



Environmental Team Leader
TransGrid
200 Old Wallgrove Road
Wallgrove NSW 2766

11/11/2020



**Powering Sydney's Future (SSI 8583)
Variation to Approved Construction Hours –
Intersection Works Punchbowl Road and Wangee Road, Lakemba**

I refer to your request (SSI-8583-PA-34) submitted on 27 October 2020 for the Planning Secretary's approval of high risk out of hours works for the Powering Sydney's Future project (SSI 8583).

The Department has reviewed your request to extend construction hours to carry out the intersection works between Punchbowl Road and Wangee Road, Lakemba.

The Department accepts the request to vary constructions hours subject to the following:

1. The works must be undertaken as detailed in the *Out of Hours Works Permit* (004) prepared by Taihan (SSI-8583-PA-34) and in accordance with the *Out of Hours Works Construction Noise and Vibration Impact Statement* (prepared by VMS Australia dated 3 September 2020), unless otherwise varied by the conditions below.
2. Work must not be undertaken outside the hours of work identified in condition E4 of the development consent, except for the works and hours detailed below:
 - 16 nights of work at the Punchbowl Road and Wangee Road intersection between 15 November 2020 and 13 December 2020.
3. Written notice must be provided to surrounding residential occupiers and placed on site at least 48 hours before work occurs outside the normal construction hours identified in condition E4. The written notice must:
 - (i) identify what works are to occur outside normal construction hours;
 - (ii) nominate the timeframe the works are likely to occur;
 - (iii) be reissued 24 hours before any work occurs outside normal construction hours if the wet weather requires an alternative day from that notified; and
 - (iv) provide a telephone contact number dedicated to the project during that will be operational throughout the extended construction hours.
4. A record of any complaints made regarding works undertaken during the extended construction hours must be provided to the Department's Compliance team within 24 hours of the complaint.
5. In the event that any complaint is received, appropriate mitigation measures are to be implemented, and the Department and the complainant are to be informed of the actions undertaken to address the complaint.

6. All noise management controls as described in Section 9 of the *Out of Hours Works Noise and Vibration Impact Statement* (prepared by VMS Australia dated 3 September 2020), are to be adopted and implemented for the duration of the works.

If you wish to discuss the matter further, please contact [REDACTED].

Yours sincerely



As nominee of the Planning Secretary

PSF OUT-OF-HOURS WORK PERMIT

(For works conducted under DPIE approval)

Permit No.	004	Application Date	26/10/2020
Revision No.	0	Revision Date	26/10/2020
Summary of Update (details of revision)	1	Initial application to allow works outside standard construction hours	
Title of Works	PSF – Punchbowl Road Crossing		
Person Requesting OOHW	[REDACTED]		

1.0 - JUSTIFICATION	
Justification for OOHW	Road Occupancy Licence (ROL) prevents works from occurring within standard construction hours.
DPIE Condition under which works are permitted	<i>Include additional details if required</i>
	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 <input checked="" type="checkbox"/> Map attached at end of form (showing location / work extent / nearest sensitive	Location & Chainage	Punchbowl Road intersection with Wangee Road Lakemba CH5300-5400 approximately
	Description of works	Saw cutting, Concrete / Asphalt breakout, Excavation, Conduit install, TSB backfill, Temp restorations (Road Plates to be used as required).
	Proposed dates + time	Start 15/11/2020 @ 18:00 Finish 22/11/2020 @ 06:00 (max. 4 shifts per week) Start 22/11/2020 @ 18:00 Finish 29/11/2020 @ 06:00 (max 4 shifts per week) Start 29/11/2020 @ 18:00 Finish 06/12/2020 @ 06:00 (max 4 shifts per week)
	Contingency dates + time	Start 06/12/2020 @ 18:00 Finish 13/12/2020 @ 06:00 (max 4 shifts per week) Work is expected to take a maximum of 12 shifts across three weeks however an added four shifts are applied for as contingency.

2.0 – DESCRIPTION OF THE WORKS																																									
receivers / landscape)	Proposed Timings	<p><i>Works on Punchbowl Road Lakemba</i> <i>4 nights per week 6pm – 6am. Approximate schedule illustrated below replicated over 3 weeks</i> <i>12 shifts expected to be required, with a contingency of 4 shifts applied for.</i></p> <table border="1"> <thead> <tr> <th>Night 1 6pm- 6am</th> <th>Night 2 6pm-6am</th> <th>Night 3 6pm- 6am</th> <th>Night 4 6pm- 6am</th> <th>Night 5 6pm- 6am</th> <th>Night 6 6pm- 6am</th> <th>Night 7</th> </tr> </thead> <tbody> <tr> <td>High impact noise.</td> <td>High impact noise.</td> <td>Moderate noise.</td> <td>Moderate noise.</td> <td>Respite</td> <td>Respite</td> <td>Respite</td> </tr> <tr> <td>Saw cutting Concrete/asphalt breakout</td> <td>Saw cutting Concrete/asp halt breakout</td> <td>Asphalt breakout</td> <td>Asphalt breakout</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Excavation to carry out investigations.</td> <td>Excavation to carry out investigations.</td> <td>Excavation Conduit install</td> <td>Excavation Conduit install</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Temp restorations (Plates if required)</td> <td>Temp restorations (Plates if required)</td> <td>Temp restorations (Plates if required)</td> <td>Temp restorations (Plates if required)</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>					Night 1 6pm- 6am	Night 2 6pm-6am	Night 3 6pm- 6am	Night 4 6pm- 6am	Night 5 6pm- 6am	Night 6 6pm- 6am	Night 7	High impact noise.	High impact noise.	Moderate noise.	Moderate noise.	Respite	Respite	Respite	Saw cutting Concrete/asphalt breakout	Saw cutting Concrete/asp halt breakout	Asphalt breakout	Asphalt breakout				Excavation to carry out investigations.	Excavation to carry out investigations.	Excavation Conduit install	Excavation Conduit install				Temp restorations (Plates if required)	Temp restorations (Plates if required)	Temp restorations (Plates if required)	Temp restorations (Plates if required)			
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Details on any concurrent construction activities being undertaken OOH adjacent / in close proximity to the proposed works?	No known other OOH planned in the vicinity.																																								
Names of Foremen supervising the work	[REDACTED]																																								
Subcontractor Details	Durkin (locating) Carrickshock (Sawcutting) Boral (concrete supply)																																								

3.0 – SENSITIVE RECEIVERS				
Distance to Nearest	Sensitive Receiver	Distance	Sensitive Receiver	Distance
Sensitive Noise Receiver	<input checked="" type="checkbox"/> Place of Worship (Not impacted by OOH work)	140m	<input checked="" type="checkbox"/> Educational Institution (including Child Care Centres) (Not impacted by OOH work)	325m
	<input type="checkbox"/> N+V Sensitive Business and critical working area (eg. theatre, health services)		<input checked="" type="checkbox"/> Nearest Residential Receiver	15m
	<input type="checkbox"/> Not applicable (no sensitive receivers impacted)			
	<i>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.</i>			
Has the sensitive receiver been consulted on these works and proposed respite options? (refer to CoA E9). List outcomes of consultation below <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				
Comments				
See Section 7 below, as well as attached record of community consultation and results of respite questionnaire.				

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
Are alternative, quieter / less vibration intensive options feasible for the activity? If yes, why are these not being used?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

5.0 – TRAFFIC MANAGEMENT	
Will the work require traffic control?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Describe the location and nature of disruption to traffic proposed	Lane closures as per Traffic Management Plan & Road Occupancy Licence

6.0 – Lighting	
What lighting is to be provided for night work?	Small generator, diesel powered lighting
Will lighting be positioned minimise light spill to nearby receivers? Refer AS4282-1997 and AS/NZ 1158).	Yes

7.0 – Noise and Vibration Assessment											
Reference: NMC Noise Management Level (NML) Sleep Disturbance Level (night only) Predicted Range (L _{Aeq})	<table border="1"> <tr> <td>NCA:</td> <td>02</td> </tr> <tr> <td>Type of OOHW:</td> <td>Saw cutting, concrete & asphalt breakout, Loading trucks. Install conduits. Backfill & restoration.</td> </tr> <tr> <td>NML:</td> <td>45</td> </tr> <tr> <td>SDL:</td> <td>54</td> </tr> <tr> <td>Predicted:</td> <td>50-85dB L_{Aeq}</td> </tr> </table>	NCA:	02	Type of OOHW:	Saw cutting, concrete & asphalt breakout, Loading trucks. Install conduits. Backfill & restoration.	NML:	45	SDL:	54	Predicted:	50-85dB L _{Aeq}
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Acoustic Assessment to determine if works are above RBL +5dB(A) at closest receiver	<input type="checkbox"/> <input checked="" type="radio"/> Below NML <input type="checkbox"/> <input type="radio"/> <5dB(A) above NML – construction noise noticeable <input type="checkbox"/> <input type="radio"/> 5 to 15dB(A) above NML – construction noise clearly audible <input type="checkbox"/> <input type="radio"/> >15 to 25dB(A) above NML – construction noise moderately intrusive <input checked="" type="checkbox"/> <input type="checkbox"/> >25dB(A) above NML – construction noise highly intrusive										
What measures are being taken to reduce noise impacts	<input type="checkbox"/> No added measures – No impact to sensitive receivers <input checked="" type="checkbox"/> Restrictive tools (<i>list</i>) - 13T excavator <input type="checkbox"/> Balloon lights <input checked="" type="checkbox"/> Noise attenuation curtains <input checked="" type="checkbox"/> High noise impact respite <input checked="" type="checkbox"/> Other (<i>list</i>) In consultation with the community, no more than four nights per week of work, followed by three nights of respite, over the date range specified.										
Noise monitoring required?	<input checked="" type="checkbox"/> Yes- Compliance monitoring to be carried out within the first two shifts (unless previous project OOH monitoring has shown compliance). <input type="checkbox"/> No										
	<input checked="" type="checkbox"/> Yes. If yes, state number of properties expected to be impacted?										

7.0 – Noise and Vibration Assessment																	
<p>Are vibration impacts above Human Comfort levels expected?</p>	<p><input type="checkbox"/> No Refer to OOH CNVIS Table 5</p>	<p>CNVIS estimates between 6-24 properties affected by noticeable vibration.</p>															
<p>Is vibration monitoring required?</p> <p>Refer to CNVMP / Monitoring Program</p>	<p><input checked="" type="checkbox"/> Yes - Compliance monitoring to be carried out within the first two shifts (unless previous project OOH monitoring has shown compliance).</p> <p><input type="checkbox"/> No</p> <p>Nominated Verification monitoring locations (from CNVIS)</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Worksite</th> <th style="width: 20%;">NCA</th> <th style="width: 50%;">Nominated receiver</th> </tr> </thead> <tbody> <tr> <td>Punchbowl Road crossing at Wangee Road</td> <td>02</td> <td>465 Punchbowl Road (residential)</td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		Worksite	NCA	Nominated receiver	Punchbowl Road crossing at Wangee Road	02	465 Punchbowl Road (residential)									
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<p>Community notification required?</p>	<p>Yes</p> <p>Community notifications will be undertaken as per the approved Community Communication Strategy, including;</p> <p>Letters notifying of work activities to be delivered 7 days before.</p> <p>A door knock will be done for the sensitive receivers immediately adjacent to the works as per NVMP including Lakemba Mosque (contingent on COVID-19 situation).</p>																
<p>Evidence of consultation and results</p>	<p><u>Spreadsheet from Consultation Manager, and consultation documentation submitted with this application.</u></p> <p><u>Summary of Results:</u></p> <p>NOTE: Consultation in this area was affected by the Lakemba COVID-19 cluster. Doorknocking minimised for health and safety reasons. Letter box drops and email consultation carried out on Lakemba side of Punchbowl Road.</p> <p>26 receivers consulted directly on preferred respite. 13 responses received.</p> <p>Of those expressing a preference, approx. 87.5 % favoured option 2, which was baseline OOH plus two additional consecutive nights per week with three nights of respite following.</p>																

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:

11

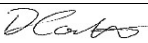
Risk level calculator worksheet attached with application

Works to be approved by Planning Secretary as per CoA E(8)(e)

AUTHORISATION

1. Environmental Manager					
<p style="color: red; margin: 0;">Approval Authority for works with Low or Medium Risk level on OOHW Risk Table as per section 8.0</p> <p>I confirm these works have been appropriately assessed under the OOHW Protocol as per CoA E8 and E9.</p> <p>The following Mitigation Measures shall be implemented:</p> <ul style="list-style-type: none"> Verification monitoring. Installation of noise barriers around high impact works. Respite as per Community Consultation. Additional respite including 1 hr off after 3 hrs high impact work. No high impact work after midnight where practicable. Selection of appropriate plant and equipment 					
Name		Signature		Date	26/10/2020
2. Planning Secretary					
<p style="color: red; margin: 0;">Approval Authority for works with High Risk level on OOHW Risk Table as per section 8.0</p> <p>I confirm these works have been appropriately assessed under the OOHW Protocol as per CoA E8 and E9.</p> <p>The following Mitigation Measures shall be implemented:</p>					
Name		Signature		Date	

Site Acceptance

3. Construction Supervisor/Project Manager					
<p>I confirm the following:</p> <ul style="list-style-type: none"> ▪ The work details in this approval accurately reflect the planned work on site ▪ 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 prior to work commencing, or as soon as changes become known. 					
Name		Signature		Date	26/10/2020

Attachment – Map of Works Location



Figure 1: Extract from project OOHV CNVIS showing location at intersection Punchbowl Road and Wangee Road and noise impacted receivers.

Community consultation information attached separately.

Project No.:	10-1779
Date:	02/09/2020
Drawn by:	RW
Scale:	1:6394
Sheet Size:	@A4
Projection:	GDA 1994 MGA Zone 56



Powering Sydney's Future
Potts Hill to Alexandria
Transmission Cable Project
Out of Hours Works - Predicted LAeq Noise Levels
Punchbowl Road - Map 5 of 15



This document may be based on data provided by third parties for which VMS Australia Pty Ltd cannot guarantee the accuracy.

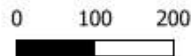
Attachment – Map of Works Location



Figure 2: Extract from project OOHV CNVIS showing location at intersection Punchbowl Road and Wangee Road and vibration impacted receivers.

Community consultation information attached separately.

Project No. 20-0779
Date: 02/09/2020
Drawn by: RW
Scale: 1:5000
Sheet Size: A4
Projection: GDA 1994 MGA Zone 56



Powering Sydney's Future
Potts Hill to Alexandria
Transmission Cable Project
Out of Hours Works
Predicted Daytime VDV Vibration Levels
Punchbowl Road - Map 5 of 15

T: 1800 867 000
E: info@vms.com.au
www.vms.com.au

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PSF OUT-OF-HOURS WORK PERMIT

Report	OOH consultation for Trenching Punchbowl Road	
Objective:	Obtain feedback about two different ways to do works at the intersection of Wangee Road and Punchbowl Road. <ul style="list-style-type: none"> •Option 1 - Two consecutive nights per week over five-six weeks, or •Option 2 - Four consecutive nights per week over three-four weeks. 	
Total of properties to consult	26 (57 before Lakemba COVID-19 cluster in mid-Oct 2020)	100%
Total of properties consulted	13	50%
Total of properties with unsuccessful contact	13	50%

MAP OF THE 55dBA AFFECTED AREA



Results:

ITEM	#	%	% of those expressing a preference
Total residents selecting option 2: The road crossing will be done over four consecutive night shifts, with no work on the 5th or remaining nights that week. – This option may allow completion of the crossing by the end of the 3 rd or 4 th week of works.	7	53.8%	87.5
Total residents selecting option 1: The road crossing will be done over two consecutive night shifts per week. – This option means we may be working near your property for up to 6-7 weeks.	1	7.7%	12.5
Total residents without preferences	5	38.4%	N/A
Total of houses consulted	13	100%	100%

Powering Sydney's Future

POTTS HILL TO ALEXANDRIA TRANSMISSION CABLE PROJECT COMMUNITY CONSULTATION

Out-of-hours work at Punchbowl Road, Lakemba

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 the intersection on **Punchbowl Road and Wangee Road**, 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 in **November 2020 and will require around 12 shifts**.

How will the work affect you?

- > Out-of-hours work shifts are typically carried out between **7pm and 7am, Monday to Sunday**.
- > **There will be around 12 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 - Two consecutive nights per week over five-six weeks, or
- Option 2 - Four consecutive nights per week over two-three 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 **Friday, 16 October 2020**.

Please write **Punchbowl Road** in the subject line of your email to identify the road crossing.



Connect with us

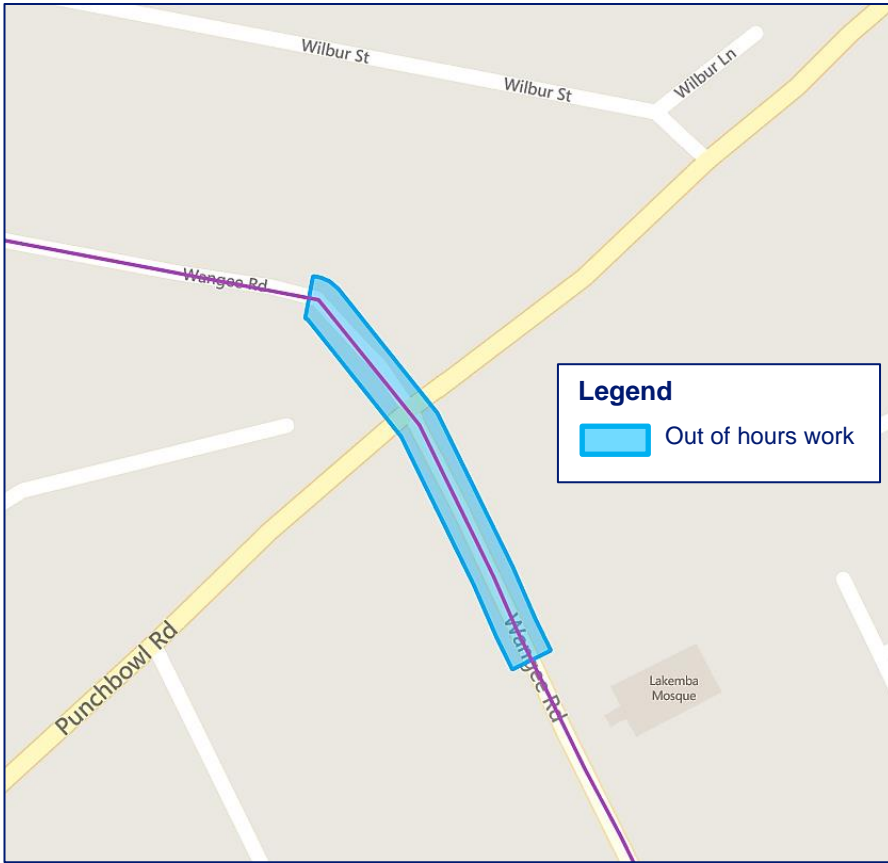
Community Information Line: 1800 955 588

Email: psf@transgrid.com.au

Web: www.transgrid.com.au/psf



Out-of-hours work map



		Approximately 10 shifts over the period below		
Noisy activities	Tools and equipment	November	December	January
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.



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

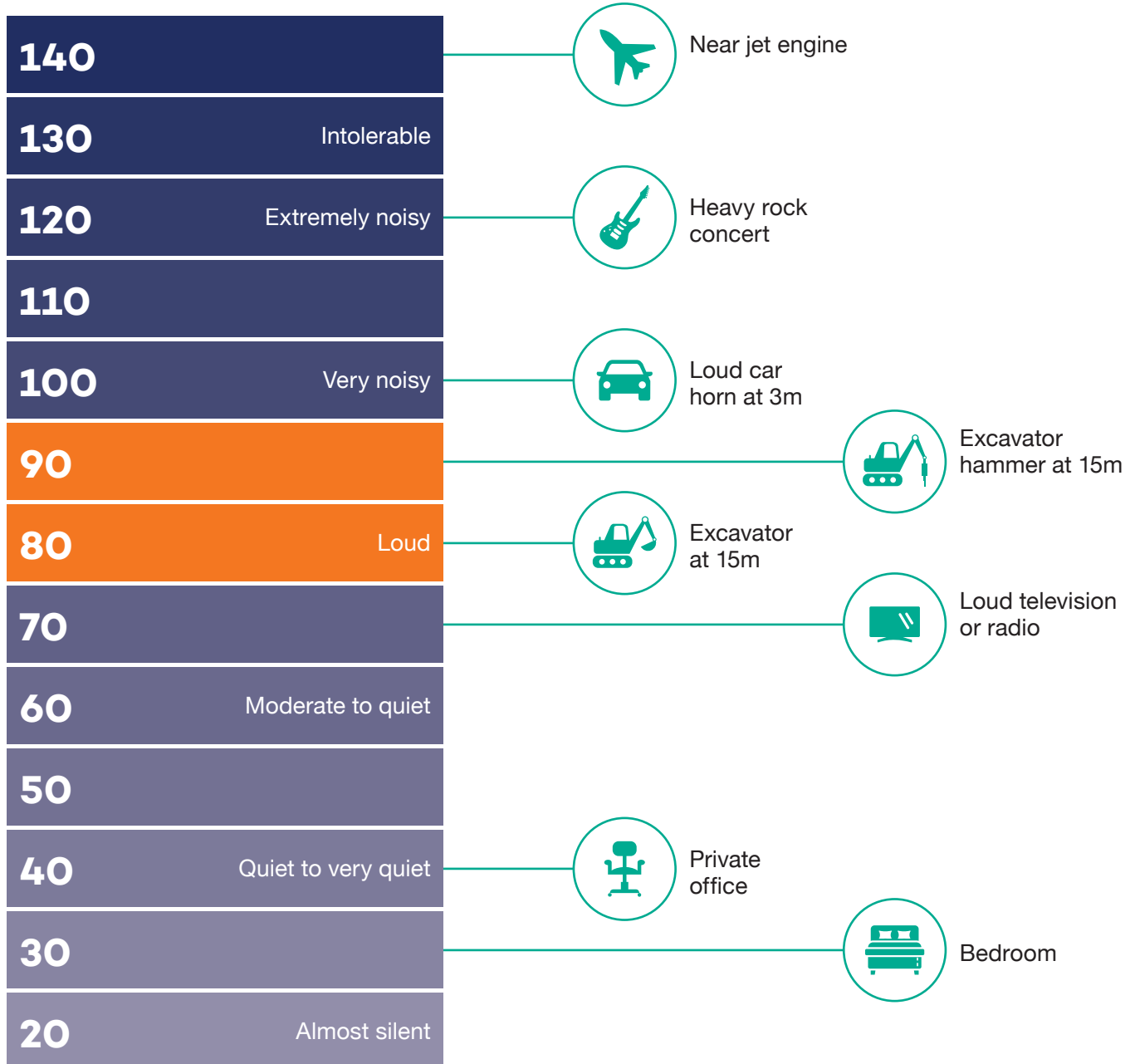
Noise level comparisons



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



Out of Hours Work

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

OOHW Protocol is Triggered!!!

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

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

Exceedance of NML	Day OOHW 7am - 6pm	Evening OOHW 6pm - 10pm	Night OOHW 10pm - 7am	Qualitative Description
<5dB	<input type="radio"/> Low (1)	<input type="radio"/> Low (1)	<input type="radio"/> Low (1)	Barely noticeable exceedance of the NML
5 - 15 dB	<input type="radio"/> Low (1)	<input type="radio"/> Low (1)	<input type="radio"/> Mod (2)	Noticeably audible exceedance of the NML
15 - 25 dB	<input type="radio"/> Low (1)	<input type="radio"/> Mod (2)	<input type="radio"/> Mod (2)	Clearly audible exceedance of the NML
>25 dB	<input type="radio"/> Mod (2)	<input type="radio"/> High (3)	<input type="radio"/> High (3)	Intrusive exceedance of the NML
>75 dBA	<input type="radio"/> Mod (2)	<input type="radio"/> High (3)	<input checked="" type="radio"/> High (3)	Highly affected receivers

Vibration Assessment in Residential Areas (click here if Not Applicable) <input type="radio"/>	Day OOHW 7am - 6pm	Evening OOHW 6pm - 10pm	Night OOHW 10pm - 7am	Qualitative Description
Less than Preferred	<input type="radio"/> Low (1)	<input type="radio"/> Low (1)	<input type="radio"/> Low (1)	No noticeable floor vibration
Greater than Preferred, but Less than Maximum	<input type="radio"/> Low (1)	<input type="radio"/> Mod (2)	<input checked="" type="radio"/> Mod (2)	Barely noticeable floor vibration
Greater than Maximum	<input type="radio"/> Low (1)	<input type="radio"/> Mod (2)	<input type="radio"/> High (3)	Noticeable floor vibration

Duration	Day OOHW 7am - 6pm	Evening OOHW 6pm - 10pm	Night OOHW 10pm - 7am	Qualitative Description
1 day	<input type="radio"/> Low (1)	<input type="radio"/> Low (1)	<input type="radio"/> Low (1)	Generally Tolerable
2 days	<input type="radio"/> Low (1)	<input type="radio"/> Mod (2)	<input type="radio"/> Mod (2)	Marginal Annoyance
3 days	<input type="radio"/> Low (1)	<input type="radio"/> Mod (2)	<input type="radio"/> High (3)	Moderate Annoyance
More than 3 days	<input type="radio"/> Low (1)	<input type="radio"/> High (3)	<input checked="" type="radio"/> 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:

11