMSTAD BOULEVARD	185	35	41	0	0
46110	NCA10	RES	186	12 HALMSTAD BOULEVARD	186	35	40	0	0
46126	NCA10	RES	187	12 HALMSTAD BOULEVARD	187	35	41	0	0
46137	NCA10	RES	188	13 HALMSTAD BOULEVARD	188	35	41	0	0
46143	NCA10	RES	189	13 HALMSTAD BOULEVARD	189	35	41	0	0
46168	NCA10	RES	190	14 HALMSTAD BOULEVARD	190	35	42	0	31
46179	NCA10	RES	191	14 HALMSTAD BOULEVARD	191	35	41	0	29
46191	NCA10	RES	192	15 HALMSTAD BOULEVARD	192	35	44	0	0
46205	NCA10	RES	193	15 HALMSTAD BOULEVARD	193	35	42	0	0
46220	NCA10	RES	194	17 HALMSTAD BOULEVARD	194	35	44	0	29
46238	NCA10	RES	195	19 HALMSTAD BOULEVARD	195	35	44	0	31
46252	NCA10	RES	196	19 HALMSTAD BOULEVARD	196	35	42	0	29
46255	NCA10	RES	197	20 HALMSTAD BOULEVARD	197	35	43	0	32
46261	NCA10	RES	198	20 HALMSTAD BOULEVARD	198	35	40	0	29
46274	NCA10	RES	199	20 HALMSTAD BOULEVARD	199	35	44	0	32
46289	NCA10	RES	200	22 HALMSTAD BOULEVARD	200	35	45	0	30

Predicted OOHW Night-time construction noise levels

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No.	NCA	Usage	Rec	Address	Unique ID	NML	Activity 2 - Leq dB(A)	Activity 4 - Leq dB(A)	Activity 6 - Leq dB(A)
46304	NCA10	RES	201	23 HALMSTAD BOULEVARD	201	35	45	0	32
46330	NCA10	RES	203	24 HALMSTAD BOULEVARD	203	35	41	0	31
46342	NCA10	RES	204	24 HALMSTAD BOULEVARD	204	35	45	0	30
46356	NCA10	RES	205	25 HALMSTAD BOULEVARD	205	35	43	0	30
46381	NCA10	RES	206	25 HALMSTAD BOULEVARD	206	35	45	0	32
46394	NCA10	RES	207	26 HALMSTAD BOULEVARD	207	35	42	0	30
46413	NCA10	RES	208	26 HALMSTAD BOULEVARD	208	35	42	0	30
46420	NCA10	RES	209	27 HALMSTAD BOULEVARD	209	35	43	0	30
46432	NCA10	RES	211	28 HALMSTAD BOULEVARD	211	35	45	0	33
46448	NCA10	RES	212	28 HALMSTAD BOULEVARD	212	35	42	0	29
46457	NCA10	RES	213	3 HALMSTAD BOULEVARD	213	35	42	0	0
46470	NCA10	RES	214	39 HALMSTAD BOULEVARD	214	35	45	0	33
46493	NCA10	RES	215	4 HALMSTAD BOULEVARD	215	35	42	0	0
46517	NCA10	RES	216	4 HALMSTAD BOULEVARD	216	35	36	0	0
46545	NCA10	RES	218	5 HALMSTAD BOULEVARD	218	35	42	0	0
46556	NCA10	RES	219	7 HALMSTAD BOULEVARD	219	35	40	0	0
46572	NCA10	RES	220	8 HALMSTAD BOULEVARD	220	35	41	0	0
46581	NCA10	RES	221	8 HALMSTAD BOULEVARD	221	35	40	0	0
46588	NCA10	RES	222	8 HALMSTAD BOULEVARD	222	35	40	0	0
46597	NCA10	RES	223	1 HUMEWOOD PLACE	223	35	41	0	0
46617	NCA10	RES	224	10 HUMEWOOD PLACE	224	35	40	0	0
46624	NCA10	RES	225	10 HUMEWOOD PLACE	225	35	40	0	28
46649	NCA10	RES	228	11 HUMEWOOD PLACE	228	35	43	0	29
46665	NCA10	RES	229	11 HUMEWOOD PLACE	229	35	39	0	29
46673	NCA10	RES	230	12 HUMEWOOD PLACE	230	35	43	0	31
46692	NCA10	RES	231	14 HUMEWOOD PLACE	231	35	43	0	31
46720	NCA10	RES	232	15 HUMEWOOD PLACE	232	35	43	0	32
46738	NCA10	RES	233	2 HUMEWOOD PLACE	233	35	39	0	0
46744	NCA10	RES	234	2 HUMEWOOD PLACE	234	35	39	0	0
46759	NCA10	RES	235	2 HUMEWOOD PLACE	235	35	41	0	0
46777	NCA10	RES	236	2 HUMEWOOD PLACE	236	35	38	0	0
46787	NCA10	RES	237	22 HUMEWOOD PLACE	237	35	43	0	30

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No.	NCA	Usage	Rec	Address	Unique ID	NML	Activity 2 - Leq dB(A)	Activity 4 - Leq dB(A)	Activity 6 - Leq dB(A)
46795	NCA10	RES	239	22 HUMEWOOD PLACE	239	35	43	0	31
46806	NCA10	RES	240	24 HUMEWOOD PLACE	240	35	42	0	33
46832	NCA10	RES	241	24 HUMEWOOD PLACE	241	35	43	0	30
46840	NCA10	RES	242	3 HUMEWOOD PLACE	242	35	34	0	0
46853	NCA10	RES	243	3 HUMEWOOD PLACE	243	35	39	0	0
46880	NCA10	RES	244	4 HUMEWOOD PLACE	244	35	41	0	0
46885	NCA10	RES	246	5 HUMEWOOD PLACE	246	35	41	0	0
46896	NCA10	RES	247	5 HUMEWOOD PLACE	247	35	42	0	0
46909	NCA10	RES	249	5 HUMEWOOD PLACE	249	35	41	0	0
46931	NCA10	RES	250	6 HUMEWOOD PLACE	250	35	42	0	0
46942	NCA10	RES	252	7 HUMEWOOD PLACE	252	35	39	0	0
46954	NCA10	RES	253	7 HUMEWOOD PLACE	253	35	41	0	28
46966	NCA10	RES	254	9 HUMEWOOD PLACE	254	35	42	0	31
46987	NCA10	RES	256	9 HUMEWOOD PLACE	256	35	40	0	28
46994	NCA10	RES	258	336-348 LUDDENHAM ROAD	258	35	21	34	0
46999	NCA10	RES	265	339-363 LUDDENHAM ROAD	265	35	22	35	0
47005	NCA10	RES	275	405-423 LUDDENHAM ROAD	275	35	33	36	0
47017	NCA10	RES	279	425-441 LUDDENHAM ROAD	279	35	35	35	0
47030	NCA10	RES	288	425A LUDDENHAM ROAD	288	35	36	35	0
47051	NCA10	RES	292	443-457 LUDDENHAM ROAD	292	35	39	36	0
47061	NCA10	RES	297	581 LUDDENHAM ROAD	297	35	39	32	0
47064	NCA10	RES	302	611-639 LUDDENHAM ROAD	302	35	49	0	0
47076	NCA10	RES	304	611A LUDDENHAM ROAD	304	35	46	0	0
47100	NCA10	RES	308	641-675 LUDDENHAM ROAD	308	35	41	0	0
47104	NCA10	RES	311	644-652 LUDDENHAM ROAD	311	35	50	0	0
47111	NCA10	RES	314	654-658 LUDDENHAM ROAD	314	35	51	0	0
47112	NCA10	RES	319	660-670 LUDDENHAM ROAD	319	35	46	0	0
47117	NCA10	RES	321	672-686 LUDDENHAM ROAD	321	35	46	0	0
47137	NCA10	RES	324	672-686 LUDDENHAM ROAD	324	35	47	0	0
47167	NCA10	RES	329	677-691 LUDDENHAM ROAD	329	35	45	0	0
47175	NCA10	RES	334	688-708 LUDDENHAM ROAD	334	35	46	0	0
47195	NCA10	RES	335	688-708 LUDDENHAM ROAD	335	35	43	0	0

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	10 to 20 dB: LB, M, SN, RO
	20 to 30 dB: LB, M, SN, IB, PC, RO, AA
	Greater than 30 dB: LB, M, SN, IB, PC, RO, AA

No.	NCA	Usage	Rec	Address	Unique ID	NML	Activity 2 - Leq dB(A)	Activity 4 - Leq dB(A)	Activity 6 - Leq dB(A)
47201	NCA10	RES	336	688-708 LUDDENHAM ROAD	336	35	**44**	0	0
47210	NCA10	RES	337	688-708 LUDDENHAM ROAD	337	35	33	0	0
47234	NCA10	RES	342	693-711 LUDDENHAM ROAD	342	35	**38**	0	0
47243	NCA10	RES	345	2179 ELIZABETH DRIVE	5861	35	0	0	0
47260	NCA10	RES	345	693-711 LUDDENHAM ROAD	345	35	**39**	0	0
47272	NCA10	RES	349	710-732 LUDDENHAM ROAD	349	35	**40**	0	0
47275	NCA10	RES	350	2179A ELIZABETH DRIVE	5866	35	0	0	0
47285	NCA10	RES	351	710-732 LUDDENHAM ROAD	351	35	**39**	0	0
47297	NCA10	RES	352	713-733 LUDDENHAM ROAD	352	35	**40**	0	0
47307	NCA10	RES	354	2207-2223 ELIZABETH DRIVE	5870	35	0	0	0
47313	NCA10	RES	355	734 LUDDENHAM ROAD	355	35	**42**	0	0
47314	NCA10	RES	355	2207-2223 ELIZABETH DRIVE	5871	35	0	0	0
47342	NCA10	RES	357	2207-2223 ELIZABETH DRIVE	5873	35	0	0	0
47350	NCA10	RES	358	2207-2223 ELIZABETH DRIVE	5874	35	0	0	0
47355	NCA10	RES	359	734-750 LUDDENHAM ROAD	359	35	**38**	0	0
47370	NCA10	RES	361	2225-2239 ELIZABETH DRIVE	5877	35	0	0	0
47380	NCA10	RES	363	2225-2239 ELIZABETH DRIVE	5879	35	0	0	0
47400	NCA10	RES	367	752-810 LUDDENHAM ROAD	367	35	**37**	0	0
47403	NCA10	RES	377	752-810 LUDDENHAM ROAD	377	35	**38**	0	0
47413	NCA10	RES	379	2510-2550 ELIZABETH DRIVE	5895	35	0	0	0
47445	NCA10	RES	384	812-844 LUDDENHAM ROAD	384	35	**35**	0	0
47454	NCA10	RES	385	812-844 LUDDENHAM ROAD	385	35	**35**	0	0
47478	NCA10	RES	386	812-844 LUDDENHAM ROAD	386	35	33	0	0
47493	NCA10	RES	390	2600 ELIZABETH DRIVE	5906	35	0	0	0
47500	NCA10	RES	392	2600 ELIZABETH DRIVE	5908	35	0	0	0
47506	NCA10	RES	394	2600 ELIZABETH DRIVE	5910	35	0	0	0
47533	NCA10	RES	395	765 LUDDENHAM ROAD	5911	35	34	0	0
47548	NCA10	RES	398	765 LUDDENHAM ROAD	5914	35	**36**	0	0
47553	NCA10	RES	399	765 LUDDENHAM ROAD	5915	35	**36**	0	0
47561	NCA10	RES	407	777-819 LUDDENHAM ROAD	5923	35	33	0	0
47577	NCA10	RES	409	821 LUDDENHAM ROAD	5925	35	33	0	0
47587	NCA10	RES	421	851-867 LUDDENHAM ROAD	5937	35	29	0	0

Predicted OOHW Night-time construction noise levels

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Bold = Highly noise affected	Greater than 30 dB: LB, M, SN, IB, PC, RO, AA

No.	NCA	Usage	Rec	Address	Unique ID	NML	Activity 2 - Leq dB(A)	Activity 4 - Leq dB(A)	Activity 6 - Leq dB(A)
47589	NCA10	RES	422	869-885 LUDDENHAM ROAD	5938	35	0	0	0
47600	NCA10	RES	424	869-885 LUDDENHAM ROAD	5940	35	0	0	0
47608	NCA10	RES	429	869-885 LUDDENHAM ROAD	5945	35	0	0	0
47629	NCA10	RES	430	892 LUDDENHAM ROAD	430	35	34	0	0
47645	NCA10	RES	432	869-885 LUDDENHAM ROAD	5948	35	30	0	0
47657	NCA10	RES	435	869A LUDDENHAM ROAD	5951	35	0	0	0
47661	NCA10	RES	437	892B LUDDENHAM ROAD	437	35	31	0	0
47685	NCA10	RES	438	1 MEDINAH AVENUE	438	35	34	28	0
47697	NCA10	RES	439	1 MEDINAH AVENUE	439	35	31	29	0
47701	NCA10	RES	440	1 MEDINAH AVENUE	440	35	31	28	0
47703	NCA10	RES	441	11 MEDINAH AVENUE	441	35	33	29	0
47727	NCA10	RES	442	11 MEDINAH AVENUE	442	35	31	26	0
47735	NCA10	RES	444	12 MEDINAH AVENUE	444	35	32	27	0
47756	NCA10	RES	445	13 MEDINAH AVENUE	445	35	31	29	0
47770	NCA10	RES	447	14 MEDINAH AVENUE	447	35	34	29	0
47796	NCA10	RES	448	15 MEDINAH AVENUE	448	35	31	0	0
47807	NCA10	RES	450	889 LUDDENHAM ROAD	5966	35	0	0	0
47830	NCA10	RES	450	16 MEDINAH AVENUE	450	35	31	29	0
47843	NCA10	RES	451	17 MEDINAH AVENUE	451	35	31	0	0
47862	NCA10	RES	452	889 LUDDENHAM ROAD	5968	35	30	0	0
47867	NCA10	RES	452	17 MEDINAH AVENUE	452	35	34	0	0
47883	NCA10	RES	453	19 MEDINAH AVENUE	453	35	31	0	0
47898	NCA10	RES	454	1A MEDINAH AVENUE	454	35	34	31	0
47925	NCA10	RES	455	2 MEDINAH AVENUE	455	35	32	31	0
47952	NCA10	RES	456	21 MEDINAH AVENUE	456	35	31	0	0
47965	NCA10	RES	457	23 MEDINAH AVENUE	457	35	31	0	0
47982	NCA10	RES	458	24 MEDINAH AVENUE	458	35	35	0	0
48007	NCA10	RES	459	25 MEDINAH AVENUE	459	35	32	0	0
48021	NCA10	RES	460	25 MEDINAH AVENUE	460	35	31	0	0
48029	NCA10	RES	461	26 MEDINAH AVENUE	461	35	35	0	0
48053	NCA10	RES	462	26 MEDINAH AVENUE	462	35	32	0	0
48075	NCA10	RES	463	27 MEDINAH AVENUE	463	35	32	0	0

Predicted OOHW Night-time construction noise levels

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20 to 30 dB: LB, M, SN, IB, PC, RO, AA
Greater than 30 dB: LB, M, SN, IB, PC, RO, AA

No.	NCA	Usage	Rec	Address	Unique ID	NML	Activity 2 - Leq dB(A)	Activity 4 - Leq dB(A)	Activity 6 - Leq dB(A)
48100	NCA10	RES	464	29 MEDINAH AVENUE	464	35	32	0	0
48126	NCA10	RES	466	3 MEDINAH AVENUE	466	35	33	28	0
48136	NCA10	RES	467	31 MEDINAH AVENUE	467	35	32	0	0
48154	NCA10	RES	468	4 MEDINAH AVENUE	468	35	34	28	0
48167	NCA10	RES	469	4 MEDINAH AVENUE	469	35	34	30	0
48175	NCA10	RES	470	5 MEDINAH AVENUE	470	35	31	28	0
48197	NCA10	RES	471	6 MEDINAH AVENUE	471	35	34	30	0
48214	NCA10	RES	473	7 MEDINAH AVENUE	473	35	33	30	0
48247	NCA10	RES	474	8 MEDINAH AVENUE	474	35	34	28	0
48254	NCA10	RES	475	9 MEDINAH AVENUE	475	35	31	27	0
48270	NCA10	RES	476	9 MEDINAH AVENUE	476	35	34	30	0
48283	NCA10	RES	477	10 PENNARD CRESCENT	477	35	**35**	0	0
48294	NCA10	RES	478	10 PENNARD CRESCENT	478	35	**36**	0	0
48319	NCA10	RES	480	11 PENNARD CRESCENT	480	35	33	26	0
48335	NCA10	RES	481	12 PENNARD CRESCENT	481	35	**37**	0	0
48362	NCA10	RES	482	12 PENNARD CRESCENT	482	35	34	0	0
48374	NCA10	RES	483	14 PENNARD CRESCENT	483	35	**37**	0	0
48395	NCA10	RES	486	15 PENNARD CRESCENT	486	35	32	0	0
48408	NCA10	RES	487	15 PENNARD CRESCENT	487	35	33	0	0
48430	NCA10	RES	488	16 PENNARD CRESCENT	488	35	**38**	0	0
48466	NCA10	RES	490	2 PENNARD CRESCENT	490	35	**36**	27	0
48476	NCA10	RES	491	2 PENNARD CRESCENT	491	35	**35**	27	0
48483	NCA10	RES	492	3 PENNARD CRESCENT	492	35	33	29	0
48495	NCA10	RES	493	3 PENNARD CRESCENT	493	35	32	28	0
48527	NCA10	RES	494	4 PENNARD CRESCENT	494	35	**37**	29	0
48539	NCA10	RES	496	4 PENNARD CRESCENT	496	35	**35**	30	0
48548	NCA10	RES	497	4 PENNARD CRESCENT	497	35	34	28	0
48566	NCA10	RES	498	5 PENNARD CRESCENT	498	35	33	30	0
48581	NCA10	RES	500	6 PENNARD CRESCENT	500	35	34	27	0
48592	NCA10	RES	501	6 PENNARD CRESCENT	501	35	**36**	29	0
48609	NCA10	RES	503	7 PENNARD CRESCENT	503	35	32	27	0
48624	NCA10	RES	504	8 PENNARD CRESCENT	504	35	**36**	26	0

Predicted OOHW Night-time construction noise levels

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20 to 30 dB: LB, M, SN, IB, PC, RO, AA
Greater than 30 dB: LB, M, SN, IB, PC, RO, AA

No.	NCA	Usage	Rec	Address	Unique ID	NML	Activity 2 - Leq dB(A)	Activity 4 - Leq dB(A)	Activity 6 - Leq dB(A)
48654	NCA10	RES	505	9 PENNARD CRESCENT	505	35	32	27	0
48676	NCA10	RES	507	10 PINE VALLEY CRESCENT	507	35	34	27	0
48689	NCA10	RES	509	11 PINE VALLEY CRESCENT	509	35	34	29	0
48710	NCA10	RES	510	11 PINE VALLEY CRESCENT	510	35	**35**	29	0
48722	NCA10	RES	511	12 PINE VALLEY CRESCENT	511	35	34	0	0
48739	NCA10	RES	512	13 PINE VALLEY CRESCENT	512	35	**35**	29	0
48757	NCA10	RES	513	15 PINE VALLEY CRESCENT	513	35	**35**	27	0
48775	NCA10	RES	514	17 PINE VALLEY CRESCENT	514	35	34	0	0
48808	NCA10	RES	516	2 PINE VALLEY CRESCENT	516	35	**35**	30	0
48822	NCA10	RES	517	3 PINE VALLEY CRESCENT	517	35	33	30	0
48827	NCA10	RES	518	3 PINE VALLEY CRESCENT	518	35	34	28	0
48863	NCA10	RES	519	4 PINE VALLEY CRESCENT	519	35	34	30	0
48871	NCA10	RES	520	5 PINE VALLEY CRESCENT	520	35	32	30	0
48898	NCA10	RES	522	6 PINE VALLEY CRESCENT	522	35	32	29	0
48911	NCA10	RES	524	7 PINE VALLEY CRESCENT	524	35	32	30	0
48928	NCA10	RES	525	8 PINE VALLEY CRESCENT	525	35	32	27	0
48942	NCA10	RES	527	9 PINE VALLEY CRESCENT	527	35	**35**	30	0
48950	NCA10	RES	528	1 PORTRUSH CRESCENT	528	35	**37**	31	0
48963	NCA10	RES	530	1 PORTRUSH CRESCENT	530	35	**37**	34	0
48983	NCA10	RES	531	10 PORTRUSH CRESCENT	531	35	**37**	31	0
48994	NCA10	RES	532	10 PORTRUSH CRESCENT	532	35	**35**	30	0
49001	NCA10	RES	533	11 PORTRUSH CRESCENT	533	35	**39**	30	0
49023	NCA10	RES	535	12 PORTRUSH CRESCENT	535	35	**37**	31	0
49035	NCA10	RES	536	12 PORTRUSH CRESCENT	536	35	**37**	19	0
49041	NCA10	RES	537	12 PORTRUSH CRESCENT	537	35	**35**	30	0
49089	NCA10	RES	539	13 PORTRUSH CRESCENT	539	35	**40**	32	0
49106	NCA10	RES	540	14 PORTRUSH CRESCENT	540	35	**35**	29	0
49118	NCA10	RES	543	14 PORTRUSH CRESCENT	543	35	**37**	32	0
49156	NCA10	RES	545	15 PORTRUSH CRESCENT	545	35	**38**	32	0
49168	NCA10	RES	546	16 PORTRUSH CRESCENT	546	35	**38**	26	0
49198	NCA10	RES	547	16 PORTRUSH CRESCENT	547	35	**38**	30	0
49208	NCA10	RES	548	17 PORTRUSH CRESCENT	548	35	**40**	30	0

Predicted OOHW Night-time construction noise levels

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10 to 20 dB: LB, M, SN, RO
20 to 30 dB: LB, M, SN, IB, PC, RO, AA
Greater than 30 dB: LB, M, SN, IB, PC, RO, AA

No.	NCA	Usage	Rec	Address	Unique ID	NML	Activity 2 - Leq dB(A)	Activity 4 - Leq dB(A)	Activity 6 - Leq dB(A)
49244	NCA10	RES	552	17 PORTRUSH CRESCENT	552	35	**38**	30	0
49248	NCA10	RES	553	17 PORTRUSH CRESCENT	553	35	**38**	32	0
49257	NCA10	RES	555	18 PORTRUSH CRESCENT	555	35	**37**	32	0
49283	NCA10	RES	557	19 PORTRUSH CRESCENT	557	35	**40**	33	0
49313	NCA10	RES	559	2 PORTRUSH CRESCENT	559	35	34	32	0
49343	NCA10	RES	561	21 PORTRUSH CRESCENT	561	35	**40**	30	0
49377	NCA10	RES	562	22 PORTRUSH CRESCENT	562	35	**37**	30	0
49406	NCA10	RES	565	23 PORTRUSH CRESCENT	565	35	**39**	31	0
49421	NCA10	RES	567	24 PORTRUSH CRESCENT	567	35	**39**	30	0
49439	NCA10	RES	569	24 PORTRUSH CRESCENT	569	35	**37**	29	0
49452	NCA10	RES	570	26 PORTRUSH CRESCENT	570	35	**40**	32	0
49489	NCA10	RES	572	28 PORTRUSH CRESCENT	572	35	**40**	29	0
49498	NCA10	RES	573	28 PORTRUSH CRESCENT	573	35	**40**	27	0
49507	NCA10	RES	574	30 PORTRUSH CRESCENT	574	35	**38**	29	0
49521	NCA10	RES	575	30 PORTRUSH CRESCENT	575	35	**38**	31	0
49553	NCA10	RES	576	34 PORTRUSH CRESCENT	576	35	**39**	31	0
49567	NCA10	RES	578	34 PORTRUSH CRESCENT	578	35	**39**	29	0
49572	NCA10	RES	579	34 PORTRUSH CRESCENT	579	35	**39**	29	0
49582	NCA10	RES	580	36 PORTRUSH CRESCENT	580	35	**42**	30	0
49601	NCA10	RES	582	36 PORTRUSH CRESCENT	582	35	**39**	27	0
49626	NCA10	RES	583	38 PORTRUSH CRESCENT	583	35	**39**	31	0
49658	NCA10	RES	585	4 PORTRUSH CRESCENT	585	35	**36**	34	0
49677	NCA10	RES	586	40 PORTRUSH CRESCENT	586	35	**41**	29	0
49689	NCA10	RES	587	42 PORTRUSH CRESCENT	587	35	**36**	30	0
49698	NCA10	RES	588	42 PORTRUSH CRESCENT	588	35	**41**	30	0
49705	NCA10	RES	589	44 PORTRUSH CRESCENT	589	35	**39**	30	0
49719	NCA10	RES	590	44 PORTRUSH CRESCENT	590	35	**38**	30	0
49742	NCA10	RES	591	46 PORTRUSH CRESCENT	591	35	**40**	33	0
49756	NCA10	RES	592	46 PORTRUSH CRESCENT	592	35	**38**	30	0
49774	NCA10	RES	593	48 PORTRUSH CRESCENT	593	35	**40**	33	0
49796	NCA10	RES	594	48 PORTRUSH CRESCENT	594	35	**40**	31	0
49800	NCA10	RES	595	48 PORTRUSH CRESCENT	595	35	**38**	30	0

Predicted OOHW Night-time construction noise levels

Residential colour code additional mitigation measures:	0 to 10 dB: LB 10 to 20 dB: LB, M, SN, RO 20 to 30 dB: LB, M, SN, IB, PC, RO, AA Greater than 30 dB: LB, M, SN, IB, PC, RO, AA
Bold = Highly noise affected	

No.	NCA	Usage	Rec	Address	Unique ID	NML	Activity 2 - Leq dB(A)	Activity 4 - Leq dB(A)	Activity 6 - Leq dB(A)
49805	NCA10	RES	596	48 PORTRUSH CRESCENT	596	35	**38**	30	0
49808	NCA10	RES	597	5 PORTRUSH CRESCENT	597	35	**35**	31	0
49815	NCA10	RES	598	5 PORTRUSH CRESCENT	598	35	**35**	31	0
49830	NCA10	RES	599	5 PORTRUSH CRESCENT	599	35	**37**	34	0
49851	NCA10	RES	600	52 PORTRUSH CRESCENT	600	35	**40**	34	0
49862	NCA10	RES	602	52 PORTRUSH CRESCENT	602	35	**40**	27	0
49892	NCA10	RES	603	54 PORTRUSH CRESCENT	603	35	**40**	31	0
49897	NCA10	RES	604	54 PORTRUSH CRESCENT	604	35	**37**	31	0
49904	NCA10	RES	605	56 PORTRUSH CRESCENT	605	35	**38**	33	0
49934	NCA10	RES	606	58 PORTRUSH CRESCENT	606	35	**37**	33	0
49958	NCA10	RES	607	6 PORTRUSH CRESCENT	607	35	**36**	31	0
49970	NCA10	RES	608	6 PORTRUSH CRESCENT	608	35	34	29	0
49974	NCA10	RES	610	6 PORTRUSH CRESCENT	610	35	34	28	0
49987	NCA10	RES	611	60 PORTRUSH CRESCENT	611	35	**39**	34	0
50010	NCA10	RES	613	62 PORTRUSH CRESCENT	613	35	**38**	31	0
50024	NCA10	RES	614	62 PORTRUSH CRESCENT	614	35	**38**	33	0
50035	NCA10	RES	615	64 PORTRUSH CRESCENT	615	35	**37**	31	0
50047	NCA10	RES	616	64 PORTRUSH CRESCENT	616	35	**36**	31	0
50057	NCA10	RES	617	66 PORTRUSH CRESCENT	617	35	**36**	34	0
50087	NCA10	RES	618	68 PORTRUSH CRESCENT	618	35	**36**	30	0
50107	NCA10	RES	620	8 PORTRUSH CRESCENT	620	35	**36**	28	0
50120	NCA10	RES	621	8 PORTRUSH CRESCENT	621	35	34	31	0
50140	NCA10	RES	622	11 TWIN CREEKS DRIVE	622	35	33	30	0
50149	NCA10	RES	623	13 TWIN CREEKS DRIVE	623	35	34	27	0
50155	NCA10	RES	624	13 TWIN CREEKS DRIVE	624	35	**37**	30	0
50182	NCA10	RES	625	13 TWIN CREEKS DRIVE	625	35	34	26	0
50190	NCA10	RES	626	13 TWIN CREEKS DRIVE	626	35	**35**	27	0
50197	NCA10	RES	627	14 TWIN CREEKS DRIVE	627	35	33	31	0
50222	NCA10	RES	628	15 TWIN CREEKS DRIVE	628	35	34	27	0
50235	NCA10	RES	629	15 TWIN CREEKS DRIVE	629	35	34	27	0
50245	NCA10	RES	631	15 TWIN CREEKS DRIVE	631	35	34	27	0
50252	NCA10	RES	632	15 TWIN CREEKS DRIVE	632	35	**35**	27	0

Predicted OOHW Night-time construction noise levels

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Greater than 30 dB: LB, M, SN, IB, PC, RO, AA

No.	NCA	Usage	Rec	Address	Unique ID	NML	Activity 2 - Leq dB(A)	Activity 4 - Leq dB(A)	Activity 6 - Leq dB(A)
50260	NCA10	RES	633	17 TWIN CREEKS DRIVE	633	35	**35**	29	0
50266	NCA10	RES	634	17 TWIN CREEKS DRIVE	634	35	**37**	21	0
50282	NCA10	RES	635	17 TWIN CREEKS DRIVE	635	35	**35**	29	0
50313	NCA10	RES	636	18 TWIN CREEKS DRIVE	636	35	**35**	30	0
50326	NCA10	RES	643	20 TWIN CREEKS DRIVE	643	35	33	28	0
50342	NCA10	RES	644	21 TWIN CREEKS DRIVE	644	35	**35**	26	0
50349	NCA10	RES	645	21 TWIN CREEKS DRIVE	645	35	**35**	26	0
50360	NCA10	RES	646	21 TWIN CREEKS DRIVE	646	35	**37**	0	0
50384	NCA10	RES	648	22 TWIN CREEKS DRIVE	648	35	**36**	30	0
50410	NCA10	RES	652	24 TWIN CREEKS DRIVE	652	35	**37**	30	0
50435	NCA10	RES	653	26 TWIN CREEKS DRIVE	653	35	**38**	30	0
50475	NCA10	RES	654	27 TWIN CREEKS DRIVE	654	35	**40**	0	0
50481	NCA10	RES	655	27 TWIN CREEKS DRIVE	655	35	**39**	0	0
50485	NCA10	RES	656	28 TWIN CREEKS DRIVE	656	35	**37**	27	0
50506	NCA10	RES	657	28 TWIN CREEKS DRIVE	657	35	**37**	27	0
50521	NCA10	RES	658	29 TWIN CREEKS DRIVE	658	35	**39**	0	0
50541	NCA10	RES	660	29 TWIN CREEKS DRIVE	660	35	**39**	0	0
50551	NCA10	RES	661	30 TWIN CREEKS DRIVE	661	35	**35**	30	0
50582	NCA10	RES	663	31 TWIN CREEKS DRIVE	663	35	**38**	0	0
50591	NCA10	RES	664	31 TWIN CREEKS DRIVE	664	35	**38**	0	0
50597	NCA10	RES	666	32 TWIN CREEKS DRIVE	666	35	**38**	29	0
50622	NCA10	RES	668	33 TWIN CREEKS DRIVE	668	35	**42**	0	0
50637	NCA10	RES	669	33 TWIN CREEKS DRIVE	669	35	**38**	0	0
50641	NCA10	RES	671	34 TWIN CREEKS DRIVE	671	35	**36**	29	0
50666	NCA10	RES	672	34 TWIN CREEKS DRIVE	672	35	**38**	29	0
50699	NCA10	RES	673	35 TWIN CREEKS DRIVE	673	35	**40**	0	0
50718	NCA10	RES	674	36 TWIN CREEKS DRIVE	674	35	**36**	29	0
50732	NCA10	RES	675	36 TWIN CREEKS DRIVE	675	35	**36**	29	0
50743	NCA10	RES	676	36 TWIN CREEKS DRIVE	676	35	**36**	26	0
50751	NCA10	RES	677	37 TWIN CREEKS DRIVE	677	35	**38**	0	0
50764	NCA10	RES	679	37 TWIN CREEKS DRIVE	679	35	**41**	0	0
50784	NCA10	RES	682	38 TWIN CREEKS DRIVE	682	35	**39**	29	0

Predicted OOHW Night-time construction noise levels

Residential colour code additional mitigation measures:
Bold = Highly noise affected

0 to 10 dB: LB
10 to 20 dB: LB, M, SN, RO
20 to 30 dB: LB, M, SN, IB, PC, RO, AA
Greater than 30 dB: LB, M, SN, IB, PC, RO, AA

No.	NCA	Usage	Rec	Address	Unique ID	NML	Activity 2 - Leq dB(A)	Activity 4 - Leq dB(A)	Activity 6 - Leq dB(A)
50808	NCA10	RES	683	39 TWIN CREEKS DRIVE	683	35	**38**	0	0
50829	NCA10	RES	684	40 TWIN CREEKS DRIVE	684	35	**40**	27	0
50847	NCA10	RES	686	41 TWIN CREEKS DRIVE	686	35	**38**	0	0
50857	NCA10	RES	687	41 TWIN CREEKS DRIVE	687	35	**38**	0	0
50868	NCA10	RES	688	42 TWIN CREEKS DRIVE	688	35	**40**	27	0
50890	NCA10	RES	690	43 TWIN CREEKS DRIVE	690	35	**40**	0	0
50892	NCA10	RES	691	43 TWIN CREEKS DRIVE	691	35	**38**	0	0
50902	NCA10	RES	692	43 TWIN CREEKS DRIVE	692	35	**40**	0	0
50912	NCA10	RES	693	44 TWIN CREEKS DRIVE	693	35	**38**	29	0
50920	NCA10	RES	694	44 TWIN CREEKS DRIVE	694	35	**39**	27	0
50958	NCA10	RES	696	45 TWIN CREEKS DRIVE	696	35	**42**	0	0
50984	NCA10	RES	698	47 TWIN CREEKS DRIVE	698	35	**40**	0	0
51002	NCA10	RES	699	47 TWIN CREEKS DRIVE	699	35	**37**	0	0
51021	NCA10	RES	700	48 TWIN CREEKS DRIVE	700	35	**41**	0	0
51031	NCA10	RES	702	49 TWIN CREEKS DRIVE	702	35	**37**	0	0
51037	NCA10	RES	703	49 TWIN CREEKS DRIVE	703	35	**40**	0	0
51061	NCA10	RES	704	5 TWIN CREEKS DRIVE	704	35	32	28	0
51086	NCA10	RES	705	50 TWIN CREEKS DRIVE	705	35	**43**	0	0
51097	NCA10	RES	708	51 TWIN CREEKS DRIVE	708	35	**40**	0	0
51126	NCA10	RES	709	52 TWIN CREEKS DRIVE	709	35	**42**	0	0
51153	NCA10	RES	710	52 TWIN CREEKS DRIVE	710	35	**42**	0	0
51166	NCA10	RES	711	53 TWIN CREEKS DRIVE	711	35	**37**	0	0
51177	NCA10	RES	712	53 TWIN CREEKS DRIVE	712	35	**39**	0	0
51202	NCA10	RES	715	54 TWIN CREEKS DRIVE	715	35	**41**	0	0
51205	NCA10	RES	716	54 TWIN CREEKS DRIVE	716	35	**39**	0	0
51227	NCA10	RES	717	55 TWIN CREEKS DRIVE	717	35	**37**	0	0
51241	NCA10	RES	718	55 TWIN CREEKS DRIVE	718	35	**37**	0	0
51244	NCA10	RES	719	55 TWIN CREEKS DRIVE	719	35	**37**	0	0
51251	NCA10	RES	721	58 TWIN CREEKS DRIVE	721	35	**41**	0	0
51286	NCA10	RES	722	62 TWIN CREEKS DRIVE	722	35	**41**	0	0
51306	NCA10	RES	723	62 TWIN CREEKS DRIVE	723	35	**41**	0	0
51318	NCA10	RES	725	62 TWIN CREEKS DRIVE	725	35	**41**	0	0

Predicted OOHW Night-time construction noise levels

Residential colour code additional mitigation measures:	0 to 10 dB: LB
	10 to 20 dB: LB, M, SN, RO
	20 to 30 dB: LB, M, SN, IB, PC, RO, AA
Bold = Highly noise affected	Greater than 30 dB: LB, M, SN, IB, PC, RO, AA

No.	NCA	Usage	Rec	Address	Unique ID	NML	Activity 2 - Leq dB(A)	Activity 4 - Leq dB(A)	Activity 6 - Leq dB(A)
51331	NCA10	RES	727	62 TWIN CREEKS DRIVE	727	35	41	0	0
51358	NCA10	RES	728	64 TWIN CREEKS DRIVE	728	35	39	0	0
51370	NCA10	RES	730	64 TWIN CREEKS DRIVE	730	35	43	0	0
51382	NCA10	RES	731	7 TWIN CREEKS DRIVE	731	35	32	28	0
51396	NCA10	RES	732	9 TWIN CREEKS DRIVE	732	35	32	29	0
51431	NCA10	RES	736	1 VENTANA COURT	736	35	41	0	0
51447	NCA10	RES	737	2 VENTANA COURT	737	35	40	0	0
51460	NCA10	RES	738	2 VENTANA COURT	738	35	39	0	0
51483	NCA10	RES	740	3 VENTANA COURT	740	35	42	0	0
51490	NCA10	RES	741	4 VENTANA COURT	741	35	40	0	0
51498	NCA10	RES	742	4 VENTANA COURT	742	35	42	29	0
51528	NCA10	RES	743	5 VENTANA COURT	743	35	42	26	0
51539	NCA10	RES	744	6 VENTANA COURT	744	35	42	28	0
51548	NCA10	RES	745	6 VENTANA COURT	745	35	40	0	0
51578	NCA10	RES	746	7 VENTANA COURT	746	35	38	0	0
51589	NCA10	RES	748	7 VENTANA COURT	748	35	40	26	0
51604	NCA10	RES	749	1 WOODHALL PLACE	749	35	38	0	0
51619	NCA10	RES	751	11 WOODHALL PLACE	751	35	38	0	0
51625	NCA10	RES	752	11 WOODHALL PLACE	752	35	37	0	0
51650	NCA10	RES	753	13 WOODHALL PLACE	753	35	38	0	0
51672	NCA10	RES	754	15 WOODHALL PLACE	754	35	36	0	0
51681	NCA10	RES	755	15 WOODHALL PLACE	755	35	38	0	0
51700	NCA10	RES	756	17 WOODHALL PLACE	756	35	38	0	0
51741	NCA10	RES	757	19 WOODHALL PLACE	757	35	39	0	0
51769	NCA10	RES	759	2 WOODHALL PLACE	759	35	35	0	0
51786	NCA10	RES	760	2 WOODHALL PLACE	760	35	38	0	0
51797	NCA10	RES	761	3 WOODHALL PLACE	761	35	38	0	0
51819	NCA10	RES	763	4 WOODHALL PLACE	763	35	38	0	0
51861	NCA10	RES	765	5 WOODHALL PLACE	765	35	38	0	0
51868	NCA10	RES	766	6 WOODHALL PLACE	766	35	35	0	0
51876	NCA10	RES	767	6 WOODHALL PLACE	767	35	35	0	0
51891	NCA10	RES	768	7 WOODHALL PLACE	768	35	38	0	0

Predicted OOHW Night-time construction noise levels

Residential colour code additional mitigation measures:
Bold = Highly noise affected

0 to 10 dB: LB
10 to 20 dB: LB, M, SN, RO
20 to 30 dB: LB, M, SN, IB, PC, RO, AA
Greater than 30 dB: LB, M, SN, IB, PC, RO, AA

No.	NCA	Usage	Rec	Address	Unique ID	NML	Activity 2 - Leq dB(A)	Activity 4 - Leq dB(A)	Activity 6 - Leq dB(A)
51912	NCA10	RES	769	7 WOODHALL PLACE	769	35	**38**	0	0
51918	NCA10	RES	770	9 WOODHALL PLACE	770	35	**38**	0	0
51925	NCA10	RES	771	9 WOODHALL PLACE	771	35	**38**	0	0
51941	NCA10	RES	772	9 WOODHALL PLACE	772	35	**36**	0	0
53553	NCA11	RES	1	1930 ELIZABETH DRIVE	5517	35	**36**	0	**38**
53564	NCA11	RES	6	1930 ELIZABETH DRIVE	5522	35	34	0	**35**
53571	NCA11	RES	17	1970 ELIZABETH DRIVE	5533	35	**39**	0	**41**
53582	NCA11	RES	31	1990 ELIZABETH DRIVE	5547	35	**37**	0	**40**
53589	NCA11	RES	36	115 LAWSON ROAD	5552	35	**37**	0	**36**
53594	NCA11	RES	37	125 LAWSON ROAD	5553	35	**36**	0	**36**
53598	NCA11	RES	40	135 LAWSON ROAD	5556	35	**36**	0	**35**
53603	NCA11	RES	45	145 LAWSON ROAD	5561	35	**35**	0	**35**
53610	NCA11	RES	54	150 LAWSON ROAD	5570	35	33	0	32
53632	NCA11	RES	56	155 LAWSON ROAD	5572	35	**39**	0	**37**
53642	NCA11	RES	60	160 LAWSON ROAD	5576	35	33	0	32
53652	NCA11	RES	63	165 LAWSON ROAD	5579	35	**37**	0	**36**
53659	NCA11	RES	66	180 LAWSON ROAD	5582	35	34	0	33
53678	NCA11	RES	69	180 LAWSON ROAD	5585	35	32	0	31
53688	NCA11	RES	72	185 LAWSON ROAD	5588	35	34	0	33
53694	NCA11	RES	73	190 LAWSON ROAD	5589	35	32	0	31
53705	NCA11	RES	79	195 LAWSON ROAD	5595	35	34	0	33
53710	NCA11	RES	82	200 LAWSON ROAD	5598	35	34	0	30
53717	NCA11	RES	83	200 LAWSON ROAD	5599	35	34	0	32
53723	NCA11	RES	92	205 LAWSON ROAD	5608	35	33	0	32
53734	NCA11	RES	96	210 LAWSON ROAD	5612	35	31	0	30
53740	NCA11	RES	98	210 LAWSON ROAD	5614	35	32	0	30
53748	NCA11	RES	109	225 LAWSON ROAD	5625	35	34	0	33
53754	NCA11	RES	116	235 LAWSON ROAD	5632	35	**35**	0	33
53768	NCA11	RES	118	245 LAWSON ROAD	5634	35	33	0	31
53779	NCA11	RES	121	245 LAWSON ROAD	5637	35	34	0	32
53789	NCA11	RES	124	245 LAWSON ROAD	5640	35	31	0	30
53791	NCA11	RES	126	245 LAWSON ROAD	5642	35	32	0	30

Predicted OOHW Night-time construction noise levels

Residential colour code additional mitigation measures:
Bold = Highly noise affected

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10 to 20 dB: LB, M, SN, RO
20 to 30 dB: LB, M, SN, IB, PC, RO, AA
Greater than 30 dB: LB, M, SN, IB, PC, RO, AA

No.	NCA	Usage	Rec	Address	Unique ID	NML	Activity 2 - Leq dB(A)	Activity 4 - Leq dB(A)	Activity 6 - Leq dB(A)
53796	NCA11	RES	131	255 LAWSON ROAD	5647	35	31	0	29
53811	NCA11	RES	136	35 LAWSON ROAD	5652	35	**38**	0	**40**
53818	NCA11	RES	153	55 LAWSON ROAD	5669	35	**38**	0	**40**
53835	NCA11	RES	160	65 LAWSON ROAD	5676	35	**39**	0	**41**
53842	NCA11	RES	162	75 LAWSON ROAD	5678	35	**40**	0	**41**
53853	NCA11	RES	171	83-87 LAWSON ROAD	5687	35	**38**	0	**38**
53867	NCA11	RES	173	83-87 LAWSON ROAD	5689	35	**37**	0	**38**
53874	NCA11	RES	182	10 MARTIN ROAD	5698	35	**35**	0	**37**
53887	NCA11	RES	189	100 MARTIN ROAD	5705	35	34	0	34
53894	NCA11	RES	191	110 MARTIN ROAD	5707	35	34	0	34
53909	NCA11	RES	192	120 MARTIN ROAD	5708	35	**36**	0	**36**
53918	NCA11	RES	201	150 MARTIN ROAD	5717	35	32	0	32
53925	NCA11	RES	211	160 MARTIN ROAD	5727	35	34	0	31
53941	NCA11	RES	212	160 MARTIN ROAD	5728	35	32	0	31
53950	NCA11	RES	213	160 MARTIN ROAD	5729	35	31	0	31
53956	NCA11	RES	216	165 MARTIN ROAD	5732	35	32	0	31
53964	NCA11	RES	217	165 MARTIN ROAD	5733	35	33	0	33
53970	NCA11	RES	218	165 MARTIN ROAD	5734	35	31	0	29
53977	NCA11	RES	219	165 MARTIN ROAD	5735	35	34	0	33
53982	NCA11	RES	220	170 MARTIN ROAD	5736	35	31	0	28
53990	NCA11	RES	222	170 MARTIN ROAD	5738	35	34	0	33
53996	NCA11	RES	224	195 MARTIN ROAD	5740	35	22	0	29
54004	NCA11	RES	225	195 MARTIN ROAD	5741	35	22	0	29
54009	NCA11	RES	226	195 MARTIN ROAD	5742	35	28	0	29
54015	NCA11	RES	228	195 MARTIN ROAD	5744	35	22	0	29
54020	NCA11	RES	233	211 MARTIN ROAD	5749	35	22	0	0
54031	NCA11	RES	235	211 MARTIN ROAD	5751	35	28	0	0
54039	NCA11	RES	238	225 MARTIN ROAD	5754	35	0	0	0
54051	NCA11	RES	242	225 MARTIN ROAD	5758	35	0	0	0
54057	NCA11	RES	246	230 MARTIN ROAD	5762	35	21	0	0
54066	NCA11	RES	249	30 MARTIN ROAD	5765	35	**35**	0	**36**
54078	NCA11	RES	252	40 MARTIN ROAD	5768	35	**37**	0	**38**

Predicted OOHW Night-time construction noise levels

Residential colour code additional mitigation measures:
Bold = Highly noise affected

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10 to 20 dB: LB, M, SN, RO
20 to 30 dB: LB, M, SN, IB, PC, RO, AA
Greater than 30 dB: LB, M, SN, IB, PC, RO, AA

No.	NCA	Usage	Rec	Address	Unique ID	NML	Activity 2 - Leq dB(A)	Activity 4 - Leq dB(A)	Activity 6 - Leq dB(A)
54092	NCA11	RES	255	50 MARTIN ROAD	5771	35	**36**	0	**37**
54102	NCA11	RES	256	50 MARTIN ROAD	5772	35	**35**	0	**36**
54111	NCA11	RES	258	50 MARTIN ROAD	5774	35	33	0	34
54120	NCA11	RES	259	55 MARTIN ROAD	5775	35	**38**	0	**39**
54130	NCA11	RES	262	60 MARTIN ROAD	5778	35	34	0	**35**
54138	NCA11	RES	265	65 MARTIN ROAD	5781	35	**35**	0	**36**
54143	NCA11	RES	267	65 MARTIN ROAD	5783	35	**36**	0	**37**
54163	NCA11	RES	269	70 MARTIN ROAD	5785	35	**35**	0	**35**
54178	NCA11	RES	275	75 MARTIN ROAD	5791	35	**35**	0	**35**
54189	NCA11	RES	279	80 MARTIN ROAD	5795	35	33	0	34
54196	NCA11	RES	287	85 MARTIN ROAD	5803	35	33	0	33
54202	NCA11	RES	292	90 MARTIN ROAD	5808	35	34	0	34
54207	NCA11	RES	294	90 MARTIN ROAD	5810	35	34	0	**35**
54218	NCA11	RES	298	105-115 ADAMS ROAD	5814	35	0	0	0
54224	NCA11	RES	299	105-115 ADAMS ROAD	5815	35	0	0	0
54228	NCA11	RES	300	125 ADAMS ROAD	5816	35	0	0	0
54241	NCA11	RES	301	125 ADAMS ROAD	5817	35	0	0	0
54248	NCA11	RES	303	125 ADAMS ROAD	5819	35	0	0	0
54264	NCA11	RES	305	125 ADAMS ROAD	5821	35	0	0	0
54272	NCA11	RES	306	125 ADAMS ROAD	5822	35	0	0	0
54278	NCA11	RES	309	125 ADAMS ROAD	5825	35	0	0	0
54283	NCA11	RES	312	145 ADAMS ROAD	5828	35	0	0	0
54293	NCA11	RES	313	145 ADAMS ROAD	5829	35	0	0	0
54303	NCA11	RES	314	145 ADAMS ROAD	5830	35	0	0	0
54319	NCA11	RES	317	161 ADAMS ROAD	5833	35	0	0	0
54326	NCA11	RES	319	161 ADAMS ROAD	5835	35	0	0	0
54334	NCA11	RES	320	161 ADAMS ROAD	5836	35	0	0	0
54342	NCA11	RES	321	180 ADAMS ROAD	5837	35	0	0	0
54346	NCA11	RES	324	185 ADAMS ROAD	5840	35	0	0	0
54358	NCA11	RES	331	225 ADAMS ROAD	5847	35	0	0	0
54375	NCA11	RES	332	230 ADAMS ROAD	5848	35	0	0	0
54379	NCA11	RES	334	275 ADAMS ROAD	5850	35	0	0	0

Predicted OOHW Night-time construction noise levels

Residential colour code additional mitigation measures:	0 to 10 dB: LB
	10 to 20 dB: LB, M, SN, RO
	20 to 30 dB: LB, M, SN, IB, PC, RO, AA
Bold = Highly noise affected	Greater than 30 dB: LB, M, SN, IB, PC, RO, AA

No.	NCA	Usage	Rec	Address	Unique ID	NML	Activity 2 - Leq dB(A)	Activity 4 - Leq dB(A)	Activity 6 - Leq dB(A)
54389	NCA11	RES	337	5 ANTON ROAD	5853	35	0	0	0
54409	NCA11	RES	366	2470 ELIZABETH DRIVE	5882	35	30	0	0
54412	NCA11	RES	369	2470 ELIZABETH DRIVE	5885	35	31	0	0
54416	NCA11	RES	839		6355	35	21	0	0
54430	NCA11	RES	840		6356	35	29	0	0
54440	NCA11	RES	845		6361	35	21	0	0
54448	NCA11	RES	855		6371	35	21	0	0

Appendix D – Sleep disturbance

Predicted maximum night-time construction noise levels							Residential colour code for sleep disturbance screening level:	Greater than NML	
No.	NCA	Usage	Rec	Address	Unique ID	NML	Activity 2 - Lmax dB(A)	Activity 4 - Lmax dB(A)	Activity 6 - Lmax dB(A)
46342	NCA10	RES	204	24 HALMSTAD BOULEVARD	204	45	57	0	36
47064	NCA10	RES	302	611-639 LUDDENHAM ROAD	302	45	55	0	0
46413	NCA10	RES	208	26 HALMSTAD BOULEVARD	208	45	55	0	36
46394	NCA10	RES	207	26 HALMSTAD BOULEVARD	207	45	55	0	36
47111	NCA10	RES	314	654-658 LUDDENHAM ROAD	314	45	54	0	0
47104	NCA10	RES	311	644-652 LUDDENHAM ROAD	311	45	54	0	0
45086	NCA10	RES	108	2 COMARGO LANE	108	45	53	35	0
45102	NCA10	RES	109	2 COMARGO LANE	109	45	53	38	0
45074	NCA10	RES	107	10 COMARGO LANE	107	45	53	39	0
44954	NCA10	RES	82	1953-2109 ELIZABETH DRIVE	82	45	53	0	38
45036	NCA10	RES	106	4 BRIDPORT PLACE	106	45	52	0	39
46356	NCA10	RES	205	25 HALMSTAD BOULEVARD	205	45	52	0	36
44943	NCA10	RES	52	1783-1789 ELIZABETH DRIVE	52	45	52	0	54
46448	NCA10	RES	212	28 HALMSTAD BOULEVARD	212	45	52	0	35
45212	NCA10	RES	116	4 CRYSTAL DOWNS CLOSE	116	45	51	34	0
44971	NCA10	RES	88	1953-2109 ELIZABETH DRIVE	88	45	51	0	46
45296	NCA10	RES	125	11 DORAL GROVE	125	45	51	33	0
46470	NCA10	RES	214	39 HALMSTAD BOULEVARD	214	45	51	0	39
45164	NCA10	RES	114	2 CRYSTAL DOWNS CLOSE	114	45	51	31	0
45241	NCA10	RES	119	6 CRYSTAL DOWNS CLOSE	119	45	51	34	0
44977	NCA10	RES	97	707A MAMRE ROAD	97	45	51	0	0
47076	NCA10	RES	304	611A LUDDENHAM ROAD	304	45	51	0	0
46420	NCA10	RES	209	27 HALMSTAD BOULEVARD	209	45	51	0	36
47137	NCA10	RES	324	672-686 LUDDENHAM ROAD	324	45	50	0	0
46432	NCA10	RES	211	28 HALMSTAD BOULEVARD	211	45	50	0	39
45221	NCA10	RES	118	5 CRYSTAL DOWNS CLOSE	118	45	50	34	0
46457	NCA10	RES	213	3 HALMSTAD BOULEVARD	213	45	50	0	0
45159	NCA10	RES	113	8 COMARGO LANE	113	45	50	39	0

Predicted maximum night-time construction noise levels							Residential colour code for sleep disturbance screening level:	Greater than NML	
No.	NCA	Usage	Rec	Address	Unique ID	NML	Activity 2 - Lmax dB(A)	Activity 4 - Lmax dB(A)	Activity 6 - Lmax dB(A)
45773	NCA10	RES	163	7 FARMINGDALE COURT	163	45	50	0	38
45181	NCA10	RES	115	3 CRYSTAL DOWNS CLOSE	115	45	50	33	0
45851	NCA10	RES	169	10 GANTON WAY	169	45	50	0	37
45748	NCA10	RES	162	6 FARMINGDALE COURT	162	45	50	0	39
47175	NCA10	RES	334	688-708 LUDDENHAM ROAD	334	45	50	0	0
45807	NCA10	RES	166	8 FARMINGDALE COURT	166	45	50	0	40
44992	NCA10	RES	99	707A MAMRE ROAD	99	45	50	0	0
46031	NCA10	RES	178	6 GANTON WAY	178	45	49	0	0
47112	NCA10	RES	319	660-670 LUDDENHAM ROAD	319	45	49	0	0
45969	NCA10	RES	174	2 GANTON WAY	174	45	49	0	0
45022	NCA10	RES	104	3 BRIDPORT PLACE	104	45	49	0	37
45648	NCA10	RES	157	2 FARMINGDALE COURT	157	45	49	0	39
46517	NCA10	RES	216	4 HALMSTAD BOULEVARD	216	45	49	0	0
45632	NCA10	RES	156	18 FARMINGDALE COURT	156	45	49	0	41
47117	NCA10	RES	321	672-686 LUDDENHAM ROAD	321	45	49	0	0
47167	NCA10	RES	329	677-691 LUDDENHAM ROAD	329	45	49	0	0
45124	NCA10	RES	111	4 COMARGO LANE	111	45	49	36	0
45619	NCA10	RES	154	17 FARMINGDALE COURT	154	45	49	0	41
45032	NCA10	RES	105	4 BRIDPORT PLACE	105	45	49	0	37
45269	NCA10	RES	120	7 CRYSTAL DOWNS CLOSE	120	45	49	34	0
45140	NCA10	RES	112	6 COMARGO LANE	112	45	48	36	0
45746	NCA10	RES	161	6 FARMINGDALE COURT	161	45	48	0	40
45825	NCA10	RES	167	9 FARMINGDALE COURT	167	45	48	0	40
45939	NCA10	RES	172	18 GANTON WAY	172	45	48	0	38
46191	NCA10	RES	192	15 HALMSTAD BOULEVARD	192	45	48	0	0
46205	NCA10	RES	193	15 HALMSTAD BOULEVARD	193	45	48	0	0
45473	NCA10	RES	146	10 FARMINGDALE COURT	146	45	48	0	38
47201	NCA10	RES	336	688-708 LUDDENHAM ROAD	336	45	48	0	0

Predicted maximum night-time construction noise levels							Residential colour code for sleep disturbance screening level:	Greater than NML	
No.	NCA	Usage	Rec	Address	Unique ID	NML	Activity 2 - Lmax dB(A)	Activity 4 - Lmax dB(A)	Activity 6 - Lmax dB(A)
46137	NCA10	RES	188	13 HALMSTAD BOULEVARD	188	45	48	0	0
46238	NCA10	RES	195	19 HALMSTAD BOULEVARD	195	45	48	0	37
46143	NCA10	RES	189	13 HALMSTAD BOULEVARD	189	45	48	0	0
46493	NCA10	RES	215	4 HALMSTAD BOULEVARD	215	45	48	0	0
45699	NCA10	RES	160	5 FARMINGDALE COURT	160	45	47	0	40
46126	NCA10	RES	187	12 HALMSTAD BOULEVARD	187	45	47	0	0
46168	NCA10	RES	190	14 HALMSTAD BOULEVARD	190	45	47	0	37
46692	NCA10	RES	231	14 HUMEWOOD PLACE	231	45	47	0	37
46832	NCA10	RES	241	24 HUMEWOOD PLACE	241	45	47	0	36
45277	NCA10	RES	121	8 CRYSTAL DOWNS CLOSE	121	45	47	31	0
45395	NCA10	RES	131	7 DORAL GROVE	131	45	47	33	0
46053	NCA10	RES	180	10 HALMSTAD BOULEVARD	180	45	47	0	0
46330	NCA10	RES	203	24 HALMSTAD BOULEVARD	203	45	47	0	37
46853	NCA10	RES	243	3 HUMEWOOD PLACE	243	45	47	0	0
45670	NCA10	RES	159	22 FARMINGDALE COURT	159	45	47	0	41
45903	NCA10	RES	171	16 GANTON WAY	171	45	47	0	38
46220	NCA10	RES	194	17 HALMSTAD BOULEVARD	194	45	47	0	35
46016	NCA10	RES	177	6 GANTON WAY	177	45	47	0	0
46896	NCA10	RES	247	5 HUMEWOOD PLACE	247	45	47	0	0
46040	NCA10	RES	179	8 GANTON WAY	179	45	47	0	37
46261	NCA10	RES	198	20 HALMSTAD BOULEVARD	198	45	47	0	36
46289	NCA10	RES	200	22 HALMSTAD BOULEVARD	200	45	47	0	36
46720	NCA10	RES	232	15 HUMEWOOD PLACE	232	45	47	0	38
45373	NCA10	RES	129	6 DORAL GROVE	129	45	47	33	0
46545	NCA10	RES	218	5 HALMSTAD BOULEVARD	218	45	47	0	0
46880	NCA10	RES	244	4 HUMEWOOD PLACE	244	45	47	0	0
45289	NCA10	RES	122	10 DORAL GROVE	122	45	46	33	0
45315	NCA10	RES	126	3 DORAL GROVE	126	45	46	33	0

Predicted maximum night-time construction noise levels							Residential colour code for sleep disturbance screening level:	Greater than NML	
No.	NCA	Usage	Rec	Address	Unique ID	NML	Activity 2 - Lmax dB(A)	Activity 4 - Lmax dB(A)	Activity 6 - Lmax dB(A)
45356	NCA10	RES	128	5 DORAL GROVE	128	45	46	33	0
45622	NCA10	RES	155	18 FARMINGDALE COURT	155	45	46	0	41
45994	NCA10	RES	176	4 GANTON WAY	176	45	46	0	0
46617	NCA10	RES	224	10 HUMEWOOD PLACE	224	45	46	0	0
45883	NCA10	RES	170	12 GANTON WAY	170	45	46	0	39
46665	NCA10	RES	229	11 HUMEWOOD PLACE	229	45	46	0	35
46885	NCA10	RES	246	5 HUMEWOOD PLACE	246	45	46	0	0
47195	NCA10	RES	335	688-708 LUDDENHAM ROAD	335	45	46	0	0
45575	NCA10	RES	152	16 FARMINGDALE COURT	152	45	46	0	41
46572	NCA10	RES	220	8 HALMSTAD BOULEVARD	220	45	46	0	0
46738	NCA10	RES	233	2 HUMEWOOD PLACE	233	45	46	0	0
46787	NCA10	RES	237	22 HUMEWOOD PLACE	237	45	46	0	36
45488	NCA10	RES	148	11 FARMINGDALE COURT	148	45	46	0	40
45541	NCA10	RES	150	14 FARMINGDALE COURT	150	45	46	0	41
46274	NCA10	RES	199	20 HALMSTAD BOULEVARD	199	45	46	0	38
46795	NCA10	RES	239	22 HUMEWOOD PLACE	239	45	46	0	37
45610	NCA10	RES	153	17 FARMINGDALE COURT	153	45	46	0	41
46304	NCA10	RES	201	23 HALMSTAD BOULEVARD	201	45	46	0	38
46581	NCA10	RES	221	8 HALMSTAD BOULEVARD	221	45	46	0	0
46673	NCA10	RES	230	12 HUMEWOOD PLACE	230	45	46	0	37
46744	NCA10	RES	234	2 HUMEWOOD PLACE	234	45	46	0	0
46759	NCA10	RES	235	2 HUMEWOOD PLACE	235	45	46	0	0
51086	NCA10	RES	705	50 TWIN CREEKS DRIVE	705	45	46	0	0
51370	NCA10	RES	730	64 TWIN CREEKS DRIVE	730	45	46	0	0
45338	NCA10	RES	127	4 DORAL GROVE	127	45	46	30	0
45507	NCA10	RES	149	12 FARMINGDALE COURT	149	45	46	0	38
46588	NCA10	RES	222	8 HALMSTAD BOULEVARD	222	45	46	0	0
46966	NCA10	RES	254	9 HUMEWOOD PLACE	254	45	46	0	37

Predicted maximum night-time construction noise levels							Residential colour code for sleep disturbance screening level:	Greater than NML	
No.	NCA	Usage	Rec	Address	Unique ID	NML	Activity 2 - Lmax dB(A)	Activity 4 - Lmax dB(A)	Activity 6 - Lmax dB(A)
51483	NCA10	RES	740	3 VENTANA COURT	740	45	46	0	0
45435	NCA10	RES	133	9 DORAL GROVE	133	45	46	34	0
45565	NCA10	RES	151	14 FARMINGDALE COURT	151	45	46	0	40
45408	NCA10	RES	132	8 DORAL GROVE	132	45	46	31	0
46252	NCA10	RES	196	19 HALMSTAD BOULEVARD	196	45	46	0	35
46777	NCA10	RES	236	2 HUMEWOOD PLACE	236	45	46	0	0
46840	NCA10	RES	242	3 HUMEWOOD PLACE	242	45	46	0	0
46088	NCA10	RES	184	11 HALMSTAD BOULEVARD	184	45	46	0	0
46381	NCA10	RES	206	25 HALMSTAD BOULEVARD	206	45	46	0	38
51539	NCA10	RES	744	6 VENTANA COURT	744	45	46	31	0
45442	NCA10	RES	137	2111-2141 ELIZABETH DRIVE	137	45	45	0	0
45789	NCA10	RES	165	7 FARMINGDALE COURT	165	45	45	0	37
46806	NCA10	RES	240	24 HUMEWOOD PLACE	240	45	45	0	39
44953	NCA10	RES	81	1953-2109 ELIZABETH DRIVE	81	45	45	0	37
46255	NCA10	RES	197	20 HALMSTAD BOULEVARD	197	45	45	0	38
46931	NCA10	RES	250	6 HUMEWOOD PLACE	250	45	45	0	0
51126	NCA10	RES	709	52 TWIN CREEKS DRIVE	709	45	45	0	0
47313	NCA10	RES	355	734 LUDDENHAM ROAD	355	45	45	0	0
51498	NCA10	RES	742	4 VENTANA COURT	742	45	45	32	0
46077	NCA10	RES	182	10 HALMSTAD BOULEVARD	182	45	45	0	0
46179	NCA10	RES	191	14 HALMSTAD BOULEVARD	191	45	45	0	35
46649	NCA10	RES	228	11 HUMEWOOD PLACE	228	45	45	0	35
50622	NCA10	RES	668	33 TWIN CREEKS DRIVE	668	45	45	0	0
46066	NCA10	RES	181	10 HALMSTAD BOULEVARD	181	45	45	0	0
46106	NCA10	RES	185	11 HALMSTAD BOULEVARD	185	45	45	0	0
46110	NCA10	RES	186	12 HALMSTAD BOULEVARD	186	45	45	0	0
46556	NCA10	RES	219	7 HALMSTAD BOULEVARD	219	45	45	0	0
46597	NCA10	RES	223	1 HUMEWOOD PLACE	223	45	45	0	0

Predicted maximum night-time construction noise levels							Residential colour code for sleep disturbance screening level:	Greater than NML	
No.	NCA	Usage	Rec	Address	Unique ID	NML	Activity 2 - Lmax dB(A)	Activity 4 - Lmax dB(A)	Activity 6 - Lmax dB(A)
46624	NCA10	RES	225	10 HUMEWOOD PLACE	225	45	45	0	34
50958	NCA10	RES	696	45 TWIN CREEKS DRIVE	696	45	45	0	0
51528	NCA10	RES	743	5 VENTANA COURT	743	45	45	30	0
49582	NCA10	RES	580	36 PORTRUSH CRESCENT	580	45	45	33	0
51153	NCA10	RES	710	52 TWIN CREEKS DRIVE	710	45	45	0	0
51306	NCA10	RES	723	62 TWIN CREEKS DRIVE	723	45	45	0	0
46909	NCA10	RES	249	5 HUMEWOOD PLACE	249	45	45	0	0
51318	NCA10	RES	725	62 TWIN CREEKS DRIVE	725	45	45	0	0
46954	NCA10	RES	253	7 HUMEWOOD PLACE	253	45	45	0	34
49677	NCA10	RES	586	40 PORTRUSH CRESCENT	586	45	45	32	0
51021	NCA10	RES	700	48 TWIN CREEKS DRIVE	700	45	45	0	0
51202	NCA10	RES	715	54 TWIN CREEKS DRIVE	715	45	45	0	0
51251	NCA10	RES	721	58 TWIN CREEKS DRIVE	721	45	45	0	0
49698	NCA10	RES	588	42 PORTRUSH CRESCENT	588	45	45	34	0
51286	NCA10	RES	722	62 TWIN CREEKS DRIVE	722	45	44	0	0
51431	NCA10	RES	736	1 VENTANA COURT	736	45	44	0	0
47100	NCA10	RES	308	641-675 LUDDENHAM ROAD	308	45	44	0	0
51331	NCA10	RES	727	62 TWIN CREEKS DRIVE	727	45	44	0	0
50764	NCA10	RES	679	37 TWIN CREEKS DRIVE	679	45	44	0	0
49208	NCA10	RES	548	17 PORTRUSH CRESCENT	548	45	44	33	0
49796	NCA10	RES	594	48 PORTRUSH CRESCENT	594	45	44	34	0
50699	NCA10	RES	673	35 TWIN CREEKS DRIVE	673	45	44	0	0
47297	NCA10	RES	352	713-733 LUDDENHAM ROAD	352	45	44	0	0
49489	NCA10	RES	572	28 PORTRUSH CRESCENT	572	45	44	32	0
50984	NCA10	RES	698	47 TWIN CREEKS DRIVE	698	45	44	0	0
53842	NCA11	RES	162	75 LAWSON ROAD	5678	45	44	0	47
49283	NCA10	RES	557	19 PORTRUSH CRESCENT	557	45	44	36	0
49498	NCA10	RES	573	28 PORTRUSH CRESCENT	573	45	44	31	0

Predicted maximum night-time construction noise levels							Residential colour code for sleep disturbance screening level:	Greater than NML	
No.	NCA	Usage	Rec	Address	Unique ID	NML	Activity 2 - Lmax dB(A)	Activity 4 - Lmax dB(A)	Activity 6 - Lmax dB(A)
49774	NCA10	RES	593	48 PORTRUSH CRESCENT	593	45	44	36	0
50890	NCA10	RES	690	43 TWIN CREEKS DRIVE	690	45	44	0	0
50902	NCA10	RES	692	43 TWIN CREEKS DRIVE	692	45	44	0	0
51548	NCA10	RES	745	6 VENTANA COURT	745	45	44	0	0
51589	NCA10	RES	748	7 VENTANA COURT	748	45	44	30	0
51037	NCA10	RES	703	49 TWIN CREEKS DRIVE	703	45	44	0	0
51490	NCA10	RES	741	4 VENTANA COURT	741	45	44	0	0
49851	NCA10	RES	600	52 PORTRUSH CRESCENT	600	45	43	37	0
50475	NCA10	RES	654	27 TWIN CREEKS DRIVE	654	45	43	0	0
51097	NCA10	RES	708	51 TWIN CREEKS DRIVE	708	45	43	0	0
51447	NCA10	RES	737	2 VENTANA COURT	737	45	43	0	0
47272	NCA10	RES	349	710-732 LUDDENHAM ROAD	349	45	43	0	0
49862	NCA10	RES	602	52 PORTRUSH CRESCENT	602	45	43	30	0
50868	NCA10	RES	688	42 TWIN CREEKS DRIVE	688	45	43	30	0
49892	NCA10	RES	603	54 PORTRUSH CRESCENT	603	45	43	34	0
49343	NCA10	RES	561	21 PORTRUSH CRESCENT	561	45	43	34	0
49452	NCA10	RES	570	26 PORTRUSH CRESCENT	570	45	43	35	0
50829	NCA10	RES	684	40 TWIN CREEKS DRIVE	684	45	43	30	0
46987	NCA10	RES	256	9 HUMEWOOD PLACE	256	45	43	0	35
49089	NCA10	RES	539	13 PORTRUSH CRESCENT	539	45	43	35	0
49742	NCA10	RES	591	46 PORTRUSH CRESCENT	591	45	43	36	0
49421	NCA10	RES	567	24 PORTRUSH CRESCENT	567	45	43	33	0
49626	NCA10	RES	583	38 PORTRUSH CRESCENT	583	45	43	35	0
50481	NCA10	RES	655	27 TWIN CREEKS DRIVE	655	45	43	0	0
50521	NCA10	RES	658	29 TWIN CREEKS DRIVE	658	45	43	0	0
50920	NCA10	RES	694	44 TWIN CREEKS DRIVE	694	45	43	30	0
47285	NCA10	RES	351	710-732 LUDDENHAM ROAD	351	45	43	0	0
51177	NCA10	RES	712	53 TWIN CREEKS DRIVE	712	45	43	0	0

Predicted maximum night-time construction noise levels							Residential colour code for sleep disturbance screening level:	Greater than NML	
No.	NCA	Usage	Rec	Address	Unique ID	NML	Activity 2 - Lmax dB(A)	Activity 4 - Lmax dB(A)	Activity 6 - Lmax dB(A)
49406	NCA10	RES	565	23 PORTRUSH CRESCENT	565	45	43	34	0
51358	NCA10	RES	728	64 TWIN CREEKS DRIVE	728	45	43	0	0
53835	NCA11	RES	160	65 LAWSON ROAD	5676	45	43	0	47
46942	NCA10	RES	252	7 HUMEWOOD PLACE	252	45	43	0	0
49601	NCA10	RES	582	36 PORTRUSH CRESCENT	582	45	43	30	0
51460	NCA10	RES	738	2 VENTANA COURT	738	45	43	0	0
53632	NCA11	RES	56	155 LAWSON ROAD	5572	45	42	0	43
47061	NCA10	RES	297	581 LUDDENHAM ROAD	297	45	42	35	0
49001	NCA10	RES	533	11 PORTRUSH CRESCENT	533	45	42	33	0
49553	NCA10	RES	576	34 PORTRUSH CRESCENT	576	45	42	34	0
49567	NCA10	RES	578	34 PORTRUSH CRESCENT	578	45	42	32	0
49572	NCA10	RES	579	34 PORTRUSH CRESCENT	579	45	42	32	0
49987	NCA10	RES	611	60 PORTRUSH CRESCENT	611	45	42	37	0
50541	NCA10	RES	660	29 TWIN CREEKS DRIVE	660	45	42	0	0
53571	NCA11	RES	17	1970 ELIZABETH DRIVE	5533	45	42	0	47
47051	NCA10	RES	292	443-457 LUDDENHAM ROAD	292	45	42	40	0
47260	NCA10	RES	345	693-711 LUDDENHAM ROAD	345	45	42	0	0
51205	NCA10	RES	716	54 TWIN CREEKS DRIVE	716	45	42	0	0
49705	NCA10	RES	589	44 PORTRUSH CRESCENT	589	45	42	33	0
50784	NCA10	RES	682	38 TWIN CREEKS DRIVE	682	45	42	32	0
51741	NCA10	RES	757	19 WOODHALL PLACE	757	45	42	0	0
49244	NCA10	RES	552	17 PORTRUSH CRESCENT	552	45	42	33	0
49719	NCA10	RES	590	44 PORTRUSH CRESCENT	590	45	42	33	0
50010	NCA10	RES	613	62 PORTRUSH CRESCENT	613	45	42	34	0
44936	NCA10	RES	26	1669A ELIZABETH DRIVE	26	45	42	0	43
47355	NCA10	RES	359	734-750 LUDDENHAM ROAD	359	45	42	0	0
48430	NCA10	RES	488	16 PENNARD CRESCENT	488	45	42	0	0
49756	NCA10	RES	592	46 PORTRUSH CRESCENT	592	45	42	33	0

Predicted maximum night-time construction noise levels							Residential colour code for sleep disturbance screening level: Greater than NML		
No.	NCA	Usage	Rec	Address	Unique ID	NML	Activity 2 - Lmax dB(A)	Activity 4 - Lmax dB(A)	Activity 6 - Lmax dB(A)
49805	NCA10	RES	596	48 PORTRUSH CRESCENT	596	45	42	33	0
51797	NCA10	RES	761	3 WOODHALL PLACE	761	45	42	0	0
51861	NCA10	RES	765	5 WOODHALL PLACE	765	45	42	0	0
51891	NCA10	RES	768	7 WOODHALL PLACE	768	45	42	0	0
51604	NCA10	RES	749	1 WOODHALL PLACE	749	45	42	0	0
51700	NCA10	RES	756	17 WOODHALL PLACE	756	45	42	0	0
51918	NCA10	RES	770	9 WOODHALL PLACE	770	45	42	0	0
51925	NCA10	RES	771	9 WOODHALL PLACE	771	45	42	0	0
53811	NCA11	RES	136	35 LAWSON ROAD	5652	45	42	0	46
49800	NCA10	RES	595	48 PORTRUSH CRESCENT	595	45	42	33	0
51578	NCA10	RES	746	7 VENTANA COURT	746	45	42	0	0
51619	NCA10	RES	751	11 WOODHALL PLACE	751	45	42	0	0
49198	NCA10	RES	547	16 PORTRUSH CRESCENT	547	45	41	34	0
49248	NCA10	RES	553	17 PORTRUSH CRESCENT	553	45	41	35	0
49521	NCA10	RES	575	30 PORTRUSH CRESCENT	575	45	41	35	0
50666	NCA10	RES	672	34 TWIN CREEKS DRIVE	672	45	41	32	0
50808	NCA10	RES	683	39 TWIN CREEKS DRIVE	683	45	41	0	0
51681	NCA10	RES	755	15 WOODHALL PLACE	755	45	41	0	0
53818	NCA11	RES	153	55 LAWSON ROAD	5669	45	41	0	46
54120	NCA11	RES	259	55 MARTIN ROAD	5775	45	41	0	45
47210	NCA10	RES	337	688-708 LUDDENHAM ROAD	337	45	41	0	0
47403	NCA10	RES	377	752-810 LUDDENHAM ROAD	377	45	41	0	0
49507	NCA10	RES	574	30 PORTRUSH CRESCENT	574	45	41	32	0
50582	NCA10	RES	663	31 TWIN CREEKS DRIVE	663	45	41	0	0
50597	NCA10	RES	666	32 TWIN CREEKS DRIVE	666	45	41	33	0
50847	NCA10	RES	686	41 TWIN CREEKS DRIVE	686	45	41	0	0
51650	NCA10	RES	753	13 WOODHALL PLACE	753	45	41	0	0
49156	NCA10	RES	545	15 PORTRUSH CRESCENT	545	45	41	35	0

Predicted maximum night-time construction noise levels							Residential colour code for sleep disturbance screening level:	Greater than NML	
No.	NCA	Usage	Rec	Address	Unique ID	NML	Activity 2 - Lmax dB(A)	Activity 4 - Lmax dB(A)	Activity 6 - Lmax dB(A)
49904	NCA10	RES	605	56 PORTRUSH CRESCENT	605	45	41	37	0
50435	NCA10	RES	653	26 TWIN CREEKS DRIVE	653	45	41	33	0
51912	NCA10	RES	769	7 WOODHALL PLACE	769	45	41	0	0
50024	NCA10	RES	614	62 PORTRUSH CRESCENT	614	45	41	37	0
51786	NCA10	RES	760	2 WOODHALL PLACE	760	45	41	0	0
47234	NCA10	RES	342	693-711 LUDDENHAM ROAD	342	45	41	0	0
50591	NCA10	RES	664	31 TWIN CREEKS DRIVE	664	45	41	0	0
50637	NCA10	RES	669	33 TWIN CREEKS DRIVE	669	45	41	0	0
50912	NCA10	RES	693	44 TWIN CREEKS DRIVE	693	45	41	32	0
49168	NCA10	RES	546	16 PORTRUSH CRESCENT	546	45	41	29	0
50751	NCA10	RES	677	37 TWIN CREEKS DRIVE	677	45	41	0	0
50857	NCA10	RES	687	41 TWIN CREEKS DRIVE	687	45	41	0	0
50892	NCA10	RES	691	43 TWIN CREEKS DRIVE	691	45	41	0	0
51819	NCA10	RES	763	4 WOODHALL PLACE	763	45	41	0	0
53853	NCA11	RES	171	83-87 LAWSON ROAD	5687	45	41	0	45
47400	NCA10	RES	367	752-810 LUDDENHAM ROAD	367	45	41	0	0
50485	NCA10	RES	656	28 TWIN CREEKS DRIVE	656	45	41	30	0
49023	NCA10	RES	535	12 PORTRUSH CRESCENT	535	45	41	34	0
49118	NCA10	RES	543	14 PORTRUSH CRESCENT	543	45	41	36	0
50506	NCA10	RES	657	28 TWIN CREEKS DRIVE	657	45	41	30	0
53867	NCA11	RES	173	83-87 LAWSON ROAD	5689	45	41	0	44
49830	NCA10	RES	599	5 PORTRUSH CRESCENT	599	45	41	37	0
50035	NCA10	RES	615	64 PORTRUSH CRESCENT	615	45	41	34	0
50266	NCA10	RES	634	17 TWIN CREEKS DRIVE	634	45	41	24	0
51002	NCA10	RES	699	47 TWIN CREEKS DRIVE	699	45	41	0	0
51031	NCA10	RES	702	49 TWIN CREEKS DRIVE	702	45	41	0	0
51227	NCA10	RES	717	55 TWIN CREEKS DRIVE	717	45	41	0	0
53582	NCA11	RES	31	1990 ELIZABETH DRIVE	5547	45	41	0	46

Predicted maximum night-time construction noise levels							Residential colour code for sleep disturbance screening level:	Greater than NML	
No.	**NCA**	**Usage**	**Rec**	**Address**	**Unique ID**	**NML**	**Activity 2 - Lmax dB(A)**	**Activity 4 - Lmax dB(A)**	**Activity 6 - Lmax dB(A)**
53589	NCA11	RES	36	115 LAWSON ROAD	5552	45	41	0	42