taihan GARDE

PSF OUT-OF-HOURS WORK PERMIT

(For works conducted under DPIE approval)

Permit No.	009		**Application Date**	21/12/2020
Revision No.	03		**Revision Date**	20/01/2021
Summary of Update (details of revision)	3	Application revised based on working 24/7. Additional respite included.		
Title of Works	Canterbury Road trenching and conduit installation			
Person Requesting OOHW	Colin O'Mahony			

1.0 - JUSTIFICATION	
Justification for OOHW	TMC have requested the works be completed 24/7 to minimise impact to road users.
DPIE Condition under which works are permitted	*Include additional details if required*
	The work is permitted under the following clause of DPIE Condition of Approval: **E4 (c): Linear infrastructure – Works in classified road reserves and signalised intersections.** **E6 (c): works approved under an Out-of-Hours Work Protocol**

2.0 – DESCRIPTION OF THE WORKS		
Details of Work ☒ Map attached at end of form (showing location / work extent / nearest sensitive receivers / landscape)	Location & Chainage	CH11,800 Hanks St to CH12,350 Arlington St, along Old Canterbury Rd.
	Description of works	Trenching, conduit installation and road restoration.
	Proposed dates + time (incl contingency)	Start: 27/01/2021 @ 18:00 Finish: 27/04/2021 @ 07:00* *Conduit installation works are scheduled to take place over 14 days, including 10 night shifts (18:00-07:00 following day) and two Saturday afternoon shifts (13:00-18:00), from 27/01/21. Work will be carried out during day and night shift, as per TMC road occupancy approval. There will be a maximum of six consecutive day shifts and five night shifts per week. Indicative shift pattern and respite shown below. Exact dates may vary due to unforeseen circumstances – contingency included in the date range above. Road restoration will be completed at a later date in approximately one week pending TMC road occupancy approval. Work will take place over 7 days, including 5 night shifts (18:00-07:00 following day) and one Saturday afternoon shift (13:00-18:00). Shift pattern will reflect the below. Exact dates not confirmed at this time – contingency included in the date range above.

2.0 – DESCRIPTION OF THE WORKS

Proposed Timings and activities

Indicative shift pattern – 6 day shifts and 5 night shifts per week during the proposed dates.

Monday – 17 hours 07:00-23:59	Tuesday – 24 hours 00:00-23:59	Wednesday – 24 hours 00:00-23:59	Thursday – 24 hours 00:00-23:59	Friday – 24 hours 00:00-23:59	Saturday – 18 hours 00:00-18:00	Sunday – 0 hours
Respite - No works before 7am Saw-cutting and concrete breaking completed 07:00-18:00 Rock hammering will be completed during day shift where possible, but no later than 00:00. Anytime: Excavation Conduit install TSB Road restorations (Plates if required)	Saw-cutting and concrete breaking completed 07:00-18:00 Rock hammering will be completed during day shift where possible, but no later than 00:00. Anytime: Excavation Conduit install TSB Road restorations (Plates if required)	Saw-cutting and concrete breaking completed 07:00-18:00 Rock hammering will be completed during day shift where possible, but no later than 00:00. Anytime: Excavation Conduit install TSB Road restorations (Plates if required)	Saw-cutting and concrete breaking completed 07:00-18:00 Rock hammering will be completed during day shift where possible, but no later than 00:00. Anytime: Excavation Conduit install TSB Road restorations (Plates if required)	Saw-cutting and concrete breaking completed 07:00-18:00 Rock hammering will be completed during day shift where possible, but no later than 00:00. Anytime: Excavation Conduit install TSB Road restorations (Plates if required)	Saw-cutting and concrete breaking completed 07:00-18:00 Rock hammering will be completed during day shift. Anytime: Excavation Conduit install TSB Road restorations (Plates if required) **Respite - No works after 6pm**	**Respite - No work on Sunday.**

Details on any concurrent construction activities being undertaken OOWH adjacent / in close proximity to the proposed works?	N/A
Names of Foremen supervising the work	Mick Sinnot, Kieran Burke
Subcontractor Details	Garde Services Durkin Locators

3.0 – SENSITIVE RECEIVERS				
Distance to Nearest Sensitive Noise Receiver	**Sensitive Receiver**	**Distance**	**Sensitive Receiver**	**Distance**
	☐ Place of Worship		☐ Educational Institution (inc. Child Care Centres	
	☐ N+V Sensitive Business and critical working area (eg. theatre, health services)		☒ Nearest Residential Receiver	10m
	☐ Not applicable (no sensitive receivers impacted)			
	Where one of the above is checked, noise generating works must not be timetabled within sensitive periods, unless otherwise agreed with the affected receiver. This must be determined through ongoing consultation with the community in accordance with the Community Consultation Strategy.			
	Has the sensitive receiver been consulted on these works and proposed respite options? (refer to CoA E9). List outcomes of consultation below ☒ Yes ☐ No			
	Comments			
	Two rounds of community consultation have been conducted via notification distribution and doorknocking to inform this permit application. See attached. Further community notifications will be distributed 7 days ahead of works commencing. Individual briefings will be conducted for those requesting them or deemed highly sensitive by the Community Relations Manager. Project specific respite offers, for example movie tickets, may be offered to members of the community subjected to lengthy periods of noise or vibration. This will be determined on a case-by-case basis.			

4.0 – PLANT & EQUIPMENT	
Plant and equipment to be used: List all plant and noise generating equipment to be used during the work activities (eg. hand tools, generators, crane etc)	13t Excavator & hammer 5t excavator Truck & dogs 8-wheeler bogie Concrete agitators Compaction equipment (Whackers, plate compactors) Smooth drum roller Light vehicles
Are alternative, quieter / less vibration intensive equipment options feasible for the activity? **If yes, why are these not being used?**	☐ Yes ☒ No

5.0 – TRAFFIC MANAGEMENT	
Will the work require traffic control?	☒ Yes ☐ No

5.0 – TRAFFIC MANAGEMENT	
Describe the location and nature of proposed disruption to traffic.	During trenching works, traffic will be maintained but diverted around the work site on Old Canterbury Road. Traffic on side streets will be maintained via diversion.
List any ROLs for the works	ROL1551950

6.0 – LIGHTING	
What lighting is to be provided for night work?	Daymakers Balloon lights
Will lighting be positioned minimise light spill to nearby receivers?(Refer AS4282-1997 and AS/NZ 1158).	☒ Yes ☐ No

7.0 – NOISE & VIBRATION ASSESSMENT

Reference:
NMC
Noise Objective
Noise Management Level (NML)
Sleep Disturbance Level (night only)
Predicted L_{max}/L_{A1}

NCA:	05		
Type of OOHW:	Trenching and conduit installation		
NML:	45		
SDL:	65		
Predicted:	85		

Acoustic Assessment to determine if works are above RBL +5dB(A) at closest receiver

☐ 🟢 Below NML
☐ 🟢 <5dB(A) above NML – construction noise noticeable
☐ 🔶 5 to 15dB(A) above NML – construction noise clearly audible
☐ 🟧 >15 to 25dB(A) above NML – construction noise moderately intrusive
☒ 🟥 >25dB(A) above NML – construction noise highly intrusive

What measures are being taken to reduce noise impacts

☐ No added measures
☒ Restrictive tools *(list)* – no greater than 13tonne excavator. Reverse quackers on trucks.
☒ Balloon lights
☒ Noise attenuation curtains
☒ High noise impact respite
☒ Other *(list)* – Road plates to be secured to minimise noise due to passing traffic.

Noise monitoring required?

☒ Yes – Compliance monitoring to be carried out within the first two shifts
☐ No

Nominated Verification monitoring location:

Worksite	**NCA**	**Nominated receiver**

7.0 – NOISE & VIBRATION ASSESSMENT				
	Old Canterbury Road	NCA5	341 Old Canterbury Road (perimeter)	
Are vibration impacts above Human Comfort levels expected?	☒ Yes ☐ No Refer to OOH CNVIS Table 5	If yes, state number of properties expected to be impacted? **No. of properties:** Barely noticeable – 07 Noticeable - 48		
Is vibration monitoring required? Refer to CNVMP/Monitoring Programme	☒ Yes – Compliance monitoring to be carried out within the first two shifts. ☐ No Nominated Verification monitoring location:			
	Worksite	**NCA**	**Nominated receiver**	
	Sydenham Road	NCA5	341 Old Canterbury Road (perimeter)	
Community notification required?	Yes. Community notifications will be undertaken as per the approved Community Communication Strategy (CCS), including; Consultation on preferred respite option Letters notifying of work activities to be delivered 7 days before. A door knock will be done for the sensitive receivers immediately adjacent to the works as per CNVMP. Individual briefings may be held where requested by the Community or where deemed appropriate by the Community Team Manager.			
Evidence of consultation and results	**Consultation documentation submitted with this application.** Summary of Results: 136 receivers consulted on preferred respite via notification. 48 consulted via doorknock. 33 responses received. Of those expressing a preference, 53% favoured option 2, six consecutive nights per week, 40% favoured option 1, four consecutive nights and 7% favoured baseline OOH - no more than two consecutive nights per week.			

8.0 – OOHW RISK LEVEL ASSESSMENT

Insert snip from Risk Level calculation sheet and attach worksheet separately

Low Risk (1-6)
Moderate (7-9)
High (10-12)

Low and Moderate risk work may be approved by the ESM.

High risk work must be approved by the Planning Secretary.

Overall Risk Assessment	Sum of Risk Factor Scores	Approval Path
Low 1 Risk Activity	1 - 6	Environment and Sustainability Manager
Moderate 2 Risk Activity	7 - 9	Environment and Sustainability Manager
High Risk Activity	10 - 12	Planning Secretary

Your total Risk score is:

12

Risk level calculator worksheet attached with application.

Work to be approved by Planning Secretary as per CoA E8(e).

9.0 AUTHORISATION/SITE ACCEPTANCE

9.1 Environment & Sustainability Manager (Approval)

Approval Authority for works with Low or Medium Risk level on OOHW Risk Table as per section 8.0

I confirm these works have been appropriately assessed under the OOHW Protocol as per CoA E8 and E9.

The specified mitigation and management measures shall be implemented including:

No more than six consecutive days and five consecutive night shifts per week
Concrete breaking or saw-cutting to occur between 07:00 - 18:00.
Rock breaking may occur between 07:00-00:00.
Noise and vibration verification monitoring within the first two shifts.
Installation of noise barriers around high impact works.
Respite 1hr for every 3hr of high impact noise during day hours.
Respite 1hr fo revery 1hr of high impact noise during night hours.
Selection of appropriate plant and equipment.
Individual community briefings ahead of works commencing, and during works, as required.
Project specific respite offers may be made for residents impacted by lengthy periods of works. To be determined on a case-by-case basis.

Name	Tom Spillane	**Signature**		**Date**	19/01/2021

9.2 Planning Secretary (Approval)

REQUIRED

Name		**Signature**		**Date**	

9.3 Construction Supervisor/Project Manager (Site Acceptance)

I confirm the following:

- OOH permit will be kept on site where work is occurring
- Respite and mitigation measures will be implemented
- Any changes to works which may affect this approval shall be communicated to the Environment and Community Manager

Name	David Coulter	**Signature**		**Date**	20/01/2021

Attachment – Map of Works Location

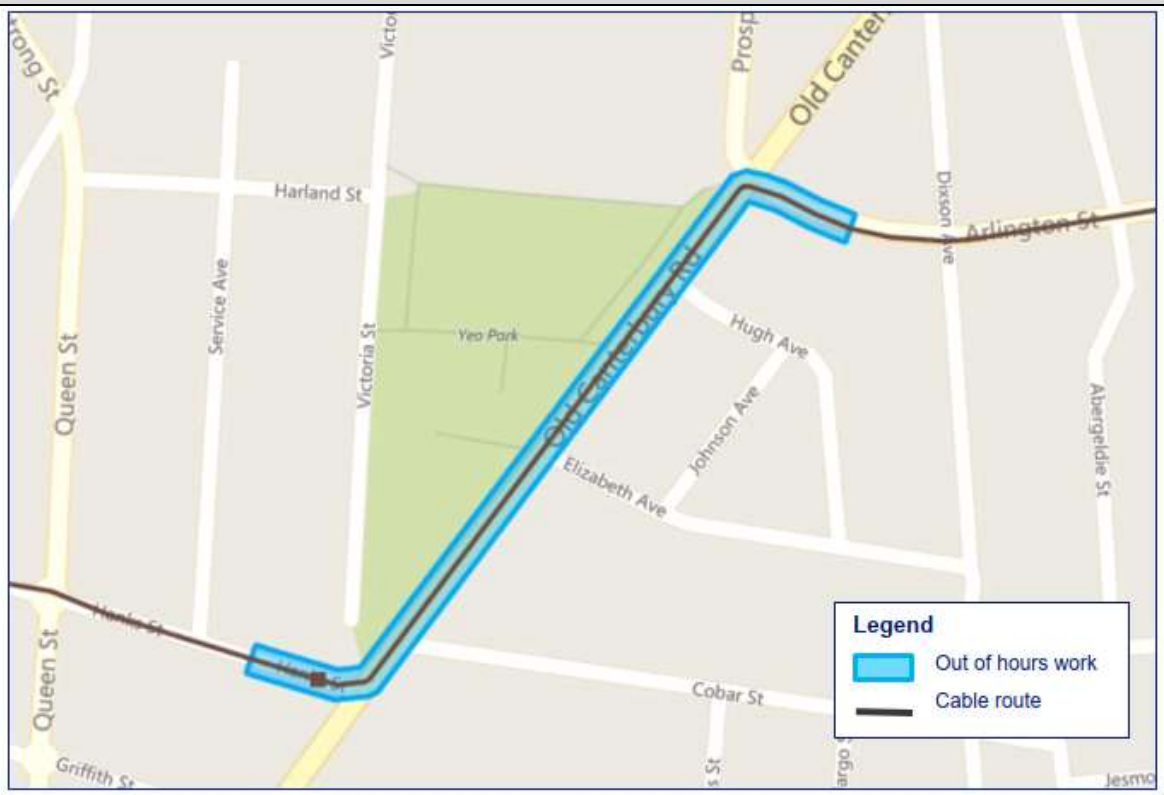


Figure 1: Map of works location

Attachment – Map of Works Location

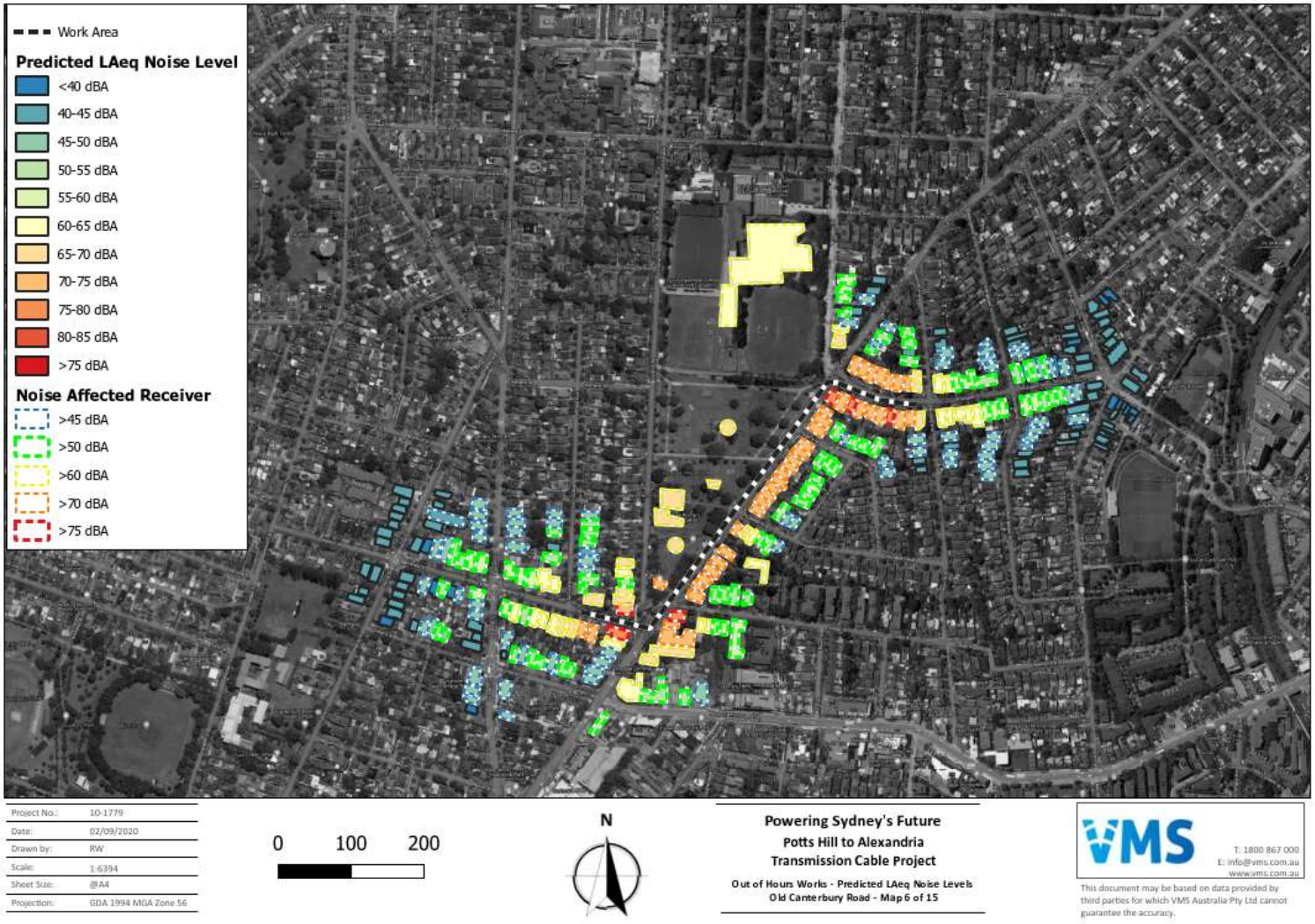


Figure 2: Map of potentially noise impacted receivers.

Attachment – Map of Works Location

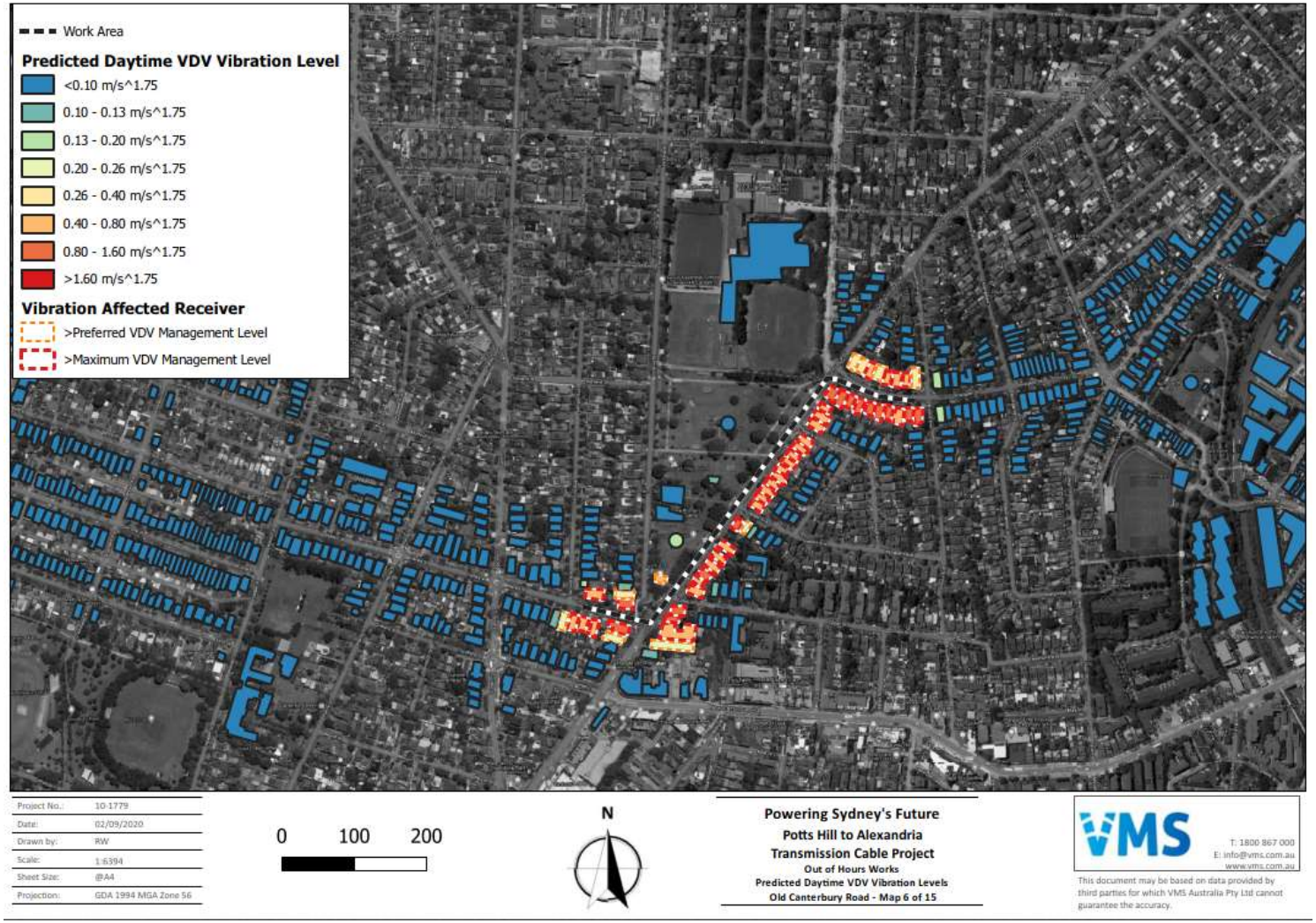


Figure 3: Map of potentially vibration impacted receivers.

Out of Hours Work

Activity Works	Activity / Impact	Time
Linear Infrastructure - Site preparation, trenching, excavation, joint bays, restoration of road services, other ☐	Delivery and Police ☐	Monday - Friday 7am - 6pm ☐
Substation Upgrade Works ☐	Emergency ☐	Monday - Friday 6pm - 7am ☑
Linear Infrastructure - Works in Classified Road Reserves and Signalised intersections, cable pulling and jointing ☑	Approved under Existing OOHW protocol ☐	Saturday 8am - 1pm ☐
Special crossings - Cable bridges and underboring ☐	> 75dBA COA E5 ☑	Saturday 1pm - 8am ☐
Construction Laydown Area ☐	>RBL + 5dBA ☐	Sundays and Public Holidays ☐
	<=45 NML ☐	
	> 45 NML ☐	
	Vibration perceptible inside Residence ☐	

OOHW Protocol is Triggered!!!

Reciever type	Day OOHW 7am - 6pm	Evening OOHW 6pm - 10pm	Nicht OOHW 10pm - 7am	Notes
Childcare	○ Low (1)	○ Low (1)	○ Low (1)	Not Operating during OOH
Commercial	○ Low (1)	○ Low (1)	○ Low (1)	Sensitivity of Premises to be confirmed through consultation
Industrial	○ Low (1)	○ Low (1)	○ Low (1)	Sensitivity of Premises to be confirmed through consultation
Educational	○ Low (1)	○ Low (1)	○ Low (1)	Not operating during OOH
Hotel	○ Low (1)	○ Low (1)	○ Mod (2)	Sensitivity of Premises to be confirmed through consultation
Medical	○ Low (1)	○ Low (1)	○ Low (1)	Sensitivity of Premises to be confirmed through consultation
Place of Worship	○ Mod (2)	○ Mod (2)	○ Low (1)	Sensitivity of Premises to be confirmed through consultation
Recording Studio	○ Mod (2)	○ Mod (2)	○ Low (1)	Sensitive periods during operational periods as agreed with facility through consultation
Recreation (active)	○ Low (1)	○ Low (1)	○ Low (1)	Sensitive periods during normal periods of use and review of special events calendar

Recreation (Passive)	○ Mod (2)	○ Low (1)	○ Low (1)	Sensitive periods during normal periods of use and review of special events calendar
Residential	○ Low (1)	○ Mod (2)	◉ High (3)	Risk subject to complaints management. Respite periods to be consulted for Highly Noise Intensive Works
Restaurant (Outdoor Dining)	○ Mod (2)	○ Mod (2)	○ Mod (2)	Sensitivity of premises to be confirmed through consultation

Exceedance of NML	Day OOHW 7am - 6pm	Evening OOHW 6pm - 10pm	Nicht OOHW 10pm - 7am	Qualitative Description
<5dB	○ Low (1)	○ Low (1)	○ Low (1)	Barely noticeable exceedance of the NML
5 - 15 dB	○ Low (1)	○ Low (1)	○ Mod (2)	Noticeably audible exceedance of the NML
15 - 25 dB	○ Low (1)	○ Mod (2)	○ Mod (2)	Clearly audible exceedance of the NML
>25 dB	○ Mod (2)	○ High (3)	○ High (3)	Intrusive exceedance of the NML
>75 dBa	○ Mod (2)	○ High (3)	◉ High (3)	Highly affected recievers

Vibration Assessment in Residential Areas (click here if Not Applicable) ○	Day OOHW 7am - 6pm	Evening OOHW 6pm - 10pm	Nicht OOHW 10pm - 7am	Qualitative Description
Less than Preferred	○ Low (1)	○ Low (1)	○ Low (1)	No noticeable floor vibration
Greater than Preferred, but Less than Maximum	○ Low (1)	○ Mod (2)	◉ Mod (2)	Barely noticeable floor vibration
Greater than Maximum	○ Low (1)	○ Mod (2)	○ High (3)	Noticeable floor vibration

Duration	Day OOHW 7am - 6pm	Evening OOHW 6pm - 10pm	Nicht OOHW 10pm - 7am	Qualitative Description
1 day	○ Low (1)	○ Low (1)	○ Low (1)	Generally Tolerable
2 days	○ Low (1)	○ Mod (2)	○ Mod (2)	Marginal Annoyance
3 days	○ Low (1)	○ Mod (2)	○ High (3)	Moderate Annoyance
More than 3 days	○ Low (1)	○ High (3)	◉ High (3)	Highly Disturbing

Get Risk Score

Overall Risk Assessment	Sum of Risk Factor Scores	Approval Path
Low 1 Risk Activity	1 - 6	Environment and Sustainability Manager
Moderate 2 Risk Activity	7 - 9	Environment and Sustainability Manager
High Risk Activity	10 - 12	Planning Secretary

Your total Risk score is:

12

December 2020

Powering Sydney's Future

POTTS HILL TO ALEXANDRIA TRANSMISSION CABLE PROJECT

COMMUNITY CONSULTATION

Out-of-hours work at Old Canterbury Road, Dulwich Hill

TransGrid is installing a new underground electricity cable from Potts Hill to Alexandria. The Powering Sydney's Future project will help ensure a safe, reliable and affordable electricity supply for Sydney's CBD and surrounding areas. You can view a map of the cable route at www.transgrid.com.au/psf.

At **Old Canterbury Road, Dulwich Hill** (intersections with Hanks Street and Arlington Street) we will need to work outside standard construction hours due to high daytime traffic volumes. These works will generate noise. The loudest activities will be saw cutting and hammering, followed by trenching, road restoration and tree trimming.

Out-of-hours work in this location is due to start from **mid-January 2021 and will require around 45 shifts**.

Propose work hours

Depending on the approval from the relevant road authorities, this out-of-hours work will either take place over a weekend shutdown from 6.00pm Friday through 6.00am Monday or would be carried out between 7.00am to 7.00pm from Monday to Sunday. We will keep you updated on the final work hours at least seven days in advance.

How will the work affect you?

> **There will be around 45 shifts** of out-of-hours construction work in total.

> Highly noise intensive work will be done for three hours at a time, followed by one hour of respite.

> We aim to do high impact noise activities before midnight wherever possible.

> High impact noise typically occurs at the start and end of shifts, as we open up road pavement and then repair it.

> Access to properties will be maintained at all times, unless we make alternative arrangements with you in advance.

Tell us your views

We would like your views on two different ways this work could be done:

- Option 1 - Four consecutive nights per week over 11-12 weeks, or
- Option 2 - Six consecutive nights per week over 7-8 weeks.

Please refer to the attached noise chart for typical noise levels from this type of work.

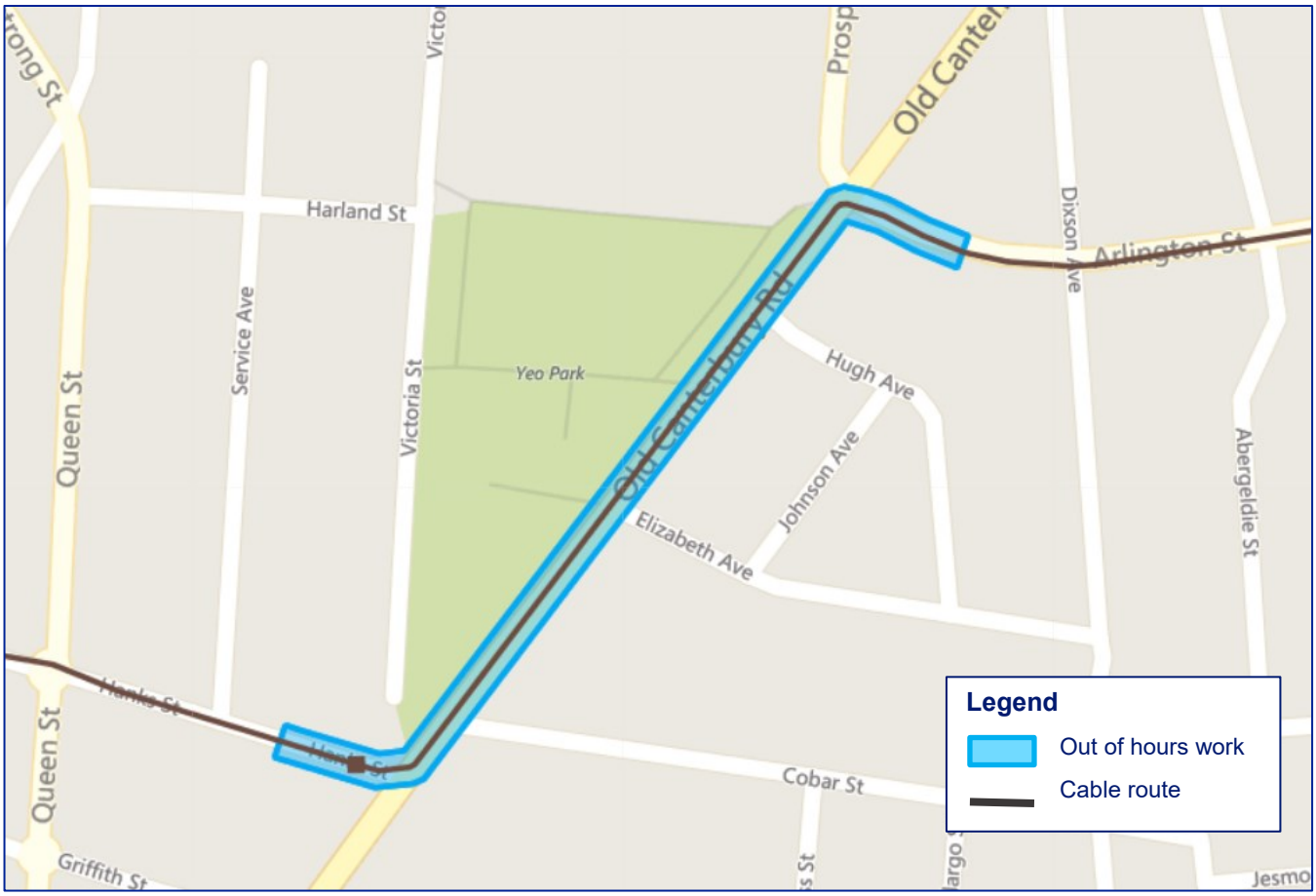
You are welcome to let the Powering Sydney's Future project team know which option you prefer by contacting us on **1800 955 588** or at psf@transgrid.com.au before **Monday, 14 December 2020**.

Please write **Canterbury Road** in the subject line of your email to identify the major road.

Connect with us
Community Information Line: **1800 955 588**
Email: **psf@transgrid.com.au**
Web: **www.transgrid.com.au/psf**

TransGrid

Out-of-hours work map



Noisy activities	Tools and equipment	Approximately 45 shifts over the period below			
		January	February	March	April
Saw cutting and hammering, trenching, road restoration and tree trimming	Powered saw, excavator hammer and bucket, hand operated compactor and small roller, chainsaws	✓	✓	✓	✓

COVID-19 Safety protocols

The health and safety of our people, customers and the community and ensuring a reliable supply of electricity to NSW and the ACT are our highest priorities during the COVID-19 crisis.

TransGrid and our contractors, as a minimum, adhere to the recommendations of SafeWork NSW along with the advice of other state and federal authorities to effectively manage the risk of COVID-19 to workers and others in the work environment. This involves maintaining effective controls including social distancing, stringent hygiene and specific access protocols at our work sites.

131 450

For an interpreter please call **131 450** and ask them to call TransGrid on **1800 955 588**.
The interpreter will then assist you with translation.

Connect with us

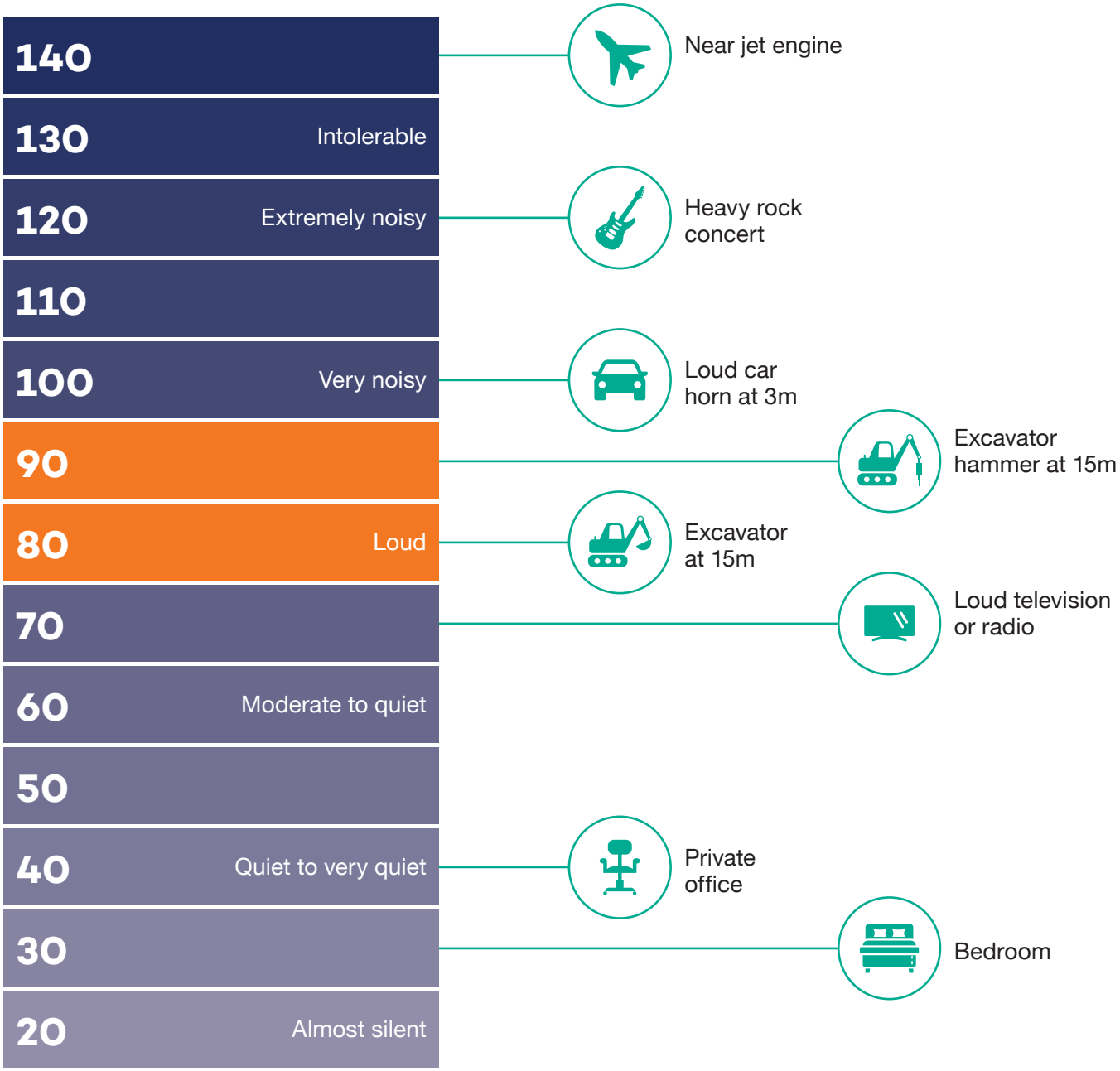
Please visit our website: **www.transgrid.com.au/psf** or contact the Powering Sydney's Future project team:
Community Information Line: **1800 955 588** Email: **psf@transgrid.com.au**

Noise level comparisons

People's perceptions of noise is strongly influenced by their environment.

A noise level that is perceived as loud in one situation may appear quiet in another.

dBA levels and subjective evaluation



PSF-OOHW-009 Respite Consultation Report

Report	OOH Consultation for works at Old Canterbury Road
Objective:	Obtain feedback about noise intensive works on Old Canterbury Road (intersections Arlington street and Hanks street) outside standard construction hours, 45 shifts.

ITEM	#	%
Total of properties around 55DBA works	136	100%
Properties notified about the works and with OOH Consultation	136	100%
Properties with feedback after the notification	2	1.5%
Additional Activities.		
Properties contacted via doorknock to obtain the feedback around the 75 DBA or sensitive receivers.	48	-
Total of properties with feedback after the doorknock	33	68.75%
Total of properties without feedback	15	31.25%
Results		
Total of feedbacks	33	100%
Option 1: The work will be done over four consecutive night shifts, with three respite nights. – This option means we may be working near your property for over 11-12 weeks.	12	36.4% (40% of those expressing a preference)
Option 2: The work will be done over 6 consecutive night shifts, with one respite night – This option may allow completion of the work in around 7-8 weeks.	16	48.5% (53% of those expressing a preference)
The resident has informed the project team that they do not have a preference regarding night work plans.	3	9.1%
The resident preferred baseline of three nights per week.	2	6%
MAP OF THE AREA.